

ENVIRONMENTAL
PROTECTION

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EXXON COMPANY, U.S.A.

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

MARLA D. GUENSLER
SENIOR ENGINEER

(925) 246-8776
(925) 246-8798 FAX

June 19, 1998

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

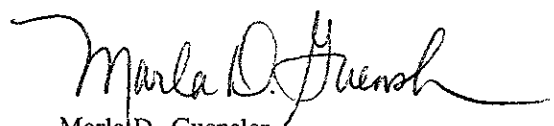
RE: Former Exxon RAS #7-0236/6600 East 14th Street, Oakland, California.

Dear Mr. Peacock:

Attached for your review and comment is a letter report entitled *Quarterly Groundwater Monitoring, Second Quarter 1998*, dated June 9, 1998, 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 activities at the subject site.

If you have any questions or comments, please contact me at (925) 246-8776.

Sincerely,



Marla D. Guensler
Senior Engineer

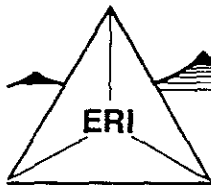
MDG/tjm

Attachment: ERI's Quarterly Groundwater Monitoring Report, Second Quarter 1998, dated June 9, 1998

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

w/o attachment
Mr. Marc A. Briggs - ERI





ENVIRONMENTAL RESOLUTIONS, INC.

June 9, 1998
ERI 200913.R14

Ms. Marla D. Guensler
Exxon Company, U.S.A.
P.O. Box 4032
Concord, California 94524-4032

Subject: Quarterly Groundwater Monitoring, Second Quarter 1998, 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 second quarter 1998 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 April 17, 1998, ERI measured depth to water (DTW) in all existing monitoring wells except well MW8 and collected groundwater samples from groundwater wells MW2, MW3, MW5, MW6, and MW8 for laboratory analysis. ERI also obtained dissolved oxygen readings from each well, except well MW5, on a monthly basis. Monitoring wells MW1 and MW7 were previously destroyed. No measurable liquid phase hydrocarbons were observed in the monitoring wells. Currently, Oxygen Releasing Compound (ORC) is installed in well MW6. ERI's groundwater sampling protocol is attached (Attachment A).

Based on DTW measurements the groundwater appears to flow south-southwest with a hydraulic gradient of 0.02 (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 tertiary 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) 382-5988.

Sincerely,
Environmental Resolutions, Inc.



Scott R. Graham
Environmental Technician



Keith A. Romstad
Branch Manager

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 Analysis Reports and Chain of Custody Record

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 <	TPHg	B	parts per billion				DO < ppm >
								T	E	X	MTBE >	
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	
					<			parts per billion			>	< ppm >	
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	
	9/23/97	---	---	---	---	---	---	---	---	---	---	2.36	
	10/7/97	NLPH	11.08	11.11	1,200	280	1.2	2.4	<0.5	1.1	230	1.56	
12/24/97	---	---	---	---	---	---	---	---	---	---	1.23		
1/16/98	NLPH	7.29	14.90	1,200	3,500	190	14	110	31	3,000	1.18		
2/20/98	---	---	---	---	---	---	---	---	---	---	1.30		
3/26/98	---	---	---	---	---	---	---	---	---	---	1.20		
4/17/98	NLPH	8.61	13.58	970	3,200	150	6.9	37	5.7	2,600	1.38		
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	---	---	---	---	---	---	---	---	

~ 2E-6 Risk
 Gw to indoor air
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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
MW3 (cont.) (19.59)	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	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	
9/23/97		---	---	---	---	---	---	---	---	---	---	8.62	
10/7/97		NLPH	10.86	11.76	500	1,600	24	10	<2.0	3.5	12	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	<0.5	0.76	<0.5	<0.5	21	9.40		
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	---	---	

TABLE I
 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 parts per billion	E	X	MTBE >	DO <ppm>
MW4 (cont.) (19.46)	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	---
	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
	2/25/97	NLPH	7.98	14.60	<50	<50	0.60	0.89	<0.5	1.8	<2.5	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	<0.5	<0.5	<0.5	<0.5	<2.5	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	<0.5	<0.5	<0.5	<0.5	<2.5	1.68	
2/20/98	---	---	---	---	---	---	---	---	---	---	3.33	
3/26/98	---	---	---	---	---	---	---	---	---	---	1.65	
4/17/98	NLPH	7.21	15.37	---	---	---	---	---	---	---	3.10	
MWS (16.95)	04/06/92	NR	10.66	6.29	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---
	07/08/92*	---	---	---	---	---	---	---	---	---	---	---
	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	---	---	

