



March 29, 1996
ERI 200913.R05

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

Subject: Quarterly Groundwater Monitoring, First Quarter 1996, Exxon Service Station
7-0236, 6630 East 14th Street, Oakland, California.

Ms. Guensler:

At the request of Exxon Company, U.S.A. (Exxon), Environmental Resolutions, Inc. (ERI) performed the first quarter 1996 groundwater monitoring event at the subject site (Plate 1). The purpose of quarterly monitoring is to evaluate fluctuations in dissolved hydrocarbon concentrations in groundwater, groundwater flow direction, and gradient.

GROUNDWATER MONITORING AND SAMPLING

On February 29, 1996, ERI measured depth to water (DTW) in monitoring wells MW1 through MW7, 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).

Based on DTW measurements the groundwater appears to flow southwest with a hydraulic gradient ranging from 0.018 to 0.026 (Plate 2). Historical and recent monitoring data are summarized in Table 1.

LABORATORY ANALYSES AND RESULTS

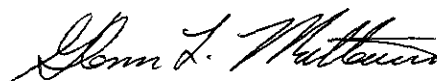
Groundwater samples were submitted to Sequoia Analytical Laboratories (California State Certification Number 1210) in Redwood City, California, under chain of custody protocol. The samples were analyzed for benzene, toluene, ethylbenzene, total xylenes (BTEX), methyl tert-butyl ether (MTBE), total petroleum 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

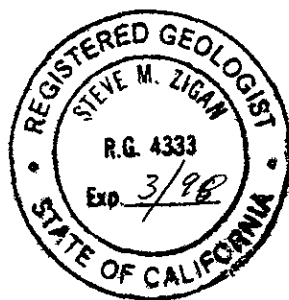
This report was prepared in accordance with generally accepted standards of environmental geological practice in California at the time this investigation was performed. This report has been prepared for Exxon Company, U.S.A. and any reliance on this report by third parties shall be at such party's sole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

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

Sincerely,
Environmental Resolutions, Inc.



Glenn L. Matteucci
Senior Staff Geologist



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

Exxon Service Station 7-0236
6630 East 14th Street
Oakland, California
(Page 1 of 3)

Well ID # (TOC)	Sampling Date	SUBJ <	DTW feet	Elev. > <	TEPHd	TPHg	B parts per billion	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
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	—
	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
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	—

TABLE I
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA

Exxon Service Station 7-0236
6630 East 14th Street
Oakland, California
(Page 2 of 3)

Well ID # (TOC)	Sampling Date	SUBJ <	DTW feet	Elev. > <	TEPHd	TPHg	B parts per billion	T	E	X	MTBE >
MW3 (cont.)											
(19.59)	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
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
MW5											
(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	---
	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	---
	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	<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
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	---

