

ExxonMobil
Refining and Supply Company
Downstream - Safety, Health & Environment
Environmental Remediation
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Gen N. Ortega
Senior Engineer
Environmental Remediation

ExxonMobil
Refining & Supply

March 7, 2001

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

MAR 07 2001

#245

MTBE
- conc still elevated / consistent w/ pass
Waiting for results of SVF test - assume that is the
recommended remedial approach for site

RE: Former Exxon RAS #7-0238/2200 East 12th Street, Oakland, California. 06

Dear Mr. Chan:

Attached for your review and comment is a letter report entitled *Quarterly Groundwater Monitoring Report, First Quarter 2001*, dated February 27, 2001, for the above referenced site. The report was prepared by Environmental Resolutions, Inc. (ERI) of Novato, California, and presents the results of quarterly groundwater monitoring and sampling activities at the subject site.

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

Sincerely,



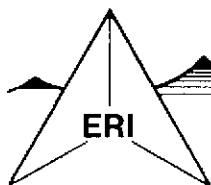
Gene N. Ortega
Senior Engineer

(925) 246-8747

Attachment: ERI's Quarterly Groundwater Monitoring Report, First Quarter 2001, dated February 27, 2001.

cc: w/attachment
Mr. Stephen Hill, California Regional Water Quality Control Board-San Francisco Bay Region
Mr. Winson B. Low, Environmental and Safety Affairs Department

w/o attachment
Mr. Scott D. Thompson, Environmental Resolutions, Inc.



ENVIRONMENTAL RESOLUTIONS, INC.

February 27, 2001
ERI 229313.R12

Mr. Gene N. Ortega
ExxonMobil Refining and Supply
P.O. Box 4032
Concord, California 94524-4032

Subject: Quarterly Groundwater Monitoring Report, First Quarter 2001, Former Exxon Service Station 7-0238, 2200 East 12th Street, Oakland, California.

Mr. Ortega:

At the request of ExxonMobil Refining and Supply (formerly known as Exxon Company, U.S.A.) (ExxonMobil), Environmental Resolutions, Inc. (ERI) performed the first quarter 2001 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.

GROUNDWATER MONITORING AND SAMPLING

On January 10, 2001, ERI 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 ERI'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 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:

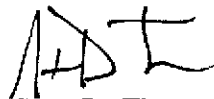
Mr. Barney Chan
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Room 250
Alameda, California 94502-6577

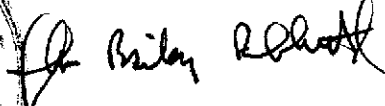
Mr. Stephen Hill
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, California 94612

Mr. Winson B. Low
Environmental and Safety Affairs Department
One Valero Place, MS-06E
San Antonio, Texas 78212

Please call Mr. Scott D. Thompson, ERI's project manager for this site, at (415) 382-5987, with any questions regarding this project.

Sincerely,
Environmental Resolutions, Inc.


Scott D. Thompson, R.G.
Project Manager


John B. Bobbitt
R.G. 4313



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 # (TOC)	Sampling Date	SUBJ <.....>	DTW feet.....>	Elev. <.....>	TPPHg <.....>	MTBE <.....>	B ug/L.....>	T>	E>	X>	
MW9A (11.46)	11/02/95	NLPH	7.16	4.30	<50	<10	<0.5	<0.5	<0.5	<0.5	
	04/26/96	NLPH	6.33	5.13	---	---	---	---	---	---	
	08/22/96	NLPH	7.02	4.44	---	---	---	---	---	---	
(14.53)	02/24/97	---	---	---	---	---	---	---	---	---	
	03/16/98	NLPH	6.14	5.32	<200	40,000	7.9	<2.0	<2.0	<2.0	
	04/21/98	NLPH	6.29	5.17	<50	53,000	3.8	<0.5	<0.5	<0.5	
	07/22/98	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	
	02/26/99	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	
	08/03/99	NLPH	9.39	5.14	<50	<2.5	<0.5	<0.5	<0.5	<0.5	
	12/03/99	NLPH	6.52	8.01	<50	1,400	<0.5	<0.5	<0.5	0.67 ^A	
	02/29/00	NLPH	5.31	9.22	<50	20,000	1.2	<0.5	<0.5	<0.5	
	05/18/00	NLPH	6.31	8.22	<50	14,000/11,000*	<0.5	<0.5	<0.5	<0.5	
	07/24/00	NLPH	6.54	7.99	<50	7,400	<0.5	<0.5	<0.5	<0.5	
	10/09/00	NLPH	6.00	8.53	<50	2,300	<0.5	<0.5	<0.5	<0.5	
01/10/01	NLPH	6.34	8.19	<50	3,700	<0.5	<0.5	<0.5	<0.5		
MW9B (9.80)	11/02/95	NLPH	6.14	3.66	130	<10	3.3	<0.5	<0.5	<0.5	
	04/26/96	NLPH	5.66	4.14	270	70	130	2.8	6.7	<3	
	08/22/96	NLPH	6.16	3.64	210	31	5.7	6.8	1.1	9.2	
	02/24/97	NLPH	5.58	4.22	1,400	1,300	76	1.4	4.1	1.2	
	03/16/98	NLPH	5.32	4.48	860	1,500	140	2.0	11	<2.0	
	04/21/98	NLPH	5.49	4.31	1,800	18,000	300	<5.0	7.9	<5.0	
	(12.83)	07/22/98	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	
	02/26/99	NLPH	5.10	7.73	8,800	8,000	2,000	<25	52	38	
	05/18/99	NLPH	5.65	7.18	<10,000	42,100	158	<100	<100	<100	
	08/03/99	NLPH	6.24	6.59	960	24,900	<5.0	<5.0	<5.0	<5.0	
	12/03/99	NLPH	5.66	7.17	<50	1,000	<0.5	<0.5	<0.5	<0.5	
	02/29/00	NLPH	4.61	8.22	3,100	25,000	900	7	23	7.1	
	05/18/00	NLPH	5.54	7.29	780	34,000/26,000*	150	<2.5	4.5	<2.5	
	07/24/00	NLPH	8.75	4.08	<250	39,000	8	<2.5	<2.5	<2.5	
10/09/00	NLPH	4.84	7.99	<1,200	30,000	1.7	<0.5	<0.5	<0.5		
01/10/01	NLPH	5.56	7.27	<250	32,000	5.3	<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 2 of 5)

