

EXXON COMPANY, U.S.A.

P.O. BOX 4032 • CONCORD, CA 94524-4032
MARKETING DEPARTMENT • ENVIRONMENTAL ENGINEERING

DARIN L. ROUSE
SENIOR ENGINEER

(925) 246-8768
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1068

November 23, 1999

Mr. Barney Chan
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Room 250
Alameda, California 94502-6577

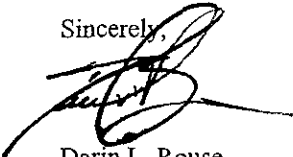
RE: **Former Exxon RAS #7-0236/6600 East 14th Street, Oakland, California.**

Dear Mr. Chan:

Attached for your review and comment is a letter report entitled *Quarterly Groundwater Monitoring Report, Fourth Quarter 1999*, dated November 5, 1999, for the above referenced site. The report was prepared by Environmental Resolutions, Inc. (ERI) of Novato, California, and details the results of the quarterly groundwater monitoring and sampling activities at the subject site. At the request of Exxon, ERI collected groundwater samples and performed a dissolved oxygen field analysis on these samples. Results of this field analysis are presented in Table 1.

If you have any questions or comments, please contact me at (925) 246-8768.

Sincerely,



Darin L. Rouse
Senior Engineer

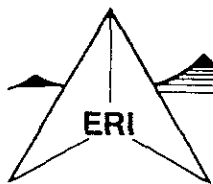
Attachment ERI's Quarterly Groundwater Monitoring Report, Fourth Quarter 1999, dated November 5, 1999.

cc: w/ attachment
Mr. Stephen Hill - California Regional Water Quality Control Board-San Francisco Bay Region

w/o attachment
Mr. James F. Chappell - Environmental Resolutions, Inc.
Ms. Kathy Simonelli - Geologic Services Corporation

99 NOV 22 PM 3:27
ENVIRONMENTAL
PROTECTION





ENVIRONMENTAL RESOLUTIONS, INC.

November 5, 1999
ERI 200913.R20

Mr. Darin L. Rouse
Exxon Company, U.S.A.
P.O. Box 4032
Concord, California 94524-4032

Subject: Quarterly Groundwater Monitoring Report, Fourth Quarter 1999, Former Exxon Service Station 7-0236, 6600 East 14th Street, Oakland, California.

Mr. Rouse:

At the request of Exxon Company, U.S.A. (Exxon), Environmental Resolutions, Inc. (ERI) is reporting the results of the fourth quarter 1999 groundwater monitoring and sampling event at the subject site. The location of the site is shown on the Site Vicinity Map (Plate 1). The purpose of quarterly monitoring and sampling is to evaluate concentrations of dissolved hydrocarbons in groundwater and the direction and gradient of groundwater flow. Blaine Tech Services, Inc. (Blaine Tech) performed the site field activities at the request of Exxon.

GROUNDWATER MONITORING AND SAMPLING

On October 11, 1999, Blaine Tech measured depth to water (DTW) in on-site and off-site wells, and collected groundwater samples from these wells for laboratory analysis. Work was performed in accordance with Blaine Tech's groundwater sampling protocol (Attachment A).

Calculated groundwater gradient and flow direction are presented on Plate 2. Historical and recent monitoring data are summarized in Table 1.

LABORATORY ANALYSES AND RESULTS

Groundwater samples were submitted to Southern Petroleum Laboratories, Inc. (SPL), and Sequoia Analytical Laboratories (Sequoia) a California state-certified laboratories, under Chain of Custody protocol. The samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX), methyl tertiary butyl ether (MTBE), total purgeable petroleum hydrocarbons as gasoline (TPPHg), and total extractable petroleum hydrocarbons as diesel (TEPHd), alkalinity, ferrous iron, nitrate, and sulfate using the methods listed in the notes in Table 1. The laboratory analysis reports and Chain of Custody records are attached (Attachment B). Cumulative results of laboratory analyses of groundwater samples are summarized in Table 1. Analytical results of groundwater samples collected during the recent sampling event are shown on Plate 2.

LIMITATIONS

This report was prepared in accordance with generally accepted standards of environmental practice in California at the time this investigation was performed. This report has been prepared for Exxon Company, U.S.A., and any reliance on this report by third parties shall be at such party's sole risk.

ERI recommends forwarding copies of this report to:

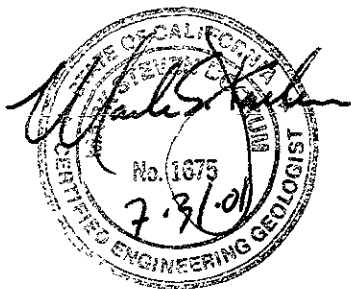
Mr. Barney Chan
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Room 250
Alameda, California 94502-6577

Mr. Stephen Hill
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, California 94612

Please call Mr. James F. Chappell, ERI's project manager for this site, at (415) 382-4323 with any questions regarding this project.

Sincerely,
Environmental Resolutions, Inc.

James F. Chappell
James F. Chappell
Senior Staff Scientist



Mark S. Dockum
Mark S. Dockum
R.G. 4412
C.E.G. 1675

- Attachments: Table 1: Cumulative Groundwater Monitoring and Sampling Data
- Plate 1: Site Vicinity Map
- Plate 2: Generalized Site Plan
- Attachment A: Groundwater Sampling Protocol
- Attachment B: Laboratory Analysis Reports and Chain of Custody Records

TABLE 1
 CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Former Exxon Service Station 7-0236
 6600 East 14th Street
 Oakland, California
 (Page 1 of 8)

Well ID # (TOC)	Sampling Date	SUBJ < ... >	DTW feet... >	Elev ... >	TEPHd < ... >	TPPHg ... >	MTBE ... >	B ug/L ... >	T ... >	E ... >	X ... >	DO ... >	Ferrous Iron ... >	Alkalinity mg/L ... >	Nitrate ... >	Sulfate ... >
MW1 (20 20)	3/15/91	NR	7.44	12.76	---	<50	---	<0.3	0.5	0.3	1.3	---	---	---	---	---
	1/15/92 (H,T)	NR	10.60	9.60	< 300	<50	---	<0.5	0.7	<0.5	0.9	---	---	---	---	---
	3/23/92 (H,T)	NR	6.38	13.82	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	4/6/92	NR	7.55	12.65	---	---	---	---	---	---	---	---	---	---	---	---
	7/8/92 (H,T)	NR	9.85	10.35	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	10/13/92 (H,T)	NR	12.95	7.25	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	3/9/93	NLPH	7.38	12.82	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	6/4/93	NLPH	8.55	11.65	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	9/2/93	NLPH	10.85	9.35	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	11/16/93	NLPH	12.43	7.77	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	2/4/94	NLPH	9.10	11.10	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	4/29/94	NLPH	8.45	11.75	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	9/20/94	NLPH	10.73	9.47	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	12/14/94	NLPH	7.35	12.85	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	3/27/95	NLPH	7.06	13.14	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	5/18/95	NLPH	7.32	12.88	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	8/8/95	NLPH	9.24	10.96	<50	<50	< 2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	11/7/95	NLPH	10.74	9.46	<50	<50	< 2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	2/29/96	NLPH	6.80	13.40	53	<50	< 2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	5/10/96	NLPH	8.13	12.07	150	<50	< 2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	8/20/96	NLPH	9.58	10.62	<50	<50	< 2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	10/17/96	---	---	---	---	---	---	---	---	---	---	9.50	---	---	---	---
	11/27/96	---	---	---	---	---	---	---	---	---	---	11.54	---	---	---	---
	12/6/96	NLPH	8.10	12.10	---	---	---	---	---	---	---	10.05	---	---	---	---
	1/19/97	abandoned	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW2 (19 15)	3/15/91 (H,T)	NR	9.05	10.10	120	1,700	---	190	2.6	12	64	---	---	---	---	---
	1/15/92 (H,T)	NR	11.60	7.55	1,000	6,800	---	81	<10	320	170	---	---	---	---	---
	3/23/92 (H,T)	NR	9.42	9.73	3,000	7,100	---	740	30	810	490	---	---	---	---	---
	4/6/92	NR	9.09	10.06	---	---	---	---	---	---	---	---	---	---	---	---
	7/8/92	NR	10.08	9.07	2,100	7,000	---	250	14	300	160	---	---	---	---	---
	10/13/92	NR	12.06	7.09	1,900	3,200	---	97	2.6	97	53	---	---	---	---	---
	3/9/93	sheen	9.71	9.44	---	---	---	---	---	---	---	---	---	---	---	---
	6/4/93	sheen	9.40	9.75	---	---	---	---	---	---	---	---	---	---	---	---
	9/2/93	sheen	10.46	8.69	3,700	11,000	2,500	210	18	260	59	---	---	---	---	---
	11/16/93 (M*)	NLPH	11.44	7.71	3,300	8,500	---	75	27	51	32	---	---	---	---	---
	2/4/94	NLPH	10.41	8.74	2,700	4,400	---	120	16	22	7.7	---	---	---	---	---
	4/29/94	NLPH	9.51	9.64	2,000	380	---	5.9	0.6	1.6	<0.5	---	---	---	---	---
	9/20/94	NLPH	10.57	8.58	1,800**	19,000	---	190	29***	110	27***	---	---	---	---	---
	12/14/94	sheen	8.90	10.25	---	---	---	---	---	---	---	---	---	---	---	---
	3/27/95	NLPH	7.72	11.43	1,700	6,300	---	210	15	250	43	---	---	---	---	---
	5/18/95	sheen	8.65	10.50	2,000#	6,000	---	180	9.9	220	55	---	---	---	---	---
	8/8/95	NLPH	9.67	9.48	2,700	5,300	36,000	110	<20	120	<20	---	---	---	---	---
	11/7/95	NLPH	10.49	8.66	1,800	6,400	24,000	120	11	95	38	---	---	---	---	---
	2/29/96	NLPH	8.45	10.70	2,500	<5,000	25,000	120	<50	120	<50	---	---	---	---	---

Additional Analyses for general minerals and properties < *

TABLE 1
 CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Former Exxon Service Station 7-0236
 6600 East 14th Street
 Oakland, California
 (Page 2 of 8)

