

ExxonMobil
Refining and Supply Company
Downstream - Safety, Health & Environment
Environmental Remediation
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Darin L. Rouse
Senior Engineer
Environmental Remediation

ENVIRONMENTAL
PROTECTION
00 JUL 17 PM 1:20

ExxonMobil
Refining & Supply

#245

✓ MTBE still v. high + going
off site

July 14, 2000

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

RE: **Former Exxon RAS #7-0238/2200 East 12th Street, Oakland, California.**

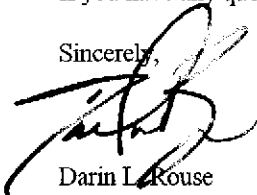
Dear Mr. Chan:

Attached for your review and comment is a letter report entitled *Quarterly Groundwater Monitoring Report, Second Quarter 2000*, dated June 29, 2000, for the above referenced site. The report was prepared by Environmental Resolutions, Inc. (ERI) of Novato, California, and details the results of quarterly groundwater monitoring and sampling activities at the subject site.

As requested by the Alameda County Health Care Services Agency – Department of Environmental Health (the County), a site conceptual model (SCM) is currently being developed by ERI for the site. Also, during second quarter 2000, ERI completed and submitted a groundwater discharge permit for feasibility testing. In third quarter 2000, ERI plans to implement feasibility testing at the site, as well as provide the County with the SCM.

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

Sincerely,

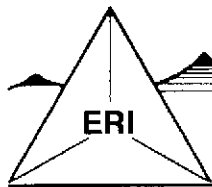


Darin L. Rouse
Senior Engineer

Attachment: ERI's Quarterly Groundwater Monitoring Report, Second Quarter 2000, dated June 29, 2000.

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

w/o attachment
Mr. James F. Chappell - Environmental Resolutions, Inc.



ENVIRONMENTAL RESOLUTIONS, INC.

June 29, 2000
ERI 229313.R09

Mr. Darin L. Rouse
ExxonMobil Refining and Supply
P.O. Box 4032
Concord, California 94524-4032

Subject: Quarterly Groundwater Monitoring Report, Second Quarter 2000, Former
Exxon Service Station 7-0238, 2200 East 12th Street, Oakland, California.

Mr. Rouse:

At the request of ExxonMobil Refining and Supply (formerly known as Exxon Company, U.S.A.) (ExxonMobil), Environmental Resolutions, Inc. (ERI) is reporting the results of the second quarter 2000 groundwater monitoring and sampling event. The location of the site is shown on the Site Vicinity Map (Plate 1). The purpose of quarterly monitoring and sampling is to evaluate concentrations of dissolved hydrocarbons in groundwater and groundwater flow direction and gradient. Blaine Tech Services, Inc. (Blaine Tech) performed the site field activities at the request of ExxonMobil.

GROUNDWATER MONITORING AND SAMPLING

On May 18, 2000, Blaine Tech measured depth to water (DTW) and collected groundwater samples from select monitoring wells for laboratory analysis. Groundwater monitoring and sampling were performed in accordance with Blaine Tech's groundwater sampling protocol (Attachment A).

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

LABORATORY ANALYSES AND RESULTS

Groundwater samples were submitted to Southern Petroleum Laboratories, Inc. (SPL), a California state-certified laboratory, under Chain of Custody protocol. The samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX), methyl tertiary butyl ether (MTBE), and total purgeable petroleum hydrocarbons as gasoline (TPPHg), using the methods listed in the notes in Table 1. The laboratory analysis report and Chain of Custody record are attached (Attachment B). Cumulative 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 ExxonMobil, and any reliance on this report by third parties shall be at such party's sole risk.

ERI recommends forwarding copies of this report to:

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

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

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

Sincerely,
Environmental Resolutions, Inc.



James F. Chappell
Senior Staff Scientist

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

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

TABLE 1
 CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Former Exxon Service Station 7-0238
 2200 East 12th Street
 Oakland, California
 (Page 1 of 5)

Well ID #	Sampling	SUBJ	DTW	Elev.	TPPHg	MTBE	B	T	E	X
(TOC)	Date	<.....>	feet.....>	<.....>	<.....ug/L.....>					
MW9A	11/2/95	NLPH	7.16	4.30	<50	<10	<0.5	<0.5	<0.5	<0.5
(11.46)	4/26/96	NLPH	6.33	5.13	---	---	---	---	---	---
	8/22/96	NLPH	7.02	4.44	---	---	---	---	---	---
	2/24/97	---	---	---	---	---	---	---	---	---
	3/16/98	NLPH	6.14	5.32	<200	40,000	7.9	<2.0	<2.0	<2.0
	4/21/98	NLPH	6.29	5.17	<50	53,000	3.8	<0.5	<0.5	<0.5
(14.53)	7/22/98	NLPH	6.58	7.95	<250	18,000	<2.5	<2.5	<2.5	<2.5
	12/22/98	NLPH	6.47	8.06	<50	5,200	<0.5	<0.5	<0.5	<0.5
	2/26/99	NLPH	6.38	8.15	<100	10,000	<1.0	<1.0	<1.0	<1.0
	5/27/99**	NLPH	6.56	7.97	<5,000	15,300	<50	<50	<50	<50
	8/3/99	NLPH	9.39	5.14	<50	<2.5	<0.5	<0.5	<0.5	<0.5
	12/3/99	NLPH	6.52	8.01	<50	1,400	<0.5	<0.5	<0.5	0.67 ^A
	2/29/00	NLPH	5.31	9.22	<50	20,000	1.2	<0.5	<0.5	<0.5
	5/18/00	NLPH	6.31	8.22	<50	14,000/11,000*	<0.5	<0.5	<0.5	<0.5
MW9B	11/2/95	NLPH	6.14	3.66	130	<10	3.3	<0.5	<0.5	<0.5
(9.80)	4/26/96	NLPH	5.66	4.14	270	70	130	2.8	6.7	<3
	8/22/96	NLPH	6.16	3.64	210	31	5.7	6.8	1.1	9.2
	2/24/97	NLPH	5.58	4.22	1,400	1,300	76	1.4	4.1	1.2
	3/16/98	NLPH	5.32	4.48	860	1,500	140	2.0	11	<2.0
	4/21/98	NLPH	5.49	4.31	1,800	18,000	300	<5.0	7.9	<5.0
(12.83)	7/22/98	NLPH	5.79	7.04	<500	26,000	13	<5.0	<5.0	<5.0
	12/22/98	NLPH	5.69	7.14	700	21,000	110	3.1	9.1	14
	2/26/99	NLPH	5.10	7.73	8,800	8,000	2,000	<25	52	38
	5/18/99	NLPH	5.65	7.18	<10,000	42,100	158	<100	<100	<100
	8/3/99	NLPH	6.24	6.59	960	24,900	<5.0	<5.0	<5.0	<5.0
	12/3/99	NLPH	5.66	7.17	<50	1,000	<0.5	<0.5	<0.5	<0.5
	2/29/00	NLPH	4.61	8.22	3,100	25,000	900	7	23	7.1
	5/18/00	NLPH	5.54	7.29	780	34,000/26,000*	150	<2.5	4.5	<2.5