Well ID # (TOC)	Sampling Date	SUBJ <.....>	DTW feet	Elev.	TPPHg <.....>	MTBE	B ug/L	T	E	X
MW9C	11/02/95	---	---	---	---	---	---	---	---	---
(11.14)	04/26/96	---	---	---	---	---	---	---	---	---
	08/22/96	---	---	---	---	---	---	---	---	---
	02/24/97	---	---	---	---	---	---	---	---	---
	03/16/98	NLPH	5.51	5.63	<500	150,000	24	<5.0	<5.0	<5.0
	04/21/98	NLPH	5.83	5.31	150	130,000/150,000*	<0.5	<0.5	<0.5	<0.5
(14.19)	07/22/98	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
	02/26/99	NLPH	5.46	8.73	<250	55,000	<2.5	<2.5	<2.5	<2.5
	05/18/99	NLPH	6.27	7.92	<25,000	68,900	<250	<250	<250	<250
	08/03/99	NLPH	7.13	7.06	210	69,200	<1.0	1.3	<1.0	<1.0
	12/03/99	NLPH	6.17	8.02	290	50,000	<2.5	<2.5	<2.5	<2.5
	02/29/00	NLPH	4.49	9.70	<250	40,000	<2.5	<2.5	<2.5	<2.5
	05/18/00	NLPH	5.96	8.23	<250	46,000/33,000	<2.5	<2.5	<2.5	<2.5
	07/24/00	NLPH	6.47	7.72	<250	44,000	<2.5	<2.5	<2.5	<2.5
	10/09/00	NLPH	6.57	7.62	<250	39,000	<2.5	<2.5	<2.5	<2.5
	01/10/01	NLPH	6.09	8.10	<250	42,000	<2.5	<2.5	<2.5	<2.5
MW9D	11/02/95	---	---	---	---	---	---	---	---	---
(12.90)	04/26/96	---	---	---	---	---	---	---	---	---
	08/22/96	---	---	---	---	---	---	---	---	---
	02/24/97	---	---	---	---	---	---	---	---	---
	03/16/98	NLPH	6.94	5.96	<50	10	<0.5	<0.5	<0.5	<0.5
	04/21/98	NLPH	7.22	5.68	<50	12	<0.5	<0.5	<0.5	<0.5
(15.98)	07/22/98	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
	02/26/99	NLPH	6.42	9.56	<50	310	<0.5	<0.5	<0.5	<0.5
	05/18/99	NLPH	6.55	9.43	<2,500	13,500	<25	<25	<25	<25
	08/03/99	NLPH	8.34	7.64	<50	<2.5	<0.5	<0.5	<0.5	<0.5
	12/03/99	NLPH	7.56	8.42	<50	<2	<0.5	<0.5	<0.5	<0.5
	02/29/00	NLPH	4.82	11.16	<50	2.5	<0.5	<0.5	<0.5	<0.5
	05/18/00	NLPH	7.40	8.58	<50	6.2	<0.5	<0.5	<0.5	<0.5
	07/24/00	NLPH	7.91	8.07	<50	14	<0.5	<0.5	0.85	0.74
	10/09/00	NLPH	8.02	7.96	<50	14	<0.5	<0.5	<0.5	<0.5
	01/10/01	NLPH	7.26	8.72	<50	18	<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	11/02/95	---	---	---	---	---	---	---	---	---
(8.37)	04/26/96	NLPH	---	---	<50	57	<0.5	<0.5	<0.5	<0.5
	08/22/96	NLPH	---	---	<50	5.8	<0.5	<0.5	<0.5	<0.5
	02/24/97	NLPH	---	---	<50	<30	<0.5	<0.5	<0.5	<0.5
	03/16/98	NLPH	---	---	---	---	---	---	---	---
	04/21/98	---	---	---	---	---	---	---	---	---
(11.38)	07/22/98	---	---	---	---	---	---	---	---	---
	12/22/98	NLPH	5.47	5.91	<50	81	<0.5	<0.5	<0.5	<0.5
	02/26/99	NLPH	5.35	6.03	<50	<2.5	<0.5	<0.5	<0.5	<0.5
	05/18/99	NLPH	5.62	5.76	<50	61.6	<0.5	<0.5	<0.5	<0.5
	08/03/99	NLPH	6.32	5.06	<50	3.10	<0.5	<0.5	<0.5	<0.5
	12/03/99	NLPH	5.59	5.79	<50	<2	<0.5	<0.5	0.71	<0.5
	02/29/00	NLPH	4.70	6.68	<50	52	<0.5	<0.5	<0.5	<0.5
	05/18/00	NLPH	5.37	6.01	<50	65	<0.5	<0.5	<0.5	<0.5
	07/24/00	NLPH	5.65	5.73	<50	170	<0.5	<0.5	<0.5	<0.5
	10/09/00	NLPH	5.71	5.67	<50	170	<0.5	<0.5	<0.5	<0.5
	01/10/01	NLPH	4.30	7.08	<50	140	<0.5	<0.5	<0.5	<0.5