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA

Former Exxon Service Station 7-0236
6600 East 14th Street
Oakland, California

(Page 5 of 8)

Well ID # (TOC)	Sampling Date	SUBJ <	DTW feet	Elev. >	TEPHd <	TPHg	B	T			X	MTBE >	DO <ppm>
								parts per billion					
MW5 (cont.) (16.95)	2/4/94	NLPH	11.83	5.12	60	<50	<0.5	<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	<0.5	---	---
	9/20/94	NLPH	12.79	4.16	<50	<50	<0.5	<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	<0.5	---	---
	3/27/95	NLPH	9.09	7.86	<50	<50	<0.5	<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	<0.5	<0.5	<0.5	<0.5	<2.5	---	---
	11/7/95	NLPH	12.12	4.83	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---
	Additional Analyses for general minerals and properties < **												
	2/29/96	NLPH	9.24	7.71	60	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---
	5/10/96	NLPH	10.71	6.24	<50	<50	<0.5	<0.5	<0.5	1.6	<2.5	---	---
	8/20/96	NLPH	11.45	5.50	---	---	---	---	---	---	---	---	---
	10/17/96	---	---	---	---	---	---	---	---	---	---	---	---
11/27/96	---	---	---	---	---	---	---	---	---	---	---	---	
12/6/96	NLPH	10.70	6.25	90	62	1.2	6.5	1.7	11	<2.5	---	---	
1/17/97	---	---	---	---	---	---	---	---	---	---	---	---	
(19.98)	2/25/97	NLPH	10.49	9.49	90	<50	1.4	2.4	0.95	7.4	<2.5	---	---
	3/13/97	---	---	---	---	---	---	---	---	---	---	---	---
	4/16/97	---	---	---	---	---	---	---	---	---	---	---	---
	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	---	---
	9/23/97	---	---	---	---	---	---	---	---	---	---	---	---
	10/7/97	NLPH	12.26	7.72	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---
	12/24/97	---	---	---	---	---	---	---	---	---	---	---	---
	1/16/98	NLPH	8.87	11.11	<50	<50	<0.5	<0.5	<0.5	0.64	<2.5	---	---
	2/20/98	---	---	---	---	---	---	---	---	---	---	---	---
	3/26/98	---	---	---	---	---	---	---	---	---	---	---	---
4/17/98	NLPH	9.97	10.01	<50	<50	0.90	2.2	0.81	3.6	<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	---	---	---

TABLE 1
 CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Former Exxon Service Station 7-0236
 6600 East 14th Street
 Oakland, California
 (Page 6 of 8)

Well ID # (TOC)	Sampling Date	SUBJ <	DTW feet	Elev. >	TEPHd <	TPHg	B	parts per billion			MTBE >	DO <ppm>
								T	E	X		
MW6 (cont.) (18.79)	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
	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	
9/23/97	---	---	---	---	---	---	---	---	---	---	6.22	
10/7/97	NLPH	9.85	11.99	89	<50	<0.5	<0.5	<0.5	<0.5	4.1	9.68	
12/24/97	---	---	---	---	---	---	---	---	---	---	2.78	
1/16/98	NLPH	5.50	16.34	93	<50	<0.5	<0.5	<0.5	<0.5	<2.5	2.73	
2/20/98	---	---	---	---	---	---	---	---	---	---	3.55	
3/26/98	---	---	---	---	---	---	---	---	---	---	3.90	
4/17/98	NLPH	8.12	13.72	59	<50	<0.5	<0.5	<0.5	<0.5	<2.5	5.08	
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	---	---
	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	---	---

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 <	TPHg	B	parts per billion			MTBE >	DO <ppm>
								T	E	X		
MW7 (cont.) (19.23)	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
	9/23/97	---	---	---	---	---	---	---	---	---	---	0.75
	10/7/97	NLPH	10.23	12.37	<50	100	1.1	<0.5	<0.5	<0.5	4.9	0.82
	12/24/97	---	---	---	---	---	---	---	---	---	---	0.86
	1/16/98	NLPH	4.39	18.21	81	180	2.8	<0.5	<0.5	0.92	9.6	0.94
	2/20/98	---	---	---	---	---	---	---	---	---	---	0.61
	3/26/98	---	---	---	---	---	---	---	---	---	---	0.53
	4/17/98	NLPH	---	---	74	370	<0.5	0.94	<0.5	0.79	27	2.65