TABLE 1
 CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Former Exxon Service Station 7-0238
 2200 East 12th Street
 Oakland, California
 (Page 2 of 5)

Well ID # (TOC)	Sampling Date	SUBI <.....feet.....>	DTW	Elev.	TPPHg <.....>	MTBE	B ug/L.....>	T	E	X
(11.14)	11/2/95	---	---	---	---	---	---	---	---	---
	4/26/96	---	---	---	---	---	---	---	---	---
	8/22/96	---	---	---	---	---	---	---	---	---
	2/24/97	---	---	---	---	---	---	---	---	---
	3/16/98	NLPH	5.51	5.63	<500	150,000	24	<5.0	<5.0	<5.0
	4/21/98	NLPH	5.83	5.31	150	130,000/150,000*	<0.5	<0.5	<0.5	<0.5
	7/22/98	NLPH	6.43	7.76	<500	95,000	<5.0	<5.0	<5.0	<5.0
	12/22/98	NLPH	6.16	8.03	<500	84,000	<5.0	<5.0	<5.0	<5.0
	2/26/99	NLPH	5.46	8.73	<250	55,000	<2.5	<2.5	<2.5	<2.5
	5/18/99	NLPH	6.27	7.92	<25,000	68,900	<250	<250	<250	<250
	8/3/99	NLPH	7.13	7.06	210	69,200	<1.0	1.3	<1.0	<1.0
	12/3/99	NLPH	6.17	8.02	290	50,000	<2.5	<2.5	<2.5	<2.5
	2/29/00	NLPH	4.49	9.70	<250	40,000	<2.5	<2.5	<2.5	<2.5
	5/18/00	NLPH	5.96	8.23	<250	46,000/33,000	<2.5	<2.5	<2.5	<2.5
(15.98)	11/2/95	---	---	---	---	---	---	---	---	---
	4/26/96	---	---	---	---	---	---	---	---	---
	8/22/96	---	---	---	---	---	---	---	---	---
	2/24/97	---	---	---	---	---	---	---	---	---
	3/16/98	NLPH	6.94	5.96	<50	10	<0.5	<0.5	<0.5	<0.5
	4/21/98	NLPH	7.22	5.68	<50	12	<0.5	<0.5	<0.5	<0.5
	7/22/98	NLPH	7.85	8.13	<50	13	<0.5	<0.5	<0.5	<0.5
	12/22/98	NLPH	7.58	8.40	<50	12	<0.5	<0.5	<0.5	<0.5
	2/26/99	NLPH	6.42	9.56	<50	310	<0.5	<0.5	<0.5	<0.5
	5/18/99	NLPH	6.55	9.43	<2,500	13,500	<25	<25	<25	<25
	8/3/99	NLPH	8.34	7.64	<50	<2.5	<0.5	<0.5	<0.5	<0.5
	12/3/99	NLPH	7.56	8.42	<50	<2	<0.5	<0.5	<0.5	<0.5
	2/29/00	NLPH	4.82	11.16	<50	2.5	<0.5	<0.5	<0.5	<0.5
	5/18/00	NLPH	7.40	8.58	<50	6.2	<0.5	<0.5	<0.5	<0.5

TABLE 1
 CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Former Exxon Service Station 7-0238
 2200 East 12th Street
 Oakland, California
 (Page 3 of 5)

Well ID # (TOC)	Sampling Date	SUBJ <.....>	DTW feet	Elev.	TPPHg <.....>	MTBE	B ug/L	T	E	X
MW9F	11/2/95	---	---	---	---	---	---	---	---	---
(8.37)	4/26/96	NLPH	---	---	<50	57	<0.5	<0.5	<0.5	<0.5
	8/22/96	NLPH	---	---	<50	5.8	<0.5	<0.5	<0.5	<0.5
	2/24/97	NLPH	---	---	<50	<30	<0.5	<0.5	<0.5	<0.5
	3/16/98	NLPH	---	---	---	---	---	---	---	---
	4/21/98	---	---	---	---	---	---	---	---	---
(11.38)	7/22/98	---	---	---	---	---	---	---	---	---
	12/22/98	NLPH	5.47	5.91	<50	81	<0.5	<0.5	<0.5	<0.5
	2/26/99	NLPH	5.35	6.03	<50	<2.5	<0.5	<0.5	<0.5	<0.5
	5/18/99	NLPH	5.62	5.76	<50	61.6	<0.5	<0.5	<0.5	<0.5
	8/3/99	NLPH	6.32	5.06	<50	3.10	<0.5	<0.5	<0.5	<0.5
	12/3/99	NLPH	5.59	5.79	<50	<2	<0.5	<0.5	0.71	<0.5
	2/29/00	NLPH	4.70	6.68	<50	52	<0.5	<0.5	<0.5	<0.5
	5/18/00	NLPH	5.37	6.01	<50	65	<0.5	<0.5	<0.5	<0.5
MW9G	11/2/95	NLPH	5.92	4.03	<50	<10	<0.5	<0.5	<0.5	<0.5
(9.95)	4/26/96	NLPH	5.28	4.67	<50	18	<0.5	<0.5	<0.5	<0.5
	8/22/96	NLPH	5.57	4.38	<50	18	<0.5	<0.5	<0.5	<0.5
	2/24/97	NLPH	5.30	4.65	<50	240	<0.5	0.57	<0.5	0.62
	3/16/98	---	---	---	---	---	---	---	---	---
	4/21/98	---	---	---	---	---	---	---	---	---
(12.99)	7/22/98	---	---	---	---	---	---	---	---	---
	12/22/98	NLPH	5.28	7.71	<50	1,100	<0.5	<0.5	<0.5	<0.5
	2/26/99	NLPH	5.31	7.68	<50	50	<0.5	<0.5	<0.5	<0.5
	5/18/99	NLPH	5.18	7.81	<1,000	3,990	<10	<10	<10	<10
	8/3/99	NLPH	6.00	6.99	<50	1,340	<0.5	<0.5	<0.5	<0.5
	12/3/99	NLPH	5.27	7.72	<50	<2	<0.5	<0.5	<0.5	0.55 ^A
	2/29/00	NLPH	4.60	8.39	<50	7,900	<0.5	<0.5	<0.5	<0.5
	5/18/00	NLPH	5.16	7.83	<50	2,400	<0.5	<0.5	<0.5	<0.5

TABLE 1
 CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Former Exxon Service Station 7-0238
 2200 East 12th Street
 Oakland, California
 (Page 4 of 5)