MW9G	11/02/95	NLPH	5.92	4.03	<50	<10	<0.5	<0.5	<0.5	<0.5
(9.95)	04/26/96	NLPH	5.28	4.67	<50	18	<0.5	<0.5	<0.5	<0.5
	08/22/96	NLPH	5.57	4.38	<50	18	<0.5	<0.5	<0.5	<0.5
	02/24/97	NLPH	5.30	4.65	<50	240	<0.5	0.57	<0.5	0.62
	03/16/98	---	---	---	---	---	---	---	---	---
	04/21/98	---	---	---	---	---	---	---	---	---
(12.99)	07/22/98	---	---	---	---	---	---	---	---	---
	12/22/98	NLPH	5.28	7.71	<50	1,100	<0.5	<0.5	<0.5	<0.5
	02/26/99	NLPH	5.31	7.68	<50	50	<0.5	<0.5	<0.5	<0.5
	05/18/99	NLPH	5.18	7.81	<1,000	3,990	<10	<10	<10	<10
	08/03/99	NLPH	6.00	6.99	<50	1,340	<0.5	<0.5	<0.5	<0.5
	12/03/99	NLPH	5.27	7.72	<50	<2	<0.5	<0.5	<0.5	0.55 ^A
	02/29/00	NLPH	4.60	8.39	<50	7,900	<0.5	<0.5	<0.5	<0.5
	05/18/00	NLPH	5.16	7.83	<50	2,400	<0.5	<0.5	<0.5	<0.5
	07/24/00	NLPH	5.20	7.79	<50	1,000	<0.5	<0.5	<0.5	<0.5
	10/09/00	NLPH	5.26	7.73	<50	180	<0.5	<0.5	<0.5	<0.5
	01/10/01	NLPH	5.18	7.81	<50	1,200	<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	
MW9H (8.58)	11/02/95	NLPH	8.40	0.18	<50	<10	<0.5	<0.5	<0.5	<0.5	
	04/26/96	NLPH	8.05	0.53	---	---	---	---	---	---	
	08/22/96	NLPH	8.17	0.41	---	---	---	---	---	---	
	02/24/97	---	---	---	---	---	---	---	---	---	
	03/16/98	---	---	---	---	---	---	---	---	---	
	04/21/98	---	---	---	---	---	---	---	---	---	
	(11.61)	07/22/98	---	---	---	---	---	---	---	---	
	12/22/98	NLPH	7.81	3.80	<50	<2.5	<0.5	<0.5	<0.5	<0.5	
	02/26/99	NLPH	7.61	4.00	<50	<2.5	<0.5	<0.5	<0.5	<0.5	
	05/18/99	NLPH	8.00	3.61	<50	3.98	<0.5	<0.5	<0.5	<0.5	
	08/03/99	NLPH	6.05	5.56	<50	<2.5	<0.5	<0.5	<0.5	<0.5	
	12/03/99	NLPH	5.32	6.29	<50	<2	<0.5	<0.5	<0.5	0.57 ^A	
	02/29/00	NLPH	7.10	4.51	<50	<2	<0.5	<0.5	<0.5	<0.5	
	05/18/00	NLPH	7.84	3.77	<50	9.7	<0.5	<0.5	<0.5	<0.5	
	07/24/00	NLPH	7.94	3.67	<50	17	<0.5	<0.5	<0.5	<0.5	
	10/09/00	NLPH	8.09	3.52	<50	13	<0.5	<0.5	<0.5	1.1	
01/10/01	NLPH	7.89	3.72	<50	11	<0.5	<0.5	<0.5	0.5		
MW9I (10.11)	11/02/95	NLPH	6.04	4.07	<50	<10	<0.5	<0.5	<0.5	<0.5	
	04/26/96	NLPH	5.27	4.84	<50	99	<0.5	<0.5	<0.5	<0.5	
	08/22/96	NLPH	5.66	4.45	<50	170	<0.5	<0.5	<0.5	<0.5	
	02/24/97	NLPH	5.24	4.87	120	9,100	<0.5	<0.5	<0.5	<0.5	
	03/16/98	NLPH	4.91	5.20	<200	59,000	13	<2.0	<2.0	<2.0	
	04/21/98	NLPH	5.08	5.03	<500	59,000	<5.0	<5.0	<5.0	<5.0	
	(13.14)	07/22/98	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	
	02/26/99	NLPH	4.71	8.43	<500	9,700	<5.0	<5.0	<5.0	<5.0	
	05/18/99	NLPH	5.30	7.84	<1,000	3,730	<10	<10	<10	<10	
	08/03/99	NLPH	5.98	7.16	<50	21,900	<0.5	0.650	<0.5	<0.5	
	12/03/99	NLPH	5.31	7.83	<250	2,000	3.9	2.9	<2.5	14	
	02/29/00	NLPH	4.20	8.94	50	16,000	0.74	<0.5	<0.5	<0.5	
	05/18/00	NLPH	5.12	8.02	<50	2,900	<0.5	<0.5	<0.5	<0.5	
	07/24/00	NLPH	5.41	7.73	<250	43,000	<2.5	<2.5	<2.5	<2.5	
	10/09/00	NLPH	5.41	7.73	<2,500	54,000	1.6	<0.5	<0.5	<0.5	
01/10/01	NLPH	5.24	7.90	<250	36,000	<2.5	<2.5	<2.5	<2.5		