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA

Former Exxon Service Station 7-0236

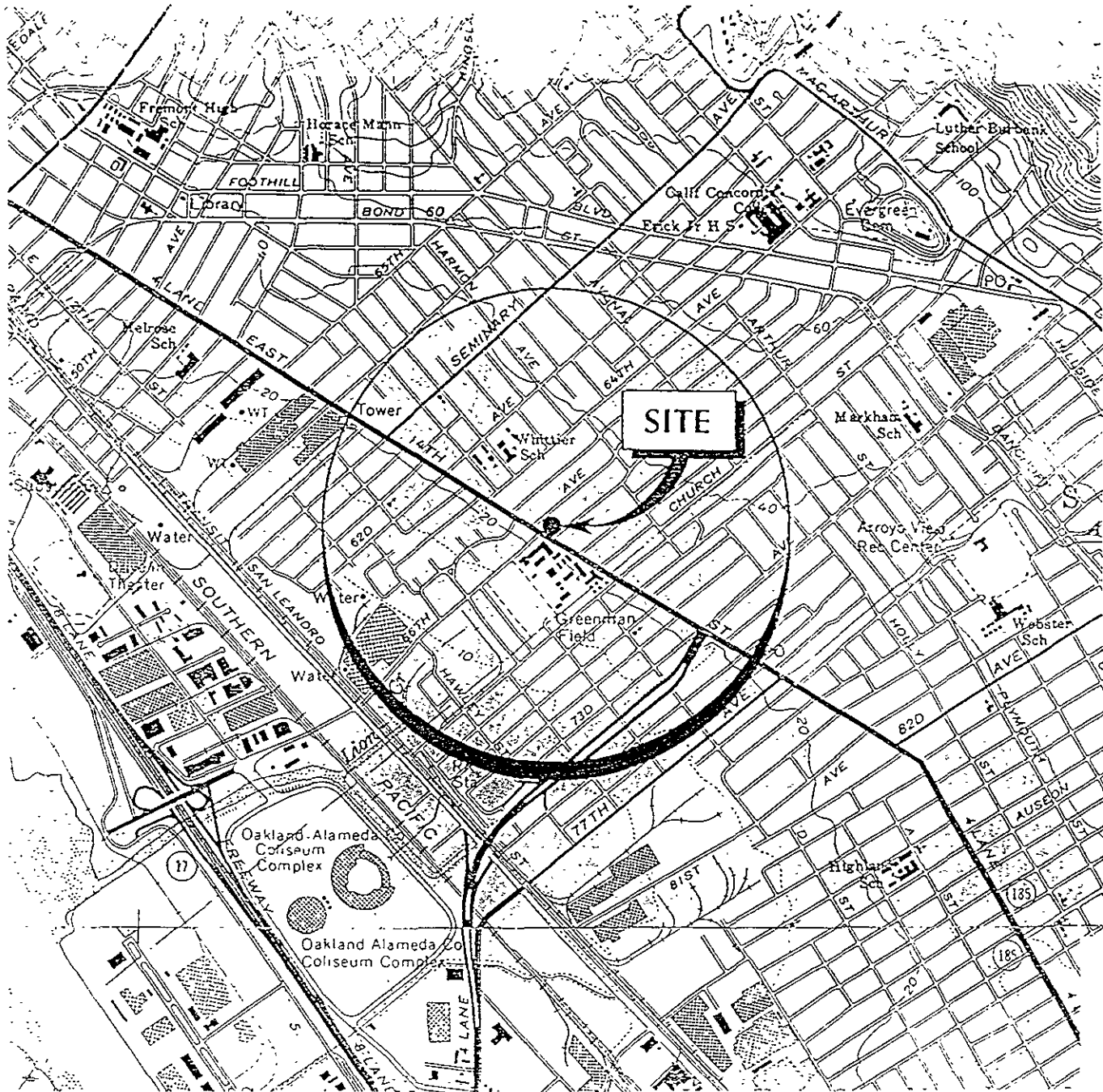
6600 East 14th Street

Oakland, California

(Page 8 of 8)

Notes:

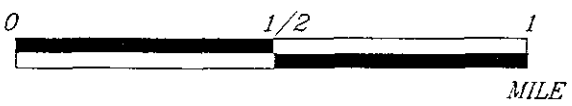
NLPH	=	No liquid-phase hydrocarbons present in well
TOC	=	Elevation of top of well casing; relative to mean sea level (MSL) in feet
SUBJ	=	Results of subjective evaluation
sheen	=	Liquid-phase hydrocarbons present as a sheen
NR	=	Not recorded
DTW	=	Depth to water
Elev.	=	Elevation of groundwater; relative 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 tertiary-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: 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, 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. 75 minute topographic quadrangle map Oakland East and San Leandro Calif. 1980

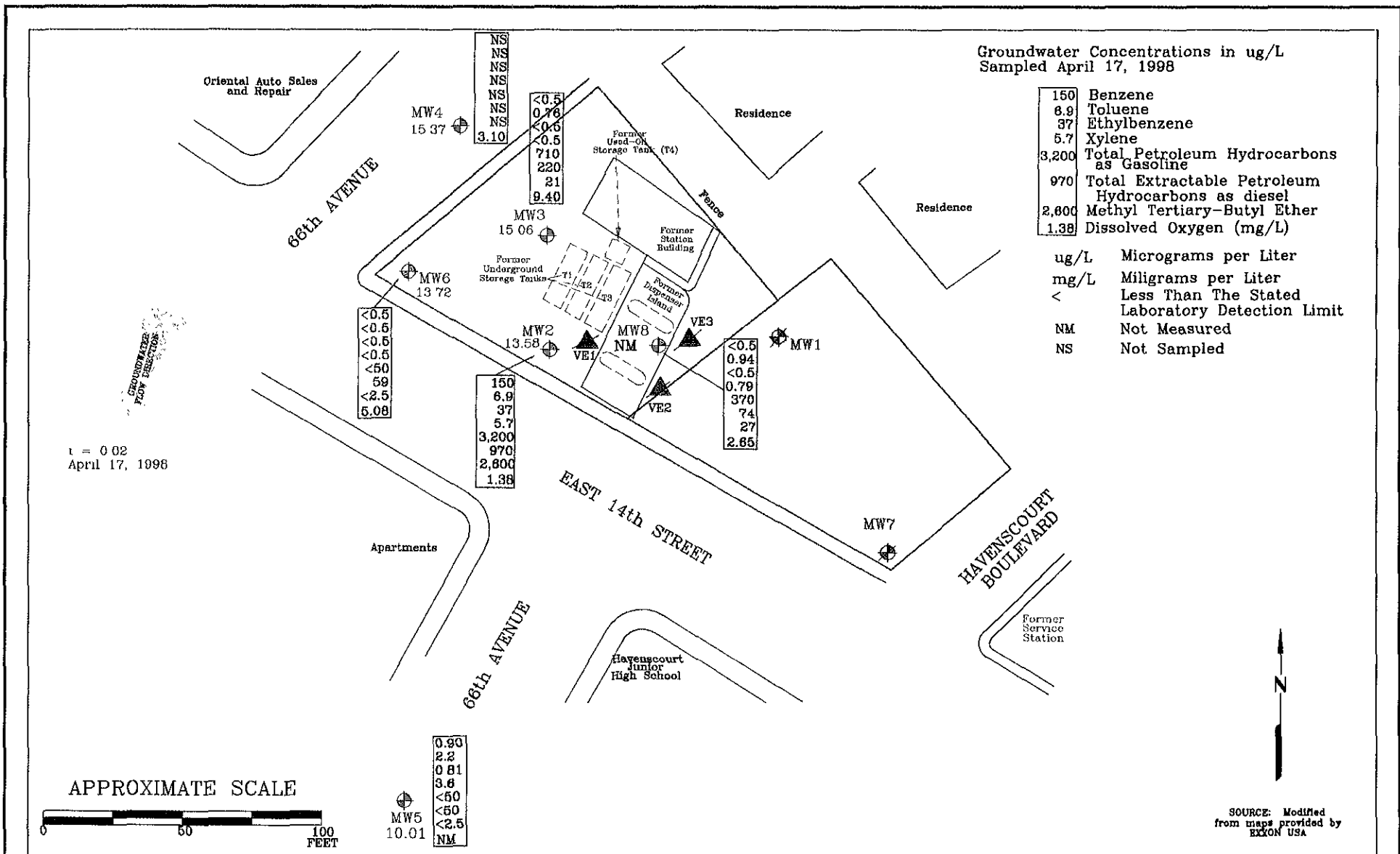


PROJECT ERI 2009

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

- MW8 Groundwater Monitoring Well
- MW7 Groundwater Monitoring Well (Destroyed)
- VE3 Vapor Extraction Well (Destroyed)

PROJECT NO.

