

ENVIRONMENTAL RESOLUTIONS, INC.

September 17, 1997
ERI 200913.R11

Ms. Marla D. Guensler
Exxon Company, U.S.A.
2300 Clayton Road, Suite 640
Concord, California 94520

Subject: Quarterly Groundwater Monitoring, Third Quarter 1997, Former Exxon Service Station 7-0236, 6600 East 14th Street, Oakland, California.

Ms. Guensler:

At the request of Exxon Company, U.S.A. (Exxon), Environmental Resolutions, Inc. (ERI) performed the third quarter 1997 groundwater monitoring event at the subject site (Plate 1). The purpose of quarterly monitoring is to evaluate fluctuations in dissolved hydrocarbon concentrations in groundwater and groundwater flow direction and gradient.

GROUNDWATER MONITORING AND SAMPLING

On August 6, 1997, ERI measured depth to water (DTW) in monitoring wells MW2 through MW6 and MW8 and collected groundwater samples from these wells for laboratory analysis. No measurable liquid phase hydrocarbons were observed in the monitoring wells. ERI's groundwater sampling protocol is attached (Attachment A). ERI also measured dissolved oxygen concentrations in the wells on July 11 and August 6, 1997.

Based on DTW measurements the groundwater appears to flow southwest with a hydraulic gradient ranging from 0.02 to 0.033 (Plate 2). Historical and recent monitoring data are summarized in Table 1.

LABORATORY ANALYSES AND RESULTS

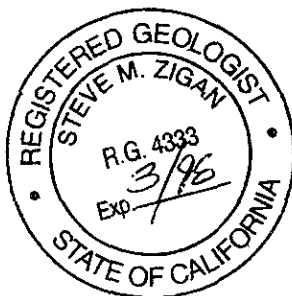
Groundwater samples were submitted to Sequoia Analytical Laboratories (California State Certification Number 1210) in Redwood City, California, under chain of custody protocol. The samples were analyzed for benzene, toluene, ethylbenzene, total xylenes (BTEX), methyl tert-butyl ether (MTBE), total petroleum hydrocarbons as gasoline (TPHg), and total extractable petroleum hydrocarbons as diesel (TEPHd) 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 analysis of groundwater samples are summarized in Table 1. The results of analyses 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 geological practice in California at the time this investigation was performed. This report has been prepared for Exxon and any reliance on this report by third parties shall be at such party's sole risk.

If you have any questions or comments regarding this report, please call (415) 382-5994.

Sincerely,
Environmental Resolutions, Inc.



A handwritten signature in cursive script, appearing to read "Glenn L. Matteucci".

Glenn L. Matteucci
Senior Staff Geologist

A handwritten signature in cursive script, appearing to read "Steve M. Zigan".

Steve M. Zigan
R.G. 4333
H.G. 133

- Enclosures: 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 Reports and Chain of Custody Record

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

Well ID # (TOC)	Sampling Date	SUBJ <	DTW feet	Elev. >	TEPHd <	TPHg	B	T	E	X	MTBE >	DO <ppm>
parts per billion												
MW1 (20.20)	3/15/91	NR	7.44	12.76	---	<50	<0.3	0.5	0.3	1.3	---	---
	01/15/92 (H,T)	NR	10.60	9.60	<300	<50	<0.5	0.7	<0.5	0.9	---	---
	03/23/92 (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	---	---	---	---	---	---	---	---
	07/08/92 (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	<0.5	<0.5	<0.5	<0.5	<2.5	---
	11/7/95	NLPH	10.74	9.46	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---
	2/29/96	NLPH	6.80	13.40	53	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---
	5/10/96	NLPH	8.13	12.07	150	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---
	8/20/96	NLPH	9.58	10.62	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---
	10/17/96	---	---	---	---	---	---	---	---	---	---	9.50
	11/27/96	---	---	---	---	---	---	---	---	---	---	11.54
	12/6/96	NLPH	8.10	12.10	---	---	---	---	---	---	---	10.05
	1/19/97	Destroyed										
MW2 (19.15)	03/15/91 (H,T)	NR	9.05	10.10	120	1,700	190	2.6	12	64	---	---
	01/15/92 (H,T)	NR	11.60	7.55	1,000	6,800	81	<10	320	170	---	---
	03/23/92 (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	---	---	---	---	---	---	---	---
	09/02/93	sheen	10.46	8.69	3,700	11,000	210	18	260	59	2,500	---
	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	---	---