See Notes on Page 3 of 5

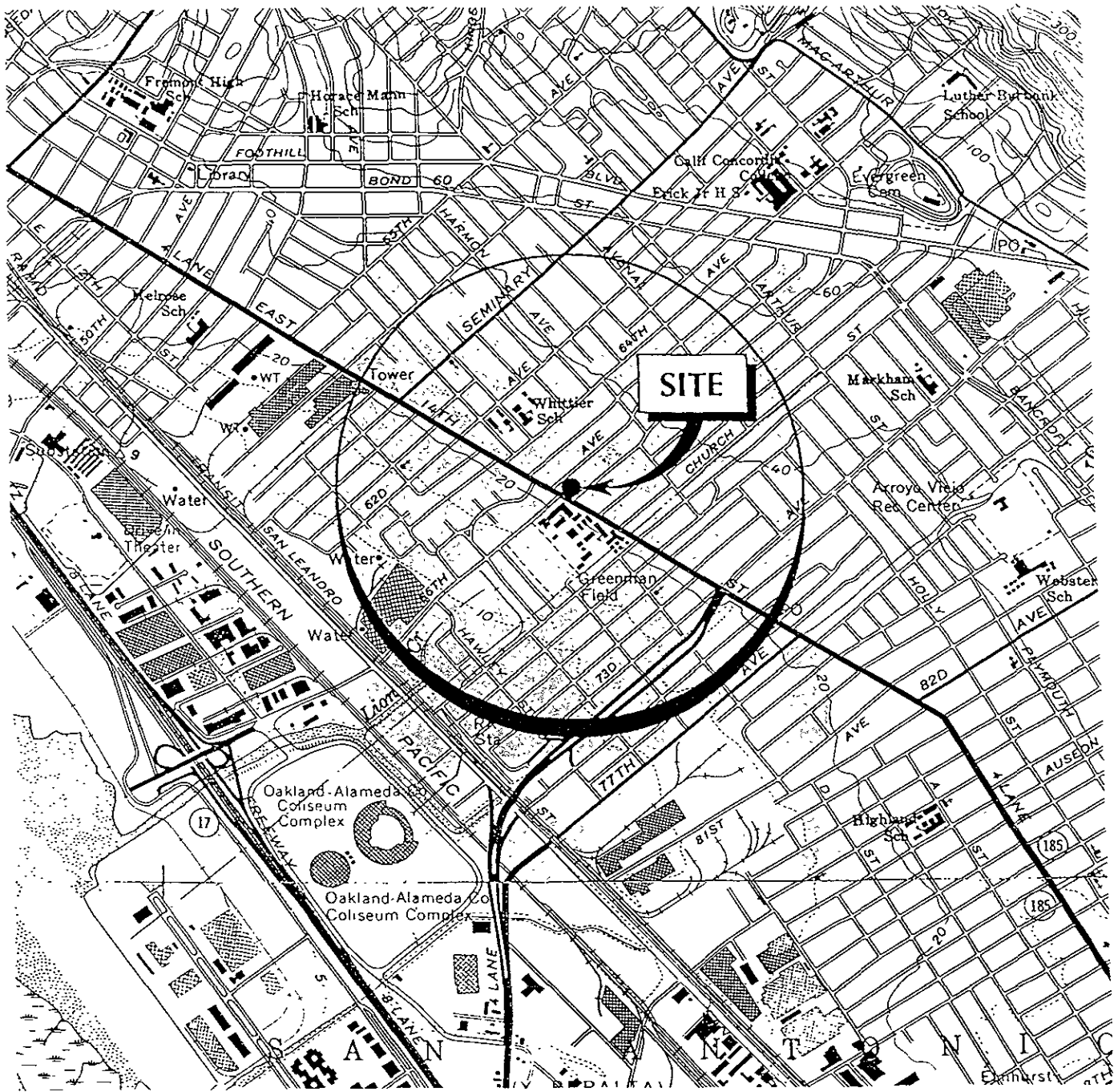
TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA

Exxon Service Station 7-0236
6630 East 14th Street
Oakland, California
(Page 3 of 5)

Well ID # (TOC)	Sampling Date	SUBJ <	DTW feet	Elev. > <	TEPHd	TPHg	B parts per billion	T	E	X	MTBE >
MW6 (cont.) (18.79)	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
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	—
	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

Notes:

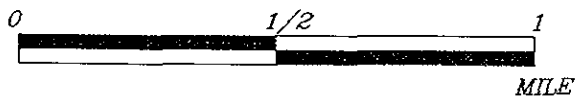
- NLPH = Liquid phase hydrocarbons not present in well
- TOC = Elevation of top of well casing; relative to mean sea level in feet sea level (MSL)
- SUBJ = Results of subjective evaluation,
- sheen = Liquid phase hydrocarbons present as a sheen
- NR = Not recorded
- DTW = Depth to water
- Elev. = Elevation of groundwater; relative to mean sea level
- TPHg = Total petroleum hydrocarbons as gasoline analyzed using modified EPA method 5030/8015
- TEPHd = Total extractable petroleum hydrocarbons as diesel analyzed using modified EPA method 5030/8015
- BTEX = Benzene, toluene, ethylbenzene, total xylene isomers analyzed using EPA method 5030/8020
- MTBE = Methyl tert-butyl ether analyzed using EPA method 5030/8020
- < = Less than the laboratory detection limit
- = Not sampled/Not measured
- * = Well not accessible : well obstructed / wellhead cover damaged / well paved over
- ** = 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 TD



20090001



APPROXIMATE SCALE



Source: U.S.G.S. 7-5 minute topographic quadrangle map Oakland East and San Leandro, Calif 1980