2009

PLATE

2

May 16, 1988

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 = $\pi r^2 h (7.48)$ 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
π	=	ratio of the circumference of a circle to its diameter

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 ANALYSIS REPORTS
AND CHAIN OF CUSTODY RECORD**



**Sequoia
Analytical**

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(916) 921-9600 FAX (916) 921-0100
(707) 792-1865 FAX (707) 792-0342

MAY 04 1998

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

Client Proj. ID: Exxon 7-0236, 200913X
Sample Descript: W-9-MW5
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9804D54-01

Sampled: 04/17/98
Received: 04/21/98
Extracted: 04/28/98
Analyzed: 04/30/98
Reported: 05/01/98

QC Batch Number: GC0428980HBPEXE
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	72

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

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager





Environmental Resolutions 74 Digital Drive, Suite 6 Novato, CA 94949	Client Proj. ID: Exxon 7-0236, 200913X Sample Descript: W-9-MW5 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9804D54-01	Sampled: 04/17/98 Received: 04/21/98 Analyzed: 04/25/98 Reported: 05/01/98
--	---	---

QC Batch Number: GC042598BTEX17A
Instrument ID: GCHP17

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	0.90
Toluene	0.50	2.2
Ethyl Benzene	0.50	0.81
Xylenes (Total)	0.50	3.6
Chromatogram Pattern:		

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	83

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

SEQUOIA ANALYTICAL - ELAP #1210



Richard Herling
Project Manager





Environmental Resolutions 74 Digital Drive, Suite 6 Novato, CA 94949	Client Proj. ID: Exxon 7-0236, 200913X Sample Descript: W-8-MW6 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9804D54-02	Sampled: 04/17/98 Received: 04/21/98 Extracted: 04/28/98 Analyzed: 04/30/98 Reported: 05/01/98
Attention: Marc Briggs		

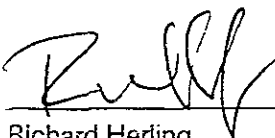
QC Batch Number: GC0428980HBPEXE
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern: Unidentified HC	50	59
		C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	84

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

SEQUOIA ANALYTICAL - ELAP #1210


Richard Herling
Project Manager





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

Client Proj. ID: Exxon 7-0236, 200913X
Sample Descript: W-8-MW6
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9804D54-02

Sampled: 04/17/98
Received: 04/21/98
Analyzed: 04/25/98
Reported: 05/01/98

Attention: Marc Briggs

QC Batch Number: GC042598BTEX03A
Instrument ID: GCHP03

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:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	83

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

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager





Environmental Resolutions 74 Digital Drive, Suite 6 Novato, CA 94949	Client Proj. ID: Exxon 7-0236, 200913X Sample Descript: W-6-MW8 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9804D54-03	Sampled: 04/17/98 Received: 04/21/98 Extracted: 04/28/98 Analyzed: 04/30/98 Reported: 05/01/98
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QC Batch Number: GC0428980HBPEXE
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	74
		C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	77

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

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager





Environmental Resolutions 74 Digital Drive, Suite 6 Novato, CA 94949	Client Proj. ID: Exxon 7-0236, 200913X Sample Descript: W-6-MW8 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9804D54-03	Sampled: 04/17/98 Received: 04/21/98 Analyzed: 04/25/98 Reported: 05/01/98
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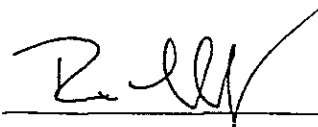
QC Batch Number: GC042598BTEX03A
Instrument ID: GCHP03

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	370
Methyl t-Butyl Ether	2.5	27
Benzene	0.50	N.D.
Toluene	0.50	0.94
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	0.79
Chromatogram Pattern: Gas & Unidentified HC		C6-C8
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	92

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

SEQUOIA ANALYTICAL - ELAP #1210


Richard Herling
Project Manager





Environmental Resolutions 74 Digital Drive, Suite 6 Novato, CA 94949	Client Proj. ID: Exxon 7-0236, 200913X Sample Descript: W-8-MW3 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9804D54-04	Sampled: 04/17/98 Received: 04/21/98 Extracted: 04/28/98 Analyzed: 04/30/98 Reported: 05/01/98
Attention: Marc Briggs		