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 <	TPHg	B	T	E	X	MTBE >	DO <ppm>	
							parts per billion						
MW2 (cont.) (19.15)	9/20/94	NLPH	10.57	8.58	1,800**	19,000	190	29***	110	27***	---	---	
	12/14/94	sheen	8.90	10.25	---	---	---	---	---	---	---	---	
	09/20/94	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	110	<20	120	<20	36,000	---	
	11/7/95	NLPH	10.49	8.66	1,800	6,400	120	11	95	38	24,000	---	
	Additional Analyses for general minerals and properties < *												
	2/29/96	NLPH	8.45	10.70	2,500	<5,000	120	<50	120	<50	25,000	---	
	5/10/96	NLPH	9.02	10.13	2,300	11,000	210	120	210	140	26,000	---	
	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	170	<25	38	<25	<125	5.21	
	(22.19)	1/17/97	NLPH	---	---	---	---	---	---	---	---	---	3.67
		2/25/97	NLPH	8.15	14.04	1,500	5,900	110	14	310	52	4,400	2.71
3/13/97		---	---	---	---	---	---	---	---	---	---	2.46	
4/16/97		---	---	---	---	---	---	---	---	---	---	1.00	
5/21/97		NLPH	10.50	11.69	1,600	5,700	71	11	240	59	1,800	0.85	
6/5/97		---	---	---	---	---	---	---	---	---	---	2.18	
7/11/97		---	---	---	---	---	---	---	---	---	---	1.87	
8/6/97		NLPH	10.80	11.39	1,600	4,100	40	5.2	49	17	(1,900)	1.51	
MW3 (19.59)		03/15/91 (H,T)	NR	7.84	11.75	160	3,100	2.2	1.9	100	84	---	---
		01/15/92 (H,T)	NR	10.30	9.29	<300	250	0.7	6.8	1.5	1.5	---	---
	03/23/92 (H,T)	NR	6.84	12.75	440	640	<0.5	12	25	6.5	---	---	
	4/6/92	NR	7.84	11.75	---	---	---	---	---	---	---	---	
	07/08/92 (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	---	---	

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Well ID # (FOC)	Sampling Date	SUBJ <	DTW feet	Elev. >	TEPHd <	TPHg	parts per billion				MTBE >	DO <ppm>	
							B	T	E	X			
MW3 (cont.) (19.59)	3/27/95	NLPH	7.23	12.36	1,100	1,500	5	3.1	6.3	3.6	---	---	
	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	<0.5	2.4	0.63	12	---	
	11/7/95	NLPH	9.96	9.63	540	1,500	<2.5	2.9	<2.5	<2.5	26	---	
	2/29/96	NLPH	8.47	11.12	680	1,000	<5.0	<5.0	<5.0	<5.0	<25	---	
	5/10/96	NLPH	7.93	11.66	560	480	<1.0	<1.0	<1.0	<1.0	6.8	---	
	8/20/96	NLPH	10.13	9.46	---	---	---	---	---	---	---	---	
	10/17/96	---	---	---	---	---	---	---	---	---	---	7.65	
	11/27/96	---	---	---	---	---	---	---	---	---	---	8.76	
	(22.62)	12/6/96	NLPH	9.21	10.38	450	970	<1.0	<1.0	<1.0	1.8	19	10.14
		1/17/97	---	---	---	---	---	---	---	---	---	---	14.02
		2/25/97	NLPH	8.34	14.28	410	990	10	0.85	0.86	1.5	47	10.69
		3/13/97	---	---	---	---	---	---	---	---	---	---	8.68
		4/16/97	---	---	---	---	---	---	---	---	---	---	18.73
		5/21/97	NLPH	9.99	12.63	270	<50	<0.5	<0.5	<0.5	<0.5	<2.5	6.76
6/5/97		---	---	---	---	---	---	---	---	---	---	6.70	
7/11/97		---	---	---	---	---	---	---	---	---	---	4.10	
8/6/97	NLPH	10.29	12.33	310	650	4.0	<1.0	<1.0	<1.0	<5.0	10.59		
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	---	---	
	04/29/94(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	---	---	
	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	<0.5	<0.5	<0.5	<0.5	<2.5	---	
	11/7/95	NLPH	10.30	9.16	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	
	2/29/96	NLPH	6.44	13.02	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	
	5/10/96	NLPH	8.15	11.31	<50	<50	<0.5	0.84	<0.5	2.3	<2.5	---	
8/20/96	NLPH	9.27	10.19	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---		