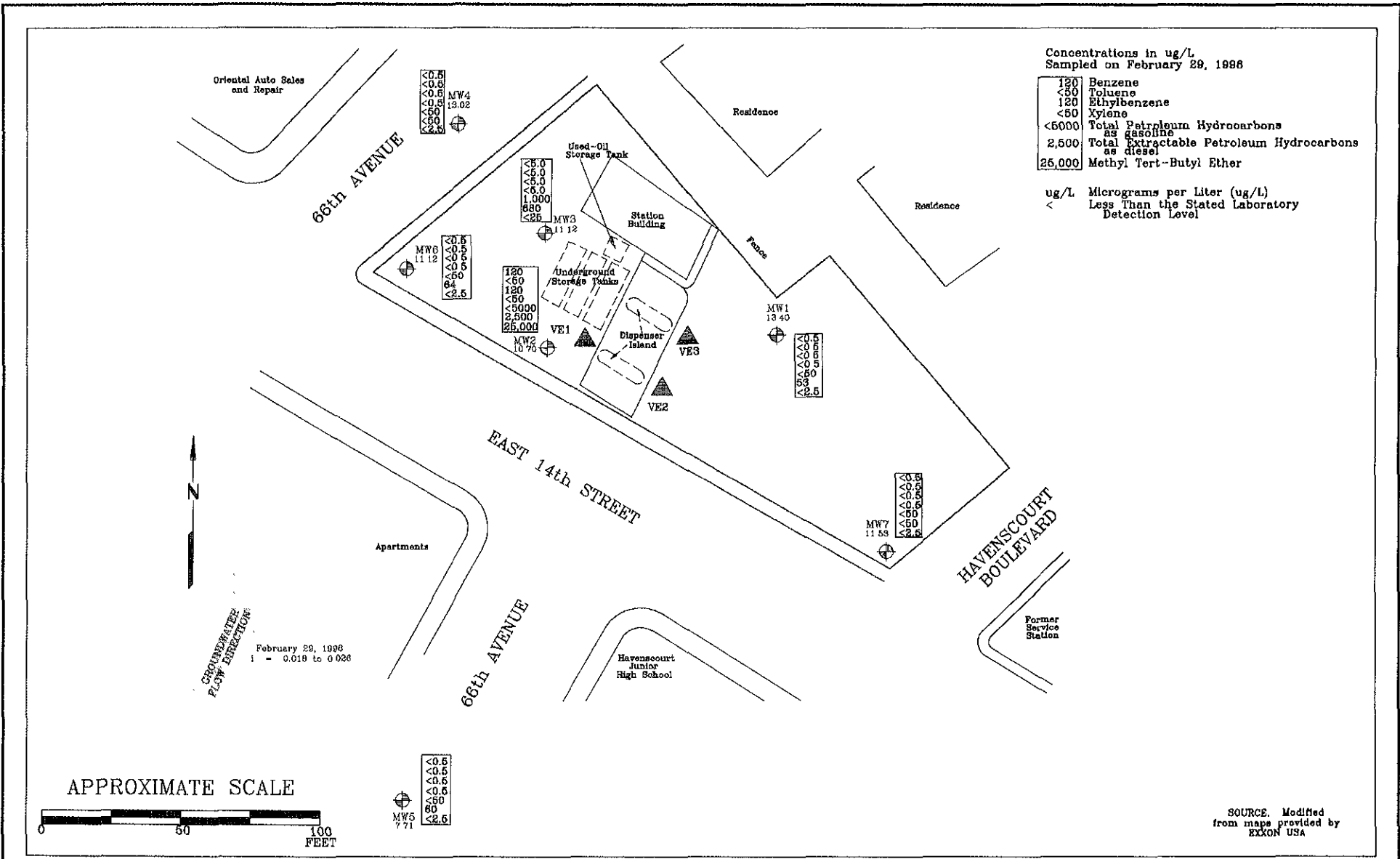


PROJECT ERI 2009

SITE VICINITY MAP
 EXXON SERVICE STATION 7-0236
 6630 East 14th Street
 Oakland, California

PLATE

1



FN 20090002



GENERALIZED SITE PLAN
EXXON SERVICE STATION 7-0236
6630 East 14th Street
Oakland, California

EXPLANATION

- Groundwater Monitoring Well
- MW7 11 53 Groundwater Elevation; in Feet Above Mean Sea Level
- Vapor Extraction Well

1 = Interpreted gradient magnitude

PROJECT NO.