Well ID # (TOC)	Sampling Date	SUBJ <.....>	DTW feet	Elev.	TPPHg <.....>	MTBE	B ug/L	T	E	X
(8.58)	11/2/95	NLPH	8.40	0.18	<50	<10	<0.5	<0.5	<0.5	<0.5
	4/26/96	NLPH	8.05	0.53	---	---	---	---	---	---
	8/22/96	NLPH	8.17	0.41	---	---	---	---	---	---
	2/24/97	---	---	---	---	---	---	---	---	---
	3/16/98	---	---	---	---	---	---	---	---	---
	4/21/98	---	---	---	---	---	---	---	---	---
	7/22/98	---	---	---	---	---	---	---	---	---
	12/22/98	NLPH	7.81	3.80	<50	<2.5	<0.5	<0.5	<0.5	<0.5
	2/26/99	NLPH	7.61	4.00	<50	<2.5	<0.5	<0.5	<0.5	<0.5
	5/18/99	NLPH	8.00	3.61	<50	3.98	<0.5	<0.5	<0.5	<0.5
	8/3/99	NLPH	6.05	5.56	<50	<2.5	<0.5	<0.5	<0.5	<0.5
	12/3/99	NLPH	5.32	6.29	<50	<2	<0.5	<0.5	<0.5	0.57 ^A
	2/29/00	NLPH	7.10	4.51	<50	<2	<0.5	<0.5	<0.5	<0.5
	5/18/00	NLPH	7.84	3.77	<50	9.7	<0.5	<0.5	<0.5	<0.5
	(10.11)	11/2/95	NLPH	6.04	4.07	<50	<10	<0.5	<0.5	<0.5
4/26/96		NLPH	5.27	4.84	<50	99	<0.5	<0.5	<0.5	<0.5
8/22/96		NLPH	5.66	4.45	<50	170	<0.5	<0.5	<0.5	<0.5
2/24/97		NLPH	5.24	4.87	120	9,100	<0.5	<0.5	<0.5	<0.5
3/16/98		NLPH	4.91	5.20	<200	59,000	13	<2.0	<2.0	<2.0
4/21/98		NLPH	5.08	5.03	<500	59,000	<5.0	<5.0	<5.0	<5.0
7/22/98		NLPH	5.44	7.70	<500	62,000	<5.0	<5.0	<5.0	<5.0
12/22/98		NLPH	5.32	7.82	200	51,000	1.7	<0.5	<0.5	<0.5
2/26/99		NLPH	4.71	8.43	<500	9,700	<5.0	<5.0	<5.0	<5.0
5/18/99		NLPH	5.30	7.84	<1,000	3,730	<10	<10	<10	<10
8/3/99		NLPH	5.98	7.16	<50	21,900	<0.5	0.650	<0.5	<0.5
12/3/99		NLPH	5.31	7.83	<250	2,000	3.9	2.9	<2.5	14
2/29/00		NLPH	4.20	8.94	50	16,000	0.74	<0.5	<0.5	<0.5
5/18/00		NLPH	5.12	8.02	<50	2,900	<0.5	<0.5	<0.5	<0.5
(11.61)		11/2/95	NLPH	6.04	4.07	<50	<10	<0.5	<0.5	<0.5
	4/26/96	NLPH	5.27	4.84	<50	99	<0.5	<0.5	<0.5	<0.5
	8/22/96	NLPH	5.66	4.45	<50	170	<0.5	<0.5	<0.5	<0.5
	2/24/97	NLPH	5.24	4.87	120	9,100	<0.5	<0.5	<0.5	<0.5
	3/16/98	NLPH	4.91	5.20	<200	59,000	13	<2.0	<2.0	<2.0
	4/21/98	NLPH	5.08	5.03	<500	59,000	<5.0	<5.0	<5.0	<5.0
	7/22/98	NLPH	5.44	7.70	<500	62,000	<5.0	<5.0	<5.0	<5.0
	12/22/98	NLPH	5.32	7.82	200	51,000	1.7	<0.5	<0.5	<0.5
	2/26/99	NLPH	4.71	8.43	<500	9,700	<5.0	<5.0	<5.0	<5.0
	5/18/99	NLPH	5.30	7.84	<1,000	3,730	<10	<10	<10	<10
	8/3/99	NLPH	5.98	7.16	<50	21,900	<0.5	0.650	<0.5	<0.5
	12/3/99	NLPH	5.31	7.83	<250	2,000	3.9	2.9	<2.5	14
	2/29/00	NLPH	4.20	8.94	50	16,000	0.74	<0.5	<0.5	<0.5
	5/18/00	NLPH	5.12	8.02	<50	2,900	<0.5	<0.5	<0.5	<0.5

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA

Former Exxon Service Station 7-0238

2200 East 12th Street

Oakland, California

(Page 5 of 5)

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 8021B.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA method 8021B.
<	=	Less than the indicated detection limit shown by the laboratory.
---	=	Not measured or sampled.
*	=	MTBE confirmed using EPA method 8260.
**	=	Miscalculation in field. Field technician may have inadvertently monitored and sampled the wrong well. Resampled 5/27/99.
A	=	Analyte detected in the associated Trip Blank at 0.52 ug/L.



3-D TopoQuads Copyright © 1999 DeLorme Vermont, ME 04004 Source Data: USGS 1:50,000 Scale: 1:25,000 Cont: 2.0 Datum: WGS84

