

ST10 1039
SOS

EXXON COMPANY, U.S.A.

ENVIRONMENTAL
PROTECTION

99 JAN -5 AM 9:21

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

MARLA D. GUENSLER
SENIOR ENGINEER
(925) 246-8776
(925) 246-8798 FAX

DEC 29 1998

Ms. Pamela Evans
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Room 250
Alameda, California 94502-6577

RE: Exxon RAS 7-0235/2225 Telegraph Avenue, Oakland, California.

Dear Ms. Evans:

Attached for your review and comment is a letter report entitled *Quarterly Groundwater Monitoring, Fourth Quarter 1998*, dated December 7, 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 and sampling 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

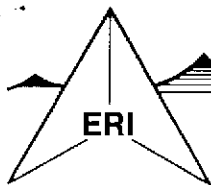
MDG/tjm

Attachment ERI's Quarterly Groundwater Monitoring Report, Fourth Quarter 1998, dated December 7, 1998

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

w/o attachment
Mr. Mark S. Dockum - Environmental Resolutions, Inc.





ENVIRONMENTAL RESOLUTIONS, INC.

STIP 1037

December 7, 1998
ERI 222913.R04

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

Subject: Quarterly Groundwater Monitoring, Fourth Quarter 1998, Exxon Service Station
7-0235, 2225 Telegraph Avenue, Oakland, California.

Ms. Guensler:

At the request of Exxon Company, U.S.A. (Exxon), Environmental Resolutions, Inc. (ERI) performed the fourth quarter 1998, groundwater monitoring and sampling event at the subject site. The location of the site is shown on the Site Vicinity Map (Plate 1). The purpose of quarterly monitoring is to evaluate concentrations of dissolved hydrocarbons in groundwater and groundwater flow direction and gradient.

GROUNDWATER MONITORING AND SAMPLING

On October 6, 1998, ERI measured depth to water (DTW) in monitoring wells MW6B, and MW6E through MW6I, and RW2 through RW3A, and collected groundwater samples from MW6B, MW6E, MW6H, ~~MW6I~~, RW2 and RW3A. Sampling of monitoring wells MW6F and MW6G, and recovery well RW1, was discontinued as per a letter dated June 1, 1998, from the Alameda County Health Care Services. Work was performed in accordance with ERI's groundwater sampling protocol provided in Attachment A.

Based on DTW measurements, the groundwater appears to flow southeast with an average calculated hydraulic gradient of 0.014 (Plate 2). Historical and recent monitoring data are summarized in Table 1.

LABORATORY ANALYSES AND RESULTS

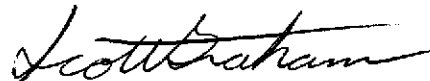
Groundwater samples were submitted to Sequoia Analytical Laboratories (California State Certification Number 1210) in Redwood City, California, under chain of custody protocol. The samples were analyzed for benzene, toluene, ethylbenzene, total xylenes (BTEX), methyl tertiary butyl ether (MTBE), total purgeable petroleum hydrocarbons as gasoline (TPPHg) using the methods listed in the notes in Table 1. The laboratory analysis reports and chain of custody records are provided in Attachment B. Historical and recent results of laboratory analyses 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

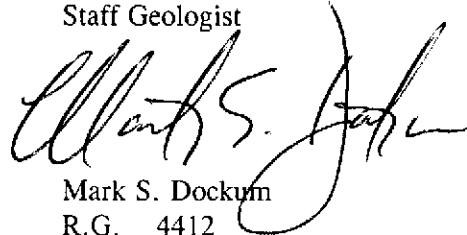
This report was prepared in accordance with generally accepted standards of environmental practice in California at the time this investigation was performed. This report has been prepared for Exxon Company, U.S.A. and any reliance on this report by third parties shall be at such party's sole risk.

If you have any questions or comments regarding this report, please call (415) 382-5989.

Sincerely,
Environmental Resolutions, Inc.