2009

PLATE

2

DATE: 03/12/98

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 ORS 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 3 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 1 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



Environmental Resolutions 359 Bel Marin Keys, Suite 20 Novato, CA 94949	Client Proj. ID: Exxon 7-0236 / 200913X Sample Descript: W-6-MW1 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9603139-01	Sampled: 02/29/96 Received: 03/01/96 Extracted: 03/06/96 Analyzed: 03/07/96 Reported: 03/08/96
Attention: Marc Briggs		

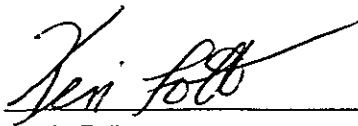
QC Batch Number: GC0305960HBPEXB
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern: Unidentified HC	50	53
		C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	109

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

SEQUOIA ANALYTICAL - ELAP #1210



 Kevin Follett
 Project Manager

RECEIVED
 MAR 14 1996
LABORATORY



Environmental Resolutions
359 Bel Marin Keys, Suite 20
Novato, CA 94949

Attention: Marc Briggs

Client Proj. ID: Exxon 7-0236 / 200913X
Sample Descript: W-6-MW1
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9603139-01

Sampled: 02/29/96
Received: 03/01/96
Analyzed: 03/06/96
Reported: 03/08/96

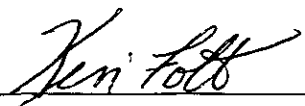
QC Batch Number: GC030696BTEX20A
Instrument ID: GCHP20

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	98

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

SEQUOIA ANALYTICAL - ELAP #1210



Kevin Follett
Project Manager





Environmental Resolutions Client Proj. ID: Exxon 7-0236 / 200913X Sampled: 02/29/96
359 Bel Marin Keys, Suite 20 Sample Descript: W-9-MW5 Received: 03/01/96
Novato, CA 94949 Matrix: LIQUID Extracted: 03/06/96
Attention: Marc Briggs Analysis Method: EPA 8015 Mod Analyzed: 03/07/96
Lab Number: 9603139-02 Reported: 03/08/96

QC Batch Number: GC0305960HBPEXB
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Table with 3 columns: Analyte, Detection Limit ug/L, Sample Results ug/L. Rows include TEPH as Diesel (50 ug/L, 60 ug/L), Unidentified HC (C9-C24), and Surrogates (n-Pentacosane (C25) with Control Limits % and % Recovery).

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

SEQUOIA ANALYTICAL - ELAP #1210

Handwritten signature of Kevin Follett
Kevin Follett
Project Manager



Environmental Resolutions 359 Bel Marin Keys, Suite 20 Novato, CA 94949	Client Proj. ID: Exxon 7-0236 / 200913X Sample Descript: W-9-MW5 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9603139-02	Sampled: 02/29/96 Received: 03/01/96 Analyzed: 03/06/96 Reported: 03/08/96
Attention: Marc Briggs		

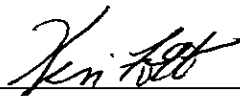
QC Batch Number: GC030696BTEX20A
Instrument ID: GCHP20

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	93

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

SEQUOIA ANALYTICAL - ELAP #1210



Kevin Follett
Project Manager



Environmental Resolutions 359 Bel Marin Keys, Suite 20 Novato, CA 94949	Client Proj. ID: Exxon 7-0236 / 200913X Sample Descript: W-6-MW4 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9603139-03	Sampled: 02/29/96 Received: 03/01/96 Extracted: 03/06/96 Analyzed: 03/07/96 Reported: 03/08/96
Attention: Marc Briggs		


QC Batch Number: GC0305960HBPEXB
Instrument ID: GCHP5A

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	136

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

SEQUOIA ANALYTICAL - ELAP #1210



 Kevin Follett
 Project Manager





Environmental Resolutions 359 Bel Marin Keys, Suite 20 Novato, CA 94949	Client Proj. ID: Exxon 7-0236 / 200913X Sample Descript: W-6-MW4 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9603139-03	Sampled: 02/29/96 Received: 03/01/96 Analyzed: 03/06/96 Reported: 03/08/96
Attention: Marc Briggs		

QC Batch Number: GC030696BTEX20A
Instrument ID: GCHP20

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	105

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager



Environmental Resolutions 359 Bel Marin Keys, Suite 20 Novato, CA 94949	Client Proj. ID: Exxon 7-0236 / 200913X Sample Descript: W-7-MW7 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9603139-04	Sampled: 02/29/96 Received: 03/01/96 Extracted: 03/06/96 Analyzed: 03/07/96 Reported: 03/08/96
Attention: Marc Briggs		