FN 2293TOPO

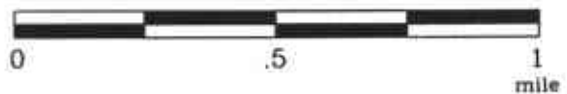
EXPLANATION



1/2-mile radius circle



APPROXIMATE SCALE



SOURCE:
Modified from a map
provided by
DeLorme 3-D TopoQuads

SITE VICINITY MAP

FORMER EXXON SERVICE STATION 7-0238
2200 East 12th Street
Oakland, California

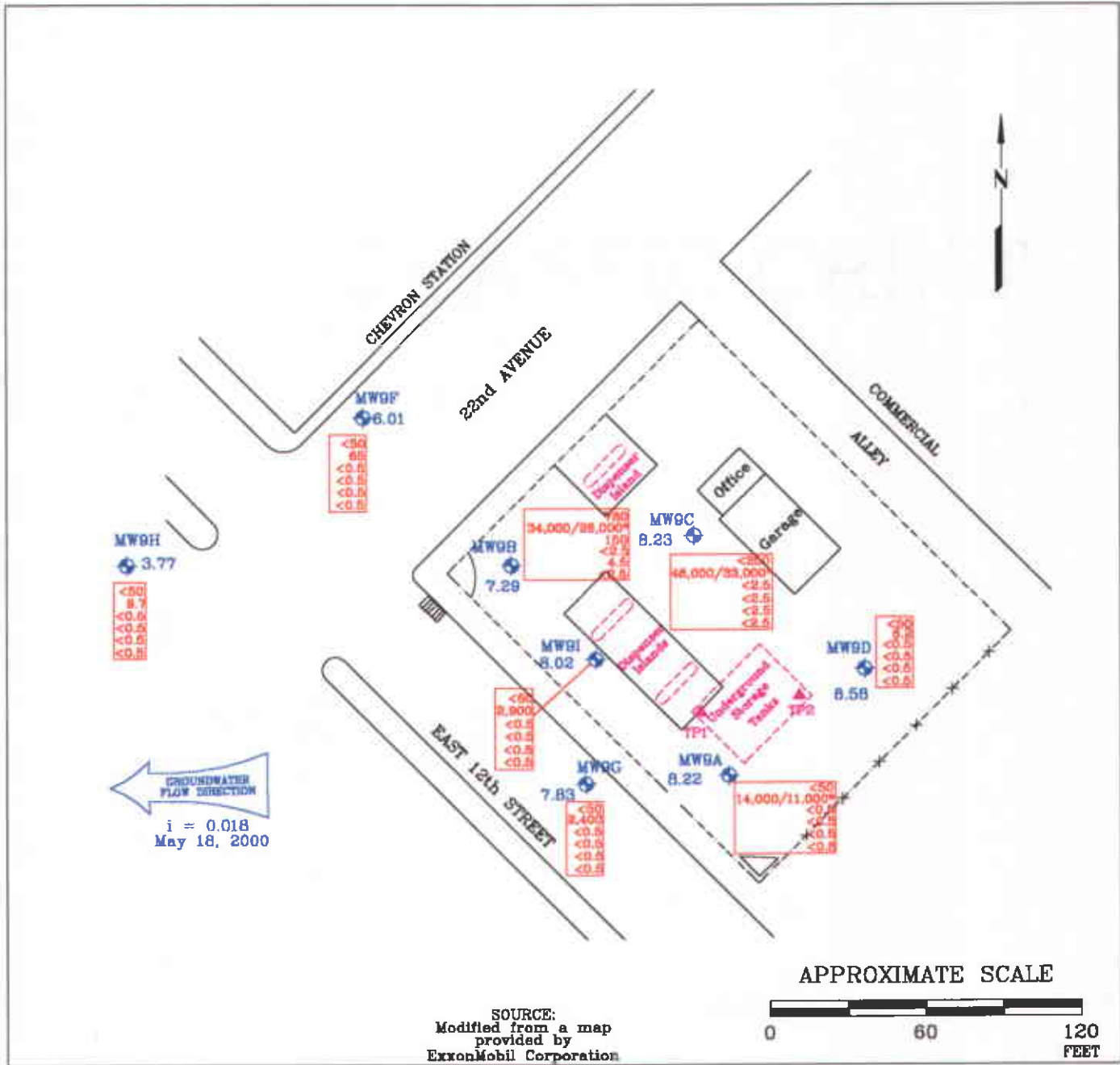
PROJECT NO.

2293

PLATE

1





SOURCE:
Modified from a map
provided by
ExxonMobil Corporation

FN 22930002

EXPLANATION

- MW9I
Groundwater Monitoring Well
- 02
Groundwater elevation in feet above mean sea level
- i =
Interpreted Groundwater Gradient
- TP2
UST Observation Well
- SEWER DISCHARGE LOCATION

Groundwater Concentrations in ug/L
Sampled May 18, 2000

780	Total Purgeable Petroleum Hydrocarbons as gasoline
34,000/28,000*	Methyl Tertiary Butyl Ether
150	Benzene
<2.5	Toluene
4.5	Ethylbenzene
<2.5	Total Xylenes

- ug/L Micrograms per Liter (ug/L)
- < Less Than the Stated Laboratory Detection Level
- * MTBE confirmed using EPA Method 8260B.



GENERALIZED SITE PLAN

FORMER EXXON SERVICE STATION 7-0238
2200 East 12th Street
Oakland, California

PROJECT NO.

2293

PLATE

2

June 5, 2000

ATTACHMENT A
GROUNDWATER SAMPLING PROTOCOL

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

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

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

SAMPLING PROCEDURES OVERVIEW

SAFETY

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

INSPECTION AND GAUGING

Wells are inspected prior to evacuation and sampling. The condition of the wellhead is checked and noted according to a wellhead inspection checklist. Each wellcap is removed prior to gauging to allow the water level to equilibrate for at least 15 minutes.

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

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

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

EVACUATION

Depth to water measurements are collected by our personnel prior to purging and minimum purge volumes are calculated anew for each well based on the height of the water column and the diameter of the well. Expected purge volumes are never less than three case volumes and are set at no less than four case volumes in some jurisdictions.

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

PARAMETER STABILIZATION

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

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

DEWATERED WELLS

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

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

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

PURGEWATER CONTAINMENT

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

Non hazardous purgewater is transported under standard Bill of Lading documentation to a

Blaine Tech Services, Inc. facility before being transported to an Exxon approved disposal facility (e.g. Romic Environmental Technologies Corporation in East Palo Alto, California).

SAMPLE COLLECTION DEVICES

All samples are collected using a disposable bailer.

SAMPLE CONTAINERS

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

TRIP BLANKS

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

SAMPLE STORAGE

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

DOCUMENTATION CONVENTIONS

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

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

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

DECONTAMINATION

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

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

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

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

DISSOLVED OXYGEN READINGS

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

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

OXYIDATON REDUCTION POTENTIAL READINGS

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

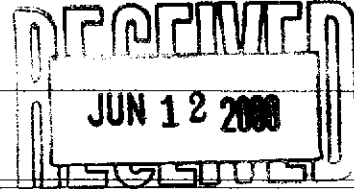
ATTACHMENT B

**LABORATORY ANALYSIS REPORT
AND CHAIN OF CUSTODY RECORD**



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

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



Certificate of Analysis Number:
 00050618

<p>Report To:</p> <p>Environmental Resolution, Inc. Jim Chappell 73 Digital Drive Suite 100</p> <p>Novato California 94949- ph: (415) 382-9105 fax: (415) 382-1856</p>	<p>Project Name: 2293</p> <p>Site: 7-0238, 19900938</p> <p>Site Address: 2200 E. 12th Street Oakland CA</p> <p>PO Number: EWR#20005128</p> <p>State: California</p> <p>State Cert. No.:</p> <p>Date Reported: 6/6/00</p>
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Any data flags or quality control exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

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

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

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

Sonia West
 West, Sonia
 Senior Project Manager

6/6/00

Date



EXXON Company U.S.A.

Certificate of Analysis Number:
00050618

Report To: Environmental Resolution, Inc. Jim Chappell 73 Digital Drive Suite 100 Novato California 94949- ph: (415) 382-9105 fax: (415) 382-1856	Project Name: 2293 Site: 7-0238,19900938 Site Address: 2200 E. 12th Street Oakland CA PO Number: EWR#20005128 State: California State Cert. No.: Date Reported: 6/6/00
Work To: Environmental Resolution, Inc. Jim Chappell fax: (415) 382-1856	