Scott R. Graham
Staff Geologist



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

- 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 1
 CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Exxon Service Station 7-0235
 2225 Telegraph Avenue
 Oakland, California
 (Page 1 of 3)

Well ID # (TOC)	Sampling Date	SUBJ <.....feet.....>	DTW	Elev.	TPPHg <.....>	MTBE <.....>	B ug/L	T	E	X
MW-6B (17.48)	11/26/96	NLPH	12.26	5.22	<50	<30	<0.5	<0.5	<0.5	<0.5
	2/27/97	NLPH	11.73	5.75	<50	<30	<0.5	<0.5	<0.5	0.80
	5/21/97	NLPH	12.70	4.78	<50	<30	<0.5	<0.5	<0.5	<0.5
	8/18/97	NLPH	12.89	4.59	380	<30	4.3	<0.5	1.2	1.5
	3/13/98	NLPH	11.15	6.33	360	<6.2	93	4.9	4.1	12
	4/20/98	NLPH	11.49	5.99	110	5.5	19	1.3	1.5	3.9
(21.37)	✓ 7/21/98	NLPH	12.18	9.19	<50	8.7	0.84	0.59	<0.5	<0.5
	10/6/98	NLPH	12.70	8.67	190	6.0	2.4	0.56	0.51	1.2
MW-6E (17.63)	11/26/96	NLPH	12.94	4.69	<50	<30	1.1	<0.5	<0.5	<0.5
	2/27/97	NLPH	12.28	5.35	<50	<30	<0.5	<0.5	<0.5	<0.5
	5/21/97	NLPH	13.60	4.03	160	<5	10	1.4	5.5	4.8
	8/18/97	NLPH	13.75	3.88	66	<30	<0.5	<0.5	<0.5	<0.5
	3/13/98	NLPH	11.36	6.27	<50	<2.5	<0.5	<0.5	<0.5	<0.5
	4/20/98	NLPH	11.88	5.75	<50	<2.5	<0.5	<0.5	<0.5	<0.5
(21.58)	✓ 7/21/98	NLPH	13.10	8.48	1,200	<10	81	3.1	28	77
	10/6/98	NLPH	13.55	8.03	<50	6.6	1.4	0.51	<0.5	0.97
MW-6F (18.58)	11/26/96	NLPH	13.29	5.29	<50	<30	<0.5	<0.5	<0.5	<0.5
	2/27/97	---	---	---	---	---	---	---	---	---
	5/21/97	NLPH	14.18	4.40	---	---	---	---	---	---
	8/18/97	NLPH	14.69	3.89	---	---	---	---	---	---
	3/13/98	NLPH	10.93	7.65	<50	<2.5	<0.5	<0.5	<0.5	<0.5
	4/20/98	NLPH	11.77	6.81	---	---	---	---	---	---
(22.51)	7/21/98	NLPH	13.62	8.89	---	---	---	---	---	---
	10/6/98	NLPH	13.52	8.99	---	---	---	---	---	---
MW-6G (16.82)	11/26/96	NLPH	11.12	5.70	<50	<30	<0.5	<0.5	<0.5	<0.5
	2/27/97	---	---	---	---	---	---	---	---	---
	5/21/97	NLPH	11.76	5.06	---	---	---	---	---	---
	8/18/97	NLPH	12.23	4.59	---	---	---	---	---	---
	3/13/98	NLPH	9.13	7.69	<50	4.4	<0.5	<0.5	<0.5	<0.5
	4/20/98	NLPH	9.73	7.09	---	---	---	---	---	---
(20.72)	7/21/98	NLPH	11.15	9.57	---	---	---	---	---	---

discontinued

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Exxon Service Station 7-0235
 2225 Telegraph Avenue
 Oakland, California
 (Page 2 of 3)