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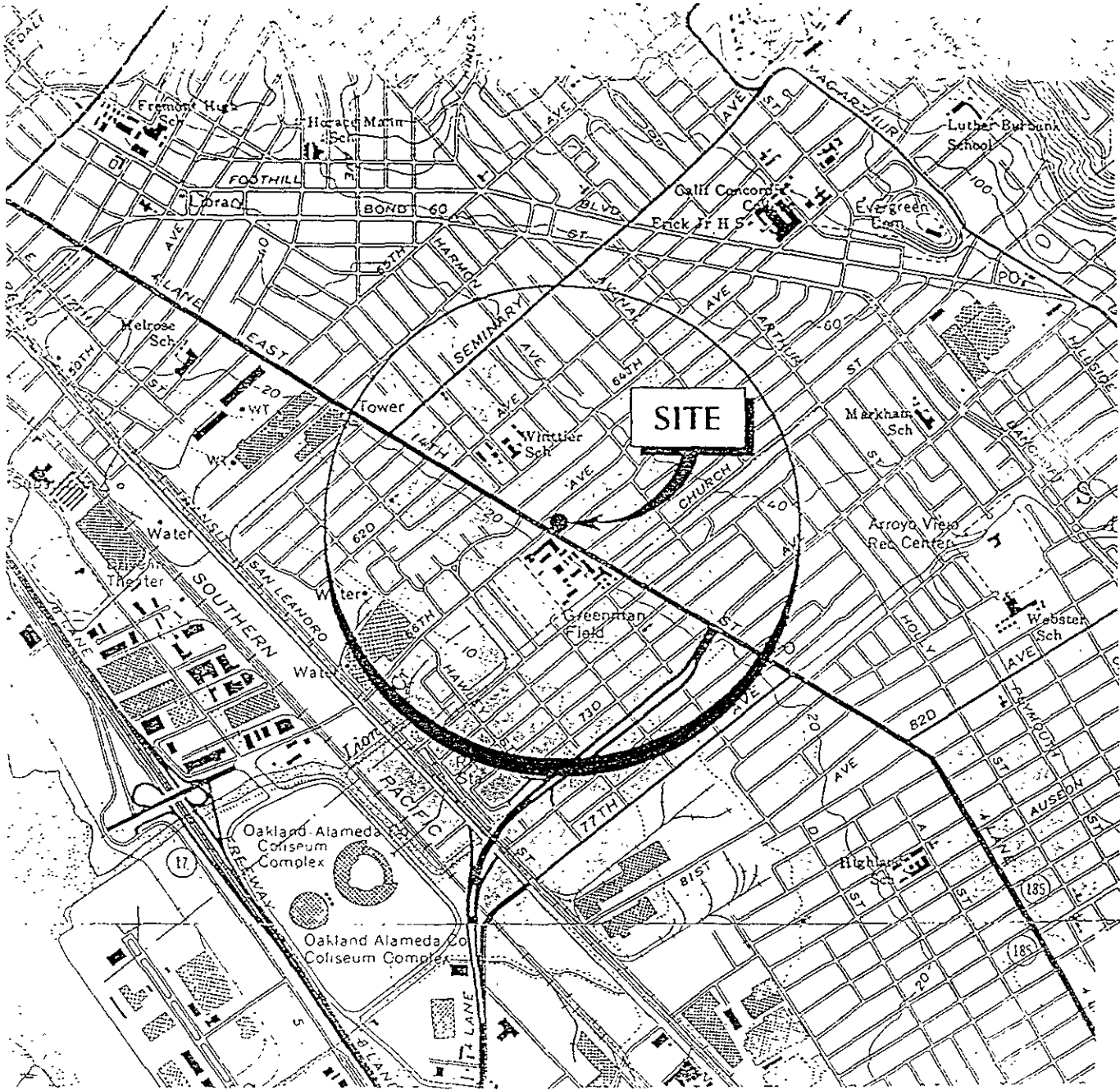
Well ID # (TOC)	Sampling Date	SUBJ <	DTW feet	Elev. >	TEPHd <	TPHg	B	T	E	X	MTBE >	DO < ppm >
							parts per billion					
	4/16/97	---	---	---	---	---	---	---	---	---	---	---
MW5 (cont.) (19.98)	5/21/97	NLPH	11.31	8.67	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---
	6/5/97	---	---	---	---	---	---	---	---	---	---	---
	7/11/97	---	---	---	---	---	---	---	---	---	---	---
	8/6/97	NLPH	11.78	8.20	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---
MW6 (18.79)	04/06/92(H)	NR	8.29	10.50	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---
	07/08/92(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	---	---
	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	<0.50	---	---
	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	<0.5	<0.5	<0.5	<0.5	<2.5	---
	11/7/95	NLPH	9.77	9.02	<50	<50	<0.5	<0.5	<0.5	<0.5	4.7	---
	2/29/96	NLPH	7.67	11.12	64	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---
	5/10/96	NLPH	8.33	10.46	110	<50	<0.5	<0.5	<0.5	<0.5	5.4	---
	8/20/96	NLPH	9.16	9.63	---	---	---	---	---	---	---	---
	10/17/96	---	---	---	---	---	---	---	---	---	---	10.58
	11/27/96	---	---	---	---	---	---	---	---	---	---	14.17
(21.84)	12/6/96	NLPH	8.55	10.24	68	<50	<0.5	<0.5	<0.5	<0.5	3.9	10.33
	1/17/97	---	---	---	---	---	---	---	---	---	---	11.71
	2/25/97	NLPH	8.42	13.42	67	<50	<0.5	<0.5	<0.5	<0.5	6.8	10.94
	3/13/97	---	---	---	---	---	---	---	---	---	---	8.88
	4/16/97	---	---	---	---	---	---	---	---	---	---	15.20
	5/21/97	NLPH	9.16	12.68	82	<50	<0.5	<0.5	<0.5	<0.5	3.4	12.38
	6/5/97	---	---	---	---	---	---	---	---	---	---	10.99
	7/11/97	---	---	---	---	---	---	---	---	---	---	10.13
	8/6/97	NLPH	9.82	12.02	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	9.05
	MW7 (19.23)	4/6/92	NR	8.34	10.89	<50	<50	<0.5	<0.5	<0.5	<0.5	---