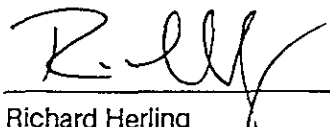
QC Batch Number: GC0428980HBPEXE
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern: Unidentified HC	50	220 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 75

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

SEQUOIA ANALYTICAL - ELAP #1210


Richard Herling
Project Manager





Environmental Resolutions 74 Digital Drive, Suite 6 Novato, CA 94949	Client Proj. ID: Exxon 7-0236, 200913X Sample Descript: W-8-MW3 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9804D54-04	Sampled: 04/17/98 Received: 04/21/98 Analyzed: 04/25/98 Reported: 05/01/98
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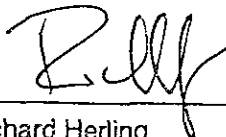
QC Batch Number: GC042598BTEX03A
Instrument ID: GCHP03

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	710
Methyl t-Butyl Ether	2.5	21
Benzene	0.50	N.D.
Toluene	0.50	0.76
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern: Gas & Unidentified HC		C6-C8
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	88

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

SEQUOIA ANALYTICAL - ELAP #1210


Richard Herling
Project Manager





Environmental Resolutions 74 Digital Drive, Suite 6 Novato, CA 94949 Attention: Marc Briggs	Client Proj. ID: Exxon 7-0236, 200913X Sample Descript: W-10-MW2 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9804D54-05	Sampled: 04/17/98 Received: 04/21/98 Extracted: 04/28/98 Analyzed: 04/30/98 Reported: 05/01/98
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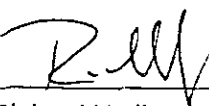
QC Batch Number: GC0428980HBPEXE
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern: Unidentified HC	50	970 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50	% Recovery 80

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

SEQUOIA ANALYTICAL - ELAP #1210


Richard Herling
Project Manager





Environmental Resolutions 74 Digital Drive, Suite 6 Novato, CA 94949	Client Proj. ID: Exxon 7-0236, 200913X Sample Descript: W-10-MW2 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9804D54-05	Sampled: 04/17/98 Received: 04/21/98 Analyzed: 04/25/98 Reported: 05/01/98
Attention: Marc Briggs		

QC Batch Number: GC042598BTEX03A
Instrument ID: GCHP03

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	500	3200
Methyl t-Butyl Ether	25	2600
Benzene	5.0	150
Toluene	5.0	6.9
Ethyl Benzene	5.0	37
Xylenes (Total)	5.0	5.7
Chromatogram Pattern:		GAS
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	103

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

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager





Environmental Resolutions
74 Digital Drive, Suite 6
Novato, CA 94949
Attention: Marc Briggs

Client Project ID: Exxon 7-0236, 200913X

QC Sample Group: 9804D54-02-05

Reported: May 1, 1998

QUALITY CONTROL DATA REPORT

Matrix: Liquid
Method: EPA 8015/8020
Analyst: A. MirafTAB

ANALYTE	Benzene	Ethylbenzene	Toluene	Xylenes	BTEX as TPH
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QC Batch #: GC042598BTEX03A

Sample No.: GW9804C72-6

Date Prepared:	4/25/98	4/25/98	4/25/98	4/25/98	4/25/98
Date Analyzed:	4/25/98	4/25/98	4/25/98	4/25/98	4/25/98
Instrument I.D.#:	GCHP3	GCHP3	GCHP3	GCHP3	GCHP3
Sample Conc., ug/L:	N.D.	N.D.	N.D.	N.D.	N.D.
Conc. Spiked, ug/L:	10	10	10	30	60
Matrix Spike, ug/L:	10	10	10	31	66
% Recovery:	100	100	100	103	110
Matrix					
Spike Duplicate, ug/L:	10	10	10	31	67
% Recovery:	100	100	100	103	112
Relative % Difference:	0.0	0.0	0.0	0.0	1.8
RPD Control Limits:	0-25	0-25	0-25	0-25	0-25

LCS Batch#: GAWBLK042598A

Date Prepared:	4/25/98	4/25/98	4/25/98	4/25/98	4/25/98
Date Analyzed:	4/25/98	4/25/98	4/25/98	4/25/98	4/25/98
Instrument I.D.#:	GCHP3	GCHP3	GCHP3	GCHP3	GCHP3
Conc. Spiked, ug/L:	10	10	10	30	60
LCS Recovery, ug/L:	10	10	10	31	66
LCS % Recovery:	100	100	100	103	110

Percent Recovery Control Limits:

MS/MSD	60-140	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130	70-130

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

Please Note:

The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

Richard Herling
Richard Herling
Project Manager





Environmental Resolutions
74 Digital Drive, Suite 6
Novato, CA 94949
Attention: Marc Briggs

Client Project ID: Exxon 7-0236, 200913X

QC Sample Group: 9804D54-01

Reported: May 1, 1998

QUALITY CONTROL DATA REPORT

Matrix: Liquid
Method: EPA 8015/8020
Analyst: A. MirafTAB

ANALYTE Benzene Ethylbenzene Toluene Xylenes BTEX as TPH

QC Batch #: GC042598BTEX17A

Sample No.: GW9804C72-6

Date Prepared: 4/25/98 4/25/98 4/25/98 4/25/98 4/25/98

Date Analyzed: 4/25/98 4/25/98 4/25/98 4/25/98 4/25/98

Instrument I.D.#: GCHP17 GCHP17 GCHP17 GCHP17 GCHP17

Sample Conc., ug/L: N.D. N.D. N.D. N.D. N.D.
Conc. Spiked, ug/L: 10 10 10 30 60

Matrix Spike, ug/L: 11 11 11 29 60
% Recovery: 110 110 110 97 100

Matrix Spike Duplicate, ug/L: 11 11 10 28 58
% Recovery: 110 110 100 93 97

Relative % Difference: 0.0 0.0 9.5 4.2 3.0

RPD Control Limits: 0-25 0-25 0-25 0-25 0-25

LCS Batch#: GAWBLK042598A

Date Prepared: 4/25/98 4/25/98 4/25/98 4/25/98 4/25/98

Date Analyzed: 4/25/98 4/25/98 4/25/98 4/25/98 4/25/98

Instrument I.D.#: GCHP17 GCHP17 GCHP17 GCHP17 GCHP17

Conc. Spiked, ug/L: 10 10 10 30 60

LCS Recovery, ug/L: 11 11 9.4 30 59
LCS % Recovery: 110 110 94 100 98

Percent Recovery Control Limits:

MS/MSO	60-140	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130	70-130

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

Please Note:

The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

Richard Herling
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FAX (707) 792-0342

Environmental Resolutions
74 Digital Drive, Suite 6
Novato, CA 94949
Attention: Marc Briggs

Client Project ID: Exxon 7-0236, 200913X

QC Sample Group: 9804D54-01-05

Reported: May 1, 1998

QUALITY CONTROL DATA REPORT

Matrix: Liquid
Method: EPA 8015A
Analyst: A. Porter

ANALYTE Diesel

QC Batch #: GC0428980HBPEXE

Sample No.: 9804D47-2

Date Prepared: 4/24/98

Date Analyzed: 4/25/98

Instrument I.D.#: GCHP4B

Sample Conc., ug/L: N.D.

Conc. Spiked, ug/L: 1000

Matrix Spike, ug/L: 670

% Recovery: 67

Matrix

Spike Duplicate, ug/L: 740

% Recovery: 74

Relative % Difference: 9.9

RPD Control Limits: 0-50

LCS Batch#: BLK042898ES

Date Prepared: 4/28/98

Date Analyzed: 4/29/98

Instrument I.D.#: GCHP4B

Conc. Spiked, ug/L: 1000

Recovery, ug/L: 790

LCS % Recovery: 79

Percent Recovery Control Limits:

MS/MSD 50-150


LCS 60-140

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

Please Note:

The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL


Richard Herling
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: <i>Environmental Resolutions Inc</i>		Page <u>1</u> of <u>7</u>
Address: <i>74 Digital Dr Suite G Novato Ca 94949</i>		Site Location: <i>6680 East 14th St</i>
Project #:	Consultant Project #: <i>200913X</i>	Consultant Work Release #: <i>19432502</i>
Project Contact: <i>Marc Briggs</i>	Phone #: <i>415 382 9105</i>	Laboratory Work Release #:
EXXON Contact: <i>Marla Guenster</i>	Phone #: <i>510 246 8776</i>	EXXON RAS #: <i>7-0236</i>
Sampled by (print): <i>Scott Graham</i>	Sampler's Signature: <i>Scott Graham</i>	<i>Oakland, Ca</i>
Shipment Method:	Air Bill #:	

TAT: 24 hr 48 hr 72 hr 96 hr Standard (10 day) ANALYSIS REQUIRED: *9804054* p. 21 2 34

