ExxonMobil Environmental Services Company
4096 Piedmont Avenue #194
Oakland, California 94611
510 547 8196 Telephone
510 547 8706 Facsimile

Jennifer C. Sedlachek
Project Manager

ExxonMobil

May 24, 2010

Ms. Barbara Jakub
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Subject: Former Mobil Station 04334, 2492 Castro Valley Boulevard, Castro Valley, California

Dear Ms. Jakub:

Attached for your review and comment is a copy of the *Report of Groundwater Monitoring, Second Quarter 2010* for the above-referenced site. The report, prepared by ETIC Engineering, Inc. of Pleasant Hill, California, details the results of the April 2010 sampling event.

Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached report is true and correct.

If you have any questions or comments, please contact me at 510.547.8196.

Sincerely,

Jennifer C. Sedlachek
Project Manager

Attachment: ETIC Groundwater Monitoring Report

c: w/ attachment:
Ms. Paula Floeck – Jiffy Lube International
Mr. Joseph D. Phillips – Jiffy Lube Remediation Coordinator
Mr. William Slautterback – Cal Lube Real Estate Limited Partnership
Mr. William Peterson – Owner of Castro Valley Lumber Company

c: w/o attachment:
Mr. Bryan Campbell – ETIC Engineering, Inc.

Report of Groundwater Monitoring
Second Quarter 2010

Former Mobil Station 04334
2492 Castro Valley Boulevard
Castro Valley, California

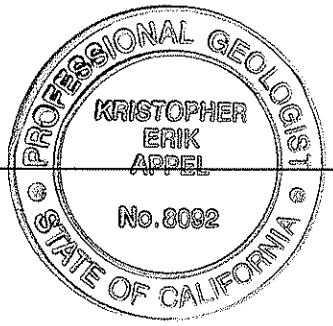
Prepared for

ExxonMobil Oil Corporation

Prepared by

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, California 94523
(925) 602-4710

K. Erik Appel, P.G. #8092
Senior Project Geologist



May 24, 2010
Date

May 2010

SITE CONTACTS

Site Name:	Former Mobil Station 04334
Site Address:	2492 Castro Valley Boulevard Castro Valley, California
ExxonMobil Project Manager:	Jennifer C. Sedlachek ExxonMobil Environmental Services Company 4096 Piedmont Avenue #194 Oakland, California 94611 (510) 547-8196
Consultant to ExxonMobil:	ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, California 94523 (925) 602-4710
ETIC Project Manager:	K. Erik Appel
Regulatory Oversight:	Barbara Jakub Alameda County Health Care Services Agency 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502 (510) 567-6700

INTRODUCTION

ETIC Engineering, Inc. (ETIC) has prepared this quarterly groundwater monitoring report for ExxonMobil Environmental Services Company on behalf of ExxonMobil Oil Corporation for the former Mobil Station 04334. This report presents the results for the most recent groundwater monitoring conducted at the site and summarizes recent site activities. This report covers site activities from 5 October 2009, the date of the previous monitoring event, to 6 April 2010, the date of the most recent monitoring event. Groundwater monitoring results, well construction details, and a groundwater monitoring plan are provided in the attached figures and tables. Groundwater monitoring protocols, field data, and analytical results are provided in the attached appendixes.

GENERAL SITE INFORMATION

Site name:	Former Mobil Station 04334
Site address:	2492 Castro Valley Boulevard, Castro Valley, California
Current property owner:	Cal Lube Real Estate Limited Partnership
Current site use:	Jiffy Lube Oil Change facility
Current phase of project:	Groundwater monitoring
Tanks at site:	Four former underground storage tanks removed 1983
Number of wells:	5 (3 onsite, 2 offsite)

GROUNDWATER MONITORING SUMMARY

Gauging and sampling date:	6 April 2010
Wells gauged and sampled:	MW1-MW5
Wells gauged only:	None
Groundwater flow direction:	South
Groundwater gradient:	0.011
Well screens submerged:	MW3
Well screens not submerged:	MW1, MW2, MW4, MW5
Liquid-phase hydrocarbons:	Not observed or detected
Laboratory:	Calscience Environmental Laboratories, Inc., Garden Grove, California

Analyses performed:

- Total Petroleum Hydrocarbons as gasoline and as diesel by EPA Method 8015B (M)
- Benzene, toluene, ethylbenzene, and xylenes by EPA Method 8021B
- Methyl tertiary butyl ether by EPA Method 8260B
- Ethyl tertiary butyl ether, tertiary amyl methyl ether, tertiary butyl alcohol, 1,2-dibromoethane, 1,2-dichloroethane, diisopropyl ether, and ethanol by EPA Method 8260B

ADDITIONAL ACTIVITIES PERFORMED

None.

WORK PROPOSED FOR NEXT QUARTER

The Alameda County Health Care Services Agency sent a letter dated 24 July 2009 recommending reducing groundwater monitoring from quarterly to semiannually. Semiannual groundwater monitoring will be conducted in the second and fourth quarters per the attached groundwater monitoring plan.

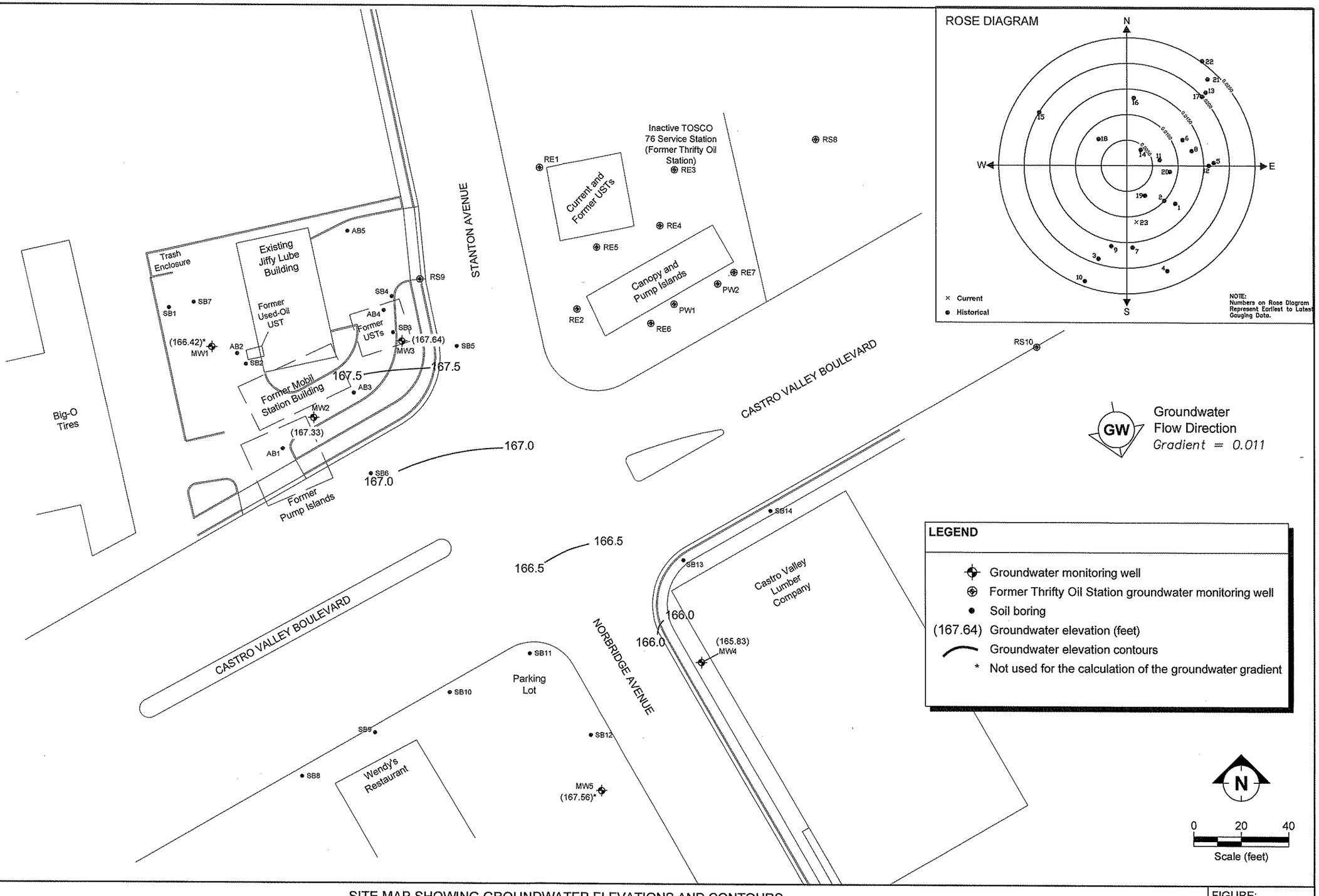
Attachments:

Figure 1: Site Map Showing Groundwater Elevations and Contours
Figure 2: Site Map Showing Groundwater Analytical Results

Table 1: Well Construction Details
Table 2: Groundwater Monitoring Data
Table 3: Groundwater Monitoring Plan

Appendix A: Field Protocols
Appendix B: Field Documents
Appendix C: Laboratory Analytical Reports and Chain-of-Custody Documentation

Figures

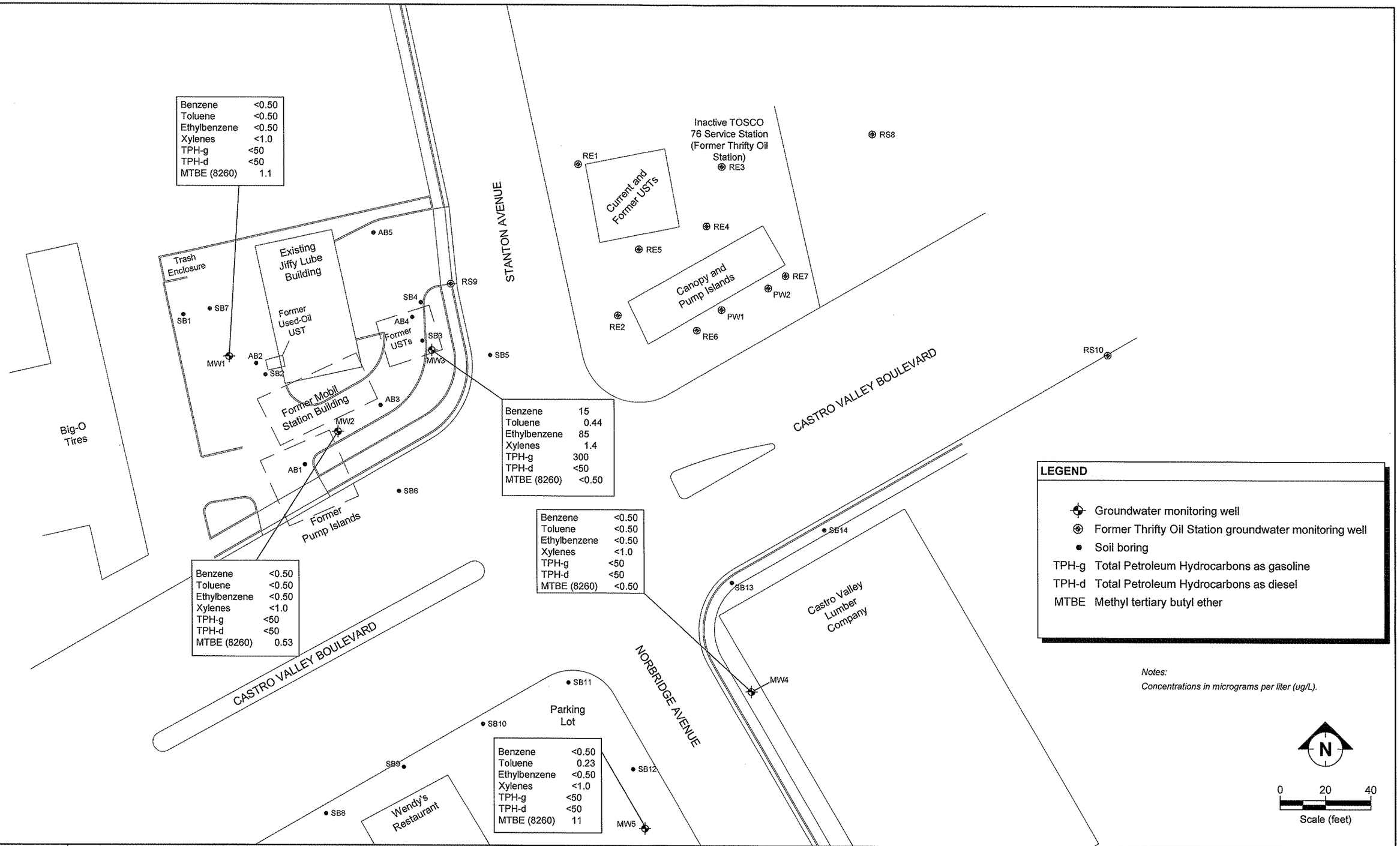


FILENAME: 1Q2010.DWG 04/22/10

ETIC ENGINEERING

SITE MAP SHOWING GROUNDWATER ELEVATIONS AND CONTOURS
FORMER MOBIL STATION 04334
2492 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CALIFORNIA
6 APRIL 2010

FIGURE:
1



ETIC ENGINEERING

SITE MAP SHOWING GROUNDWATER ANALYTICAL RESULTS
FORMER MOBIL STATION 04334
2492 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CALIFORNIA
6 APRIL 2010

FIGURE: **2**

FILENAME: 102010.DWG 04/22/10

Tables

TABLE 1 WELL CONSTRUCTION DETAILS, FORMER MOBIL STATION 04334, 2492 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CALIFORNIA

Well Number		Well Installation Date	Elevation TOC (feet)	Casing Material	Total Depth (feet)	Well Depth (feet)	Borehole Diameter (inches)	Casing Diameter (inches)	Screened Interval (feet)	Slot Size (inches)	Filter Pack Interval (feet)	Filter Pack Material
MW1	a	06/24/04	173.23	PVC	20	20	8.25	2	5 - 20	0.010	4.5 - 20	#2/12 Sand
MW2	a	06/25/04	173.63	PVC	20	20	8.25	2	5 - 20	0.010	4.5 - 20	#2/12 Sand
MW3	a	06/25/04	171.91	PVC	20	20	8.25	2	5 - 20	0.010	4.5 - 20	#2/12 Sand
MW4	a	06/24/04	170.48	PVC	15	14	8.25	2	4 - 14	0.010	3.5 - 15	#2/12 Sand
MW5	b	01/30/09	173.80	PVC	15	15	8.25	2	5 - 15	0.010	4.0 - 15	#2/12 Sand

Notes:

a Well surveyed on 12 July 2004 by Morrow Surveying.
b Well surveyed on 10 February 2009 by Morrow Surveying.