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6600 East 14th Street
Oakland, California
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Well ID # (TOC)	Sampling Date	SUBJ <	DTW feet	Elev. >	TEPHd <	TPHg	parts per billion				MTBE >	DO <ppm>
							B	T	E	X		
	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	---	---
MW7 (cont.) (19.23)	03/09/93*	---	---	---	---	---	---	---	---	---	---	---
	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	---	---
	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	<0.5	<0.5	<0.5	<0.5	<2.5	---
	11/17/95	NLPH	10.83	8.40	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---
	2/29/96	NLPH	7.70	11.53	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---
	5/10/96	NLPH	8.76	10.47	<50	<50	<0.5	<0.5	<0.5	2.1	<2.5	---
	8/20/96	NLPH	9.91	9.32	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---
	10/17/96	---	---	---	---	---	---	---	---	---	---	1.48
	11/27/96	---	---	---	---	---	---	---	---	---	---	2.71
	12/6/96	NLPH	8.90	10.33	---	---	---	---	---	---	---	8.90
	1/19/97	Destroyed										
MW8 (22.60)	1/17/97	---	---	---	---	---	---	---	---	---	---	1.39
	2/25/97	NLPH	7.93	14.67	<50	69	<0.5	<0.5	<0.5	<0.5	30	1.82
	3/13/97	---	---	---	---	---	---	---	---	---	---	1.58
	4/16/97	---	---	---	---	---	---	---	---	---	---	0.81
	5/21/97	NLPH	9.04	13.56	<50	<50	<0.5	<0.5	<0.5	<0.5	3.5	0.74
	6/5/97	---	---	---	---	---	---	---	---	---	---	0.55
	7/11/97	---	---	---	---	---	---	---	---	---	---	0.85
	8/6/97	NLPH	9.90	12.70	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	0.77

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

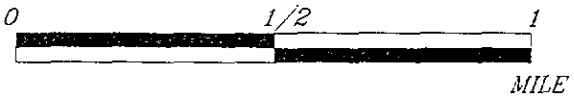
Notes:		
NLPH	=	Liquid-phase hydrocarbons not present in well
TOC	=	Elevation of top of well casing; relative to mean sea level (MSL) in feet
SUBJ	=	Results of subjective evaluation
sheen	=	Liquid-phase hydrocarbons present as a sheen
NR	=	Not recorded
DTW	=	Depth to water
Elev.	=	Elevation of groundwater; relative to mean sea level
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using EPA method 5030/8015 (modified)
TEPHd	=	Total extractable petroleum hydrocarbons as diesel analyzed using EPA method 5030/8015 (modified)
BTEX	=	Benzene, toluene, ethylbenzene, total xylene isomers analyzed using EPA method 5030/8020
MTBE	=	Methyl tert-butyl ether analyzed using EPA method 5030/8020
()	=	MTBE analyzed using EPA method 8260
DO	=	Dissolved oxygen
<	=	Less than the laboratory detection limit
---	=	Not sampled/Not measured
**	=	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: MW-2, 03/15/91, Methylene chloride detected at 1 ppb MW-3, 03/15/91, Methylene chloride detected at 21 ppb
M*	=	A compound suspected to be Methyl tert-butyl ether was present
T	=	Total Oil and Grease (TOG) using EPA 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, 1.1 ppm sodium, 61 ppm sulfate, 540 ppm TDS, 730 umhos/cm conductivity, pH = 6.9
<***	=	Less than 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
ppm	=	Parts per million