Well ID # (TOC)	Sampling Date	SUBJ <.....>	DTW ...feet	Elev >.....	TEPHd <.....	TPPHgug/L	MTBE	B	T	E	X	DO <.....>	Ferrous ironmg/L	Alkalinitymg/L	Nitrate	Sulfate
MW2 (cont) (19,15)	5/10/96	NLPH	9.02	10.13	2,300	11,000	26,000	210	120	210	140	---	---	---	---	---
	8/20/96	NLPH	10.08	9.07	---	---	---	---	---	---	---	---	---	---	---	---
	10/17/96	---	---	---	---	---	---	---	---	---	---	7.75	---	---	---	---
	11/27/96	---	---	---	---	---	---	---	---	---	---	6.28	---	---	---	---
	12/6/96	NLPH	10.21	8.94	1,700	5,800	< 125	170	<25	38	<25	5.21	---	---	---	---
	1/17/97	NLPH	---	---	---	---	---	---	---	---	---	3.67	---	---	---	---
	2/25/97	NLPH	8.15	14.04	1,500	5,900	4,400	110	14	310	52	2.71	---	---	---	---
	3/13/97	---	---	---	---	---	---	---	---	---	---	2.46	---	---	---	---
	4/16/97	---	---	---	---	---	---	---	---	---	---	1.00	---	---	---	---
	5/21/97	NLPH	10.50	11.69	1,600	5,700	1,800	71	11	240	59	0.85	---	---	---	---
	6/5/97	---	---	---	---	---	---	---	---	---	---	2.18	---	---	---	---
	7/11/97	---	---	---	---	---	---	---	---	---	---	1.87	---	---	---	---
	8/6/97	NLPH	10.80	11.39	1,600	4,100	(1,900)	40	5.2	49	17	1.51	---	---	---	---
	9/23/97	---	---	---	---	---	---	---	---	---	---	2.36	---	---	---	---
	10/7/97	NLPH	11.08	11.11	1,200	280	230	1.2	2.4	< 0.5	1.1	1.56	---	---	---	---
	12/24/97	---	---	---	---	---	---	---	---	---	---	1.23	---	---	---	---
	1/16/98	NLPH	7.29	14.90	1,200	3,500	3,000	190	14	110	31	1.18	---	---	---	---
	2/20/98	---	---	---	---	---	---	---	---	---	---	1.30	---	---	---	---
	3/26/98	---	---	---	---	---	---	---	---	---	---	1.20	---	---	---	---
	4/17/98	NLPH	8.61	13.58	970	3,200	2,600	150	6.9	37	5.7	1.38	---	---	---	---
	5/13/98	---	---	---	---	---	---	---	---	---	---	0.45	---	---	---	---
	6/22/98	---	---	---	---	---	---	---	---	---	---	1.09	---	---	---	---
	7/17/98	NLPH	9.38	12.81	1,300	1,700	1,500	63	< 5.0	<5.0	<5.0	0.86	---	---	---	---
10/16/98	NLPH	10.41	11.78	1,500	2,000	1,400	22	< 2.0	< 2.0	2.4	---	---	---	---	---	
1/15/99	NLPH	10.01	12.18	900	2,300	2,200	< 5.0	6.0	<5.0	6.5	---	---	---	---	---	
4/23/99	NLPH	7.61	14.58	967	2,140	937	42.3	<1.0	22.3	<1.0	---	---	---	---	---	
7/30/99	NLPH	9.82	12.37	1,620	2,480	1,470/1,360*	100	<10.0	<10.0	<10.0	---	---	---	---	---	
8/12/99	NLPH	10.00	12.19	---	---	---	---	---	---	---	---	0.710	750	6.0	7.2	
9/3/99	NLPH	---	---	---	---	---	---	---	---	---	1.02	---	---	---	---	
10/11/99	NLPH	10.46	11.73	1,700	2,900	1,300/1,400*	<1.0	2.5	<1.0	<1.0	19.71	0.200	927	14.8	27.6	
10/14/99	NLPH	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW3 (19 59)	3/15/91 (H,T)	NR	7.84	11.75	160	3,100	---	2.2	1.9	100	84	---	---	---	---	---
	1/15/92 (H,T)	NR	10.30	9.29	< 300	250	---	0.7	6.8	1.5	1.5	---	---	---	---	---
	3/23/92 (H,T)	NR	6.84	12.75	440	640	---	<0.5	12	25	6.5	---	---	---	---	---
	4/6/92	NR	7.84	11.75	---	---	---	---	---	---	---	---	---	---	---	---
	7/8/92 (H,T)	NR	8.63	10.96	960	2,900	---	<0.5	2.6	12	63.7	---	---	---	---	---
	10/13/92 (H)	NR	12.10	7.49	400	1,100	---	5.5	<0.5	4.6	1.1	---	---	---	---	---
	3/9/93	sheen	9.05	10.54	---	---	---	---	---	---	---	---	---	---	---	---
	6/4/93	sheen	8.43	11.16	---	---	---	---	---	---	---	---	---	---	---	---
	9/2/93	NLPH	10.22	9.37	690	840	---	2.7	3.6	5.4	2.9	---	---	---	---	---
	11/16/93	NLPH	11.44	8.15	310	650	---	<0.5	11	7.7	2.4	---	---	---	---	---
	2/4/94	NLPH	9.27	10.32	340	870	---	0.6	14	1.2	0.8	---	---	---	---	---
	4/29/94	NLPH	8.10	11.49	290	790	---	<0.5	<0.5	0.8	1	---	---	---	---	---
	9/20/94	NLPH	10.10	9.49	91**	1,900	---	<0.5	<0.5	11	4.4	---	---	---	---	---
	12/14/94	NLPH	8.00	11.59	190	1,700	---	17	22	<0.5	<0.5	---	---	---	---	---
3/27/95	NLPH	7.23	12.36	1,100	1,500	---	5.0	3.1	6.3	3.6	---	---	---	---	---	

*Do we need deep
 gw sample?*

TABLE 1
 CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Former Exxon Service Station 7-0236
 6600 East 14th Street
 Oakland, California
 (Page 3 of 8)

Well ID # (TOC)	Sampling Date	SUBJ < feet >	DTW >	Elev. >	TEPHd <	TPPHg >	MTBE >	B ug/L	T	E	X	DO	Ferrous iron	Alkalinity mg/L	Nitrate	Sulfate	
MW3 (cont) (19.59)	5/18/95	NLPH	7.73	11.86	470#	1,000	---	<0.5	<0.5	4.1	0.94	---	---	---	---	---	
	8/8/95	NLPH	8.81	10.78	580	1,600	12	12	<0.5	2.4	0.63	---	---	---	---	---	
	11/7/95	NLPH	9.96	9.63	540	1,500	26	<2.5	2.9	<2.5	<2.5	---	---	---	---	---	
	2/29/96	NLPH	8.47	11.12	680	1,000	<25	<5.0	<5.0	<5.0	<5.0	---	---	---	---	---	
	5/10/96	NLPH	7.93	11.66	560	480	6.8	<1.0	<1.0	<1.0	<1.0	---	---	---	---	---	
	8/20/96	NLPH	10.13	9.46	---	---	---	---	---	---	---	---	---	---	---	---	---
	10/17/96	---	---	---	---	---	---	---	---	---	---	---	7.65	---	---	---	---
	11/27/96	---	---	---	---	---	---	---	---	---	---	---	8.76	---	---	---	---
	12/6/96	NLPH	9.21	10.38	450	970	19	<1.0	<1.0	<1.0	1.8	10.14	---	---	---	---	---
	1/17/97	---	---	---	---	---	---	---	---	---	---	---	14.02	---	---	---	---
	(22.62)	2/25/97	NLPH	8.34	14.28	410	990	47	10	0.85	0.86	1.5	10.69	---	---	---	---
	3/13/97	---	---	---	---	---	---	---	---	---	---	---	8.68	---	---	---	---
	4/16/97	---	---	---	---	---	---	---	---	---	---	---	18.73	---	---	---	---
	5/21/97	NLPH	9.99	12.63	270	<50	<2.5	<0.5	<0.5	<0.5	<0.5	6.76	---	---	---	---	---
	6/5/97	---	---	---	---	---	---	---	---	---	---	---	6.70	---	---	---	---
	7/11/97	---	---	---	---	---	---	---	---	---	---	---	4.10	---	---	---	---
	8/6/97	NLPH	10.29	12.33	310	650	<5.0	4.0	<1.0	<1.0	<1.0	10.59	---	---	---	---	---
	9/23/97	---	---	---	---	---	---	---	---	---	---	---	8.62	---	---	---	---
	10/7/97	NLPH	10.86	11.76	500	1,600	12	24	10	<2.0	3.5	11.81	---	---	---	---	---
	12/24/97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1/16/98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	2/20/98	---	---	---	---	---	---	---	---	---	---	---	11.22	---	---	---	---
	3/26/98	---	---	---	---	---	---	---	---	---	---	---	10.55	---	---	---	---
	4/17/98	NLPH	7.56	15.06	220	710	21	<0.5	0.76	<0.5	<0.5	9.40	---	---	---	---	---
	5/13/98	---	---	---	---	---	---	---	---	---	---	---	0.22	---	---	---	---
	6/22/98	---	---	---	---	---	---	---	---	---	---	---	0.96	---	---	---	---
	7/17/98	NLPH	8.23	14.39	180	450	8.9	9.5	<1.0	<1.0	<1.0	0.94	---	---	---	---	---
10/16/98	NLPH	9.75	12.87	320	520	5.1	<0.5	11	<0.5	0.93	---	---	---	---	---	---	
1/15/99	NLPH	8.83	13.79	600	190	12	<0.5	0.91	<0.5	0.7	---	---	---	---	---	---	
4/23/99	NLPH	7.11	15.51	194	406	2.71	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	
7/30/99	NLPH	8.98	13.64	72.5	193	<2.50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	
8/12/99	NLPH	9.40	13.22	---	---	---	---	---	---	---	---	---	0.0440	330	48.1	47.4	
9/3/99	NLPH	---	---	---	---	---	---	---	---	---	---	2.56	---	---	---	---	
10/11/99	NLPH	9.91	12.71	100	130	<1.0	<1.0	<1.0	<1.0	<1.0	---	0.0490	317	50.1	48.2		
10/14/99	NLPH	---	---	---	---	---	---	---	---	---	---	1.41	---	---	---	---	
MW4 (19.46)	4/6/92	NR	7.76	11.70	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	7/8/92	NR	9.56	9.90	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	10/13/92	NR	12.09	7.37	<80	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	3/9/93	NLPH	7.53	11.93	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	6/4/93	NLPH	8.50	10.96	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	9/2/93	NLPH	10.30	9.16	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	11/16/93*	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	2/4/94	NLPH	8.82	10.64	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	4/29/94 (D)	NLPH	8.55	10.91	100	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	9/20/94	NLPH	10.21	9.25	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	12/14/94	NLPH	7.04	12.42	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	