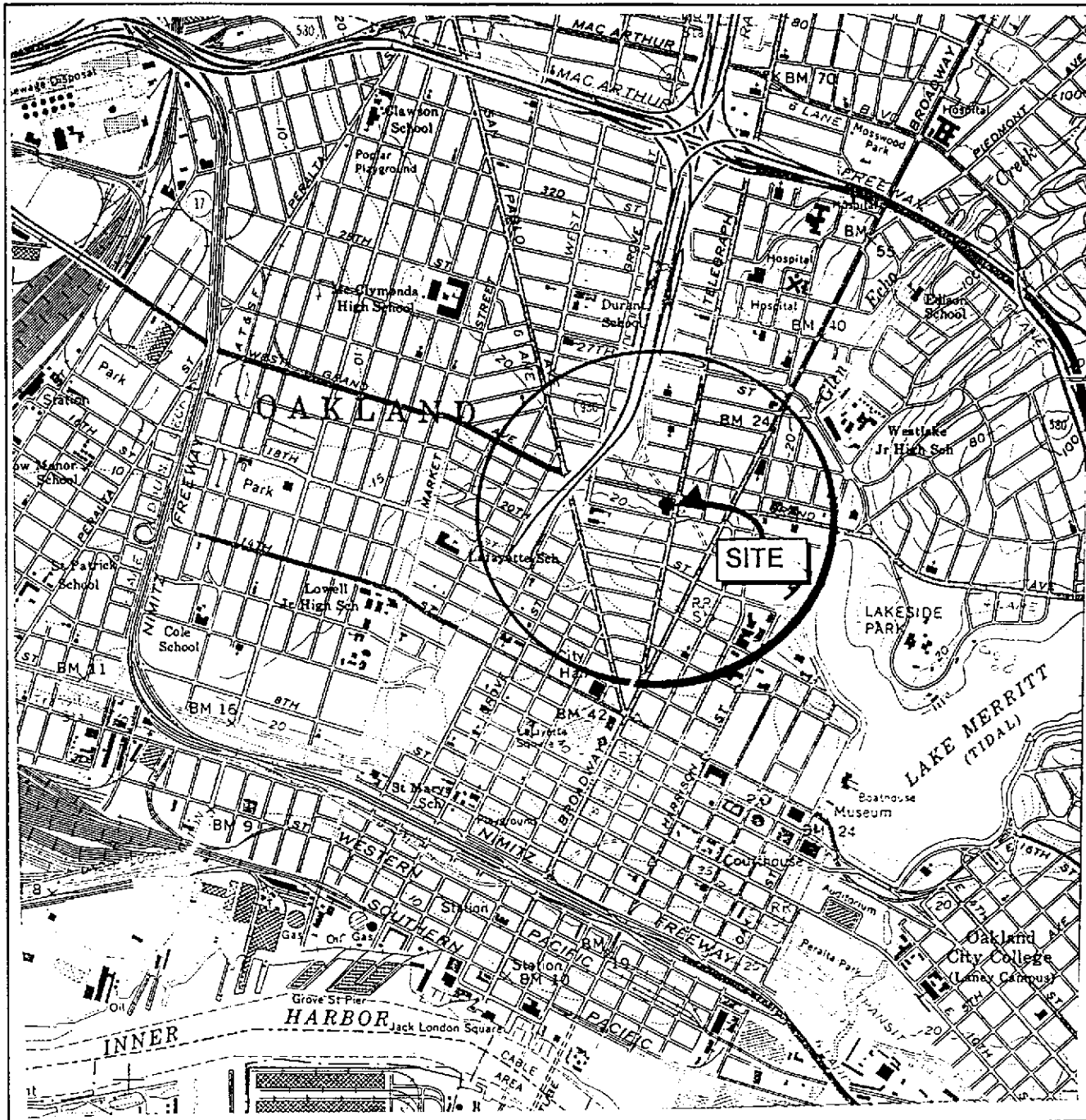
Well ID # (TOC)	Sampling Date	SUBJ <.....feet.....>	DTW	Elev.	TPPHg <.....ug/L.....>	MTBE	B	T	E	X
MW-6G (cont.) (20.72)	10/6/98	NLPH	11.91	8.81	---	---	---	---	---	---
✓ MW-6H (16.58)	11/26/96	NLPH	11.87	4.71	1,200	<30	320	110	22	85
	2/27/97	NLPH	11.58	5.00	1,800	<200	760	31	8.4	44
	5/21/97	NLPH	12.23	4.35	1,100	81	640	18	5.4	45
	8/18/97	NLPH	12.29	4.29	870	26	200	3.6	2.4	7.4
	3/13/98	NLPH	11.44	5.14	5,300	<125	1,900	720	100	470
	4/20/98	NLPH	11.58	5.00	6,000	2,700	1,500	600	91	440
(20.47)	7/21/98	NLPH	11.97	8.50	2,200	1,600	740	44	15	63
	10/6/98	NLPH	12.23	8.24	5,400	3,000	1,900	<25	<25	76
MW-6I (16.26)	11/26/96	NLPH	12.45	3.81	<50	<30	<0.5	<0.5	<0.5	<0.5
	2/27/97	NLPH	12.24	4.02	<50	<30	<0.5	<0.5	<0.5	<0.5
	5/21/97	NLPH	12.82	3.44	<50	<30	<0.5	<0.5	<0.5	<0.5
	8/18/97	NLPH	12.81	3.45	<50	<30	<0.5	<0.5	<0.5	<0.5
	3/13/98	---	---	---	---	---	---	---	---	---
	4/20/98	NLPH	12.14	4.12	<50	<2.5	<0.5	<0.5	<0.5	<0.5
(20.24)	7/21/98	NLPH	12.59	7.65	<50	<2.5	<0.5	<0.5	<0.5	<0.5
	10/6/98	NLPH	12.81	7.43	---	---	---	---	---	---
dis continued RW-1 (16.79) (20.24)	Not Monitored since 6/16/92									
✓ RW-2 (17.02) (20.44)	Not Monitored 6/16/92 through 4/20/98									
	7/21/98	NLPH	12.65	7.79	3,500	170	240	100	41	96
	10/6/98	NLPH	13.06	7.38	3,200	200	120	48	56	120
✓ RW-3A (18.04) (21.75)	Not Monitored 6/16/92 through 4/20/98									
	7/21/98	NLPH	13.08	8.67	280	16	97	<1.2	<1.2	<1.2
	10/6/98	NLPH	13.72	8.03	78	26	26	0.89	<0.5	<0.5