20090001



APPROXIMATE SCALE



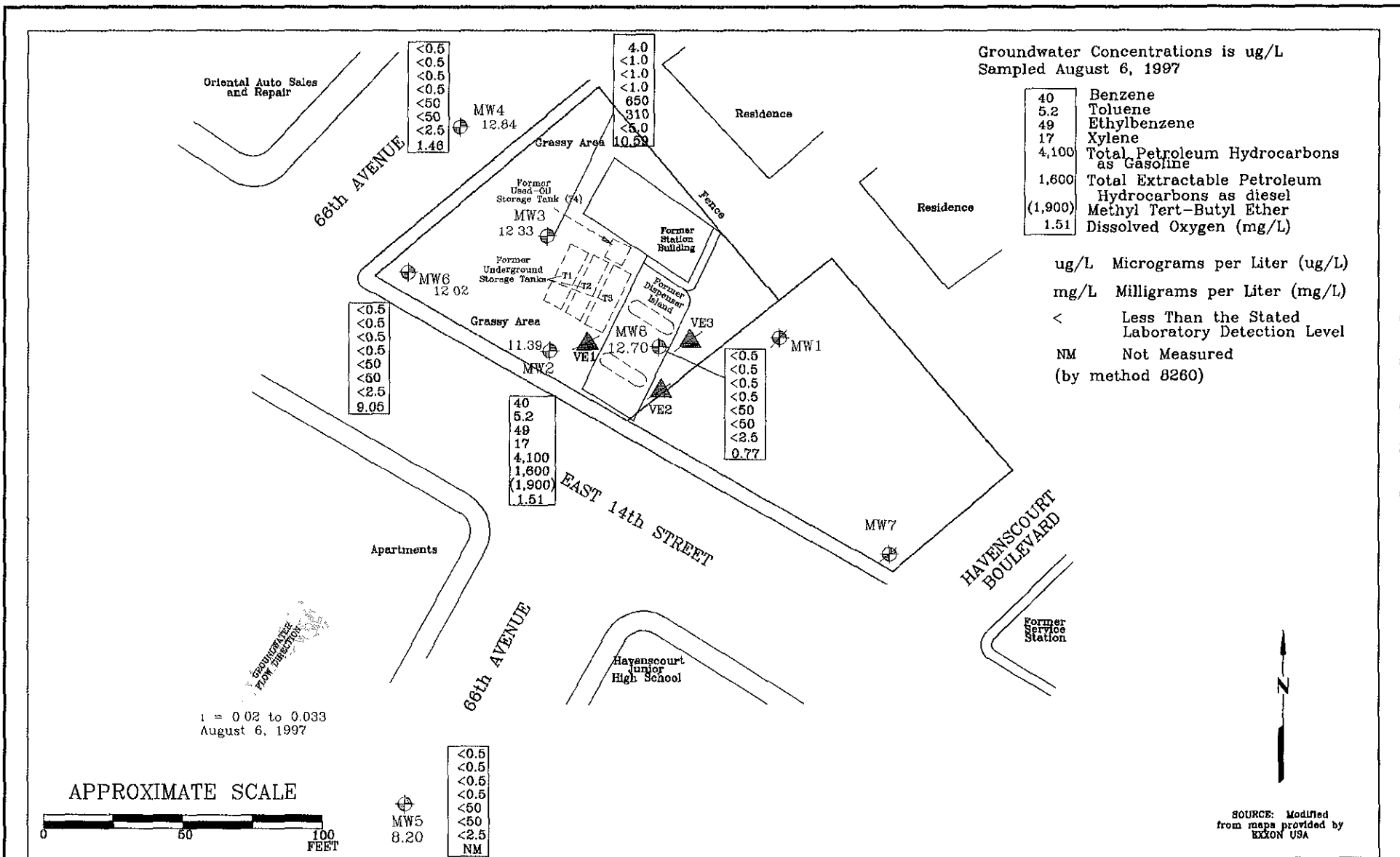
Source: U.S.G.S 7.5 minute topographic quadrangle map Oakland East and San Leandro, Calif 1980



PROJECT ERI 2009

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

PLATE
 1



FN 20090002



GENERALIZED SITE PLAN

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

EXPLANATION	
⊕	Groundwater Monitoring Well
MW8 12 70	Groundwater elevation in feet above mean sea level
⊗	Groundwater Monitoring Well (Destroyed)
▲	Vapor Extraction Well (Destroyed)
i =	Interpreted Groundwater Gradient

PROJECT NO.	2009
PLATE	2
	Aug. 25, 1997

ATTACHMENT A
GROUNDWATER SAMPLING PROTOCOL

GROUNDWATER SAMPLING PROTOCOL

The static water level and separate phase product level, if present, in each well that contained water and/or separate phase product are measured with a MMC Interface Probe, which is accurate to the nearest 0.01 foot. To calculate groundwater elevations and evaluate groundwater gradient, depth to water (DTW) levels are subtracted from wellhead elevations.