TABLE 1
 CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Former Exxon Service Station 7-0236
 6600 East 14th Street
 Oakland, California
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Well ID # (TOC)	Sampling Date	SUBJ	DTW feet	Elev	TEPHd	TPPHg	MTBE	B ug/L	T	E	X	DO	Ferrous Iron	Alkalinity mg/L	Nitrate	Sulfate	
MW4 (cont) (19.46)	3/27/95	NLPH	6.38	13.08	140	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	5/18/95	NLPH	7.56	11.90	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	8/8/95	NLPH	8.92	10.54	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	11/7/95	NLPH	10.30	9.16	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	2/29/96	NLPH	6.44	13.02	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	5/10/96	NLPH	8.15	11.31	<50	<50	<2.5	<0.5	0.84	<0.5	<0.5	2.3	---	---	---	---	
	8/20/96	NLPH	9.27	10.19	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	10/17/96	---	---	---	---	---	---	---	---	---	---	---	1.63	---	---	---	---
	11/27/96	---	---	---	---	---	---	---	---	---	---	---	1.54	---	---	---	---
	12/6/96	NLPH	7.76	11.70	---	---	---	---	---	---	---	---	2.33	---	---	---	---
	1/17/97	---	---	---	---	---	---	---	---	---	---	---	0.91	---	---	---	---
	(22 58)	2/25/97	NLPH	7.98	14.60	<50	<50	<2.5	<0.5	0.89	<0.5	1.8	1.03	---	---	---	---
	3/13/97	---	---	---	---	---	---	---	---	---	---	---	1.06	---	---	---	---
	4/16/97	---	---	---	---	---	---	---	---	---	---	---	4.03	---	---	---	---
	5/21/97	NLPH	9.03	13.55	---	---	---	---	---	---	---	---	0.90	---	---	---	---
	6/5/97	---	---	---	---	---	---	---	---	---	---	---	1.46	---	---	---	---
	7/11/97	---	---	---	---	---	---	---	---	---	---	---	1.31	---	---	---	---
	8/6/97	NLPH	9.74	12.84	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	1.46	---	---	---	---	---
	9/23/97	---	---	---	---	---	---	---	---	---	---	---	1.50	---	---	---	---
	10/7/97	NLPH	10.06	12.52	---	---	---	---	---	---	---	---	1.65	---	---	---	---
	12/24/97	---	---	---	---	---	---	---	---	---	---	---	1.96	---	---	---	---
	1/16/98	NLPH	5.01	17.57	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	1.68	---	---	---	---	---
2/20/98	---	---	---	---	---	---	---	---	---	---	---	3.33	---	---	---	---	
3/26/98	---	---	---	---	---	---	---	---	---	---	---	1.65	---	---	---	---	
4/17/98	NLPH	7.21	15.37	---	---	---	---	---	---	---	---	3.10	---	---	---	---	
5/13/98	---	---	---	---	---	---	---	---	---	---	---	0.40	---	---	---	---	
6/22/98	---	---	---	---	---	---	---	---	---	---	---	1.20	---	---	---	---	
7/17/98	NLPH	8.46	14.12	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	1.84	---	---	---	---	---	
10/16/98	NLPH	9.84	12.74	---	---	---	---	---	---	---	---	---	---	---	---	---	
1/15/99	NLPH	11.33	11.25	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	
4/23/99	NLPH	7.63	14.95	---	---	---	---	---	---	---	---	---	---	---	---	---	
7/30/99	NLPH	9.17	13.41	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	
9/3/99	NLPH	---	---	---	---	---	---	---	---	---	---	2.94	---	---	---	---	
10/11/99	NLPH	9.98	12.60	---	---	---	---	---	---	---	---	---	---	---	---	---	
10/14/99	NLPH	---	---	---	---	---	---	---	---	---	---	1.36	---	---	---	---	
MW5 (16.95)	4/6/92	NR	10.66	6.29	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	7/8/92 *	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	10/13/92	NR	15.02	1.93	<50	69	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	3/9/93	NLPH	10.27	6.68	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	6/4/93	NLPH	11.35	5.60	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	9/2/93	NLPH	13.15	3.80	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	11/16/93	NLPH	14.35	2.60	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	2/4/94	NLPH	11.83	5.12	60	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	4/29/94	NLPH	11.15	5.80	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	9/20/94	NLPH	12.79	4.16	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	12/14/94	NLPH	9.95	7.00	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	

TABLE 1
 CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Former Exxon Service Station 7-0236
 6600 East 14th Street
 Oakland, California
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Well ID # (TOC)	Sampling Date	SUBJ	DTW feet	Elev.	TEPHd	TPPHg	MTBE	B	T	E	X	DO	Ferrous Iron	Alkalinity	Nitrate	Sulfate	
								ug/L						mg/L			
MW5 (cont.) (16.95)	3/27/95	NLPH	9.09	7.86	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	5/18/95	NLPH	10.29	6.66	<50	<50	---	<0.5	4.6	0.65	2.8	---	---	---	---	---	
	8/8/95	NLPH	11.13	5.82	51	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	11/7/95	NLPH	12.12	4.83	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	Additional Analyses for general minerals and properties < **																
	2/29/96	NLPH	9.24	7.71	60	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	5/10/96	NLPH	10.71	6.24	<50	<50	<2.5	<0.5	<0.5	<0.5	1.6	---	---	---	---	---	
	8/20/96	NLPH	11.45	5.50	---	---	---	---	---	---	---	---	---	---	---	---	
	10/17/96	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	11/27/96	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	12/6/96	NLPH	10.70	6.25	90	62	<2.5	1.2	6.5	1.7	11	---	---	---	---	---	
	1/17/97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	2/25/97	NLPH	10.49	6.46	90	<50	<2.5	1.4	2.4	0.95	7.4	---	---	---	---	---	
(19.98)	3/13/97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	4/16/97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	5/21/97	NLPH	11.31	8.67	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	6/5/97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	7/11/97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	8/6/97	NLPH	11.78	8.20	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	9/23/97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	10/7/97	NLPH	12.26	7.72	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	12/24/97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	1/16/98	NLPH	8.87	11.11	<50	<50	<2.5	<0.5	<0.5	<0.5	0.64	---	---	---	---	---	
	2/20/98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	3/26/98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	4/17/98	NLPH	9.97	10.01	<50	<50	<2.5	0.9	2.2	0.81	3.6	---	---	---	---	---	
	5/13/98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	6/22/98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	7/17/98	NLPH	11.00	8.98	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	10/16/98	NLPH	11.92	8.06	51	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	1/15/99	NLPH	9.01	10.97	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	4/23/99	NLPH	6.31	13.67	<50	<50	<2.0	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	7/30/99	NLPH	11.16	8.82	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
8/12/99	NLPH	11.48	8.50	---	---	---	---	---	---	---	---	0.110	510	<1.0	17.7		
	9/3/99	NLPH	---	---	---	---	---	---	---	---	---	2.11	---	---	---	---	
	10/11/99	NLPH	12.01	7.97	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0	---	4.00	457	5.39	27.2	
	10/14/99	NLPH	---	---	---	---	---	---	---	---	---	1.58	---	---	---	---	
MW6 (18.79)	4/6/92 (H)	NR	8.29	10.50	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	7/8/92 (H,T)	NR	9.22	9.57	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	10/13/92	NR	11.51	7.28	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	3/9/93	NLPH	8.26	10.53	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	6/4/93	NLPH	8.90	9.89	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	9/2/93	NLPH	9.92	8.87	60	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	11/16/93	NLPH	10.65	8.14	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	2/4/94	NLPH	9.26	9.53	80	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	4/29/94	NLPH	8.33	10.46	110	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	

TABLE 1
 CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Former Exxon Service Station 7-0236
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Well ID # (TOC)	Sampling Date	SUBJ <	DTW feet.....	Elev >	TEPHd <	TPPHg	MTBE	B ug/L	T	E	X	DO	Ferrous Iron	Alkalinity mg/L	Nitrate	Sulfate	
MW6 (cont) (18.79)	9/20/94	NLPH	9.23	9.56	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	12/14/94	sheen	7.87	10.92	---	---	---	---	---	---	---	---	---	---	---	---	
	3/27/95	NLPH	7.63	11.16	54	56	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	5/18/95	NLPH	8.00	10.79	71	56	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	8/8/95	NLPH	8.92	9.87	60	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	11/7/95	NLPH	9.77	9.02	<50	<50	4.7	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	2/29/96	NLPH	7.67	11.12	64	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	5/10/96	NLPH	8.33	10.46	110	<50	5.4	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	8/20/96	NLPH	9.16	9.63	---	---	---	---	---	---	---	---	---	---	---	---	---
	10/17/96	---	---	---	---	---	---	---	---	---	---	10.58	---	---	---	---	
	11/27/96	---	---	---	---	---	---	---	---	---	---	14.17	---	---	---	---	
	12/6/96	NLPH	8.55	10.24	68	<50	3.9	<0.5	<0.5	<0.5	<0.5	10.33	---	---	---	---	
	1/17/97	---	---	---	---	---	---	---	---	---	---	11.71	---	---	---	---	
	(21.84)	2/25/97	NLPH	8.42	13.42	67	<50	6.8	<0.5	<0.5	<0.5	<0.5	10.94	---	---	---	---
	3/13/97	---	---	---	---	---	---	---	---	---	---	8.88	---	---	---	---	
	4/16/97	---	---	---	---	---	---	---	---	---	---	15.20	---	---	---	---	
	5/21/97	NLPH	9.16	12.68	82	<50	3.4	<0.5	<0.5	<0.5	<0.5	12.38	---	---	---	---	
	6/5/97	---	---	---	---	---	---	---	---	---	---	10.99	---	---	---	---	
7/11/97	---	---	---	---	---	---	---	---	---	---	10.13	---	---	---	---		
8/6/97	NLPH	9.82	12.02	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	9.05	---	---	---	---		
9/23/97	---	---	---	---	---	---	---	---	---	---	6.22	---	---	---	---		
10/7/97	NLPH	9.85	11.99	89	<50	4.1	<0.5	<0.5	<0.5	<0.5	9.68	---	---	---	---		
12/24/97	---	---	---	---	---	---	---	---	---	---	2.78	---	---	---	---		
1/16/98	NLPH	5.50	16.34	93	<50	<2.5	<0.5	<0.5	<0.5	<0.5	2.73	---	---	---	---		
2/20/98	---	---	---	---	---	---	---	---	---	---	3.55	---	---	---	---		
3/26/98	---	---	---	---	---	---	---	---	---	---	3.90	---	---	---	---		
4/17/98	NLPH	8.12	13.72	59	<50	<2.5	<0.5	<0.5	<0.5	<0.5	5.08	---	---	---	---		
5/13/98	---	---	---	---	---	---	---	---	---	---	6.90	---	---	---	---		
6/22/98	---	---	---	---	---	---	---	---	---	---	8.96	---	---	---	---		
7/17/98	NLPH	8.81	13.03	63	<50	3.3	<0.5	<0.5	<0.5	<0.5	10.69	---	---	---	---		
10/16/98	NLPH	9.84	12.00	60	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---		
1/15/99	NLPH	9.55	12.29	<50	<50	3.7	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---		
4/23/99	NLPH	8.72	13.12	106	<50	14.4	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---		
7/30/99	NLPH	9.32	12.52	<50	<50	<2.50/2.50*	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---		
9/3/99	NLPH	---	---	---	---	---	---	---	---	---	6.20	---	---	---	---		
10/11/99	NLPH	9.54	12.30	<50	<50	3.4/5*	<1.0	<1.0	<1.0	<1.0	---	---	---	---	---		
10/14/99	NLPH	---	---	---	---	---	---	---	---	---	9.09	---	---	---	---		
MW7 (19.23)	4/6/92	NR	8.34	10.89	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	7/8/92 *	NR	10.30	8.93	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	10/13/92	NR	12.91	6.32	94	670	---	0.8	<0.5	<0.5	2.5	---	---	---	---	---	
	3/9/93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	6/4/93	NLPH	8.68	10.55	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	9/2/93	NLPH	10.80	8.43	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	11/16/93	NLPH	12.38	6.85	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	2/4/94	NLPH	9.28	9.95	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
4/29/94	NLPH	9.19	10.04	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---		