PVC Polyvinyl chloride.
TOC Top of casing.

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04334, 2492 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CALIFORNIA

Well ID		Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentration (µg/L) Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	MTBE	Other Oxygenates and Additives
MW1	a	08/13/04	173.23	7.32	165.91	<0.5	0.7	<0.5	1.0	<50	71	1.20 [b]	--
MW1		11/09/04	173.23	6.96	166.27	<0.5	0.9	<0.5	0.9	<50	63	1.50 [b]	--
MW1		02/16/05	173.23	6.10	167.13	<0.5	1.0	<0.5	1.5	<50	78	1.30 [b]	--
MW1		05/16/05	173.23	5.81	167.42	<0.5	<0.5	<0.5	<0.5	<50	<50	1.40 [b]	--
MW1		08/17/05	173.23	6.70	166.53	<0.5	<0.5	<0.5	<0.5	<50	<50	1.19 [b]	--
MW1		11/15/05	173.23	7.55	165.68	<0.5	<0.5	<0.5	<0.5	<50	<50	1.13 [b]	--
MW1		02/06/06	173.23	6.40	166.83	<0.5	<0.5	<0.5	<0.5	<50	160	<0.5 [b]	--
MW1		05/03/06	173.23	6.95	166.28	<1.00	<1.00	<1.00	<3.00	<50.0	78	<0.50 [b]	--
MW1		08/04/06	173.23	7.71	165.52	<0.50	<0.50	<0.50	<0.50	<50.0	167	<0.500 [b]	--
MW1		11/06/06	173.23	7.57	165.66	<0.50	<0.50	<0.50	<0.50	<50.0	<47.2	0.880 [b]	--
MW1		02/21/07	173.23	7.19	166.04	<0.50	<0.50	<0.50	<0.50	<50.0	<46.9	2.42 [b]	--
MW1		08/01/07	173.23	8.00	165.23	3.02	4.18	0.89	3.96	90.8	<47	1.54 [b]	--
MW1		10/25/07	173.23	7.90	165.33	<0.50	<0.50	<0.50	<0.50	<50.0	<47.2	1.63 [b]	--
MW1		01/31/08	173.23	6.60	166.63	<0.50	<0.50	<0.50	<0.50	<50	<50	1.8 [b]	--
MW1		05/01/08	173.23	7.80	165.43	<1.00	<1.00	<1.00	<3.00	<50.0	<47.2	1.67 [b]	--
MW1		07/31/08	173.23	8.15	165.08	<0.50	<0.50	<0.50	<0.50	<50	<47	1.7 [b]	--
MW1		11/07/08	173.23	8.11	165.12	<0.50	<0.50	<0.50	<0.50	<50	<47	1.4 [b]	--
MW1		01/29/09	173.23	7.75	165.48	<0.50	0.21 [e,f]	<0.50	0.30 [e,f]	<50	<50	1.6 [b]	--
MW1		04/15/09	173.23	7.55	165.68	<0.50	<0.50	<0.50	<1.0	<50	<50	1.6 [b]	19 [g], 22 [h,e]
MW1		07/21/09	173.23	8.14	165.09	<0.50	<0.50	<0.50	<1.0	<50	<50	1.2 [b]	ND
MW1		10/05/09	173.23	8.32	164.91	<0.50	<0.50	<0.50	<1.0	<50	<50	1.1 [b]	ND
MW1		**04/06/10**	**173.23**	**6.81**	**166.42**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<50**	**<50**	**1.1 [b]**	**ND**
MW2	a	08/13/04	173.63	6.96	166.67	<0.5	0.8	<0.5	1.0	<50	57	<0.5 [b]	--
MW2		11/09/04	173.63	6.44	167.19	<0.5	1.1	<0.5	1.2	<50	<50	<0.5 [b]	--
MW2		02/16/05	173.63	5.21	168.42	<0.5	0.9	<0.5	1.4	<50	55	<0.5 [b]	--
MW2		05/16/05	173.63	5.86	167.77	<0.5	<0.5	<0.5	<0.5	<50	<50	<0.5 [b]	--
MW2		08/17/05	173.63	5.72	167.91	<0.5	<0.5	<0.5	<0.5	<50	<50	<0.5 [b]	--
MW2		11/15/05	173.63	7.65	165.98	<0.5	<0.5	<0.5	<0.5	<50	<50	<0.5 [b]	--

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04334, 2492 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CALIFORNIA

Well ID		Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentration (µg/L) Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	MTBE	Other Oxygenates and Additives
MW2		02/06/06	173.63	6.24	167.39	<0.5	<0.5	<0.5	<0.5	<50	<50	<0.5 [b]	--
MW2		05/03/06	173.63	6.53	167.10	<1.00	<1.00	<1.00	<3.00	<50.0	<50	<0.50[b]	--
MW2		08/04/06	173.63	7.65	165.98	<0.50	<0.50	<0.50	<0.50	<50.0	<47.2	<0.500[b]	--
MW2		11/06/06	173.63	6.98	166.65	<0.50	<0.50	<0.50	<0.50	<50.0	<46.9	<0.500[b]	--
MW2		02/21/07	173.63	6.36	167.27	<0.50	<0.50	<0.50	<0.50	<50.0	<46.9	1.70[b]	--
MW2		05/01/07	173.63	7.51	166.12	<0.50	<0.50	<0.50	<0.50	<50.0	<46.9	<0.50[b]	--
MW2		08/01/07	173.63	8.12	165.51	<0.50	<0.50	<0.50	<0.50	<50.0	<47	<0.500[b]	--
MW2		10/25/07	173.63	7.79	165.84	<0.50	<0.50	<0.50	<0.50	<50.0	<47.2	<0.500[b]	--
MW2		01/31/08	173.63	5.89	167.74	<0.50	<0.50	<0.50	<0.50	<50	<50	0.82[b]	--
MW2		05/01/08	173.63	7.81	165.82	<1.00	<1.00	<1.00	<3.00	<50.0	<47.2	<0.500[b]	--
MW2		07/31/08	173.63	8.30	165.33	<0.50	<0.50	<0.50	<0.50	<50	<47	<0.50[b]	--
MW2		11/07/08	173.63	8.09	165.54	<0.50	<0.50	<0.50	<0.50	<50	<47	<0.50[b]	--
MW2		01/29/09	173.63	7.65	165.98	<0.50	<0.50	<0.50	<1.0	<50	<50	<0.50[b]	--
MW2		04/15/09	173.63	7.51	166.12	<0.50	<0.50	<0.50	<1.0	<50	<50	0.50[b,e]	6.5[g,e]
MW2		07/21/09	173.63	8.27	165.36	<0.50	<0.50	<0.50	<1.0	<50	<50	0.12[b,e]	ND
MW2		10/05/09	173.63	8.54	165.09	<0.50	<0.50	<0.50	<1.0	<50	<50	0.14[b,e]	ND
MW2		**04/06/10**	**173.63**	**6.30**	**167.33**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<50**	**<50**	**0.53[b]**	**ND**
MW3	a	08/13/04	171.91	5.36	166.55	100	2.0	187	59.6	1,440	352	<0.5 [b]	--
MW3		11/09/04	171.91	4.80	167.11	188	3.6	242	20.0	1,690	461	<0.5 [b]	--
MW3		02/16/05	171.91	3.10	168.81	66.2	1.4	61.1	12.6	575	269	<0.5 [b]	--
MW3		05/16/05	171.91	3.86	168.05	74.2	1.4	61.0	9.0	592	92	<0.5 [b]	--
MW3		08/17/05	171.91	4.75	167.16	231[c]	2.35	102	11.4	1,130	416	<0.5 [b]	--
MW3		11/15/05	171.91	6.56	165.35	57.4	0.95	62.4	10.5	452	193	<0.5 [b]	--
MW3		02/06/06	171.91	4.00	167.91	69	<5.0	64	10	830	165	<0.5 [b]	--
MW3		05/03/06	171.91	5.44	166.47	52.1	<1.00	37.0	4.81	605	140	<0.50 [b]	--
MW3		08/04/06	171.91	5.25	166.66	15.2	<0.50	5.34	1.25	262	108	<0.500 [b]	--
MW3		11/06/06	171.91	4.11	167.80	60.0	1.04	47.3	3.09	561	106	<0.500 [b]	--
MW3		02/21/07	171.91	4.94	166.97	35.1	<0.50	45.4	1.09	483	125	<0.500 [b]	--