Groundwater samples collected for subjective evaluation are collected by gently lowering approximately half the length of a clean Teflon® bailer past the air-water interface (if possible) and collecting a sample from near the surface of the water in the well. The samples are checked for measurable free-phase hydrocarbons or sheen. Any free-phase hydrocarbons are removed from the well.

Before water samples are collected from the groundwater monitoring wells, the wells are purged until stabilization of the temperature, pH, and conductivity is obtained, or until a minimum of three well casing volumes are purged. Water samples from the wells that do not obtain stability of the temperature, pH, and conductivity are considered to be "grab samples". The quantity of water purged from each well is calculated as follows:

1 well casing volume = $r^2h(7.48)$ where:

r	=	radius of the well casing in feet.
h	=	column of water in the well in feet (depth to bottom - depth to water)
7.48	=	conversion constant from cubic feet to gallons

Gallons of water purged/gallons in one well casing volume = well casing volumes removed.

After purging, each well is allowed to recharge to at least 80% of the initial water level. Water samples from wells that do not recover at least 80% (due to slow recharging of the well) between purging and sampling are considered to be "grab samples". Water samples are collected with a new, disposable Teflon® bailer. The groundwater is carefully poured into 40-milliliter (ml) glass vials, which are filled so as to produce a positive meniscus. Each vial is preserved with hydrochloric acid, sealed with a cap containing a Teflon® septum, and subsequently examined for air bubbles to avoid headspace which would allow volatilization to occur. The samples are promptly transported in iced storage in a thermally-insulated ice chest, accompanied by a Chain of Custody Record, to a California-certified laboratory.

ATTACHMENT B

**LABORATORY REPORTS
AND CHAIN OF CUSTODY RECORD**



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Environmental Resolutions 74 Digital Drive, Suite 6 Novato, CA 94949	Client Proj. ID: Exxon 7-0236, 200913X Sample Descript: W-11-MWS Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9708357-01	Sampled: 08/06/97 Received: 08/07/97 Extracted: 08/11/97 Analyzed: 08/13/97 Reported: 08/19/97
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QC Batch Number: GC0811970HBPEXZ
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	73

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett

 Kevin Follett
 Project Manager



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Environmental Resolutions 74 Digital Drive, Suite 6 Novato, CA 94949	Client Proj. ID: Exxon 7-0236, 200913X Sample Descript: W-11-MW5 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9708357-01	Sampled: 08/06/97 Received: 08/07/97 Analyzed: 08/13/97 Reported: 08/19/97
Attention: Marc Briggs		

QC Batch Number: GC081397BTEX02A
Instrument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		N.D.
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	110

Analytes reported as N.D. were not present above the stated limit of detection.

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MT Clark
Kevin Follett
Project Manager



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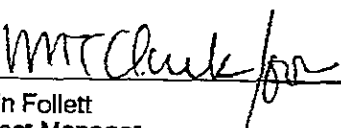
Environmental Resolutions 74 Digital Drive, Suite 6 Novato, CA 94949	Client Proj. ID: Exxon 7-0236, 200913X Sample Descript: W-9-MW6 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9708357-02	Sampled: 08/06/97 Received: 08/07/97 Extracted: 08/11/97 Analyzed: 08/13/97 Reported: 08/19/97
Attention: Marc Briggs		
QC Batch Number: GC0811970HBPEXZ		
Instrument ID: GCHP4B		

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50	N.D.
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 79

Analytes reported as N.D. were not present above the stated limit of detection.

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Environmental Resolutions 74 Digital Drive, Suite 6 Novato, CA 94949	Client Proj. ID: Exxon 7-0236, 200913X Sample Descript: W-9-MW6 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9708357-02	Sampled: 08/06/97 Received: 08/07/97 Analyzed: 08/13/97 Reported: 08/19/97
Attention: Marc Briggs		

QC Batch Number: GC081397BTEX02A
Instrument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas		
Methyl t-Butyl Ether	50	N.D.
Benzene	2.5	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		N.D.
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	111

Analytes reported as N.D. were not present above the stated limit of detection.

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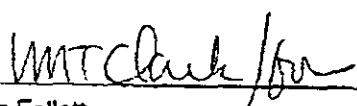
Environmental Resolutions 74 Digital Drive, Suite 6 Novato, CA 94949	Client Proj. ID: Exxon 7-0236, 200913X Sample Descript: W-9-MW4 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9708357-03	Sampled: 08/06/97 Received: 08/07/97 Extracted: 08/11/97 Analyzed: 08/13/97 Reported: 08/19/97
Attention: Marc Briggs		
QC Batch Number: GC0811970HBPEXZ		
Instrument ID: GCHP4B		

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	78

Analytes reported as N.D. were not present above the stated limit of detection.