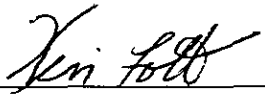
QC Batch Number: GC0305960HBPEXB
Instrument ID: GCHP5A

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	125

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

SEQUOIA ANALYTICAL - ELAP #1210



Kevin Follett
Project Manager



Environmental Resolutions 359 Bel Marin Keys, Suite 20 Novato, CA 94949	Client Proj. ID: Exxon 7-0236 / 200913X Sample Descript: W-7-MW7 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9603139-04	Sampled: 02/29/96 Received: 03/01/96 Analyzed: 03/06/96 Reported: 03/08/96
Attention: Marc Briggs		

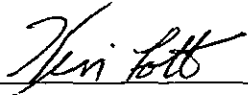
QC Batch Number: GC030696BTEX20A
Instrument ID: GCHP20

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	97

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

SEQUOIA ANALYTICAL - ELAP #1210



Kevin Follett
Project Manager



Environmental Resolutions 359 Bel Marin Keys, Suite 20 Novato, CA 94949	Client Proj. ID: Exxon 7-0236 / 200913X Sample Descript: W-7-MW6 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9603139-05	Sampled: 02/29/96 Received: 03/01/96 Extracted: 03/06/96 Analyzed: 03/07/96 Reported: 03/08/96
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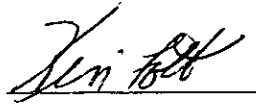
QC Batch Number: GC0305960HBPEXB
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern: Unidentified HC	50	64 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	130

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

SEQUOIA ANALYTICAL - ELAP #1210



 Kevin Follett
 Project Manager



Environmental Resolutions 359 Bel Marin Keys, Suite 20 Novato, CA 94949	Client Proj. ID: Exxon 7-0236 / 200913X Sample Descript: W-7-MW6 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9603139-05	Sampled: 02/29/96 Received: 03/01/96 Analyzed: 03/06/96 Reported: 03/08/96
Attention: Marc Briggs		

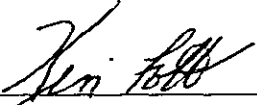
QC Batch Number: GC030696BTEX21A
Instrument ID: GCHP21

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	72

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

SEQUOIA ANALYTICAL - ELAP #1210



 Kevin Follett
 Project Manager



Environmental Resolutions 359 Bel Marin Keys, Suite 20 Novato, CA 94949	Client Proj. ID: Exxon 7-0236 / 200913X Sample Descript: W-7-MW3 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9603139-06	Sampled: 02/29/96 Received: 03/01/96 Extracted: 03/06/96 Analyzed: 03/07/96 Reported: 03/08/96
Attention: Marc Briggs		

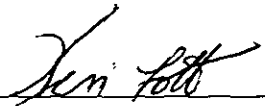
QC Batch Number: GC0305960HBPEXB
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern: Unidentified HC	50	680 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	134

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

SEQUOIA ANALYTICAL - ELAP #1210



 Kevin Follett
 Project Manager



Environmental Resolutions
359 Bel Marin Keys, Suite 20
Novato, CA 94949

Client Proj. ID: Exxon 7-0236 / 200913X
Sample Descript: W-7-MW3
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9603139-06

Sampled: 02/29/96
Received: 03/01/96
Analyzed: 03/06/96
Reported: 03/08/96

Attention: Marc Briggs

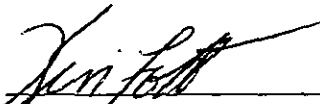
QC Batch Number: GC030696BTEX20A
Instrument ID: GCHP20

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	500	1000
Methyl t-Butyl Ether	25	N.D.
Benzene	5.0	N.D.
Toluene	5.0	N.D.
Ethyl Benzene	5.0	N.D.
Xylenes (Total)	5.0	N.D.
Chromatogram Pattern: Gas & Unidentified HC		< C8
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	96

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

SEQUOIA ANALYTICAL - ELAP #1210


Kevin Follett
Project Manager



Environmental Resolutions 359 Bel Marin Keys, Suite 20 Novato, CA 94949	Client Proj. ID: Exxon 7-0236 / 200913X Sample Descript: W-8-MW2 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9603139-07	Sampled: 02/29/96 Received: 03/01/96 Extracted: 03/06/96 Analyzed: 03/07/96 Reported: 03/08/96
Attention: Marc Briggs		