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04334, 2492 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CALIFORNIA

Well ID		Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentration (µg/L) Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	MTBE	Other Oxygenates and Additives
MW3		05/01/07	171.91	5.86	166.05	32.5	1.63	28.7	1.53	539	120	<0.50 [b]	--
MW3		08/01/07	171.91	7.54	164.37	1.26	0.60	<0.50	<0.50	89.2	<47	<0.500[b]	--
MW3		10/25/07	171.91	6.30	165.61	2.94	<0.50	<0.50	<0.50	50.4	<47.2	<0.500[b]	--
MW3		01/31/08	171.91	3.75	168.16	10	<0.50	11	<0.50	120	51[d]	<0.50[b]	--
MW3		05/01/08	171.91	6.60	165.31	2.38	<1.00	<1.00	<3.00	<50.0	<47.2	<0.500[b]	--
MW3		07/31/08	171.91	7.77	164.14	<0.50	<0.50	<0.50	<0.50	<50	<47	<0.50[b]	--
MW3		11/07/08	171.91	6.34	165.57	3.6	<0.50	1.4	<0.50	<50	<47	<0.50[b]	--
MW3		01/29/09	171.91	5.86	166.05	13	0.33[e]	13	0.52[e,f]	92	<50	<0.50[b]	--
MW3		04/15/09	171.91	6.14	165.77	2.2	<0.50	3.2	<1.0	51	<50	<0.50[b]	3.7[g,e]
MW3		07/21/09	171.91	7.74	164.17	0.24[e]	<0.50	<0.50	<1.0	<50	<50	<0.50[b]	0.11[j,e]
MW3		10/05/09	171.91	8.15	163.76	<0.50	<0.50	<0.50	<1.0	<50	<50	<0.50[b]	0.084[j,e]
MW3		**04/06/10**	**171.91**	**4.27**	**167.64**	**15**	**0.44[e]**	**85**	**1.4**	**300[k]**	**<50**	**<0.50[b]**	**ND**
MW4	a	08/13/04	170.48	6.10	164.38	<0.5	0.8	<0.5	1.1	<50	72	2.80 [b]	--
MW4		11/09/04	170.48	5.54	164.94	<0.5	2.3	0.7	1.5	<50	<50	2.10 [b]	--
MW4		02/16/05	170.48	5.11	165.37	<0.5	1.1	<0.5	1.7	<50	<50	<0.5 [b]	--
MW4		05/16/05	170.48	5.44	165.04	<0.5	<0.5	<0.5	<0.5	<50	<50	<0.5 [b]	--
MW4		08/17/05	170.48	5.71	164.77	<0.5	<0.5	<0.5	<0.5	<50	<50	1.03 [b]	--
MW4		11/15/05	170.48	5.80	164.68	<0.5	<0.5	<0.5	<0.5	<50	<50	0.730 [b]	--
MW4		02/06/06	170.48	5.10	165.38	<0.5	<0.5	<0.5	<0.5	<50	85.2	<0.5 [b]	--
MW4		05/03/06	170.48	5.54	164.94	<1.00	<1.00	<1.00	<3.00	<50.0	<47	<0.50 [b]	--
MW4		08/04/06	170.48	5.75	164.73	<0.50	<0.50	<0.50	<0.50	<50.0	52.7	<0.500 [b]	--
MW4		11/06/06	170.48	5.95	164.53	<0.50	<0.50	<0.50	<0.50	<50.0	<47.2	<0.500 [b]	--
MW4		02/21/07	170.48	5.56	164.92	<0.50	<0.50	<0.50	<0.50	<50.0	<46.9	<0.500 [b]	--
MW4		05/01/07	170.48	5.66	164.82	<0.50	<0.50	<0.50	<0.50	<50.0	<46.9	<0.50 [b]	--
MW4		08/01/07	170.48	6.06	164.42	0.85	<0.50	<0.50	0.97	<50.0	<47	<0.870[b]	--
MW4		10/25/07	170.48	5.34	165.14	<0.50	<0.50	<0.50	<0.50	<50.0	<47.2	<0.500[b]	--
MW4		01/31/08	170.48	5.05	165.43	<0.50	<0.50	<0.50	<0.50	<50	<47	<0.50[b]	--
MW4		05/01/08	170.48	5.86	164.62	<1.00	<1.00	<1.00	<3.00	<50.0	<47.2	<0.500[b]	--
MW4		07/31/08	170.48	6.10	164.38	<0.50	<0.50	<0.50	<0.50	<50	<47	<0.50[b]	--

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04334, 2492 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CALIFORNIA

Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentration (µg/L) Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	MTBE	Other Oxygenates and Additives
MW4	11/07/08	170.48	5.65	164.83	<0.50	<0.50	<0.50	<0.50	<50	<47	<0.50[b]	--
MW4	01/29/09	170.48	5.80	164.68	<0.50	0.19[e,f]	<0.50	<1.0	<50	<50	<0.50[b]	--
MW4	04/15/09	170.48	5.90	164.58	<0.50	<0.50	<0.50	<1.0	<50	<50	0.15[b,e]	ND
MW4	07/21/09	170.48	6.00	164.48	<0.50	<0.50	<0.50	<1.0	<50	<50	0.16[b,e]	ND
MW4	10/05/09	170.48	6.01	164.47	<0.50	<0.50	<0.50	<1.0	<50	<50	0.18[b,e]	ND
MW4	**04/06/10**	**170.48**	**4.65**	**165.83**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<50**	**<50**	**<0.50[b]**	**ND**
MW5 [i]	03/04/09	173.80	4.70	169.10	<0.50	<0.50	<0.50	<1.0	150	--	10[b]	ND
MW5	04/15/09	173.80	5.17	168.63	<0.50	<0.50	<0.50	<1.0	<50	<50	9.3[b]	24[h,e]
MW5	07/21/09	173.80	5.05	168.75	<0.50	<0.50	<0.50	<1.0	<50	<50	7.0[b]	ND
MW5	10/05/09	173.80	4.41	169.39	<0.50	<0.50	<0.50	<1.0	<50	<50	8.2[b]	ND
MW5	**04/06/10**	**173.80**	**6.24**	**167.56**	**<0.50**	**0.23[e,f]**	**<0.50**	**<1.0**	**<50**	**<50**	**11[b]**	**ND**