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
MW-9A	00050618-01	Water	5/18/00 1:44:00 PM	5/20/00 10:00:00 AM		<input type="checkbox"/>
MW-9A	00050618-01	Water	5/18/00 1:44:00 PM	5/20/00 10:00:00 AM		<input checked="" type="checkbox"/>
MW-9B	00050618-02	Water	5/18/00 2:45:00 PM	5/20/00 10:00:00 AM		<input type="checkbox"/>
MW-9B	00050618-02	Water	5/18/00 2:45:00 PM	5/20/00 10:00:00 AM		<input checked="" type="checkbox"/>
MW-9C	00050618-03	Water	5/18/00 3:05:00 PM	5/20/00 10:00:00 AM		<input type="checkbox"/>
MW-9C	00050618-03	Water	5/18/00 3:05:00 PM	5/20/00 10:00:00 AM		<input checked="" type="checkbox"/>
MW-9D	00050618-04	Water	5/18/00 2:40:00 PM	5/20/00 10:00:00 AM		<input type="checkbox"/>
MW-9F	00050618-05	Water	5/18/00 2:20:00 PM	5/20/00 10:00:00 AM		<input type="checkbox"/>
MW-9G	00050618-06	Water	5/18/00 2:07:00 PM	5/20/00 10:00:00 AM		<input type="checkbox"/>
MW-9H	00050618-07	Water	5/18/00 1:55:00 PM	5/20/00 10:00:00 AM		<input type="checkbox"/>
MW-9I	00050618-08	Water	5/18/00 2:26:00 PM	5/20/00 10:00:00 AM		<input type="checkbox"/>
MW-9I	00050618-08	Water	5/18/00 2:26:00 PM	5/20/00 10:00:00 AM		<input checked="" type="checkbox"/>
TL	00050618-09	Water	5/18/00	5/20/00 10:00:00 AM		<input type="checkbox"/>

Sonia West

6/6/00

West, Sonia
 Senior Project Manager

Date

Joel Grice
 Laboratory Director

Ted Yen
 Quality Assurance Officer



Client Sample ID: MW-9A

Collected: 5/18/00 1:44:00

SPL Sample ID: 00050618-01

Site: 7-0238,19900938

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS			MCL	CA_GRO	Units: ug/L		
Gasoline Range Organics	ND	50	1		05/21/00 4:22	WR	286088
Surr: 1,4-Difluorobenzene	113	% 62-144	1		05/21/00 4:22	WR	286088
Surr: 4-Bromofluorobenzene	110	% 44-153	1		05/21/00 4:22	WR	286088
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	0.5	1		05/21/00 4:22	WR	286103
Ethylbenzene	ND	0.5	1		05/21/00 4:22	WR	286103
Methyl tert-butyl ether	14000	100	50		05/22/00 12:56	WR	286594
Toluene	ND	0.5	1		05/21/00 4:22	WR	286103
m,p-Xylene	ND	0.5	1		05/21/00 4:22	WR	286103
o-Xylene	ND	0.5	1		05/21/00 4:22	WR	286103
Xylenes, Total	ND	0.5	1		05/21/00 4:22	WR	286103
Surr: 1,4-Difluorobenzene	102	% 72-137	50		05/22/00 12:56	WR	286594
Surr: 1,4-Difluorobenzene	114	% 72-137	1		05/21/00 4:22	WR	286103
Surr: 4-Bromofluorobenzene	104	% 48-156	50		05/22/00 12:56	WR	286594
Surr: 4-Bromofluorobenzene	104	% 48-156	1		05/21/00 4:22	WR	286103
VOLATILE ORGANICS METHOD 8260B			MCL	SW8260B	Units: ug/L		
Methyl tert-butyl ether	11000	500	100		05/26/00 19:05	NL	294561
Surr: 1,2-Dichloroethane-d4	90.0	% 80-120	100		05/26/00 19:05	NL	294561
Surr: 4-Bromofluorobenzene	96.0	% 86-115	100		05/26/00 19:05	NL	294561
Surr: Toluene-d8	114	% 88-110	100	*	05/26/00 19:05	NL	294561

Sonia West

West, Sonia
 Project Manager

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



Client Sample ID: MW-9B

Collected: 5/18/00 2:45:00

SPL Sample ID: 00050618-02

Site: 7-0238,19900938

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS			MCL	CA_GRO	Units: ug/L		
Gasoline Range Organics	780	250	5		05/21/00 3:33	WR	286086
Surr: 1,4-Difluorobenzene	125	% 62-144	5		05/21/00 3:33	WR	286086
Surr: 4-Bromofluorobenzene	140	% 44-153	5		05/21/00 3:33	WR	286086
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	150	2.5	5		05/21/00 3:33	WR	286101
Ethylbenzene	4.5	2.5	5		05/21/00 3:33	WR	286101
Methyl tert-butyl ether	34000	200	100		05/22/00 13:20	WR	288463
Toluene	ND	2.5	5		05/21/00 3:33	WR	286101
m,p-Xylene	ND	2.5	5		05/21/00 3:33	WR	286101
o-Xylene	ND	2.5	5		05/21/00 3:33	WR	286101
Xylenes, Total	ND	2.5	5		05/21/00 3:33	WR	286101
Surr: 1,4-Difluorobenzene	99.2	% 72-137	100		05/22/00 13:20	WR	288463
Surr: 1,4-Difluorobenzene	106	% 72-137	5		05/21/00 3:33	WR	286101
Surr: 4-Bromofluorobenzene	105	% 48-156	100		05/22/00 13:20	WR	288463
Surr: 4-Bromofluorobenzene	113	% 48-156	5		05/21/00 3:33	WR	286101
VOLATILE ORGANICS METHOD 8260B			MCL	SW8260B	Units: ug/L		
Methyl tert-butyl ether	26000	2500	500		05/25/00 22:26	NL	294378
Surr: 1,2-Dichloroethane-d4	84.0	% 80-120	500		05/25/00 22:26	NL	294378
Surr: 4-Bromofluorobenzene	96.0	% 86-115	500		05/25/00 22:26	NL	294378
Surr: Toluene-d8	112	% 88-110	500	*	05/25/00 22:26	NL	294378

Sonia West

West, Sonia
Project Manager

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J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



Client Sample ID: MW-9C

Collected: 5/18/00 3:05:00

SPL Sample ID: 00050618-03

Site: 7-0238,19900938

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS			MCL	CA_GRO	Units: ug/L		
Gasoline Range Organics	ND	250	5		05/21/00 3:57	WR	286087
Surr: 1,4-Difluorobenzene	115	% 62-144	5		05/21/00 3:57	WR	286087
Surr: 4-Bromofluorobenzene	110	% 44-153	5		05/21/00 3:57	WR	286087
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	2.5	5		05/21/00 3:57	WR	286102
Ethylbenzene	ND	2.5	5		05/21/00 3:57	WR	286102
Methyl tert-butyl ether	46000	200	100		05/22/00 11:43	WR	286570
Toluene	ND	2.5	5		05/21/00 3:57	WR	286102
m,p-Xylene	ND	2.5	5		05/21/00 3:57	WR	286102
o-Xylene	ND	2.5	5		05/21/00 3:57	WR	286102
Xylenes, Total	ND	2.5	5		05/21/00 3:57	WR	286102
Surr: 1,4-Difluorobenzene	101	% 72-137	100		05/22/00 11:43	WR	286570
Surr: 1,4-Difluorobenzene	107	% 72-137	5		05/21/00 3:57	WR	286102
Surr: 4-Bromofluorobenzene	103	% 48-156	100		05/22/00 11:43	WR	286570
Surr: 4-Bromofluorobenzene	103	% 48-156	5		05/21/00 3:57	WR	286102
VOLATILE ORGANICS METHOD 8260B			MCL	SW8260B	Units: ug/L		
Methyl tert-butyl ether	33000	5000	1000		05/25/00 21:59	NL	294376
Surr: 1,2-Dichloroethane-d4	88.0	% 80-120	1000		05/25/00 21:59	NL	294376
Surr: 4-Bromofluorobenzene	100	% 86-115	1000		05/25/00 21:59	NL	294376
Surr: Toluene-d8	114	% 88-110	1000	*	05/25/00 21:59	NL	294376