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Environmental Resolutions 74 Digital Drive, Suite 6 Novato, CA 94949	Client Proj. ID: Exxon 7-0236, 200913X Sample Descript: W-9-MW4 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9708357-03	Sampled: 08/06/97 Received: 08/07/97 Analyzed: 08/13/97 Reported: 08/19/97
Attention: Marc Briggs		
QC Batch Number: GC081397BTEX02A		
Instrument ID: GCHP02		

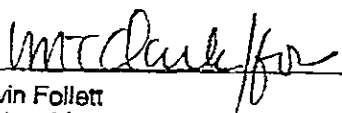
Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		N.D.

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	114

Analytes reported as N.D. were not present above the stated limit of detection.

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Environmental Resolutions 74 Digital Drive, Suite 6 Novato, CA 94949	Client Proj. ID: Exxon 7-0236, 200913X Sample Descript: W-10-MW8 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9708357-04	Sampled: 08/06/97 Received: 08/07/97 Extracted: 08/11/97 Analyzed: 08/13/97 Reported: 08/19/97
Attention: Marc Briggs		
QC Batch Number: GC0811970HBPEXZ Instrument ID: GCHP4B		

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50	N.D.
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 85

Analytes reported as N.D. were not present above the stated limit of detection.

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Environmental Resolutions 74 Digital Drive, Suite 6 Novato, CA 94949	Client Proj. ID: Exxon 7-0236, 200913X Sample Descript: W-10-MW8 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9708357-04	Sampled: 08/06/97 Received: 08/07/97 Analyzed: 08/13/97 Reported: 08/19/97
--	--	---

QC Batch Number: GC081397BTEX02A
Instrument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		N.D.
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	116

Analytes reported as N.D. were not present above the stated limit of detection.

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Environmental Resolutions
74 Digital Drive, Suite 6
Novato, CA 94949

Client Proj. ID: Exxon 7-0236, 200913X
Sample Descript: W-13-MW3
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9708357-05

Sampled: 08/06/97
Received: 08/07/97
Extracted: 08/11/97
Analyzed: 08/13/97
Reported: 08/19/97

Attention: Marc Briggs

QC Batch Number: GC0811970HBPEXZ
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern: Unidentified HC	50	310 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 84

Analytes reported as N.D. were not present above the stated limit of detection.

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Environmental Resolutions 74 Digital Drive, Suite 6 Novato, CA 94949	Client Proj. ID: Exxon 7-0236, 200913X Sample Descript: W-13-MW3 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9708357-05	Sampled: 08/08/97 Received: 08/07/97 Analyzed: 08/18/97 Reported: 08/19/97
--	--	---

QC Batch Number: GC081897BTEX03A
Instrument ID: GCHP03

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	100	650
Methyl t-Butyl Ether	5.0	N.D.
Benzene	1.0	4.0
Toluene	1.0	N.D.
Ethyl Benzene	1.0	N.D.
Xylenes (Total)	1.0	N.D.
Chromatogram Pattern:		Gas

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	117

Analytes reported as N.D. were not present above the stated limit of detection.

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Environmental Resolutions 74 Digital Drive, Suite 6 Novato, CA 94949	Client Proj. ID: Exxon 7-0236, 200913X Sample Descript: W-11-MW2 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9708357-06	Sampled: 08/06/97 Received: 08/07/97 Extracted: 08/11/97 Analyzed: 08/13/97 Reported: 08/19/97
--	--	--

Attention: Marc Briggs

QC Batch Number: GC0811970HBPEXZ
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern: Unidentified HC	50	1600 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	91

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

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Environmental Resolutions 74 Digital Drive, Suite 6 Novato, CA 94949	Client Proj. ID: Exxon 7-0236, 200913X Sample Descript: W-11-MW2 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9708357-06	Sampled: 08/06/97 Received: 08/07/97 Analyzed: 08/13/97 Reported: 08/19/97
Attention: Marc Briggs		
QC Batch Number: GC081397BTEX02A		
Instrument ID: GCHP02		

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas		
Methyl t-Butyl Ether	500	4100
Benzene	25	1800
Toluene	5.0	40
Ethyl Benzene	5.0	5.2
Xylenes (Total)	5.0	49
Chromatogram Pattern:	5.0	17
		Gas
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	133 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Kevin Follett
Project Manager



Sequoia Analytical

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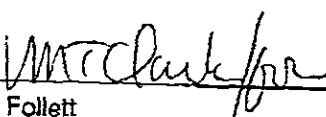
Environmental Resolutions 74 Digital Drive, Suite 6 Novato, CA 94949	Client Proj. ID: Exxon 7-0236, 200913X Sample Descript: W-11-MW2 Matrix: LIQUID Analysis Method: EPA 8260 Lab Number: 9708357-06	Sampled: 08/06/97 Received: 08/07/97 Analyzed: 08/09/97 Reported: 08/19/97
Attention: Marc Briggs		
QC Batch Number: MS0804978260F3A		
Instrument ID: F3		

Methyl t-Butyl Ether (MTBE)

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	100	1900
Surrogates	Control Limits %	% Recovery
1,2-Dichloroethane-d4	76	114
		104

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


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 Project Manager



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EXXON COMPANY, U.S.A.