Notes: Depth-to-water-level measurements in feet from top-of-casing.
Other Oxygenates and Additives include ethyl tertiary butyl ether, tertiary amyl methyl ether, tertiary butyl alcohol, 1,2-dibromoethane, 1,2-dichloroethane, diisopropyl ether, and ethanol which are individually identified only if detected above the laboratory reporting limit. Analyzed by EPA Method 8260B.

a Top-of-casing elevation surveyed by Morrow Surveying on 12 July 2004.
b Analyzed by EPA Method 8260 or 8260B.
c Concentration estimated. Analyte exceeded calibration range. Reanalysis not performed due to holding time requirements.
d Does not match typical pattern.
e Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
f Analyte presence was not confirmed by second column or GC/MS analysis.
g Tertiary butyl alcohol.
h Ethanol.
i Top-of-casing elevation surveyed by Morrow Surveying on 10 February 2009.
j 1,2-Dichloroethane.
k The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.

MTBE Methyl tertiary butyl ether.
TPH-d Total Petroleum Hydrocarbons as diesel.
TPH-g Total Petroleum Hydrocarbons as gasoline.

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04334, 2492 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CALIFORNIA

					Concentration (µg/L)							
Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	MTBE	Other Oxygenates and Additives

ND Not detected at or above laboratory reporting limits.

µg/L Micrograms per liter.
-- Not sampled or not analyzed.

TABLE 3 GROUNDWATER MONITORING PLAN, FORMER MOBIL STATION 04334, 2492 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CALIFORNIA

Well Number	Groundwater Gauging Frequency	Groundwater Sampling and Analysis Frequency	
		BTEX, TPH-g, and TPH-d	MTBE
MW1	SA	SA	SA
MW2	SA	SA	SA
MW3	SA	SA	SA
MW4	SA	SA	SA
MW5	SA	SA	SA

Notes:

BTEX	Benzene, toluene, ethylbenzene, and xylenes.
MTBE	Methyl tertiary butyl ether.
SA	Semiannually (During the second and fourth quarters of each year).
TPH-d	Total Petroleum Hydrocarbons as diesel.
TPH-g	Total Petroleum Hydrocarbons as gasoline.

Appendix A

Field Protocols

PROTOCOLS FOR QUARTERLY GROUNDWATER MONITORING

GROUNDWATER GAUGING

Wells are opened prior to gauging to allow the groundwater level in the wells to equilibrate with atmospheric pressure. The depth to groundwater and depth to liquid-phase hydrocarbons, if present, are then measured to the nearest 0.01 feet using an electronic water level meter or optical interface probe. The measurements are made from a permanent reference point at the top of the well casing. If less than 1 foot of water is measured in a well, the water is bailed from the well and, if the well does not recover, the well is considered "functionally dry." Wells with a sheen or measurable liquid-phase hydrocarbons are generally not purged or sampled.

WELL PURGING

After the wells are gauged, each well is purged of approximately 3 well casing volumes of water to provide representative groundwater samples for analysis. Field parameters of pH, temperature, and electrical conductance are measured during purging to ensure that these parameters have stabilized before groundwater in a well is sampled. Groundwater in each well is purged using an inertial pump (WaTerra), an electric submersible pump, or a bailer. After the well is purged, the water level is checked to ensure that the well has recharged to at least 80 percent of its original water level.

GROUNDWATER SAMPLING

After purging, groundwater in each well is sampled using dedicated tubing and an inertial pump (WaTerra) or a factory-cleaned disposable bailer. Samples from extraction wells are typically collected from sample ports associated with the groundwater remediation system. Samples collected for volatile organic analysis are placed in Teflon septum-sealed 40-milliliter glass vials. Samples collected for diesel analysis are placed in 1-liter amber glass bottles. Each sample bottle is labeled with the site name, well number, date, sampler's initials, and preservative. The samples are placed in a cooler with ice for delivery to a state-certified laboratory. The information for each sample is entered on a chain-of-custody form prior to transport to the laboratory.

Appendix B

Field Documents

ETIC ENGINEERING

MONITORING WELL DATA FORM

Client: **Former Exxon 04334**

Date: 04-06-10

Project Number: **UP04334.1.6**

Station Number: **04334**

Site Location: **2492 Castro Valley Boulevard, Castro Valley, California**

Samplers: Alex

MONITORING WELL NUMBER	DEPTH TO WATER (TOC)FT.	DEPTH TO PRODUCT (TOC)FT.	APPARENT PRODUCT THICKNESS (FT.)	AMOUNT OF PRODUCT REMOVED(L)	MONITORING WELL INTEGRITY	DEPTH TO BOTTOM (TOC)	WELL CASING DIAMETER
MW1	6.31	N.P.	0	0	OK	19.58	**2"**
MW2	6.30	N.P.	0	0	OK	20.20	**2"**
MW3	4.27	N.P.	0	0	OK	20.10	**2"**
MW4	4.65	N.P.	0	0	OK	14.15	**2"**
MW5	6.24	N.P.	0	8	OK	15.10	**2"**

ETIC ENGINEERING
Engineering, Inc.

GROUNDWATER PURGE AND SAMPLE FORM

Project Name:	Exxon 04334	Well No: MW 1	Date: 04-06-10
Project No:	UP04-334.1.6	Personnel: ALEX	

GAUGING DATA

Water Level Measuring Method: (WLM) / IP — Measuring Point Description: TOC

WELL PURGE VOLUME CALCULATION	Total Depth (feet)		Depth to Water (feet)		Water Column (feet)		Multiplier for Casing Diameter				Casing Volume (gal)		Total Purge Volume (gal)
	17.88	(-)	6.81	(=)	13.07	(X)	1	(2)	4	6	2.09	(=)	6.27
							0.04	0.16	0.64	1.44			

PURGING DATA

Purge Method: (WATERRA) / BAILER / SUB — Purge Rate: GPM

Time	0817	0820	0823			
Volume Purge (gal)	2.5	5	7.5			
Temperature (C)	16.4	15.5	18.6			
pH	7.66	7.19	7.23			
Spec.Cond.(umhos)	1178	1182	1190			
Turbidity/Color	SLTY/BRN	SLTY/BRN	SLTY/BRN			
Odor (Y/N)	N	N	N			
Casing Volumes	1	2	3			
Dewatered (Y/N)	N	N	N			

Comments/Observations:

SAMPLING DATA

Time Sampled: 0836 — Approximate Depth to Water During Sampling: 7.6 (feet)

Comments:

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
MW1	6	Voa	HCL	40 ml		TPH-g, BTEX, MTBE
MW1	2	AMBERS	NONE ~~HCL~~	1L		TPH-D

Total Purge Volume: 7.5 (gallons) — Disposal: SYSTEM

Weather Conditions: OK

Condition of Well Box and Casing at Time of Sampling: OK

Well Head Conditions Requiring Correction: NONE

Problems Encountered During Purging and Sampling: NONE

Comments:

BOLTS	(Y)	/ N
CAP & LOCK	(Y)	/ N
GROUT	(Y)	/ N
WELL BOX	(Y)	/ N
SECURED	(Y)	N

ETIC ENGINEERING
Engineering, Inc.