Sonia West

West, Sonia
Project Manager

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D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



Client Sample ID: MW-9D

Collected: 5/18/00 2:40:00

SPL Sample ID: 00050618-04

Site: 7-0238,19900938

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS			MCL	CA_GRO	Units: ug/L		
Gasoline Range Organics	ND	50	1		05/21/00 1:31	WR	286079
Surr: 1,4-Difluorobenzene	108	% 62-144	1		05/21/00 1:31	WR	286079
Surr: 4-Bromofluorobenzene	109	% 44-153	1		05/21/00 1:31	WR	286079
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	0.5	1		05/21/00 1:31	WR	286097
Ethylbenzene	ND	0.5	1		05/21/00 1:31	WR	286097
Methyl tert-butyl ether	6.2	2	1		05/21/00 1:31	WR	286097
Toluene	ND	0.5	1		05/21/00 1:31	WR	286097
m,p-Xylene	ND	0.5	1		05/21/00 1:31	WR	286097
o-Xylene	ND	0.5	1		05/21/00 1:31	WR	286097
Xylenes, Total	ND	0.5	1		05/21/00 1:31	WR	286097
Surr: 1,4-Difluorobenzene	102	% 72-137	1		05/21/00 1:31	WR	286097
Surr: 4-Bromofluorobenzene	104	% 48-156	1		05/21/00 1:31	WR	286097

Sonia West

West, Sonia
 Project Manager

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 B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
 * - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
 J - Estimated Value between MDL and PQL



Client Sample ID: MW-9F

Collected: 5/18/00 2:20:00

SPL Sample ID: 00050618-05

Site: 7-0238,19900938

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS			MCL	CA_GRO	Units: ug/L		
Gasoline Range Organics	ND	50	1		05/21/00 1:55	WR	286080
Surr: 1,4-Difluorobenzene	110	% 62-144	1		05/21/00 1:55	WR	286080
Surr: 4-Bromofluorobenzene	110	% 44-153	1		05/21/00 1:55	WR	286080
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	0.5	1		05/21/00 1:55	WR	286098
Ethylbenzene	ND	0.5	1		05/21/00 1:55	WR	286098
Methyl tert-butyl ether	65	2	1		05/21/00 1:55	WR	286098
Toluene	ND	0.5	1		05/21/00 1:55	WR	286098
m,p-Xylene	ND	0.5	1		05/21/00 1:55	WR	286098
o-Xylene	ND	0.5	1		05/21/00 1:55	WR	286098
Xylenes, Total	ND	0.5	1		05/21/00 1:55	WR	286098
Surr: 1,4-Difluorobenzene	101	% 72-137	1		05/21/00 1:55	WR	286098
Surr: 4-Bromofluorobenzene	102	% 48-156	1		05/21/00 1:55	WR	286098

Sonia West

West, Sonia
 Project Manager

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



Client Sample ID: MW-9G

Collected: 5/18/00 2:07:00

SPL Sample ID: 00050618-06

Site: 7-0238,19900938

Analyses/Method	Result	Rep.Limit	MCL	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS			MCL	CA_GRO		Units: ug/L		
Gasoline Range Organics	ND	50		1		05/21/00 2:20	WR	286083
Surr: 1,4-Difluorobenzene	108	% 62-144		1		05/21/00 2:20	WR	286083
Surr: 4-Bromofluorobenzene	109	% 44-153		1		05/21/00 2:20	WR	286083
PURGEABLE AROMATICS			MCL	SW8021B		Units: ug/L		
Benzene	ND	0.5		1		05/21/00 2:20	WR	286099
Ethylbenzene	ND	0.5		1		05/21/00 2:20	WR	286099
Methyl tert-butyl ether	2400	20		10		05/22/00 12:07	WR	286571
Toluene	ND	0.5		1		05/21/00 2:20	WR	286099
m,p-Xylene	ND	0.5		1		05/21/00 2:20	WR	286099
o-Xylene	ND	0.5		1		05/21/00 2:20	WR	286099
Xylenes, Total	ND	0.5		1		05/21/00 2:20	WR	286099
Surr: 1,4-Difluorobenzene	101	% 72-137		10		05/22/00 12:07	WR	286571
Surr: 1,4-Difluorobenzene	104	% 72-137		1		05/21/00 2:20	WR	286099
Surr: 4-Bromofluorobenzene	104	% 48-156		10		05/22/00 12:07	WR	286571
Surr: 4-Bromofluorobenzene	101	% 48-156		1		05/21/00 2:20	WR	286099

Sonia West

West, Sonia
 Project Manager

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



Client Sample ID: MW-9H

Collected: 5/18/00 1:55:00

SPL Sample ID: 00050618-07

Site: 7-0238,19900938

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS			MCL	CA_GRO	Units: ug/L		
Gasoline Range Organics	ND	50	1		05/21/00 2:44	WR	286084
Surr: 1,4-Difluorobenzene	110	% 62-144	1		05/21/00 2:44	WR	286084
Surr: 4-Bromofluorobenzene	111	% 44-153	1		05/21/00 2:44	WR	286084
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	0.5	1		05/22/00 10:30	WR	286173
Ethylbenzene	ND	0.5	1		05/22/00 10:30	WR	286173
Methyl tert-butyl ether	9.7	2	1		05/22/00 10:30	WR	286173
Toluene	ND	0.5	1		05/22/00 10:30	WR	286173
m,p-Xylene	ND	0.5	1		05/22/00 10:30	WR	286173
o-Xylene	ND	0.5	1		05/22/00 10:30	WR	286173
Xylenes, Total	ND	0.5	1		05/22/00 10:30	WR	286173
Surr: 1,4-Difluorobenzene	99.3	% 72-137	1		05/22/00 10:30	WR	286173
Surr: 4-Bromofluorobenzene	102	% 48-156	1		05/22/00 10:30	WR	286173

Sonia West

West, Sonia
 Project Manager

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

>MCL - Result Over Maximum Contamination Limit(MCL)
 D - Surrogate Recovery Unreportable due to Dilution
 MI - Matrix Interference