*semi annual
for 3rd p/fos*

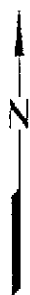
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TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Exxon Service Station 7-0235
2225 Telegraph Avenue
Oakland, California
(Page 3 of 3)

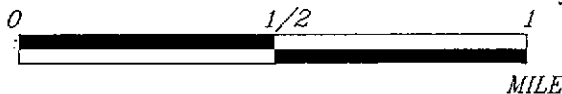
Notes:		
SUBJ	=	Results of subjective evaluation
NLPH	=	No liquid-phase hydrocarbons present in well
TOC	=	Elevation of top of well casing; relative to mean sea level
DTW	=	Depth to water
Elev.	=	Elevation of groundwater surface; relative to mean sea level
TPPHg	=	Total purgeable petroleum hydrocarbons as gasoline analyzed using EPA method 5030/8015 (modified).
MTBE	=	Methyl tertiary butyl ether analyzed using EPA method 5030/8020.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes using EPA method 5030/8020.
<	=	Less than the indicated detection limit shown by the laboratory
--	=	Not measured or sampled
ug/L	=	Micrograms per liter



FN: 22290001



APPROXIMATE SCALE



Source: U.S.G.S. 7.5 minute topographic quadrangle map Oakland West, California (Photorevised 1980)