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA

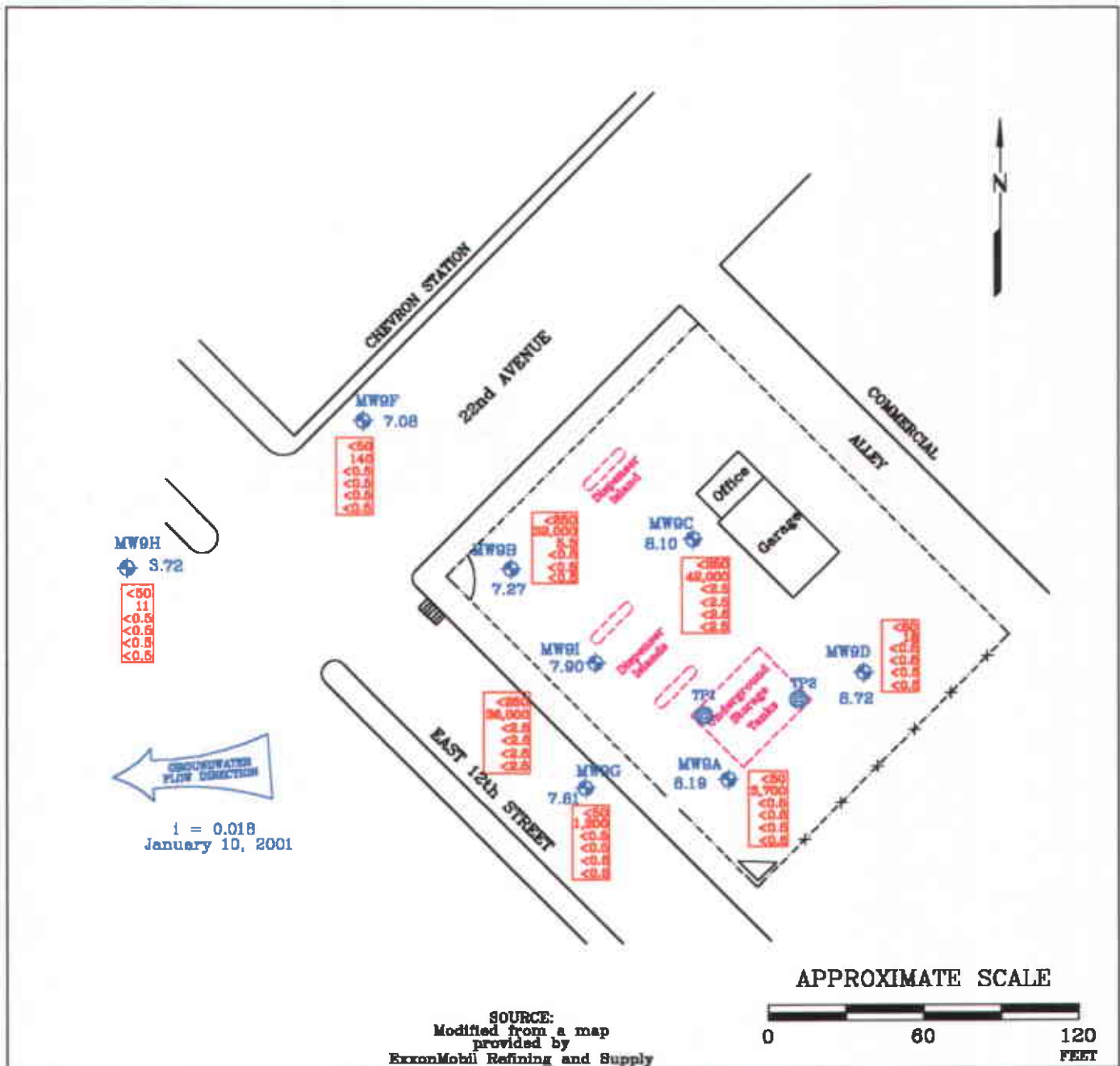
Former Exxon Service Station 7-0238

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.
ug/L	= Micrograms per Liter.
**	= 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.



FN 22930002

EXPLANATION

MW9I
 Groundwater Monitoring Well

TP
 UST Observation Well

Proposed Vapor Points

Groundwater Concentrations in ug/L
 Sampled January 10, 2001

- Total Purgeable Petroleum Hydrocarbons as gasoline
 - Methyl Tertiary Butyl Ether
 - Benzene
 - Toluene
 - Ethylbenzene
 - Total Xylenes
- ug/L Micrograms per Liter (ug/L)
 < Less Than the Stated Laboratory Detection Level



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

PROJECT NO.

2293

PLATE

2

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 top of casing elevations.

Groundwater samples collected for subjective evaluation are collected by gently lowering approximately half the length of a clean Teflon® or polypropylene 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. If appropriate, free-phase hydrocarbons are removed from the well.

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

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

r	=	radius of the well casing in feet.
h	=	column of water in the well in feet (depth to bottom - depth to water)
7.48	=	conversion constant from cubic feet to gallons
π	=	ratio of the circumference of a circle to its diameter

Gallons of water purged/gallons in 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® or polypropylene bailer. The groundwater is carefully poured into selected sample containers (40-milliliter (ml) glass vials, 1,000 ml glass amber bottles, etc.), which are filled so as to produce a positive meniscus.

Depending on the required analysis, each sample container is preserved with hydrochloric acid, nitric acid, etc., or it is preservative free. The type of preservative used for each sample is specified on the chain of custody form.

Each vial and glass amber bottle is sealed with a cap containing a Teflon® septum, and subsequently examined for air bubbles to avoid headspace, which would allow volatilization to occur. The samples are promptly transported in iced storage in a thermally-insulated ice chest, accompanied by a Chain of Custody Record, to a California-certified laboratory.

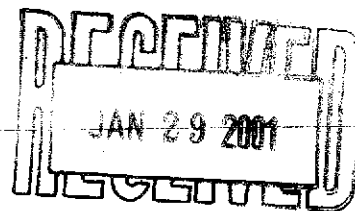
ATTACHMENT B

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



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TEXAS 77054
 (713) 660-6901

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



Certificate of Analysis Number:
01010307

<p>Report To: Environmental Resolution, Inc. Jim Chappell 73 Digital Drive Suite 100 Novato California 94949- ph: (415) 382-9105 fax: (415) 382-1856</p>	<p>Project Name: 229313x Site: 7-0238,19802889 Site Address: 2200 E 12TH St Oakland CA PO Number: LWR#21010350 State: California State Cert. No.: 1903 Date Reported: 1/23/01</p>
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Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Any other 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.

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.

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

Sonia West
 West, Sonia
 Senior Project Manager



EXXON Company U.S.A.