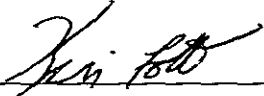
QC Batch Number: GC0305960HBPEXB
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern: Unidentified HC	50	2500 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	147

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

SEQUOIA ANALYTICAL - ELAP #1210



Kevin Follett
Project Manager



Environmental Resolutions 359 Bel Marin Keys, Suite 20 Novato, CA 94949	Client Proj. ID: Exxon 7-0236 / 200913X Sample Descript: W-8-MW2 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9603139-07	Sampled: 02/29/96 Received: 03/01/96 Analyzed: 03/06/96 Reported: 03/08/96
Attention: Marc Briggs		

QC Batch Number: GC030696BTEX20A
 Instrument ID: GCHP20

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	5000	N.D.
Methyl t-Butyl Ether	250	25000
Benzene	50	120
Toluene	50	N.D.
Ethyl Benzene	50	120
Xylenes (Total)	50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	110

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
 Project Manager



Sequoia Analytical
680 Chesapeake Dr.
Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

EXXON COMPANY, U.S.A.

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

CHAIN OF CUSTODY

Consultant's Name: <u>Environmental Resolutions Inc</u>		Site Location: <u>6630 E 14th Street</u>
Address: <u>359 Bell Marin Key Suite 20 Novato Ca 94949</u>		Consultant Work Release #: <u>19432502</u>
Project #: <u>7-0236</u>	Consultant Project #: <u>200913X</u>	Laboratory Work Release #:
Project Contact: <u>Mark Briggs</u>	Phone #: <u>415 382 9105</u>	EXXON RAS #: <u>7-0236</u>
EXXON Contact: <u>Macla Givensler</u>	Phone #: <u>510 246 8776</u>	Sampler's Signature: <u>Scott Graham</u> <u>Oil Land, Ca</u>
Sampled by (print): <u>Scott Graham</u>	Air Bill #:	
Shipment Method:		

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

ANALYSIS REQUIRED 9603139

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	Inbound Seal: Yes No	Outbound Seal: Yes No
W-6-MW1	2/29/96	14:25	Water	HCL 306	3	01	X					
W-9-MW5		14:40				02	X					
W-6-MW4		14:55				03	X					
W-7-MW7		15:10				04	X					
W-7-MW6		15:25				05	X					
W-7-MW3		15:40				06	X					
W-8-MW2		15:55				07	X					
W-6-MW1		14:30		ICE	2	01		X				
W-9-MW5		14:45				02		X				

RELINQUISHED BY / AFFILIATION	Date	Time	ACCEPTED / AFFILIATION	Date	Time	Additional Comments
<u>Scott Graham</u>	<u>3/1/96</u>	<u>1320</u>	<u>Keith G. Gault - Seq</u>	<u>3/1/96</u>	<u>1320</u>	
<u>Keith G. Gault - Seq</u>	<u>3/1/96</u>		<u>Thompson</u>	<u>03/01/96</u>	<u>15:40</u>	

Pink - Client
Yellow - Sequoia
White - Sequoia



Sequoia Analytical
680 Chesapeake Dr.
Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

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: 359 Bel Marin Keys Suite 20 Novato, CA 94949 Site Location: 6630 E 14th St

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

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

EXXON Contact: Marta Guenzler 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 92003139

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: _____	
										Inbound Seal	Yes No
W-6-MW4	2/29/96	15:00	Water	Ice	2	03	X				
W-7-MW7	/	15:15	/	/	/	04	X				
W-7-MW6	/	15:30	/	/	/	05	X				
W-7-MW3	/	15:45	/	/	/	06	X				
W-8-MW2	/	16:00	/	/	/	07	X				

RELINQUISHED BY / AFFILIATION	Date	Time	ACCEPTED / AFFILIATION	Date	Time	Additional Comments
<u>Scott Graham</u>	<u>3/1/96</u>	<u>1320</u>	<u>Lutz R. Stubb</u>	<u>3/1/96</u>	<u>1320</u>	
<u>Lutz R. Stubb</u>	<u>3/1/96</u>		<u>Thick</u>	<u>03/01/96</u>	<u>15:40</u>	

Pink - Client

Yellow - Sequoia

White - Sequoia