PROJECT ERI 2229

SITE VICINITY MAP

EXXON SERVICE STATION 7-0235
2225 Telegraph Avenue
Oakland, California

PLATE

1

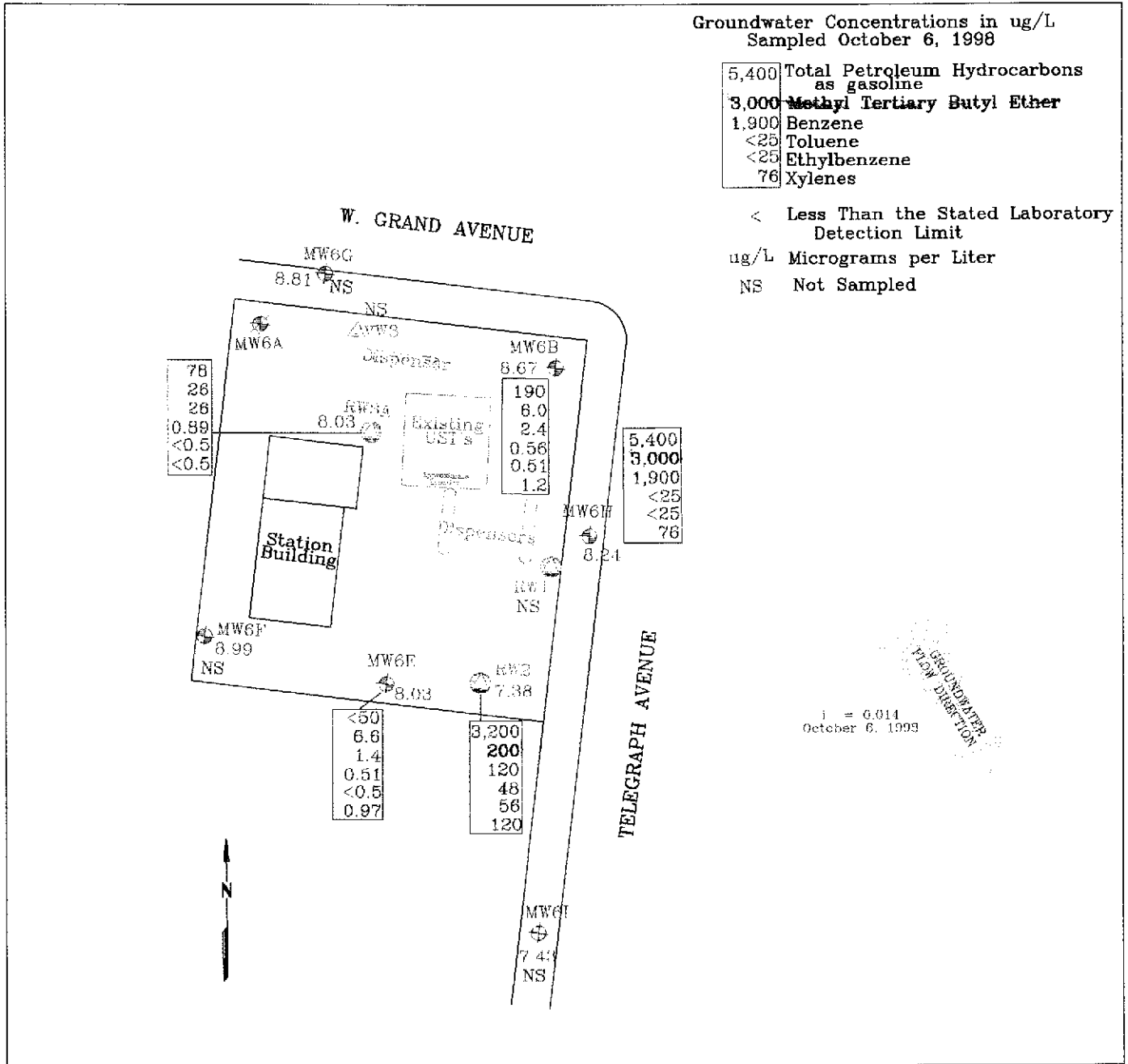
Groundwater Concentrations in ug/L
 Sampled October 6, 1998

5,400	Total Petroleum Hydrocarbons as gasoline
3,000	Methyl Tertiary Butyl Ether
1,900	Benzene
<25	Toluene
<25	Ethylbenzene
76	Xylenes

< Less Than the Stated Laboratory Detection Limit

ug/L Micrograms per Liter

NS Not Sampled



1" = 6014'
 October 6, 1998

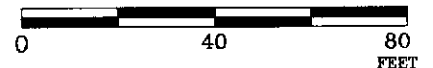
GROUNDWATER
 FLOW DIRECTION

FN 22290002

EXPLANATION

- MW6H Groundwater Monitoring Well
- 8.24 Groundwater elevation in feet above mean sea level
- RW3A Recovery Well
- VW3 Vapor/Vadose Well

APPROXIMATE SCALE



GENERALIZED SITE PLAN

EXXON SERVICE STATION 7-0235
 2225 Telegraph Avenue
 Oakland, California

PROJECT NO.

2229

PLATE

2

November 4, 1998

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 slowly 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 the temperature, pH, and conductivity have stabilized, 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:

one 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 it's 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 REPORTS
AND CHAIN OF CUSTODY RECORD**

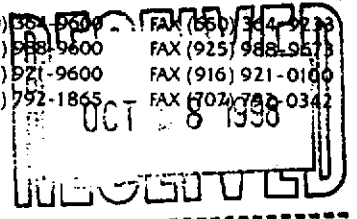


**Sequoia
Analytical**

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(925) 988-9600 FAX (925) 988-9571
(916) 921-9600 FAX (916) 921-0100
(707) 792-1865 FAX (707) 792-0342



Environmental Resolutions 74 Digital Drive, Suite 6 Novato, CA 94949	Client Proj. ID: Exxon 7-0235, 222913X Sample Descript: W-12-MW6B Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9810682-01	Sampled: 10/06/98 Received: 10/08/98 Analyzed: 10/14/98 Reported: 10/24/98
--	---	---