Certificate of Analysis Number:

01010307

Report To: Environmental Resolution, Inc.
 Jim Chappell
 73 Digital Drive Suite 100

Novato
 California
 94949-
 ph: (415) 382-9105 fax: (415) 382-1856

fax To: Environmental Resolution, Inc.
 Jim Chappell fax : (415) 382-1856

Project Name: 229313x
Site: 7-0238,19802889
Site Address: 2200 E 12TH St
 Oakland CA
PO Number: LWR#21010350
State: California
State Cert. No.: 1903
Date Reported: 1/23/01

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
W-BB-MW9D	01010307-01	Water	1/10/01 1:43:00 PM	1/12/01 10:00:00 AM		<input type="checkbox"/>
W-7-MW9D	01010307-02	Water	1/10/01 1:45:00 PM	1/12/01 10:00:00 AM		<input type="checkbox"/>
W-11-MW9H	01010307-03	Water	1/10/01 11:09:00 AM	1/12/01 10:00:00 AM		<input type="checkbox"/>
W-5-MW9F	01010307-04	Water	1/10/01 1:58:00 PM	1/12/01 10:00:00 AM		<input type="checkbox"/>
W-5-MW9G	01010307-05	Water	1/10/01 2:10:00 PM	1/12/01 10:00:00 AM		<input type="checkbox"/>
W-6-MW9A	01010307-06	Water	1/10/01 2:18:00 PM	1/12/01 10:00:00 AM		<input type="checkbox"/>
W-5-MW9B	01010307-07	Water	1/10/01 2:25:00 PM	1/12/01 10:00:00 AM		<input type="checkbox"/>
W-6-MW9C	01010307-08	Water	1/10/01 2:35:00 PM	1/12/01 10:00:00 AM		<input type="checkbox"/>
W-5-MW9I	01010307-09	Water	1/10/01 2:43:00 PM	1/12/01 10:00:00 AM		<input type="checkbox"/>

Sonia West

1/23/01

West, Sonia
 Senior Project Manager

Date

Joel Grice
 Laboratory Director

Ted Yen
 Quality Assurance Officer



Client Sample ID W-BB-MW9D Collected: 1/10/01 1:43:00 SPL Sample ID: 01010307-01

Site: 7-0238,19802889

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		01/15/01 20:37	D_R	531721
Surr: 1,4-Difluorobenzene	86.3	% 62-144	1		01/15/01 20:37	D_R	531721
Surr: 4-Bromofluorobenzene	95.7	% 44-153	1		01/15/01 20:37	D_R	531721
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	0.5	1		01/15/01 20:37	D_R	531608
Ethylbenzene	ND	0.5	1		01/15/01 20:37	D_R	531608
Methyl tert-butyl ether	ND	2	1		01/15/01 20:37	D_R	531608
Toluene	ND	0.5	1		01/15/01 20:37	D_R	531608
m,p-Xylene	ND	0.5	1		01/15/01 20:37	D_R	531608
o-Xylene	ND	0.5	1		01/15/01 20:37	D_R	531608
Xylenes, Total	ND	0.5	1		01/15/01 20:37	D_R	531608
Surr: 1,4-Difluorobenzene	81.7	% 72-137	1		01/15/01 20:37	D_R	531608
Surr: 4-Bromofluorobenzene	95.6	% 48-156	1		01/15/01 20:37	D_R	531608

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 W-7-MW9D

Collected: 1/10/01 1:45:00

SPL Sample ID: 01010307-02

Site: 7-0238,19802889

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		01/15/01 21:03	D_R	531722
Surr: 1,4-Difluorobenzene	86.0	% 62-144	1		01/15/01 21:03	D_R	531722
Surr: 4-Bromofluorobenzene	100	% 44-153	1		01/15/01 21:03	D_R	531722
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	0.5	1		01/15/01 21:03	D_R	531609
Ethylbenzene	ND	0.5	1		01/15/01 21:03	D_R	531609
Methyl tert-butyl ether	18	2	1		01/15/01 21:03	D_R	531609
Toluene	ND	0.5	1		01/15/01 21:03	D_R	531609
m,p-Xylene	ND	0.5	1		01/15/01 21:03	D_R	531609
o-Xylene	ND	0.5	1		01/15/01 21:03	D_R	531609
Xylenes, Total	ND	0.5	1		01/15/01 21:03	D_R	531609
Surr: 1,4-Difluorobenzene	87.5	% 72-137	1		01/15/01 21:03	D_R	531609
Surr: 4-Bromofluorobenzene	97.7	% 48-156	1		01/15/01 21:03	D_R	531609

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 W-11-MW9H

Collected: 1/10/01 11:09:00 SPL Sample ID: 01010307-03

Site: 7-0238,19802889

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		01/15/01 21:28	D_R	531723
Surr: 1,4-Difluorobenzene	86.3	% 62-144	1		01/15/01 21:28	D_R	531723
Surr: 4-Bromofluorobenzene	101	% 44-153	1		01/15/01 21:28	D_R	531723
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	0.5	1		01/15/01 21:28	D_R	531610
Ethylbenzene	ND	0.5	1		01/15/01 21:28	D_R	531610
Methyl tert-butyl ether	11	2	1		01/15/01 21:28	D_R	531610
Toluene	ND	0.5	1		01/15/01 21:28	D_R	531610
m,p-Xylene	ND	0.5	1		01/15/01 21:28	D_R	531610
o-Xylene	ND	0.5	1		01/15/01 21:28	D_R	531610
Xylenes, Total	ND	0.5	1		01/15/01 21:28	D_R	531610
Surr: 1,4-Difluorobenzene	88.1	% 72-137	1		01/15/01 21:28	D_R	531610
Surr: 4-Bromofluorobenzene	99.2	% 48-156	1		01/15/01 21:28	D_R	531610

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 W-5-MW9F Collected: 1/10/01 1:58:00 SPL Sample ID: 01010307-04