GROUNDWATER PURGE AND SAMPLE FORM

Project Name:	Exxon 04334	Well No: MW2	Date: 04-06-16
Project No:	UP04-334.1.6	Personnel: ALEX	

GAUGING DATA

Water Level Measuring Method: (WLM) IP Measuring Point Description: TOC

WELL PURGE VOLUME CALCULATION	Total Depth (feet)		Depth to Water (feet)		Water Column (feet)		Multiplier for Casing Diameter				Casing Volume (gal)		Total Purge Volume (gal)
	20.20	(-)	6.30	(=)	13.90	(X)	1	(2)	4	6	2.32	(=)	6.67
							0.04	0.16	0.64	1.44			

PURGING DATA

Purge Method: (WATERRA) / BAILER / SUB Purge Rate: GPM

Time	0901	0904	0907			
Volume Purge (gal)	2.5	5	7.5			
Temperature (C)	17.5	18.3	18.5			
pH	7.28	7.18	7.16			
Spec.Cond.(umhos)	953	929	947			
Turbidity/Color	SLTY/BRN	SLTY/BRN	SLTY/BRN			
Odor (Y/N)	N	N	N			
Casing Volumes	1	2	3			
Dewatered (Y/N)	N	N	N			

Comments/Observations:

SAMPLING DATA

Time Sampled: 0915 Approximate Depth to Water During Sampling: 7.20 (feet)

Comments:

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
MW2	6	Voa	HCL	40 ml		TPH-g, BTEX, MTBE
MW2	2	AMBERS	HCL	1L		TPH-D

Total Purge Volume: 7.5 (gallons) Disposal: SYSTEM

Weather Conditions: OK

Condition of Well Box and Casing at Time of Sampling: OK

Well Head Conditions Requiring Correction: NONE

Problems Encountered During Purging and Sampling: NONE

Comments:

BOLTS	(Y)	/ N
CAP & LOCK	(Y)	/ N
GROUT	(Y)	/ N
WELL BOX.	(Y)	/ N
SECURED	(Y)	/ N

ETIC ENGINEERING
Engineering, Inc.

GROUNDWATER PURGE AND SAMPLE FORM

Project Name:	Exxon 04334	Well No: MW3	Date: 04-06-10
Project No:	UP04-334.1.6	Personnel: AWF	

GAUGING DATA

Water Level Measuring Method: WLM / IP — Measuring Point Description: TOC

WELL PURGE VOLUME CALCULATION	Total Depth (feet)		Depth to Water (feet)		Water Column (feet)		Multiplier for Casing Diameter				Casing Volume (gal)		Total Purge Volume (gal)
	20.10	-	4.27	=	15.83	X	1	(2)	4	6	2.53	=	7.59
							0.04	0.16	0.64	1.44			

PURGING DATA

Purge Method: WATERRA / BAILER / SUB — Purge Rate: GPM

Time	0942	0945	0948			
Volume Purge (gal)	3	6	9			
Temperature (C)	18.9	18.0	17.7			
pH	7.20	7.08	7.05			
Spec.Cond.(umhos)	1249	1346	1339			
Turbidity/Color	CLEAR/NONE	CLEAR/NONE	CLEAR/NONE			
Odor (Y/N)	N	N	N			
Casing Volumes	1	2	3			
Dewatered (Y/N)	N	N	N			

Comments/Observations:

SAMPLING DATA

Time Sampled: 0955 — Approximate Depth to Water During Sampling: 5.0 (feet)

Comments:

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
MW3	6	Voa	HCL	40 ml		TPH-g, BTEX, MTBE
MW3	2	AMBERS	HCL	1L		TPH-D

Total Purge Volume: 9 (gallons) — Disposal: SYSTEM

Weather Conditions: OK

Condition of Well Box and Casing at Time of Sampling: OK

Well Head Conditions Requiring Correction: NONE

Problems Encountered During Purging and Sampling: NONE

Comments:

BOLTS	(Y)	/ N
CAP & LOCK	(Y)	/ N
GROUT	(Y)	/ N
WELL BOX.	(Y)	/ N
SECURED	(Y)	/ N

ETIC ENGINEERING
Engineering, Inc.

GROUNDWATER PURGE AND SAMPLE FORM

Project Name:	Exxon 04334	Well No:	MW4	Date:	04-06-10
Project No:	UP04-334.1.6	Personnel:	AMX		

GAUGING DATA

Water Level Measuring Method: WLM / IP Measuring Point Description: TOC

WELL PURGE VOLUME CALCULATION	Total Depth (feet)		Depth to Water (feet)		Water Column (feet)		Multiplier for Casing Diameter				Casing Volume (gal)		Total Purge Volume (gal)
	14.15	-	4.65	=	9.5	X	1	(2)	4	6	1.52	=	4.56
							0.04	0.16	0.64	1.44			

PURGING DATA

Purge Method: WATERRA / (BAILER) / SUB Purge Rate: GPM

Time	1108	1111	1114			
Volume Purge (gal)	2	4	6			
Temperature (C)	16.4	16.2	16.3			
pH	7.49	7.43	7.45			
Spec.Cond.(umhos)	723	720	767			
Turbidity/Color	SLTLY/BRN	SLTLY/BRN	SLTLY/BRN			
Odor (Y/N)	N	N	N			
Casing Volumes	1	2	3			
Dewatered (Y/N)	N	N	N			

Comments/Observations:

SAMPLING DATA

Time Sampled: 1120 Approximate Depth to Water During Sampling: 5.0 (feet)

Comments:

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
MW4	6	Voa	HCL	40 ml		TPH-g, BTEX, MTBE
MW4	2	AMBERS	HCL	1L		TPH-D

Total Purge Volume: 6 (gallons) Disposal: SYSTEM

Weather Conditions: OK

Condition of Well Box and Casing at Time of Sampling: OK

Well Head Conditions Requiring Correction: NONE

Problems Encountered During Purging and Sampling: NONE

Comments:

BOLTS	(Y)	/ N
CAP & LOCK	(Y)	/ N
GROUT	(Y)	/ N
WELL BOX.	(Y)	/ N
SECURED	(Y)	/ N

ETIC ENGINEERING
Engineering, Inc.