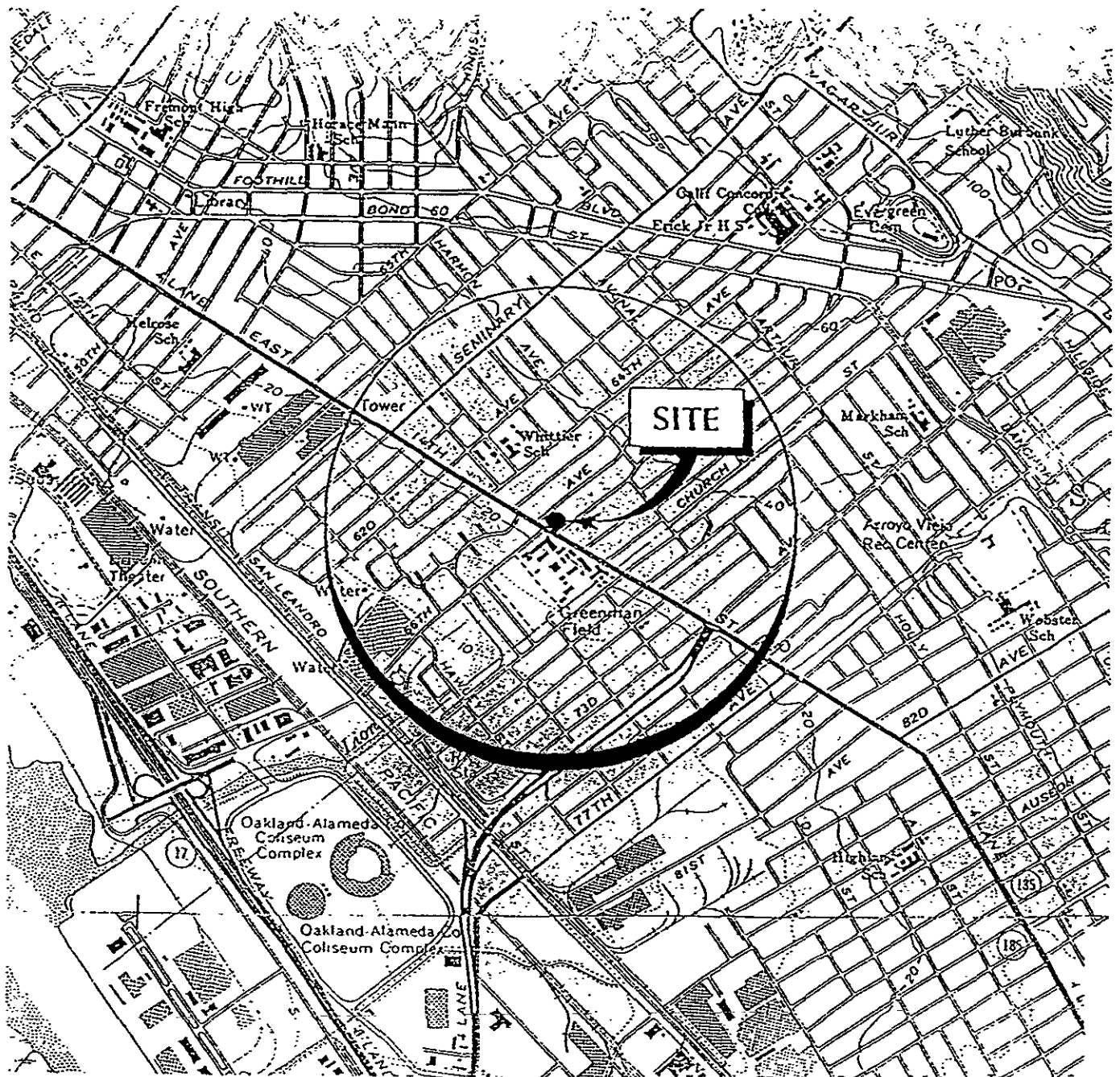
TABLE 1
 CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Former Exxon Service Station 7-0236
 6600 East 14th Street
 Oakland, California
 (Page 7 of 8)

Well ID # (TOC)	Sampling Date	SUBJ <...>	DTW feet	Elev. >...	TEPHd <...>	TPPHg <...>	MTBE <...>	B ug/L	T <...>	E <...>	X >...<	DO <...>	Ferrous Iron mg/L	Alkalinity mg/L	Nitrate mg/L	Sulfate mg/L	
MW7 (cont) (19 23)	9/20/94	NLPH	10.85	8.38	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	12/14/94	NLPH	8.44	10.79	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	3/27/95	NLPH	7.54	11.69	280	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	5/18/95	NLPH	8.11	11.12	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	8/8/95	NLPH	9.48	9.75	52	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	11/7/95	NLPH	10.83	8.40	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	2/29/96	NLPH	7.70	11.53	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	5/10/96	NLPH	8.76	10.47	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	2.1	---	---	---	---	
	8/20/96	NLPH	9.91	9.32	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	10/17/96	---	---	---	---	---	---	---	---	---	---	1.48	---	---	---	---	
	11/27/96	---	---	---	---	---	---	---	---	---	---	2.71	---	---	---	---	
	12/6/96	NLPH	8.90	10.33	---	---	---	---	---	---	---	8.90	---	---	---	---	
	1/19/97	abandoned	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	MW8 (22 60)	1/17/97	---	---	---	---	---	---	---	---	---	---	1.39	---	---	---	---
2/25/97		NLPH	7.93	14.67	<50	69	30	<0.5	<0.5	<0.5	<0.5	1.82	---	---	---	---	
3/13/97		---	---	---	---	---	---	---	---	---	---	1.58	---	---	---	---	
4/16/97		---	---	---	---	---	---	---	---	---	---	0.81	---	---	---	---	
5/21/97		NLPH	9.04	13.56	<50	<50	3.5	<0.5	<0.5	<0.5	<0.5	0.74	---	---	---	---	
6/5/97		---	---	---	---	---	---	---	---	---	---	0.55	---	---	---	---	
7/11/97		---	---	---	---	---	---	---	---	---	---	0.85	---	---	---	---	
8/6/97		NLPH	9.90	12.70	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	0.77	---	---	---	---	
9/23/97		---	---	---	---	---	---	---	---	---	---	0.75	---	---	---	---	
10/7/97		NLPH	10.23	12.37	<50	100	4.9	1.1	<0.5	<0.5	<0.5	0.82	---	---	---	---	
12/24/97		---	---	---	---	---	---	---	---	---	---	0.86	---	---	---	---	
1/16/98		NLPH	4.39	18.21	81	180	9.6	2.8	<0.5	<0.5	0.92	0.94	---	---	---	---	
2/20/98		---	---	---	---	---	---	---	---	---	---	0.61	---	---	---	---	
3/26/98		---	---	---	---	---	---	---	---	---	---	0.53	---	---	---	---	
4/17/98		NLPH	---	---	74	370	27	<0.5	0.94	<0.5	0.79	2.65	---	---	---	---	
5/13/98		---	---	---	---	---	---	---	---	---	---	0.25	---	---	---	---	
6/22/98		---	---	---	---	---	---	---	---	---	---	1.38	---	---	---	---	
7/17/98		NLPH	8.02	14.58	<50	<50	3.3	<0.5	<0.5	<0.5	<0.5	2.09	---	---	---	---	
10/16/98		NLPH	9.78	12.82	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
1/15/99		NLPH	8.40	14.20	<50	<50	<2.5	<0.5	0.97	<0.5	<0.5	---	---	---	---	---	
4/23/99	NLPH	7.35	15.25	70.1	111	3.45	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---		
7/30/99	NLPH	8.86	13.74	<50	89.4	<2.5	<0.5	2.7	<0.5	<0.5	---	---	---	---	---		
9/3/99	NLPH	---	---	---	---	---	---	---	---	---	2.45	---	---	---	---		
10/11/99	NLPH	10.04	12.56	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0	---	---	---	---	---		
10/14/99	NLPH	---	---	---	---	---	---	---	---	---	0.69	---	---	---	---		

TABLE 1
 CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Former Exxon Service Station 7-0236
 6600 East 14th Street
 Oakland, California
 (Page 8 of 8)

Notes:

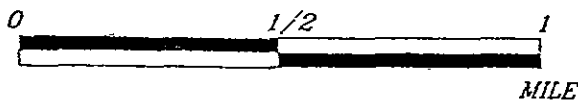
SUBJ	=	Results of subjective evaluation, liquid-phase hydrocarbon thickness (HT) in feet
NLPH	=	No liquid-phase hydrocarbons present in well
TOC	=	Elevation of top of well casing; relative to mean sea level.
DTW	=	Depth to water
Elev.	=	Elevation of groundwater. If liquid-phase hydrocarbons present, elevation adjusted using TOC - {DTW - (PT x 0.8)}.
TEPHd	=	Total extractable petroleum hydrocarbons as diesel analyzed using EPA method 8015 (modified)
TPPHg	=	Total purgeable petroleum hydrocarbons as gasoline analyzed using EPA method 5030/8015 (modified).
MTBE	=	Methyl tertiary butyl ether analyzed using EPA method 5030/8020
*	=	Methyl tertiary butyl ether analyzed using EPA method 8260.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA method 5030/8020
Nitrate	=	Nitrate as NO ₃ analyzed using EPA Method 300.
Sulfate	=	Sulfate as SO ₄ analyzed using EPA Method 300.
Ferrous Iron	=	Ferrous Iron analyzed using EPA Method 6000/7000
Alkalinity	=	Total alkalinity analyzed using APHA/EPA methods.
---	=	Not measured/not analyzed.
<	=	Less than the indicated detection limit shown by the laboratory.
DO	=	Dissolved Oxygen
**	=	Lighter hydrocarbons contribute to diesel range quantitation.
***	=	Results obtained past technical holding time (10/08/94) due to dilution requirements
C	=	High boiling point hydrocarbons are present in sample
D	=	Sample pattern does not match diesel standard pattern
H	=	EPA Method 8010 compounds not detected at or above their respective laboratory detection limits Exceptions MW2, 03/15/91, Methylene Chloride detected at 1 ppb MW3, 03/15/91, Methylene Chloride detected at 21 ppb
M*	=	A compound suspected to be methyl tertiary butyl ether was present.
T	=	Total Oil and Grease (TOG) using Standard Method 5520 not detected at or above the laboratory detection limit of 5,000 ppb
<*	=	Less than stated laboratory detection limits except 490 ppm bicarbonate, 37 ppm calcium, 31 ppm chloride, 390 ppm hardness, 790 ppb iron, 60 ppm magnesium, 4,700 ppb manganese, 11 ppm sodium, 61 ppm sulfate, 540 ppm TDS, 730 umhos/cm conductivity, pH=6.9.
<**	=	Less than the stated laboratory detection limits except 200 ppm bicarbonate, 23 ppm calcium, 21 ppm chloride, 78 ppb copper, 190 ppm hardness, 49,000 ppb iron, 44 ppm magnesium, 4,200 ppb manganese, 3.9 ppm potassium, 52 ppm sodium, 60 ppm sulfate, 390 ppm TDS
ug/L	=	micrograms per liter.
ppm	=	parts per million
mg/L	=	Milligrams per liter



20090001



APPROXIMATE SCALE



Source: U.S.G.S. 7.5 minute topographic quadrangle map Oakland East and San Leandro, Calif. 1980

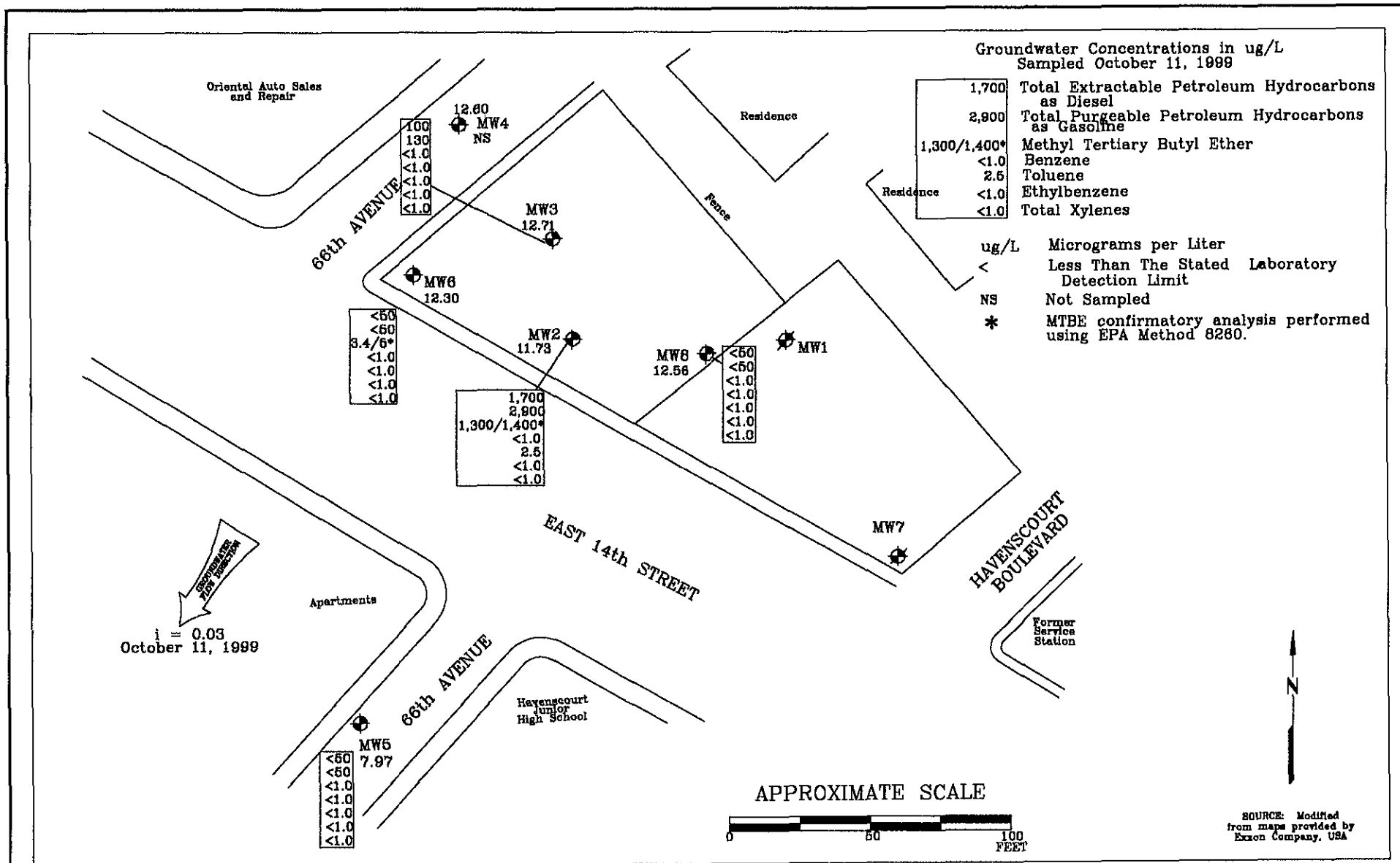


PROJECT ERI 2009

SITE VICINITY MAP
 FORMER EXXON SERVICE STATION 7-0236
 6600 East 14th Street
 Oakland, California

PLATE

1



FN 2009003A



GENERALIZED SITE PLAN

FORMER
EXXON SERVICE STATION 7-0236
6600 East 14th Street
Oakland, California

EXPLANATION

- ◆ Groundwater Monitoring Well
- 12.56 Groundwater elevation in feet above mean sea level
- MW7
- ⊛ Groundwater Monitoring Well (Destroyed)

PROJECT NO.

2009

PLATE

2

October 28, 1989

ATTACHMENT A
GROUNDWATER SAMPLING PROTOCOL

BLAINE TECH SERVICES, INC. METHODS AND PROCEDURES FOR THE ROUTINE MONITORING OF GROUNDWATER WELLS AT EXXON STATIONS

Blaine Tech Services, Inc. performs environmental sampling and documentation as an independent third party. We specialize in groundwater monitoring assignments and intentionally limit the scope of our services to those centered on the generation of objective information.

To avoid conflicts of interest, Blaine Tech Services, Inc. personnel do not evaluate or interpret the information we collect. As a state licensed contractor (C-57 well drilling –water – 746684) performing strictly technical services, we do not make any professional recommendations and perform no consulting of any kind.

SAMPLING PROCEDURES OVERVIEW

SAFETY

All groundwater monitoring assignments performed for Exxon comply with Exxon's safety guidelines, 29 CFR 1910.120 and SB-198 Injury and Illness Prevention Program (IIPP). All Field Technicians receive the full 40 hour 29CFR 1910.120 OSHA SARA HAZWOPER course, medical clearance and on-the-job training prior to commencing any work on any Exxon site.

INSPECTION AND GAUGING

Wells are inspected prior to evacuation and sampling. The condition of the wellhead is checked and noted according to a wellhead inspection checklist.

Standard measurements include the depth to water (DTW) and the total well depth (TD) obtained with industry standard electronic sounders which are graduated in increments of hundredths of a foot.

The water in each well is inspected for the presence of immiscibles or sheen and when free product is suspected, it is confirmed using an electronic interface probe (e.g. MMC). If sheen or product is found in a well, the Project Coordinator notifies the appropriate party (e.g. Exxon employee or consultant).

No samples are collected from a well containing sheen or product.

EVACUATION

Depth to water measurements are collected by our personnel prior to purging and minimum purge volumes are calculated anew for each well based on the height of the water column and the diameter of the well. Expected purge volumes are never less than three case volumes and

are set at no less than four case volumes in some jurisdictions.

Well purging devices are selected on the basis of the well diameter and the total volume to be evacuated. In most cases the well will be purged using an electric submersible pump (i.e. Grundfos) suspended near (but not touching) the bottom of the well. Small volumes of purgewater are often removed by hand bailing with a disposable bailer.

PARAMETER STABILIZATION

Well purging completion standards include minimum purge volumes, but additionally require stabilization of specific groundwater parameters prior to sample collection. Typical groundwater parameters used to measure stability are electrical conductivity, pH, and temperature. Instrument readings are obtained at regular intervals during the evacuation process (no less than once per case volume).

Stabilization standards for routine quarterly monitoring of fuel sites include the following: Temperature is considered to have stabilized when successive readings do not fluctuate more than +/- 1 degree Celsius. Electrical conductivity is considered stable when successive readings are within 10%. pH is considered to be stable when successive readings remain constant or vary no more than 0.2 of a pH unit.

DEWATERED WELLS

Normal evacuation removes no less than three case volumes of water from the well. However, less water may be removed in cases where the well dewateres and does not recharge.

Wells known to dewater are evacuated as early as possible during each site visit in order to allow for the greatest amount of recovering. Any well that does not recharge to 80% of its original volume will be sampled prior to the departure of our personnel from the site in order to eliminate the need of a return visit.

In jurisdictions where a certain percentage of recovery is included in the local completion standard, our personnel follow the regulatory expectation.