QC Batch Number: GC101498BTEX21A
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	190
Methyl t-Butyl Ether	2.5	6.0
Benzene	0.50	2.4
Toluene	0.50	0.56
Ethyl Benzene	0.50	0.51
Xylenes (Total)	0.50	1.2
Chromatogram Pattern:		GAS

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70	130
		124

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

SEQUOIA ANALYTICAL - ELAP #1210

Mei Mei Shin
Project Manager



Environmental Resolutions 74 Digital Drive, Suite 6 Novato, CA 94949	Client Proj. ID: Exxon 7-0235, 222913X Sample Descript: W-14-RW3A Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9810682-02	Sampled: 10/06/98 Received: 10/08/98 Analyzed: 10/13/98 Reported: 10/24/98
--	---	---

QC Batch Number: GC101398BTEX30A
Instrument ID: GCHP30

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	78
Methyl t-Butyl Ether	2.5	26
Benzene	0.50	26
Toluene	0.50	0.89
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		GAS

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	87

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

SEQUOIA ANALYTICAL - ELAP #1210

Mei Mei Shin
Project Manager



Sequoia Analytical

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Environmental Resolutions 74 Digital Drive, Suite 6 Novato, CA 94949 Attention: Mark Dockum	Client Proj. ID: Exxon 7-0235, 222913X Sample Descript: W-14-MW6E Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9810682-03	Sampled: 10/06/98 Received: 10/08/98 Analyzed: 10/13/98 Reported: 10/24/98
--	---	---

QC Batch Number: GC101398BTEX30A
Instrument ID: GCHP30

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	6.6
Benzene	0.50	1.4
Toluene	0.50	0.51
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	0.97
Chromatogram Pattern:		
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

Mei Mei Shin
Project Manager



Environmental Resolutions 74 Digital Drive, Suite 6 Novato, CA 94949	Client Proj. ID: Exxon 7-0235, 222913X Sample Descript: W-12-MW6H Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9810682-04	Sampled: 10/06/98 Received: 10/08/98 Analyzed: 10/13/98 Reported: 10/24/98
--	---	---

QC Batch Number: GC101398BTEX30A
Instrument ID: GCHP30

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	2500	5400
Methyl t-Butyl Ether	125	3000
Benzene	25	1900
Toluene	25	N.D.
Ethyl Benzene	25	N.D.
Xylenes (Total)	25	76
Chromatogram Pattern:		GAS

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70	130
		100

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

SEQUOIA ANALYTICAL - ELAP #1210

Mei Mei Shin
Project Manager



Environmental Resolutions 74 Digital Drive, Suite 6 Novato, CA 94949	Client Proj. ID: Exxon 7-0235, 222913X Sample Descript: W-13-RW2 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9810682-05	Sampled: 10/06/98 Received: 10/08/98 Analyzed: 10/13/98 Reported: 10/24/98
Attention: Mark Dockum		

QC Batch Number: GC101398BTEX30A
Instrument ID: GCHP30

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	250	3200
Methyl t-Butyl Ether	12	200
Benzene	2.5	120
Toluene	2.5	48
Ethyl Benzene	2.5	56
Xylenes (Total)	2.5	120
Chromatogram Pattern:		GAS

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	137 Q

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

SEQUOIA ANALYTICAL - ELAP #1210

Mei Mei Shin
Project Manager



Sequoia Analytical

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

ENVIRONMENTAL RESOLUTION
74 Digital Dr., Ste. 6
Novato, CA 94949
Attention: Mark Dockum

Client Project ID: EXXON 7-0235, 222913X

QC Sample Group: 9810682

Reported: Oct 24, 1998

QUALITY CONTROL DATA REPORT

Matrix: Liquid
Method: EPA 8020
Analyst: NC

ANALYTE	Benzene	Toluene	Ethylbenzene	Xylenes
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QC Batch #: GC101398BTEX30A