Sample Description	Collection Date	Collection Time	Matrix Soil/Water/Air	Prsv	# of Cont.	Sequoia's Sample #	TPH/Gas	TPH/	TRPH	MTBE	Temperature: _____
							BTEX/ 8015/ 8020	Diesel EPA 8015	S.M. 5520		
<i>W-9-MW5</i>	<i>4/17/98</i>	<i>1310</i>	<i>Water</i>	<i>HCL ICE</i>	<i>3</i>	<i>1</i>	<i>X</i>			<i>X</i>	
<i>W-8-MW6</i>	<i>4/17/98</i>	<i>1325</i>	<i>Water</i>	<i>HCL ICE</i>	<i>3</i>	<i>2</i>	<i>X</i>			<i>X</i>	
<i>W-6-MW8</i>	<i>4/17/98</i>	<i>1340</i>	<i>Water</i>	<i>HCL ICE</i>	<i>3</i>	<i>3</i>	<i>X</i>			<i>X</i>	
<i>W-8-MW3</i>	<i>4/17/98</i>	<i>1355</i>	<i>Water</i>	<i>HCL ICE</i>	<i>3</i>	<i>4</i>	<i>X</i>			<i>X</i>	
<i>W-10-MW2</i>	<i>4/17/98</i>	<i>1410</i>	<i>Water</i>	<i>HCL ICE</i>	<i>3</i>	<i>5</i>	<i>X</i>			<i>X</i>	
<i>W-9-MW5</i>	<i>4/21/98</i>	<i>1315</i>	<i>Water</i>	<i>ICE</i>	<i>2</i>	<i>1</i>		<i>X</i>			
<i>W-8-MW6</i>	<i>4/21/98</i>	<i>1330</i>	<i>Water</i>	<i>ICE</i>	<i>2</i>	<i>2</i>		<i>X</i>			
<i>W-6-MW8</i>	<i>4/21/98</i>	<i>1345</i>	<i>Water</i>	<i>ICE</i>	<i>2</i>	<i>3</i>		<i>X</i>			
<i>W-8-MW3</i>	<i>4/21/98</i>	<i>1400</i>	<i>Water</i>	<i>ICE</i>	<i>2</i>	<i>4</i>		<i>X</i>			

RELINQUISHED BY / AFFILIATION	Date	Time	ACCEPTED / AFFILIATION	Date	Time	Additional Comments
<i>Scott Graham</i>	<i>4/21/98</i>	<i>11:15</i>	<i>Sequoia</i>	<i>4/21</i>	<i>11:15</i>	
<i>Scott Graham</i>	<i>4.21.98</i>		<i>Sequoia</i>			
			<i>Gosh</i>	<i>4/21</i>	<i>14:34</i>	

Pink - Client
Yellow - Sequoia
White - Sequoia



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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 Page 2 of 2

Address: 74 Digital Dr Suite G Novato Ca 94949 Site Location: 6680 East 14th Street

Project #: _____ Consultant Project #: 200913x Consultant Work Release #: 19432502

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

EXXON Contact: Macka Gwensler Phone #: 510 246 8776 EXXON RAS #: 7-0236

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

Shipment Method: _____ Air Bill #: _____

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

ANALYSIS REQUIRED

9804254

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	Temperature: <u>6</u> <u>21</u> <u>2</u>	Inbound Seal: Yes No		Outbound Seal: Yes No	
											Yes	No	Yes	No
<u>W-10-MW2</u>	<u>4/17/98</u>	<u>1415</u>	<u>Water</u>	<u>3</u>	<u>3</u>	<u>3</u>		<u>X</u>						

RELINQUISHED BY / AFFILIATION	Date	Time	ACCEPTED / AFFILIATION	Date	Time	Additional Comments
<u>Scott Graham</u>	<u>4-21-98</u>	<u>11:15</u>	<u>Scott Graham Sequoia</u>	<u>4/21</u>	<u>11:15</u>	
<u>in A/K</u>	<u>4-21-98</u>					
			<u>Scott Graham</u>	<u>4/21</u>	<u>14:34</u>	

Pink - Client
 Yellow - Sequoia
 White - Sequoia



Sequoia
Analytical

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Environmental Resolutions
74 Digital Drive, Suite 6
Novato, CA 94949
Attention: Marc Briggs

Client Proj. ID: Exxon 7-0236, 200913X
Lab Proj. ID: 9804D54

Received: 04/21/98
Reported: 05/01/98

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 16 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

SEQUOIA ANALYTICAL

Richard Herling
Project Manager