PURGEWATER CONTAINMENT

All non-hazardous purgewater evacuated from each groundwater monitoring well is captured and contained in on-board storage tanks on the Sampling Vehicle and/or special water hauling trailers. Effluent from the decontamination of reusable apparatus (sounders, electric pumps and hoses etc.), consisting of groundwater combined with deionized water and non-phosphate soap, is also captured and pumped into effluent tanks.

Non hazardous purgewater is transported under standard Bill of Lading documentation to a Blaine Tech Services, Inc. facility before being transported to an Exxon approved disposal facility (e.g. Romac Environmental Technologies Corporation in East Palo Alto, California).

SAMPLE COLLECTION DEVICES

All samples are collected using a disposable bailer.

SAMPLE CONTAINERS

Sample material is decanted directly from the sampling bailer into sample containers provided by the laboratory which will analyze the samples. The transfer of sample material from the bailer to the sample container conforms to specifications contained in the USEPA T.E.G.D. The type of sample container, material of construction, method of closure and filling requirements are specific to the intended analysis. Chemicals needed to preserve the sample material are commonly placed inside the sample containers by the laboratory or glassware vendor prior to delivery of the bottle to our personnel. The laboratory sets the number of replicate containers.

TRIP BLANKS

A Trip Blank is carried to each site and is kept inside the cooler for the duration of the sampling event. It is turned over to the laboratory for analysis with the samples from that site.

SAMPLE STORAGE

All sample containers are promptly placed in food grade ice chests for storage in the field and transport (direct or via our facility) to the analytical laboratory that will perform the intended analytical procedures. These ice chests contain quantities of restaurant grade ice as a refrigerant material. The samples are maintained in either an ice chest or a refrigerator until relinquished into the custody of the laboratory or laboratory courier.

DOCUMENTATION CONVENTIONS

Each and every sample container has a label affixed to it. In most cases these labels are generated by our office personnel and are partially preprinted. Labels can also be hand written by our field personnel. The site is identified with the station number and site address, as is the particular groundwater well from which the sample is drawn (e.g. MW-1, MW-2, S-1 etc.). The time at which the sample was collected and the initials of the person collecting the sample are handwritten onto the label.

Chain of Custody records are created using client specific preprinted forms following USEPA specifications.

Bill of Lading records are contemporaneous records created in the field at the site where the non-hazardous purgewater is generated. Field Technicians use preprinted Bill of Lading forms.

DECONTAMINATION

All equipment is brought to the site in clean and serviceable condition and is cleaned after use in each well and before subsequent use in any other well. Equipment is decontaminated before

leaving the site.

The primary decontamination device is a commercial steam cleaner. The steam cleaner is de-tuned to function as a hot pressure washer which is then operated with high quality deionized water which is produced at our facility and stored onboard our sampling vehicle. Cleaning is facilitated by the use of proprietary fixtures and devices included in the patented workstation (U.S. Patent 5,535,775) that is incorporated in each sampling vehicle. The steam cleaner is used to decon reels, pumps and bailers.

Any sensitive equipment or parts (i.e. Dissolved Oxygen sensor membrane, sounder etc.) that cannot be washed using the hot high pressure water, will be sprayed with a non-phosphate soap and deionized water solution and rinsed with deionized water.

EXAMPLE: The sounder is cleaned between wells using the non-phosphate soap and deionized water solution followed by deionized water rinses. The sounder is then washed with the steam cleaner between sites or as necessitated by use in a particularly contaminated well.

DISSOLVED OXYGEN READINGS

All Dissolved Oxygen readings are taken using YSI meters (e.g. YSI Model 58 or equivalent YSI meter). These meters are equipped with a YSI stirring device that enables them to collect accurate in-situ readings. The probe/stirring devices are modified to allow downhole measurements to be taken from wells as small as two-inch diameter.

The probe and reel is decontaminated between wells as described above. The meter is calibrated between wells as per the instructions in the operating manual. The probe and stirrer is lowered into the water column allowed to stabilize before use.

OXYIDATON REDUCTION POTENTIAL READINGS

All readings are obtained with either Corning or Myron-L meters (e.g. Corning ORP-65 or a Myron-L Ultrameter GP). The meter is cleaned between wells as described above. The meter is calibrated at the start of each day according to the instruction manual. In use the probe is placed in a cup of freshly obtained monitoring well water and allowed to stabilize.

ATTACHMENT B

**LABORATORY ANALYSIS REPORTS
AND CHAIN OF CUSTODY RECORDS**



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Case Narrative for:
EXXON Company U.S.A.

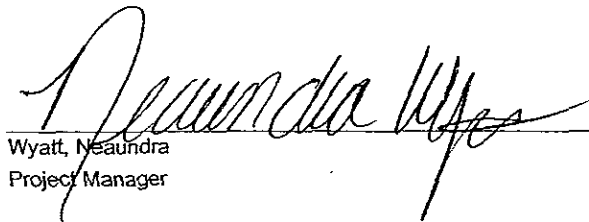
Certificate of Analysis Number:
99100225

Report To: Environmental Resolution, Inc. Jim Chappell 73 Digital Drive Suite 100 Novato California 94949- ph: (415) 382-5996 fax: (415) 382-1856	Project Name: 200903X Site: 7-0236,19432502 Site Address: 6600 E. 14th St. Oakland CA PO Number: EWR#19911922 State: California State Cert. No.: 1903 Date Reported:
--	--

Any data flags or quality control exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.


Wyatt, Neaundra
Project Manager

11/6/99
Date



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TEXAS 77054
 (713) 660-0901

EXXON Company U.S.A.

Certificate of Analysis Number:
99100225

Report To: Environmental Resolution, Inc. Jim Chappell 73 Digital Drive Suite 100 Novato California 94949- ph: (415) 382-5996 fax: (415) 382-1856	Project Name: 200903X Site: 7-0236,19432502 Site Address: 6600 E. 14th St. Oakland CA PO Number: EWR#19911922 State: California State Cert. No.: 1903 Date Reported:
--	--

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
W-16-SB3	99100225-01	Water	10/13/99 12:00:00 PM	10/15/99 10:00:00 AM		<input checked="" type="checkbox"/>
V-16-SB3	99100225-01	Water	10/13/99 12:00:00 PM	10/15/99 10:00:00 AM		<input type="checkbox"/>
W-13-SB2	99100225-02	Water	10/13/99 1:15:00 PM	10/15/99 10:00:00 AM		<input checked="" type="checkbox"/>
W-13-SB2	99100225-02	Water	10/13/99 1:15:00 PM	10/15/99 10:00:00 AM		<input type="checkbox"/>
V-11-SB1	99100225-03	Water	10/13/99 4:15:00 PM	10/15/99 10:00:00 AM		<input checked="" type="checkbox"/>
V-11-SB1	99100225-03	Water	10/13/99 4:15:00 PM	10/15/99 10:00:00 AM		<input type="checkbox"/>
W-21-MW2	99100225-04	Water	10/13/99 5:20:00 PM	10/15/99 10:00:00 AM		<input type="checkbox"/>
V-21-MW2	99100225-04	Water	10/13/99 5:20:00 PM	10/15/99 10:00:00 AM		<input checked="" type="checkbox"/>
V-18-MW2	99100225-05	Water	10/13/99 5:10:00 PM	10/15/99 10:00:00 AM		<input type="checkbox"/>

Neandra Wyatt

11/6/99

Wyatt, Neandra
 Project Manager

Date

Joel Grice
 Laboratory Director

 Ted Yen
 Quality Assurance Officer



Client Sample ID W-16-SB3

Collected: 10/13/99 12:00:0 SPL Sample ID: 99100225-01

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS			CA_GRO		Units: ug/L		
Gasoline Range Organics	ND	50	1		10/21/99 1:38	D_R	77937
Surr: 1,4-Difluorobenzene	97	62-144	1		10/21/99 1:38	D_R	77937
Surr: 4-Bromofluorobenzene	110	44-153	1		10/21/99 1:38	D_R	77937
PURGEABLE AROMATICS			SW8021B		Units: ug/L		
Benzene	ND	1	1		10/21/99 1:38	D_R	77565
Ethylbenzene	ND	1	1		10/21/99 1:38	D_R	77565
Toluene	ND	1	1		10/21/99 1:38	D_R	77565
m,p-Xylene	ND	1	1		10/21/99 1:38	D_R	77565
o-Xylene	ND	1	1		10/21/99 1:38	D_R	77565
Xylenes, Total	ND	1	1		10/21/99 1:38	D_R	77565
Surr: 1,4-Difluorobenzene	93	72-137	1		10/21/99 1:38	D_R	77565
Surr: 4-Bromofluorobenzene	97	48-156	1		10/21/99 1:38	D_R	77565
VOLATILE ORGANICS METHOD 8260B			SW8260B		Units: ug/L		
Methyl tert-butyl ether	ND	5	1		10/20/99 9:44	JC	77119
Surr: 1,2-Dichloroethane-d4	100	80-120	1		10/20/99 9:44	JC	77119
Surr: 4-Bromofluorobenzene	90	86-115	1		10/20/99 9:44	JC	77119
Surr: Toluene-d8	98	88-110	1		10/20/99 9:44	JC	77119

Wyatt, Neaundra
 Project Manager

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
 B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
 * - Surrogate Recovery Outside Advisable QC Limits
 J - Estimated Value between MDL and PQL



Client Sample ID W-13-SB2

Collected: 10/13/99 1:15:00 SPL Sample ID: 99100225-02

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS			CA_GRO		Units: ug/L		
Gasoline Range Organics	ND	50	1		10/21/99 2:06	D_R	77949
Surr: 1,4-Difluorobenzene	92	62-144	1		10/21/99 2:06	D_R	77949
Surr: 4-Bromofluorobenzene	110	44-153	1		10/21/99 2:06	D_R	77949
PURGEABLE AROMATICS			SW8021B		Units: ug/L		
Benzene	ND	1	1		10/21/99 2:06	D_R	77578
Ethylbenzene	ND	1	1		10/21/99 2:06	D_R	77578
Toluene	ND	1	1		10/21/99 2:06	D_R	77578
m,p-Xylene	ND	1	1		10/21/99 2:06	D_R	77578
o-Xylene	ND	1	1		10/21/99 2:06	D_R	77578
Xylenes, Total	ND	1	1		10/21/99 2:06	D_R	77578
Surr: 1,4-Difluorobenzene	98	72-137	1		10/21/99 2:06	D_R	77578
Surr: 4-Bromofluorobenzene	100	48-156	1		10/21/99 2:06	D_R	77578
VOLATILE ORGANICS METHOD 8260B			SW8260B		Units: ug/L		
Methyl tert-butyl ether	ND	5	1		10/20/99 13:47	JC	77126
Surr: 1,2-Dichloroethane-d4	96	80-120	1		10/20/99 13:47	JC	77126
Surr: 4-Bromofluorobenzene	92	86-115	1		10/20/99 13:47	JC	77126
Surr: Toluene-d8	100	88-110	1		10/20/99 13:47	JC	77126