Site: 7-0238,19802889

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		01/15/01 21:54	D_R	531724
Surr: 1,4-Difluorobenzene	86.7	% 62-144	1		01/15/01 21:54	D_R	531724
Surr: 4-Bromofluorobenzene	100	% 44-153	1		01/15/01 21:54	D_R	531724
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	0.5	1		01/15/01 21:54	D_R	531611
Ethylbenzene	ND	0.5	1		01/15/01 21:54	D_R	531611
Methyl tert-butyl ether	140	2	1		01/15/01 21:54	D_R	531611
Toluene	ND	0.5	1		01/15/01 21:54	D_R	531611
m,p-Xylene	ND	0.5	1		01/15/01 21:54	D_R	531611
o-Xylene	ND	0.5	1		01/15/01 21:54	D_R	531611
Xylenes, Total	ND	0.5	1		01/15/01 21:54	D_R	531611
Surr: 1,4-Difluorobenzene	93.3	% 72-137	1		01/15/01 21:54	D_R	531611
Surr: 4-Bromofluorobenzene	95.8	% 48-156	1		01/15/01 21:54	D_R	531611

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 W-5-MW9G

Collected: 1/10/01 2:10:00

SPL Sample ID: 01010307-05

Site: 7-0238,19802889

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		01/15/01 22:20	D_R	531725
Surr: 1,4-Difluorobenzene	87.0	% 62-144	1		01/15/01 22:20	D_R	531725
Surr: 4-Bromofluorobenzene	96.7	% 44-153	1		01/15/01 22:20	D_R	531725
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	0.5	1		01/15/01 22:20	D_R	531612
Ethylbenzene	ND	0.5	1		01/15/01 22:20	D_R	531612
Methyl tert-butyl ether	1200	10	5		01/17/01 22:49	DL	534095
Toluene	ND	0.5	1		01/15/01 22:20	D_R	531612
m,p-Xylene	ND	0.5	1		01/15/01 22:20	D_R	531612
o-Xylene	ND	0.5	1		01/15/01 22:20	D_R	531612
Xylenes, Total	ND	0.5	1		01/15/01 22:20	D_R	531612
Surr: 1,4-Difluorobenzene	96.8	% 72-137	5		01/17/01 22:49	DL	534095
Surr: 1,4-Difluorobenzene	91.5	% 72-137	1		01/15/01 22:20	D_R	531612
Surr: 4-Bromofluorobenzene	97.3	% 48-156	5		01/17/01 22:49	DL	534095
Surr: 4-Bromofluorobenzene	94.4	% 48-156	1		01/15/01 22:20	D_R	531612

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 W-6-MW9A

Collected: 1/10/01 2:18:00

SPL Sample ID: 01010307-06

Site: 7-0238,19802889

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		01/15/01 22:46	D_R	531726
Surr: 1,4-Difluorobenzene	87.3	% 62-144	1		01/15/01 22:46	D_R	531726
Surr: 4-Bromofluorobenzene	95.0	% 44-153	1		01/15/01 22:46	D_R	531726
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	0.5	1		01/15/01 22:46	D_R	531613
Ethylbenzene	ND	0.5	1		01/15/01 22:46	D_R	531613
Methyl tert-butyl ether	3700	200	100		01/17/01 23:14	DL	534096
Toluene	ND	0.5	1		01/15/01 22:46	D_R	531613
m,p-Xylene	ND	0.5	1		01/15/01 22:46	D_R	531613
o-Xylene	ND	0.5	1		01/15/01 22:46	D_R	531613
Xylenes, Total	ND	0.5	1		01/15/01 22:46	D_R	531613
Surr: 1,4-Difluorobenzene	86.6	% 72-137	1		01/15/01 22:46	D_R	531613
Surr: 1,4-Difluorobenzene	98.3	% 72-137	100		01/17/01 23:14	DL	534096
Surr: 4-Bromofluorobenzene	98.7	% 48-156	100		01/17/01 23:14	DL	534096
Surr: 4-Bromofluorobenzene	90.2	% 48-156	1		01/15/01 22:46	D_R	531613

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 W-5-MW9B

Collected: 1/10/01 2:25:00 SPL Sample ID: 01010307-07

Site: 7-0238,19802889

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		01/20/01 22:58	DL	537225
Surr: 1,4-Difluorobenzene	111	% 62-144	5		01/20/01 22:58	DL	537225
Surr: 4-Bromofluorobenzene	99.8	% 44-153	5		01/20/01 22:58	DL	537225
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	5.3	0.5	1		01/17/01 20:42	DL	534091
Ethylbenzene	ND	0.5	1		01/17/01 20:42	DL	534091
Methyl tert-butyl ether	32000	200	100		01/18/01 21:08	DL	535312
Toluene	ND	0.5	1		01/17/01 20:42	DL	534091
m,p-Xylene	ND	0.5	1		01/17/01 20:42	DL	534091
o-Xylene	ND	0.5	1		01/17/01 20:42	DL	534091
Xylenes, Total	ND	0.5	1		01/17/01 20:42	DL	534091
Surr: 1,4-Difluorobenzene	99.3	% 72-137	100		01/18/01 21:08	DL	535312
Surr: 1,4-Difluorobenzene	160MI	% 72-137	1		01/17/01 20:42	DL	534091
Surr: 4-Bromofluorobenzene	96.2	% 48-156	100		01/18/01 21:08	DL	535312
Surr: 4-Bromofluorobenzene	99.0	% 48-156	1		01/17/01 20:42	DL	534091

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 W-6-MW9C Collected: 1/10/01 2:35:00 SPL Sample ID: 01010307-08