Client Sample ID: MW-9I

Collected: 5/18/00 2:26:00

SPL Sample ID: 00050618-08

Site: 7-0238,19900938

Analyses/Method	Result	Rep.Limit		Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS			MCL	CA_GRO		Units: ug/L		
Gasoline Range Organics	ND	50		1		05/21/00 3:08	WR	286085
Surr: 1,4-Difluorobenzene	108	% 62-144		1		05/21/00 3:08	WR	286085
Surr: 4-Bromofluorobenzene	110	% 44-153		1		05/21/00 3:08	WR	286085
PURGEABLE AROMATICS			MCL	SW8021B		Units: ug/L		
Benzene	ND	0.5		1		05/21/00 3:08	WR	286100
Ethylbenzene	ND	0.5		1		05/21/00 3:08	WR	286100
Methyl tert-butyl ether	2900	20		10		05/22/00 12:32	WR	286572
Toluene	ND	0.5		1		05/21/00 3:08	WR	286100
m,p-Xylene	ND	0.5		1		05/21/00 3:08	WR	286100
o-Xylene	ND	0.5		1		05/21/00 3:08	WR	286100
Xylenes, Total	ND	0.5		1		05/21/00 3:08	WR	286100
Surr: 1,4-Difluorobenzene	99.7	% 72-137		10		05/22/00 12:32	WR	286572
Surr: 1,4-Difluorobenzene	102	% 72-137		1		05/21/00 3:08	WR	286100
Surr: 4-Bromofluorobenzene	103	% 48-156		10		05/22/00 12:32	WR	286572
Surr: 4-Bromofluorobenzene	103	% 48-156		1		05/21/00 3:08	WR	286100
VOLATILE ORGANICS METHOD 8260B			MCL	SW8260B		Units: ug/L		
Methyl tert-butyl ether	2500	500		100		05/25/00 21:33	NL	294373
Surr: 1,2-Dichloroethane-d4	88.0	% 80-120		100		05/25/00 21:33	NL	294373
Surr: 4-Bromofluorobenzene	96.0	% 86-115		100		05/25/00 21:33	NL	294373
Surr: Toluene-d8	112	% 88-110		100 *		05/25/00 21:33	NL	294373

Sonia West

West, Sonia
 Project Manager

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



Client Sample ID: TB

Collected: 5/18/00

SPL Sample ID: 00050618-09

Site: 7-0238,19900938

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS			MCL	CA GRO	Units: ug/L		
Gasoline Range Organics	ND	50	1		05/21/00 0:42	WR	286077
Surr: 1,4-Difluorobenzene	114	% 62-144	1		05/21/00 0:42	WR	286077
Surr: 4-Bromofluorobenzene	108	% 44-153	1		05/21/00 0:42	WR	286077
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	0.5	1		05/21/00 0:42	WR	286095
Ethylbenzene	ND	0.5	1		05/21/00 0:42	WR	286095
Methyl tert-butyl ether	ND	2	1		05/21/00 0:42	WR	286095
Toluene	ND	0.5	1		05/21/00 0:42	WR	286095
m,p-Xylene	ND	0.5	1		05/21/00 0:42	WR	286095
o-Xylene	ND	0.5	1		05/21/00 0:42	WR	286095
Xylenes, Total	ND	0.5	1		05/21/00 0:42	WR	286095
Surr: 1,4-Difluorobenzene	102	% 72-137	1		05/21/00 0:42	WR	286095
Surr: 4-Bromofluorobenzene	102	% 48-156	1		05/21/00 0:42	WR	286095

Sonia West

West, Sonia
Project Manager

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

Quality Control Documentation



Quality Control Report

EXXON Company U.S.A.

2293

Analysis: Gasoline Range Organics
 Method: CA_GRO

WorkOrder: 00050618
 Lab Batch ID: R14353

Method Blank

Samples in Analytical Batch:

RunID: HP_U_000520A-286073 Units: mg/L
 Analysis Date: 05/20/2000 21:03 Analyst: WR

Lab Sample ID	Client Sample ID
00050618-01A	MW-9A
00050618-02A	MW-9B
00050618-03A	MW-9C
00050618-04A	MW-9D
00050618-05A	MW-9F
00050618-06A	MW-9G
00050618-07A	MW-9H
00050618-08A	MW-9I
00050618-09A	TB

Analyte	Result	Rep Limit
Gasoline Range Organics	ND	0.050
Surr: 1,4-Difluorobenzene	105.7	62-144
Surr: 4-Bromofluorobenzene	110.1	44-153

Laboratory Control Sample (LCS)

RunID: HP_U_000520A-286678 Units: mg/L
 Analysis Date: 05/20/2000 22:16 Analyst: WR

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	0.77	77	64	131

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

Sample Spiked: 00050618-05
 RunID: HP_U_000520A-286075 Units: mg/L
 Analysis Date: 05/20/2000 22:40 Analyst: WR

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Gasoline Range Organics	ND	0.9	0.95	105	0.9	0.94	104	1.32	36	36	160

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



Quality Control Report
EXXON Company U.S.A.

2293

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 00050618
Lab Batch ID: R14356

Method Blank

Samples in Analytical Batch:

RunID: HP_U_000520B-286091 Units: ug/L
Analysis Date: 05/20/2000 21:03 Analyst: WR

Lab Sample ID	Client Sample ID
00050618-01A	MW-9A
00050618-02A	MW-9B
00050618-03A	MW-9C
00050618-04A	MW-9D
00050618-05A	MW-9F
00050618-06A	MW-9G
00050618-07A	MW-9H
00050618-08A	MW-9I
00050618-09A	TB

Analyte	Result	Rep Limit
Benzene	ND	0.50
Ethylbenzene	ND	0.50
Methyl tert-butyl ether	ND	2.0
Toluene	ND	0.50
m,p-Xylene	ND	0.50
o-Xylene	ND	0.50
Xylenes, Total	ND	0.50
Surr: 1,4-Difluorobenzene	100.2	72-137
Surr: 4-Bromofluorobenzene	103.6	48-156

Laboratory Control Sample (LCS)

RunID: HP_U_000520B-286658 Units: ug/L
Analysis Date: 05/20/2000 21:51 Analyst: WR

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	50	55	109	70	130
Ethylbenzene	50	54	109	70	130
Methyl tert-butyl ether	50	56	112	70	130
Toluene	50	54	109	70	130
m,p-Xylene	100	110	109	70	130
o-Xylene	50	55	109	70	130
Xylenes, Total	150	165	110	72	117

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

Sample Spiked: 00050618-04
RunID: HP_U_000520B-286093 Units: ug/L
Analysis Date: 05/20/2000 23:29 Analyst: WR

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	15	76.5	20	16	78.6	2.74	21	32	164
Ethylbenzene	ND	20	16	78.1	20	16	80.1	2.55	19	52	142
Methyl tert-butyl ether	6.2	20	22	77.5	20	23	82.2	5.89	20	39	150

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



Quality Control Report

EXXON Company U.S.A.