Wyatt, Neaundra
 Project Manager

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
 B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
 * - Surrogate Recovery Outside Advisable QC Limits
 J - Estimated Value between MDL and PQL



Client Sample ID W-11-SB1

Collected: 10/13/99 4:15:00 SPL Sample ID: 99100225-03

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS			CA_GRO		Units: ug/L		
Gasoline Range Organics	18000	1200	25		10/22/99 2:33	D_R	78885
Surr: 1,4-Difluorobenzene	150	62-144	25	*	10/22/99 2:33	D_R	78885
Surr: 4-Bromofluorobenzene	120	44-153	25		10/22/99 2:33	D_R	78885
PURGEABLE AROMATICS			SW8021B		Units: ug/L		
Benzene	46	25	25		10/22/99 2:33	D_R	78825
Ethylbenzene	1200	25	25		10/22/99 2:33	D_R	78825
Toluene	ND	25	25		10/22/99 2:33	D_R	78825
m,p-Xylene	32	25	25		10/22/99 2:33	D_R	78825
o-Xylene	ND	25	25		10/22/99 2:33	D_R	78825
Xylenes, Total	32	25	25		10/22/99 2:33	D_R	78825
Surr: 1,4-Difluorobenzene	97	72-137	25		10/22/99 2:33	D_R	78825
Surr: 4-Bromofluorobenzene	97	48-156	25		10/22/99 2:33	D_R	78825
VOLATILE ORGANICS METHOD 8260B			SW8260B		Units: ug/L		
Methyl tert-butyl ether	1900	120	25		10/20/99 16:03	JC	77130
Surr: 1,2-Dichloroethane-d4	88	80-120	25		10/20/99 16:03	JC	77130
Surr: 4-Bromofluorobenzene	96	86-115	25		10/20/99 16:03	JC	77130
Surr: Toluene-d8	96	88-110	25		10/20/99 16:03	JC	77130

Wyatt, Neandra
 Project Manager

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
 B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
 * - Surrogate Recovery Outside Advisable QC Limits
 J - Estimated Value between MDL and PQL



Client Sample ID W-21-MW2

Collected: 10/13/99 5:20:00 SPL Sample ID: 99100225-04

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS - CA			CA_DRO		Units: ug/L		
Diesel Range Organics	590	50	1		10/21/99 21:31	RR	79348
Surr: n-Pentacosane	100	20-150	1		10/21/99 21:31	RR	79348

Run ID/Seq #: HP_V_991021C-79348

Prep Method	Prep Date	Prep Initials
SW3510B	10/20/1999 10:44	KL

GASOLINE RANGE ORGANICS			CA_GRO		Units: ug/L		
Gasoline Range Organics	1800	250	5		10/21/99 3:01	D_R	77951
Surr: 1,4-Difluorobenzene	93	62-144	5		10/21/99 3:01	D_R	77951
Surr: 4-Bromofluorobenzene	130	44-153	5		10/21/99 3:01	D_R	77951

PURGEABLE AROMATICS			SW8021B		Units: ug/L		
Benzene	8.6	5	5		10/21/99 3:01	D_R	77582
Ethylbenzene	ND	5	5		10/21/99 3:01	D_R	77582
Toluene	ND	5	5		10/21/99 3:01	D_R	77582
m,p-Xylene	ND	5	5		10/21/99 3:01	D_R	77582
o-Xylene	ND	5	5		10/21/99 3:01	D_R	77582
Xylenes, Total	ND	5	5		10/21/99 3:01	D_R	77582
Surr: 1,4-Difluorobenzene	95	72-137	5		10/21/99 3:01	D_R	77582
Surr: 4-Bromofluorobenzene	100	48-156	5		10/21/99 3:01	D_R	77582

VOLATILE ORGANICS METHOD 8260B			SW8260B		Units: ug/L		
Methyl tert-butyl ether	1300	50	10		10/20/99 15:37	JC	77129
Surr: 1,2-Dichloroethane-d4	100	80-120	10		10/20/99 15:37	JC	77129
Surr: 4-Bromofluorobenzene	94	86-115	10		10/20/99 15:37	JC	77129
Surr: Toluene-d8	98	88-110	10		10/20/99 15:37	JC	77129

Wyatt, Neandra
Project Manager

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
 B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
 * - Surrogate Recovery Outside Advisable QC Limits
 J - Estimated Value between MDL and PQL



Client Sample ID W-BB-MW2

Collected: 10/13/99 5:10:00 SPL Sample ID: 99100225-05

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS- CA			CA_DRO		Units: ug/L		
Diesel Range Organics	ND	50	1		10/21/99 23:27	RR	79351
Surr: n-Pentacosane	29	20-150	1		10/21/99 23:27	RR	79351

Run ID/Seq #: HP_V_991021C-79351

Prep Method	Prep Date	Prep Initials
SW3510B	10/20/1999 10:44	KL

GASOLINE RANGE ORGANICS			CA_GRO		Units: ug/L		
Gasoline Range Organics	ND	50	1		10/21/99 3:28	D_R	77966
Surr: 1,4-Difluorobenzene	94	62-144	1		10/21/99 3:28	D_R	77966
Surr: 4-Bromofluorobenzene	120	44-153	1		10/21/99 3:28	D_R	77966

PURGEABLE AROMATICS			SW8021B		Units: ug/L		
Benzene	ND	1	1		10/21/99 3:28	D_R	77592
Ethylbenzene	ND	1	1		10/21/99 3:28	D_R	77592
Toluene	ND	1	1		10/21/99 3:28	D_R	77592
m,p-Xylene	ND	1	1		10/21/99 3:28	D_R	77592
o-Xylene	ND	1	1		10/21/99 3:28	D_R	77592
Xylenes, Total	ND	1	1		10/21/99 3:28	D_R	77592
Surr: 1,4-Difluorobenzene	96	72-137	1		10/21/99 3:28	D_R	77592
Surr: 4-Bromofluorobenzene	100	48-156	1		10/21/99 3:28	D_R	77592

Wyatt, Neaundra
 Project Manager

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
 B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
 * - Surrogate Recovery Outside Advisable QC Limits
 J - Estimated Value between MDL and PQL

Quality Control Documentation



Quality Control Report
 EXXON Company U.S.A.
 200903X

Analysis: Diesel Range Organics-CA
 Method: CA_DRO

WorkOrder: 99100225
 Lab Batch ID: 1237

Method Blank

Samples in Analytical Batch:

RunID:	HP_V_991021C-79345	Units:	mg/L	<u>Lab Sample ID</u>	<u>Client Sample ID</u>
Analysis Date:	10/21/1999 20:15	Analyst:	RR	99100225-04C	W-21-MW2
Preparation Date:	10/20/1999 10:44	Prep By:	KL Method SW3510B	99100225-05B	W-BB-MW2

Analyte	Result	Rep Limit
Diesel Range Organics	ND	0.050
Surr. n-Pentacosane	87.2	20-150

Laboratory Control Sample (LCS)

RunID: HP_V_991021C-79346 Units: mg/L
 Analysis Date: 10/21/1999 20:53 Analyst: RR
 Preparation Date: 10/20/1999 10:44 Prep By: KL Method SW3510B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Diesel Range Organics	2.5	2.4	96	21	175

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 99100225-04
 RunID: HP_V_991021C-79349 Units: mg/L
 Analysis Date: 10/21/1999 22:10 Analyst: RR
 Preparation Date: 10/20/1999 10:44 Prep By: KL Method SW3510B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Diesel Range Organics	0.59	5	2.2	32.8	5	2.2	33.0	0.608	20	21	175

Qualifiers: ND/U - Not Detected at the Reporting Limit * - Recovery Outside Advisable QC Limits
 B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
 J - Estimated value between MDL and PQL



Quality Control Report
 EXXON Company U.S.A.
 200903X

Analysis: Purgeable Aromatics
 Method: SW8021B

WorkOrder: 99100225
 Lab Batch ID: R3667

Method Blank

Samples in Analytical Batch:

RunID: VARE_991020C-77488 Units: ug/L
 Analysis Date: 10/20/1999 20:36 Analyst: D_R

Lab Sample ID	Client Sample ID
99100225-01A	W-16-SB3
99100225-02A	W-13-SB2
99100225-04A	W-21-MW2
99100225-05A	W-BB-MW2

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Toluene	ND	1.0
m,p-Xylene	ND	1.0
o-Xylene	ND	1.0
Xylenes, Total	ND	1.0
Surr: 1,4-Difluorobenzene	93.7	72-137
Surr: 4-Bromofluorobenzene	102.0	48-156

Laboratory Control Sample (LCS)

RunID: VARE_991020C-77487 Units: ug/L
 Analysis Date: 10/20/1999 19:41 Analyst: D_R

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	50	55	110	61	119
Ethylbenzene	50	52	103	70	118
Toluene	50	56	113	65	125
m,p-Xylene	100	100	103	72	116
o-Xylene	50	46	92	72	117
Xylenes, Total	150	146	97	72	116

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 99100224-03
 RunID: VARE_991020C-77489 Units: ug/L
 Analysis Date: 10/20/1999 21:03 Analyst: D_R

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
benzene	ND	20	20	99.8	20	22	112	11.9	21	32	164
Ethylbenzene	ND	20	16	80.0	20	19	96.1	18.4	19	52	142
uene	ND	20	19	95.5	20	22	109	13.4	20	38	159

Qualifiers: ND/U - Not Detected at the Reporting Limit * - Recovery Outside Advisable QC Limits
 B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
 J - Estimated value between MDL and PQL



Quality Control Report
 EXXON Company U.S.A.
 200903X

Analysis: Purgeable Aromatics
 Method: SW8021B

WorkOrder: 99100225
 Lab Batch ID: R3667

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 99100224-03
 RunID: VARE_991020C-77489 Units: ug/L
 Analysis Date: 10/20/1999 21:03 Analyst: D_R