GROUNDWATER PURGE AND SAMPLE FORM

Project Name:	Exxon 04334	Well No: MW5	Date: 04-06-10
Project No:	UP04-334.1.6	Personnel: AMY	

GAUGING DATA

Water Level Measuring Method: (WLM) / IP Measuring Point Description: TOC

WELL PURGE VOLUME CALCULATION	Total Depth (feet)		Depth to Water (feet)		Water Column (feet)		Multiplier for Casing Diameter				Casing Volume (gal)		Total Purge Volume (gal)
							1	(2)	4	6			
	15.10	−	6.24	=	8.86	X	0.04	0.16	0.64	1.44	1.41	=	4.25

PURGING DATA

Purge Method: WATERRA / BAILER / SUB Purge Rate: GPM

Time	1030	1035	1040			
Volume Purge (gal)	1.5	3	4.5			
Temperature (C)	21.9	20.2	19.9			
pH	7.50	7.38	7.32			
Spec.Cond.(umhos)	1382	1340	1354			
Turbidity/Color	SLTY/BRN	SLTY/BRN	SLTY/BRN			
Odor (Y/N)	N	N	N			
Casing Volumes	1	2	3			
Dewatered (Y/N)	N	N	N			

Comments/Observations:

SAMPLING DATA

Time Sampled: 1130 Approximate Depth to Water During Sampling: 7.00 (feet)

Comments:

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
MW5	6	Voa	HCL	40 ml		TPH-g, BTEX, MTBE
MW5	2	AMBERS	HCL	1L		TPH-D

Total Purge Volume: 4.5 (gallons) Disposal: SYSTEM

Weather Conditions: OK

Condition of Well Box and Casing at Time of Sampling: OK

Well Head Conditions Requiring Correction: NONE

Problems Encountered During Purging and Sampling: NONE

Comments:

BOLTS	(Y)	/ N
CAP & LOCK	(Y)	/ N
GROUT	(Y)	/ N
WELL BOX.	(Y)	/ N
SECURED	(Y)	/ N

Appendix C

Laboratory Analytical Reports and Chain-of-Custody Documentation

Calscience
Environmental
Laboratories, Inc.

April 14, 2010

Erik Appel
ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Subject: **Calscience Work Order No.: 10-04-0538**
Client Reference: ExxonMobil 04334 / 2492 Castro Valley, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 4/8/2010 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Cecile L deGuia

Calscience Environmental
Laboratories, Inc.
Cecile deGuia
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ETIC Engineering, Inc.	Date Received:	04/08/10
2285 Morello Avenue	Work Order No:	10-04-0538
Pleasant Hill, CA 94523-1850	Preparation:	EPA 3510C
	Method:	EPA 8015B (M)

Project: ExxonMobil 04334 / 2492 Castro Valley, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW1	**10-04-0538-1-H**	**04/06/10 08:30**	**Aqueous**	**GC 47**	**04/12/10**	**04/12/10 23:01**	**100412B01**

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.
-Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Diesel	ND	50	47	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**			**Qual**	
Decachlorobiphenyl	75	68-140				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW2	**10-04-0538-2-H**	**04/06/10 09:15**	**Aqueous**	**GC 47**	**04/12/10**	**04/12/10 23:16**	**100412B01**

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.
-Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Diesel	ND	50	47	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**			**Qual**	
Decachlorobiphenyl	96	68-140				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW3	**10-04-0538-3-H**	**04/06/10 09:55**	**Aqueous**	**GC 47**	**04/12/10**	**04/12/10 23:32**	**100412B01**

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.
-Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Diesel	ND	50	47	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**			**Qual**	
Decachlorobiphenyl	97	68-140				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW4	**10-04-0538-4-H**	**04/06/10 11:20**	**Aqueous**	**GC 47**	**04/12/10**	**04/12/10 23:47**	**100412B01**

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.
-Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Diesel	ND	50	47	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**			**Qual**	
Decachlorobiphenyl	100	68-140				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ETIC Engineering, Inc.		Date Received:	04/08/10
2285 Morello Avenue		Work Order No:	10-04-0538
Pleasant Hill, CA 94523-1850		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)

Project: ExxonMobil 04334 / 2492 Castro Valley, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW5	**10-04-0538-5-H**	**04/06/10 11:30**	**Aqueous**	**GC 47**	**04/12/10**	**04/13/10 00:03**	**100412B01**

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.
-Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Diesel	ND	50	47	1		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
Decachlorobiphenyl	94	68-140				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-330-1,481**	**N/A**	**Aqueous**	**GC 47**	**04/12/10**	**04/12/10 22:14**	**100412B01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Diesel	ND	50	47	1		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
Decachlorobiphenyl	115	68-140				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ETIC Engineering, Inc.		Date Received:	04/08/10
2285 Morello Avenue		Work Order No:	10-04-0538
Pleasant Hill, CA 94523-1850		Preparation:	EPA 5030B
		Method:	EPA 8015B (M)

Project: ExxonMobil 04334 / 2492 Castro Valley, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW1	**10-04-0538-1-E**	**04/06/10 08:30**	**Aqueous**	**GC 29**	**04/09/10**	**04/09/10 21:42**	**100409B01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Gasoline	ND	50	48	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**			**Qual**	
1,4-Bromofluorobenzene	85	38-134				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW2	**10-04-0538-2-E**	**04/06/10 09:15**	**Aqueous**	**GC 29**	**04/09/10**	**04/09/10 22:16**	**100409B01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Gasoline	ND	50	48	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**			**Qual**	
1,4-Bromofluorobenzene	86	38-134				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW3	**10-04-0538-3-E**	**04/06/10 09:55**	**Aqueous**	**GC 29**	**04/09/10**	**04/09/10 22:50**	**100409B01**

Comment(s): -The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.
-Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Gasoline	300	50	48	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**			**Qual**	
1,4-Bromofluorobenzene	100	38-134				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW4	**10-04-0538-4-E**	**04/06/10 11:20**	**Aqueous**	**GC 29**	**04/09/10**	**04/09/10 23:23**	**100409B01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Gasoline	ND	50	48	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**			**Qual**	
1,4-Bromofluorobenzene	90	38-134				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ETIC Engineering, Inc.		Date Received:	04/08/10
2285 Morello Avenue		Work Order No:	10-04-0538
Pleasant Hill, CA 94523-1850		Preparation:	EPA 5030B
		Method:	EPA 8015B (M)

Project: ExxonMobil 04334 / 2492 Castro Valley, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW5	**10-04-0538-5-E**	**04/06/10 11:30**	**Aqueous**	**GC 29**	**04/09/10**	**04/09/10 23:57**	**100409B01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Gasoline	ND	50	48	1		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
1,4-Bromofluorobenzene	87	38-134				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-436-4,609**	**N/A**	**Aqueous**	**GC 29**	**04/09/10**	**04/09/10 10:31**	**100409B01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Gasoline	ND	50	48	1		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
1,4-Bromofluorobenzene	95	38-134				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH NELAC

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 04/08/10
Work Order No: 10-04-0538
Preparation: EPA 5030B
Method: EPA 8021B
Units: ug/L

Project: ExxonMobil 04334 / 2492 Castro Valley, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW1	10-04-0538-1-D	04/06/10 08:30	Aqueous	GC 8	04/08/10	04/08/10 20:46	100408B01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Benzene	ND	0.50	0.14	1		Ethylbenzene	ND	0.50	0.17	1	
Toluene	ND	0.50	0.17	1		Xylenes (total)	ND	1.0	0.26	1	

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	90	70-130	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW2	10-04-0538-2-D	04/06/10 09:15	Aqueous	GC 8	04/08/10	04/08/10 21:17	100408B01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Benzene	ND	0.50	0.14	1		Ethylbenzene	ND	0.50	0.17	1	
Toluene	ND	0.50	0.17	1		Xylenes (total)	ND	1.0	0.26	1	