Site: 7-0238,19802889

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	01/17/01 23:40	DL	534258
Surr: 1,4-Difluorobenzene	110	% 62-144		5	01/17/01 23:40	DL	534258
Surr: 4-Bromofluorobenzene	97.6	% 44-153		5	01/17/01 23:40	DL	534258
PURGEABLE AROMATICS							
			MCL	SW8021B	Units: ug/L		
Benzene	ND	2.5		5	01/17/01 23:40	DL	534097
Ethylbenzene	ND	2.5		5	01/17/01 23:40	DL	534097
Methyl tert-butyl ether	42000	500		250	01/18/01 21:34	DL	535313
Toluene	ND	2.5		5	01/17/01 23:40	DL	534097
m,p-Xylene	ND	2.5		5	01/17/01 23:40	DL	534097
o-Xylene	ND	2.5		5	01/17/01 23:40	DL	534097
Xylenes, Total	ND	2.5		5	01/17/01 23:40	DL	534097
Surr: 1,4-Difluorobenzene	109	% 72-137		5	01/17/01 23:40	DL	534097
Surr: 1,4-Difluorobenzene	98.9	% 72-137		250	01/18/01 21:34	DL	535313
Surr: 4-Bromofluorobenzene	96.5	% 48-156		5	01/17/01 23:40	DL	534097
Surr: 4-Bromofluorobenzene	96.0	% 48-156		250	01/18/01 21:34	DL	535313

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 W-5-MW9I

Collected: 1/10/01 2:43:00

SPL Sample ID: 01010307-09

Site: 7-0238,19802889

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		01/18/01 0:05	DL	534259
Surr: 1,4-Difluorobenzene	108	% 62-144	5		01/18/01 0:05	DL	534259
Surr: 4-Bromofluorobenzene	101	% 44-153	5		01/18/01 0:05	DL	534259
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	2.5	5		01/18/01 0:05	DL	534098
Ethylbenzene	ND	2.5	5		01/18/01 0:05	DL	534098
Methyl tert-butyl ether	36000	500	250		01/18/01 21:59	DL	535314
Toluene	ND	2.5	5		01/18/01 0:05	DL	534098
m,p-Xylene	ND	2.5	5		01/18/01 0:05	DL	534098
o-Xylene	ND	2.5	5		01/18/01 0:05	DL	534098
Xylenes, Total	ND	2.5	5		01/18/01 0:05	DL	534098
Surr: 1,4-Difluorobenzene	105	% 72-137	5		01/18/01 0:05	DL	534098
Surr: 1,4-Difluorobenzene	99.5	% 72-137	250		01/18/01 21:59	DL	535314
Surr: 4-Bromofluorobenzene	97.7	% 48-156	5		01/18/01 0:05	DL	534098
Surr: 4-Bromofluorobenzene	96.4	% 48-156	250		01/18/01 21:59	DL	535314

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.
229313x

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 01010307
Lab Batch ID: R27712

Method Blank

Samples in Analytical Batch:

RunID: HP_N_010115A-531603 Units: ug/L
Analysis Date: 01/15/2001 18:28 Analyst: D_R

Lab Sample ID	Client Sample ID
01010307-01A	W-BB-MW9D
01010307-02A	W-7-MW9D
01010307-03A	W-11-MW9H
01010307-04A	W-5-MW9F
01010307-05A	W-5-MW9G
01010307-06A	W-6-MW9A

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	83.5	72-137
Surr: 4-Bromofluorobenzene	95.2	48-156

Laboratory Control Sample (LCS)

RunID: HP_N_010115A-531600 Units: ug/L
Analysis Date: 01/15/2001 14:24 Analyst: D_R

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	50	50	101	70	130
Ethylbenzene	50	51	102	70	130
Methyl tert-butyl ether	50	41	83	70	130
Toluene	50	51	103	70	130
m,p-Xylene	100	100	104	70	130
o-Xylene	50	51	101	70	130
Xylenes, Total	150	151	101	70	130

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

Sample Spiked: 01010302-02
RunID: HP_N_010115A-531601 Units: ug/L
Analysis Date: 01/15/2001 16:45 Analyst: D_R

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	21	103	20	20	98.9	4.40	21	32	164
Ethylbenzene	ND	20	20	99.3	20	19	93.5	5.99	19	52	142
Methyl tert-butyl ether	290	20	300	65.7	20	290	9.99 *	147 *	20	39	150

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

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



Quality Control Report

EXXON Company U.S.A.

229313x

Analysis: Purgeable Aromatics
 Method: SW8021B

WorkOrder: 01010307
 Lab Batch ID: R27712

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

Sample Spiked: 01010302-02
 RunID: HP_N_010115A-531601 Units: ug/L
 Analysis Date: 01/15/2001 16:45 Analyst: D_R

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	20	102	20	20	97.5	4.92	20	38	159
p-Xylene	ND	40	41	103	40	40	99.3	3.98	17	53	144
m-Xylene	ND	20	21	105	20	20	102	2.52	18	53	143
Xylenes, Total	ND	60	62	103	60	60	100	3.28	18	53	144

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

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



Quality Control Report
EXXON Company U.S.A.
229313x

Analysis: Gasoline Range Organics
Method: CA_GRO

WorkOrder: 01010307
Lab Batch ID: R27715

Method Blank

Samples in Analytical Batch:

RunID: HP_N_010115B-531714 Units: mg/L
Analysis Date: 01/15/2001 16:19 Analyst: D_R

Lab Sample ID	Client Sample ID
01010307-01A	W-BB-MW9D
01010307-02A	W-7-MW9D
01010307-03A	W-11-MW9H
01010307-04A	W-5-MW9F
01010307-05A	W-5-MW9G
01010307-06A	W-6-MW9A

Analyte	Result	Rep Limit
Gasoline Range Organics	ND	0.050
Surr: 1,4-Difluorobenzene	89.0	62-144
Surr: 4-Bromofluorobenzene	93.3	44-153

Laboratory Control Sample (LCS)

RunID: HP_N_010115B-531713 Units: mg/L
Analysis Date: 01/15/2001 14:50 Analyst: D_R

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	0.78	78	70	130

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

Sample Spiked: 01010302-03
RunID: HP_N_010115B-531715 Units: mg/L
Analysis Date: 01/15/2001 17:37 Analyst: D_R

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	0.61	67.8	0.9	0.61	67.3	0.790	36	36	160