2293

Analysis: Purgeable Aromatics
 Method: SW8021B

WorkOrder: 00050618
 Lab Batch ID: R14356

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

Sample Spiked: 00050618-04
 RunID: HP_U_000520B-286093 Units: ug/L
 Analysis Date: 05/20/2000 23:29 Analyst: WR

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Toluene	ND	20	16	80.1	20	16	81.8	2.03	20	38	159
m-Xylene	ND	40	31	77.1	40	32	79.1	2.50	17	53	144
o-Xylene	ND	20	15	76.9	20	16	79.2	2.91	18	53	143
Xylenes, Total	ND	60	46	76.7	60	48	80.0	4.26	18	53	144

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



Quality Control Report
 EXXON Company U.S.A.
 2293

Analysis: Volatile Organics Method 8260B
 Method: SW8260B

WorkOrder: 00050618
 Lab Batch ID: R14826

Method Blank

Samples in Analytical Batch:

RunID: M_000525A-294362 Units: ug/L
 Analysis Date: 05/25/2000 15:18 Analyst: NL

Lab Sample ID	Client Sample ID
00050618-02B	MW-9B
00050618-03B	MW-9C
00050618-08B	MW-9I

Analyte	Result	Rep Limit
Methyl tert-butyl ether	ND	5.0
Surr: 1,2-Dichloroethane-d4	84.0	80-120
Surr: 4-Bromofluorobenzene	100.0	86-115
Surr: Toluene-d8	110.0	88-110

Laboratory Control Sample (LCS)

RunID: M_000525A-298361 Units: ug/L
 Analysis Date: 05/25/2000 13:58 Analyst: NL

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
1,1-Dichloroethene	50	48	96	61	145
Benzene	50	50	100	76	127
Chlorobenzene	50	48	96	75	130
Toluene	50	52	104	76	125
Trichloroethene	50	48	96	71	120

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

Sample Spiked: 00050537-01
 RunID: M_000525A-294369 Units: ug/L
 Analysis Date: 05/25/2000 20:40 Analyst: NL

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
1,1-Dichloroethene	ND	50000	46000	92	50000	50000	100	8	14	61	145
Benzene	ND	50000	50000	98	50000	50000	98	0	11	76	127
Chlorobenzene	ND	50000	47000	94	50000	48000	96	2	13	75	130
Toluene	ND	50000	52000	102	50000	50000	98	4	13	76	125
Trichloroethene	ND	50000	46000	92	50000	48000	96	4	14	71	120

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



Quality Control Report
EXXON Company U.S.A.
2293

Analysis: Volatile Organics Method 8260B
Method: SW8260B

WorkOrder: 00050618
Lab Batch ID: R14842

Method Blank

Samples in Analytical Batch:

RunID: M_000526B-294547 Units: ug/L
Analysis Date: 05/26/2000 12:38 Analyst: NL

Lab Sample ID: 00050618-01B
Client Sample ID: MW-9A

Analyte	Result	Rep Limit
Methyl tert-butyl ether	ND	5.0
Surr: 1,2-Dichloroethane-d4	88.0	80-120
Surr: 4-Bromofluorobenzene	102.0	86-115
Surr: Toluene-d8	110.0	88-110

Laboratory Control Sample (LCS)

RunID: M_000526B-294545 Units: ug/L
Analysis Date: 05/26/2000 11:45 Analyst: NL

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
1,1-Dichloroethene	50	45	90	61	145
Benzene	50	44	88	76	127
Chlorobenzene	50	43	86	75	130
Toluene	50	44	88	76	125
Trichloroethene	50	42	84	71	120

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

Sample Spiked: 00050722-04
RunID: M_000526B-299724 Units: ug/L
Analysis Date: 05/26/2000 18:11 Analyst: NL

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
1,1-Dichloroethene	ND	500	440	88	500	470	94	7	14	61	145
Benzene	ND	500	500	100	500	500	100	0	11	76	127
Chlorobenzene	ND	500	460	92	500	460	92	0	13	75	130
Toluene	ND	500	480	96	500	490	98	2	13	76	125
Trichloroethene	ND	500	460	92	500	470	94	2	14	71	120

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

*Chain of Custody
And
Sample Receipt Checklist*

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

RAS #: 7-0238 Facility/State ID # (TN Only): _____

AFE # (Terminal Only): _____ Consultant Project # 2293

Location: 2200 E. 12th St. (City): Oakland (State): CA
 EE C & M SDT

Consultant Work Release #: 19900938 BTS# 000518-22

Sampled By: Blaine Tech Services, Inc./ Brian Freitas

ANALYSIS REQUEST:
(CHECK APPROPRIATE BOX)

NO. OF CONTAINERS	CONTAINER SIZE	ANALYSIS REQUEST (CHECK APPROPRIATE BOX)															OTHER												
		BTEX 8020 WITH MTBE 802 <input type="checkbox"/>	PURGEABLE HALOCARBON 8010 <input type="checkbox"/>	601 <input type="checkbox"/>	TPH/IR 418.1 <input type="checkbox"/>	O & G IR 413.1 <input type="checkbox"/>	GRAV. 419.2 <input type="checkbox"/>	TPH/GC 8015 GRO 8015 DRO <input type="checkbox"/>	VOL 8240 <input type="checkbox"/>	624 <input type="checkbox"/>	SEMI-VOL 8270 <input type="checkbox"/>	625 <input type="checkbox"/>	PNA/PAH 8100 <input type="checkbox"/>	8310 <input type="checkbox"/>	8270 <input type="checkbox"/>	PCB/PEST 8080 <input type="checkbox"/>		PCB ONLY <input type="checkbox"/>	TCP FULLD VOAD SEMI-VOAD PESTO HERBID <input type="checkbox"/>	METALS, TOTAL <input type="checkbox"/>	METALS, TCLP <input type="checkbox"/>	LEAD, TOTAL 239.1 <input type="checkbox"/>	7421 <input type="checkbox"/>	LEAD, TCLP <input type="checkbox"/>	TOX/TOH <input type="checkbox"/>	REACTIVITY <input type="checkbox"/>	CORROSIVITY <input type="checkbox"/>	IGNITABILITY <input type="checkbox"/>	STATE
3	40	<input checked="" type="checkbox"/>																											CA
3	3																												
3	3																												
3	3																												
3	3																												
3	3																												
2	2																												

RUSH

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

EXXON UST
 CONTRACT NO.
 S02317M01

SPECIAL DETECTION LIMITS (Specify)
 SPECIAL REPORTING REQUIREMENTS (Specify)
 FAX FAX C-O-C W/ REPORT

REMARKS: * Confirm MTBE by 8260
 AT Wells: MW-9A, MW-9B, MW-9C, & MW-9I
 LAB USE ONLY LOT # Storage Location
 110 87975627 40165
 WORK ORDER #: 200518 LAB WORK RELEASE #:

CUSTODY RECORD

Relinquished By Sampler: Brian Freitas
 Relinquished By Sampler: _____
 Relinquished By Sampler: _____

Date 5/19/00 Time 16:00
 Received By: _____
 Date _____ Time _____ Received By: _____
 Date _____ Time _____ Received By Laboratory: _____
 Way Bill # _____ Cooler Temp: _____



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

Sample Receipt Checklist

Workorder: 00050618
Date and Time Received: 5/20/00 10:00:00 AM
Temperature: 4

Received by: Barrera, Nancy
Carrier name: FedEx

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