Sample No.: GW9809H95-9

Date Prepared:	10/13/98	10/13/98	10/13/98	10/13/98
Date Analyzed:	10/13/98	10/13/98	10/13/98	10/13/98
Instrument I.D.#:	GCHP30	GCHP30	GCHP30	GCHP30
Sample Conc., ug/L:	N.D.	N.D.	N.D.	N.D.
Conc. Spiked, ug/L:	10	10	10	30
Matrix Spike, ug/L:	11	11	11	35
% Recovery:	110	110	110	117
Matrix Spike Duplicate, ug/L:	11	11	11	34
% Recovery:	110	110	110	113
Relative % Difference:	0.0	0.0	0.0	3.5
RPD Control Limits:	0-25	0-25	0-25	0-25

LCS Batch#: GWLCS101398A

Date Prepared:	10/13/98	10/13/98	10/13/98	10/13/98
Date Analyzed:	10/13/98	10/13/98	10/13/98	10/13/98
Instrument I.D.#:	GCHP30	GCHP30	GCHP30	GCHP30
Conc. Spiked, ug/L:	10	10	10	30
LCS Recovery, ug/L:	11	11	11	33
LCS % Recovery:	110	110	110	110
Percent Recovery Control Limits:				
MS/MSD	60-140	60-140	60-140	60-140
LCS	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

Mei Mei Shin
Project Manager



Sequoia Analytical

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ENVIRONMENTAL RESOLUTION 74 Digital Dr., Ste. 6 Novato, CA 94949 Attention: Mark Dockum	Client Project ID: EXXON 7-0235, 222913X	QC Sample Group: 9810682	Reported: Oct 24, 1998
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QUALITY CONTROL DATA REPORT

Matrix:	Liquid
Method:	EPA 8015
Analyst:	NC/GR
ANALYTE	Gasoline

QC Batch #: GC101498BTEX21A

Sample No.: GW9809186-4

Date Prepared: 10/14/98

Date Analyzed: 10/14/98

Instrument I.D.#: GCHP21

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

Conc. Spiked, ug/L: 250

Matrix Spike, ug/L: 250

% Recovery: 99

Matrix

Spike Duplicate, ug/L: 250

% Recovery: 99

Relative % Difference: 0.0

RPD Control Limits: 0-25

LCS Batch#: GWLCS101498A

Date Prepared: 10/14/98

Date Analyzed: 10/14/98

Instrument I.D.#: GCHP21

Conc. Spiked, ug/L: 250

LCS Recovery, ug/L: 230

LCS % Recovery: 93

Percent Recovery Control Limits:

MS/MSD	60-140
LCS	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.

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Mei Mei Shin
Project Manager



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FAX (707) 792-0342

Environmental Resolutions
74 Digital Drive, Suite 6
Novato, CA 94949
Attention: Mark Dockum

Client Proj. ID: Exxon 7-0235, 222913X

Received: 10/08/98

Lab Proj. ID: 9810682

Reported: 10/24/98

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 9 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

SEQUOIA ANALYTICAL

Mei Mei Shin
Project Manager



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 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: 74 Digital Dr Suite 6 Novato, CA 94949 Site Location: 2225 Telegraph Ave

Project #: _____ Consultant Project #: 222913X Consultant Work Release #: 198202887

Project Contact: Mark Dockum Phone #: (415) 382-9105 Laboratory Work Release #: _____

EXXON Contact: Marla Guensler Phone #: (510) 246-8776 EXXON RAS #: 70235

Sampled by (print): Jennifer Schulte Sampler's Signature: Jen Schulte Oakland, CA

Shipment Method: _____ Air Bill #: _____

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

ANALYSIS REQUIRED

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	Temperature: _____
✓ W-12-MW6B	10/6	1325	Water	UCL	3	9810682 01	0-			0.20	Inbound Seal: Yes No Outbound Seal: Yes No
✓ W-14-RW3A	"	1410				02	0-			-	
✓ W-14-MW6E	"	1520				03	0-			-	
✓ W-12-MW6H	"	1605				04	0-			-	
✓ W-13-RW2	"	1615				05	0-			-	

RELINQUISHED BY / AFFILIATION	Date	Time	ACCEPTED / AFFILIATION	Date	Time	Additional Comments
<u>Jen Schulte / ERI</u>	<u>10/8/88</u>	<u>1616</u>	<u>[Signature] / Sequoia</u>	<u>10/8</u>	<u>1616</u>	
<u>[Signature] / [Signature]</u>	<u>10/8/88</u>		<u>[Signature] / Sequoia</u>	<u>10/8/88</u>	<u>1818</u>	

Pink - Client
Yellow - Sequoia
White - Sequoia