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

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



Quality Control Report
EXXON Company U.S.A.
229313x

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 01010307
Lab Batch ID: R27805

Method Blank

RunID: HP_U_010117A-533492 Units: ug/L
Analysis Date: 01/17/2001 12:18 Analyst: DL

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
01010307-05A	W-5-MW9G
01010307-06A	W-6-MW9A
01010307-07A	W-5-MW9B
01010307-08A	W-6-MW9C
01010307-09A	W-5-MW9I

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	99.1	72-137
Surr: 4-Bromofluorobenzene	98.6	48-156

Laboratory Control Sample (LCS)

RunID: HP_U_010117A-533491 Units: ug/L
Analysis Date: 01/17/2001 11:27 Analyst: DL

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	50	49	98	70	130
Ethylbenzene	50	47	94	70	130
Methyl tert-butyl ether	50	51	101	70	130
Toluene	50	48	96	70	130
m,p-Xylene	100	95	95	70	130
o-Xylene	50	47	94	70	130
Xylenes, Total	150	142	95	70	130

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

Sample Spiked: 01010313-02
RunID: HP_U_010117A-534079 Units: ug/L
Analysis Date: 01/17/2001 13:07 Analyst: DL

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	19	94.6	20	19	93.7	1.01	21	32	164
Ethylbenzene	ND	20	17	85.6	20	17	85.4	0.226	19	52	142
Methyl tert-butyl ether	ND	20	21	101	20	20	99.3	1.62	20	39	150

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

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



Quality Control Report

EXXON Company U.S.A.

229313x

Analysis: Purgeable Aromatics
 Method: SW8021B

WorkOrder: 01010307
 Lab Batch ID: R27805

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

Sample Spiked: 01010313-02
 RunID: HP_U_010117A-534079 Units: ug/L
 Analysis Date: 01/17/2001 13:07 Analyst: DL

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	18	90.3	20	18	89.8	0.559	20	38	159
m-Xylene	ND	40	33	83.7	40	33	83.2	0.542	17	53	144
p-Xylene	ND	20	17	83.6	20	17	83.9	0.389	18	53	143
Xylenes, Total	ND	60	50	83.3	60	50	83.3	0	18	53	144

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

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



Quality Control Report

EXXON Company U.S.A.

229313x

Analysis: Gasoline Range Organics
Method: CA_GRO

WorkOrder: 01010307
Lab Batch ID: R27865

Method Blank

Samples in Analytical Batch:

RunID: HP_U_010117B-534242 Units: mg/L
Analysis Date: 01/17/2001 11:53 Analyst: DL

Lab Sample ID Client Sample ID
01010307-08A W-6-MW9C
01010307-09A W-5-MW9I

Analyte	Result	Rep Limit
Gasoline Range Organics	ND	0.050
Surr: 1,4-Difluorobenzene	103.3	62-144
Surr: 4-Bromofluorobenzene	98.7	44-153

Laboratory Control Sample (LCS)

RunID: HP_U_010117B-534241 Units: mg/L
Analysis Date: 01/17/2001 11:02 Analyst: DL

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	0.82	82	70	130

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

Sample Spiked: 01010313-03
RunID: HP_U_010117B-534243 Units: mg/L
Analysis Date: 01/17/2001 13:58 Analyst: DL

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	0.8	89.2	0.9	0.8	89.0	0.287	36	36	160

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

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



Quality Control Report

EXXON Company U.S.A.

229313x

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 01010307
Lab Batch ID: R27880

Method Blank

Samples in Analytical Batch:

RunID: HP_U_010118A-534506 Units: ug/L
Analysis Date: 01/18/2001 11:28 Analyst: DL

Lab Sample ID	Client Sample ID
01010307-07A	W-5-MW9B
01010307-08A	W-6-MW9C
01010307-09A	W-5-MW9I

Analyte	Result	Rep Limit
Methyl tert-butyl ether	ND	2.0
Surr: 1,4-Difluorobenzene	99.2	72-137
Surr: 4-Bromofluorobenzene	95.8	48-156

Laboratory Control Sample (LCS)

RunID: HP_U_010118A-534505 Units: ug/L
Analysis Date: 01/18/2001 10:39 Analyst: DL

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Methyl tert-butyl ether	50	50	100	70	130

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

Sample Spiked: 01010461-02
RunID: HP_U_010118A-535307 Units: ug/L
Analysis Date: 01/18/2001 17:45 Analyst: DL

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Methyl tert-butyl ether	ND	20	17	82.6	20	18	86.5	4.52	20	39	150

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

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



Quality Control Report

EXXON Company U.S.A.

229313x

Analysis: Gasoline Range Organics
Method: CA_GRO

WorkOrder: 01010307
Lab Batch ID: R28067

Method Blank

Samples in Analytical Batch:

RunID: HP_U_010119B-537213 Units: mg/L
Analysis Date: 01/19/2001 15:49 Analyst: DL

Lab Sample ID Client Sample ID
01010307-07A W-5-MW9B

Analyte	Result	Rep Limit
Gasoline Range Organics	ND	0.050
Surr: 1,4-Difluorobenzene	104.3	62-144
Surr: 4-Bromofluorobenzene	82.7	44-153

Laboratory Control Sample (LCS)

RunID: HP_U_010119B-537210 Units: mg/L
Analysis Date: 01/19/2001 10:43 Analyst: DL

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	0.75	75	70	130

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

Sample Spiked: 01010324-03
RunID: HP_U_010119B-537211 Units: mg/L
Analysis Date: 01/19/2001 14:58 Analyst: DL

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	0.88	97.2	0.9	0.87	96.4	0.826	36	36	160

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

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

*Sample Receipt Checklist
And
Chain of Custody*



Sample Receipt Checklist

Workorder: 01010307
Date and Time Received: 1/12/01 10:00:00 AM
Temperature: 3

Received by: Stelly, D'Anna
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 checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input 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"/> | |