P.O. Box 2180, Houston, TX 77002-7426

CHAIN OF CUSTODY

Consultant's Name: Environmental Resolutions Inc

Address: 74 Digital Dr Suite 6 Novato Ca 94949

Project #: 7-0236 Consultant Project #: 200913X Site Location: 6630 East 14th St.

Project Contact: Marc Briggs Phone #: 415 382 9105 Consultant Work Release #: 19432502

EXXON Contact: Marla Guenster Phone #: 510 246 8776 Laboratory Work Release #:

Sampled by (print): Scott Graham Sampler's Signature: [Signature] EXXON RAS #: 7-0236

Shipment Method: Oakland, Ca Air Bill #:

TAT: 24 hr 48 hr 72 hr 96 hr Standard (10 day)

ANALYSIS REQUIRED 9708357

Sample Description	Collection Date	Collection Time	Matrix Soil/Water/Air	Prsv	# of Cont.	Sequoia's Sample #	TPH/Gas BTEX/8015/8020	TPH/Diesel EPA 8015	TRPH S.M. 5520	MTBE 8020	MTBE 8260	Temperature: <u>27</u> °C	Inbound Seal: Yes No	Outbound Seal: Yes No
W-11-MW5	8/6/97	1425	Water	HCL ICE	3	1	X			X				
W-9-MW6	/	1440	/	/	/	2	X			X				
W-9-MW4	/	1455	/	/	/	3	X			X				
W-10-MW8	/	1510	/	/	/	4	X			X				
W-13-MW3	/	1530	/	/	/	5	X			X				
W-11-MW2	/	1545	/	/	4	6	X			X	X			

RELINQUISHED BY / AFFILIATION	Date	Time	ACCEPTED / AFFILIATION	Date	Time	Additional Comments
<u>[Signature]</u>	8/7/97	10:50	<u>[Signature]</u> Sequoia	8/7/97	10:00	
<u>[Signature]</u>	8/7/97		<u>[Signature]</u> / sequoia Analyt.	08-07-97	12:27	

AUG. 19. 1997 3:18PM
 Pink - Client
 Yellow - Sequoia
 White - Sequoia
 NO. 4573 P. 15



Sequoia Analytical
680 Chesapeake Dr.
Redwood City, CA 94063
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CHAIN OF CUSTODY

Consultant's Name: Environmental Resolutions Inc Page 2 of 2

Address: 74 Digital Dr Suite 6 Novato Ca 94949 Site Location: 6630 East 14th Street

Project #: 7-0236 Consultant Project #: 200913X Consultant Work Release #: 19432502

Project Contact: Marla Briggs Phone #: 415 382 9105 Laboratory Work Release #:

EXXON Contact: Marla Gucoster Phone #: 510 246 8776 EXXON RAS #: 7-0236

Sampled by (print): Scott Graham Sampler's Signature: [Signature] Oakland, Ca

Shipment Method: Air Bill #:

TAT: 24 hr 48 hr 72 hr 96 hr Standard (10 day)

ANALYSIS REQUIRED 9708357 27

Sample Description	Collection Date	Collection Time	Matrix Sol/Water/Air	Prsv	# of Cont.	Sequoia's Sample #	TPH/Gas BTEX/8015/8020	TPH/Diesel EPA 8015	TRPH S.M. 5520	Temperature: _____
W-11-MW5	8/6/97	1430	Water	ICE	2	1		X		Inbound Seal: Yes No Outbound Seal: Yes No
W-9-MW6	/	1445	/	/	/	2		X		
W-9-MW4	/	1500	/	/	/	3		X		
W-10-MW8	/	1515	/	/	/	4		X		
W-13-MW3	/	1535	/	/	/	5		X		
W-11-MW2	/	1550	/	/	/	6		X		

RELINQUISHED BY / AFFILIATION	Date	Time	ACCEPTED / AFFILIATION	Date	Time	Additional Comments
<u>[Signature]</u>	8/7/97	10:50	<u>[Signature]</u> Sequoia	8/6/97	10:50	
	8/7/97		<u>[Signature]</u> Sequoia Analytical	8/10/97	12:27	

AUG. 19. 1997 3:19PM
 Client - Pink
 Sequoia - Yellow
 Sequoia - White
 NO. 4973 E. 16