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
m-Xylene	ND	40	34	85.3	40	41	102	17.5*	17	53	144
o-Xylene	ND	20	16	79.6	20	20	99.4	22.1*	18	53	143
Xylenes, Total	ND	60	50	83.3	60	61	102	19.8*	17	53	143

Qualifiers: ND/U - Not Detected at the Reporting Limit * - Recovery Outside Advisable QC Limits
 B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
 J - Estimated value between MDL and PQL



Quality Control Report
 EXXON Company U.S.A.
 200903X

Analysis: Gasoline Range Organics
 Method: CA_GRO

WorkOrder: 99100225
 Lab Batch ID: R3687

Method Blank

Samples in Analytical Batch:

RunID: VARE_991020D-77908 Units: mg/L
 Analysis Date: 10/20/1999 20:36 Analyst: D_R

Lab Sample ID	Client Sample ID
99100225-01A	W-16-SB3
99100225-02A	W-13-SB2
99100225-04A	W-21-MW2
99100225-05A	W-BB-MW2

Analyte	Result	Rep Limit
Gasoline Range Organics	ND	0.050
Surr: 1,4-Difluorobenzene	95.2	62-144
Surr: 4-Bromofluorobenzene	114.6	44-153

Laboratory Control Sample (LCS)

RunID: VARE_991020D-77906 Units: mg/L
 Analysis Date: 10/20/1999 20:08 Analyst: D_R

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	0.95	95	64	131

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 99100224-04
 RunID: VARE_991020D-77913 Units: mg/L
 Analysis Date: 10/20/1999 21:58 Analyst: D_R

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Gasoline Range Organics	ND	0.9	0.67	74.2	0.9	0.47	52.5	34.1	36	36	160

Qualifiers: ND/U - Not Detected at the Reporting Limit * - Recovery Outside Advisable QC Limits
 B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
 J - Estimated value between MDL and PQL



Quality Control Report
 EXXON Company U.S.A.
 200903X

Analysis: Purgeable Aromatics
 Method: SW8021B

WorkOrder: 99100225
 Lab Batch ID: R3721

Method Blank

Samples in Analytical Batch:

RunID: VARE_991021D-78809 Units: ug/L
 Analysis Date: 10/21/1999 12:10 Analyst: D_R

Lab Sample ID: 99100225-03A
 Client Sample ID: W-11-SB1

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Toluene	ND	1.0
m,p-Xylene	ND	1.0
Xylenes, Total	ND	1.0
Surr: 1,4-Difluorobenzene	90.2	72-137
Surr: 4-Bromofluorobenzene	103.9	48-156

Laboratory Control Sample (LCS)

RunID: VARE_991021D-78808 Units: ug/L
 Analysis Date: 10/21/1999 11:15 Analyst: D_R

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	50	57	114	61	119
Ethylbenzene	50	52	104	70	118
Toluene	50	58	117	65	125
m,p-Xylene	100	100	103	72	116
o-Xylene	50	46	93	72	117
Xylenes, Total	150	146	97	72	116

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 9910247-01A
 RunID: VARE_991021D-78866 Units: ug/L
 Analysis Date: 10/21/1999 13:38 Analyst: D_R

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	22	110	20	22	110	0.248	21	32	164
Ethylbenzene	ND	20	19	92.5	20	18	87.6	5.52	19	52	142
Toluene	ND	20	20	101	20	20	102	1.42	20	38	159

Qualifiers: ND/U - Not Detected at the Reporting Limit * - Recovery Outside Advisable QC Limits
 B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
 J - Estimated value between MDL and PQL



Quality Control Report
 EXXON Company U.S.A.
 200903X

Analysis: Purgeable Aromatics
 Method: SW8021B

WorkOrder: 99100225
 Lab Batch ID: R3721

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 9910247-01A
 RunID: VARE_991021D-78866 Units: ug/L
 Analysis Date: 10/21/1999 13:38 Analyst: D_R

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
m-Xylene	ND	40	39	98.2	40	38	95.9	2.39	17	53	144
o-Xylene	ND	20	20	97.7	20	19	95.5	2.31	18	53	143
Xylenes, Total	ND	60	59	98.3	60	57	95.0	3.45	17	53	143

Qualifiers: ND/U - Not Detected at the Reporting Limit * - Recovery Outside Advisable QC Limits
 B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
 J - Estimated value between MDL and PQL



Quality Control Report
 EXXON Company U.S.A.
 200903X

Analysis: Gasoline Range Organics
 Method: CA_GRO

WorkOrder: 99100225
 Lab Batch ID: R3725

Method Blank

Samples in Analytical Batch:

RunID: VARE_991021E-78904 Units: mg/L
 Analysis Date: 10/21/1999 12:10 Analyst: D_R

Lab Sample ID: 99100225-03A
 Client Sample ID: W-11-SB1

Analyte	Result	Rep Limit
Gasoline Range Organics	ND	0.050
Surr: 1,4-Difluorobenzene	95.9	62-144
Surr: 4-Bromofluorobenzene	131.4	44-153

Laboratory Control Sample (LCS)

RunID: VARE_991021E-78869 Units: mg/L
 Analysis Date: 10/21/1999 11:43 Analyst: D_R

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	0.93	93	64	131

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 99100247-02
 RunID: VARE_991021E-78878 Units: mg/L
 Analysis Date: 10/21/1999 21:58 Analyst: D_R

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Gasoline Range Organics	0.58	0.9	1.2	65.5	0.9	0.99	45.0	37.1*	36	36	160

Qualifiers: ND/U - Not Detected at the Reporting Limit
 B - Analyte detected in the associated Method Blank
 J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits
 D - Surrogate Recovery Unreportable due to Dilution



Quality Control Report

EXXON Company U.S.A.

200903X

Analysis: Volatile Organics
Method: SW8260B

WorkOrder: 99100225
Lab Batch ID: R3649

Method Blank

Samples in Analytical Batch:

RunID: N_991020A-77118 Units: ug/L
Analysis Date: 10/20/1999 9:15 Analyst: JC

Lab Sample ID Client Sample ID
99100225-01B W-16-SB3
99100225-02B W-13-SB2
99100225-03B W-11-SB1
99100225-04B W-21-MW2

Analyte	Result	Rep Limit
Methyl tert-butyl ether	ND	5.0
Surr: 1,2-Dichloroethane-d4	100.0	80-120
Surr: 4-Bromofluorobenzene	92.0	86-115
Surr: Toluene-d8	98.0	88-110

Laboratory Control Sample (LCS)

RunID: N_991020A-77117 Units: ug/L
Analysis Date: 10/20/1999 8:49 Analyst: JC

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
1,1-Dichloroethene	50	55	110	61	145
Benzene	50	57	114	76	127
Chlorobenzene	50	54	108	75	130
Toluene	50	55	110	76	125
Trichloroethene	50	57	114	71	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 99100225-01
RunID: N_991020A-77120 Units: ug/L
Analysis Date: 10/20/1999 10:10 Analyst: JC

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
1,1-Dichloroethene	ND	50	53	106	50	54	108	2	14	61	145
Benzene	ND	50	56	112	50	55	110	2	11	76	127
Chlorobenzene	ND	50	53	106	50	53	106	0	13	75	130
Toluene	ND	50	54	108	50	54	108	0	13	76	125
Trichloroethene	ND	50	54	108	50	54	108	0	14	71	120

Qualifiers: ND/U - Not Detected at the Reporting Limit * - Recovery Outside Advisable QC Limits
B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL

*Chain of Custody
And
Sample Receipt Checklist*

Exxon Engineer: Darin L. Rouse Phone: (925) 246-8768
 Consultant Co. Name: ERI Contact: Jim Chappell
 Address: 73 Digital Drive Phone: (415) 382-4323
Suite 100, Fax: -1856
Novato Ca 94949

RAS #: 7-0236 Facility/State ID # (TN Only): _____
 AFE # (Terminal Only): _____ Consultant Project #: 200903X
 Location: 6600 E 14th Street (City): Oakland (State): Ca
 EE C & M SDT

Consultant Work Release #: 1943 2502
 Sampled By: Dylan Crouse

ANALYSIS REQUEST: (CHECK APPROPRIATE BOX)															OTHER																						
NO OF CONTAINERS	CONTAINER SIZE	BTEX 8020	WITH MTBE	602	601	PURGEABLE HALOCARBON 8010	TPH/IR 4181	O&G IR 413.1	GRAV 413.2	TPH/GC 8015 GRO	8015 DRO	VOL-8240	624	SEMI-VOL 8270	625	PNA/PAH 8100	8310	8270	PCB/PEST 8080	PCB ONLY	TCLP FULL	VCA	SEMI-VCA	PEST	HERB	METALS, TOTAL	METALS, TCLP	LEAD, TOTAL 239.1	7421	LEAD, TCLP	TOX/TOH	REACTIVITY	CORROSIVITY	IGNITABILITY	STATE		
		X								X																											
		X								X																											
		X								X																											
		X								X																											
		X								X																											

SAMPLE I.D.	DATE	TIME	COMP.	GRAB	MATRIX			OTHER	PRESERVATIVE																														
					H ₂ O	SOIL	AIR																																
W-16-SB3	10/13	12:00		X	X				HCL	4	40 ml	X																											
W-13-SB2		13:15		X	X				HCL	6		X																											
W-11-SB1		16:15		X	X				HCL	6		X																											
W-21-MW2		17:20			X				HCL	8	And 1/2 oz	X																											
W-BB-MW2	Vge	17:10			X				NA	2	40 ml 1/2 oz	X																											

TAT
 24 HR. ___ 72 Hr. ___
 48 HR. ___ 96 Hr. ___
 Standard *Contact US Prior to Sending Sample
 Other _____

EXXON UST
 CONTRACT NO. S02317M01

SPECIAL DETECTION LIMITS (Specify)

SPECIAL REPORTING REQUIREMENTS (Specify)

REMARKS:

LAB USE ONLY
 Lot # 550
 Storage Location NW

WORK ORDER #: 94100225 LAB WORK RELEASE #:

CUSTODY RECORD

Relinquished By Sampler: <u>D. CROUSE</u>	Date <u>10/14/99</u>	Time	Received By:
Relinquished By:	Date	Time	Received By:
Relinquished By:	Date	Time	Received By Laboratory: <u>[Signature]</u>

Cooler Temp: 4C



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Sample Receipt Checklist

Workorder: 99100225
Date and Time Received: 10/15/99 10:00:00 AM
Temperature: 4

Received by: Estrada, Ruben
Carrier name: FedEx

-
- | | | | |
|---|---|-----------------------------|---|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Water - VOA vials have zero headspace? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
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