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	92	70-130	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW3	10-04-0538-3-D	04/06/10 09:55	Aqueous	GC 8	04/08/10	04/08/10 21:47	100408B01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Benzene	15	0.50	0.14	1		Ethylbenzene	85	0.50	0.17	1	
Toluene	0.44	0.50	0.17	1	J	Xylenes (total)	1.4	1.0	0.26	1	

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	98	70-130	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW4	10-04-0538-4-D	04/06/10 11:20	Aqueous	GC 8	04/08/10	04/08/10 22:17	100408B01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Benzene	ND	0.50	0.14	1		Ethylbenzene	ND	0.50	0.17	1	
Toluene	ND	0.50	0.17	1		Xylenes (total)	ND	1.0	0.26	1	

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	90	70-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ETIC Engineering, Inc.	Date Received:	04/08/10
2285 Morello Avenue	Work Order No:	10-04-0538
Pleasant Hill, CA 94523-1850	Preparation:	EPA 5030B
	Method:	EPA 8021B
	Units:	ug/L
Project: ExxonMobil 04334 / 2492 Castro Valley, CA		Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW5	**10-04-0538-5-D**	**04/06/10 11:30**	**Aqueous**	**GC 8**	**04/08/10**	**04/08/10 22:47**	**100408B01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Benzene	ND	0.50	0.14	1		Ethylbenzene	ND	0.50	0.17	1	
Toluene	0.23	0.50	0.17	1	J,Z	Xylenes (total)	ND	1.0	0.26	1	

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	91	70-130	

Method Blank	099-12-667-779	N/A	Aqueous	GC 8	04/08/10	04/08/10 13:15	100408B01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Benzene	ND	0.50	0.14	1		Ethylbenzene	ND	0.50	0.17	1	
Toluene	ND	0.50	0.17	1		Xylenes (total)	ND	1.0	0.26	1	

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	98	70-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 04/08/10
Work Order No: 10-04-0538
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: ExxonMobil 04334 / 2492 Castro Valley, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW1	10-04-0538-1-A	04/06/10 08:30	Aqueous	GC/MS BB	04/09/10	04/09/10 19:04	100409L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
1,2-Dibromoethane	ND	0.50	0.23	1		Diisopropyl Ether (DIPE)	ND	0.50	0.12	1	
1,2-Dichloroethane	ND	0.50	0.075	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.25	1	
Methyl-t-Butyl Ether (MTBE)	1.1	0.50	0.14	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.12	1	
Tert-Butyl Alcohol (TBA)	ND	10	4.0	1		Ethanol	ND	50	30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control l	Qual
1,2-Dichloroethane-d4	100	80-128		Dibromofluoromethane	96	80-127	
Toluene-d8	104	80-120		1,4-Bromofluorobenzene	85	68-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW2	10-04-0538-2-A	04/06/10 09:15	Aqueous	GC/MS BB	04/09/10	04/09/10 19:33	100409L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
1,2-Dibromoethane	ND	0.50	0.23	1		Diisopropyl Ether (DIPE)	ND	0.50	0.12	1	
1,2-Dichloroethane	ND	0.50	0.075	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.25	1	
Methyl-t-Butyl Ether (MTBE)	0.53	0.50	0.14	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.12	1	
Tert-Butyl Alcohol (TBA)	ND	10	4.0	1		Ethanol	ND	50	30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control l	Qual
1,2-Dichloroethane-d4	105	80-128		Dibromofluoromethane	101	80-127	
Toluene-d8	107	80-120		1,4-Bromofluorobenzene	90	68-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW3	10-04-0538-3-A	04/06/10 09:55	Aqueous	GC/MS BB	04/09/10	04/09/10 20:02	100409L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
1,2-Dibromoethane	ND	0.50	0.23	1		Diisopropyl Ether (DIPE)	ND	0.50	0.12	1	
1,2-Dichloroethane	ND	0.50	0.075	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.25	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.14	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.12	1	
Tert-Butyl Alcohol (TBA)	ND	10	4.0	1		Ethanol	ND	50	30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control l	Qual
1,2-Dichloroethane-d4	103	80-128		Dibromofluoromethane	101	80-127	
Toluene-d8	109	80-120		1,4-Bromofluorobenzene	95	68-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH ELAP

ETIC Engineering, Inc.	Date Received:	04/08/10
2285 Morello Avenue	Work Order No:	10-04-0538
Pleasant Hill, CA 94523-1850	Preparation:	EPA 5030B
	Method:	EPA 8260B
	Units:	ug/L
Project: ExxonMobil 04334 / 2492 Castro Valley, CA		Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW4	**10-04-0538-4-C**	**04/06/10 11:20**	**Aqueous**	**GC/MS O**	**04/13/10**	**04/13/10 12:30**	**100413L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
1,2-Dibromoethane	ND	0.50	0.23	1		Diisopropyl Ether (DIPE)	ND	0.50	0.12	1	
1,2-Dichloroethane	ND	0.50	0.075	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.25	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.14	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.12	1	
Tert-Butyl Alcohol (TBA)	ND	10	4.0	1		Ethanol	ND	50	30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control l	Qual
1,2-Dichloroethane-d4	108	80-128		Dibromofluoromethane	99	80-127	
Toluene-d8	99	80-120		1,4-Bromofluorobenzene	90	68-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW5	**10-04-0538-5-C**	**04/06/10 11:30**	**Aqueous**	**GC/MS O**	**04/13/10**	**04/13/10 12:59**	**100413L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
1,2-Dibromoethane	ND	0.50	0.23	1		Diisopropyl Ether (DIPE)	ND	0.50	0.12	1	
1,2-Dichloroethane	ND	0.50	0.075	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.25	1	
Methyl-t-Butyl Ether (MTBE)	11	0.50	0.14	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.12	1	
Tert-Butyl Alcohol (TBA)	ND	10	4.0	1		Ethanol	ND	50	30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control l	Qual
1,2-Dichloroethane-d4	107	80-128		Dibromofluoromethane	102	80-127	
Toluene-d8	99	80-120		1,4-Bromofluorobenzene	92	68-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-025-1,511**	**N/A**	**Aqueous**	**GC/MS BB**	**04/09/10**	**04/09/10 11:53**	**100409L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
1,2-Dibromoethane	ND	0.50	0.23	1		Diisopropyl Ether (DIPE)	ND	0.50	0.12	1	
1,2-Dichloroethane	ND	0.50	0.075	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.25	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.14	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.12	1	
Tert-Butyl Alcohol (TBA)	ND	10	4.0	1		Ethanol	ND	50	30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control l	Qual
1,2-Dichloroethane-d4	103	80-128		Dibromofluoromethane	102	80-127	
Toluene-d8	108	80-120		1,4-Bromofluorobenzene	71	68-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ETIC Engineering, Inc.	Date Received:	04/08/10
2285 Morello Avenue	Work Order No:	10-04-0538
Pleasant Hill, CA 94523-1850	Preparation:	EPA 5030B
	Method:	EPA 8260B
	Units:	ug/L
Project: ExxonMobil 04334 / 2492 Castro Valley, CA		Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-025-1,513**	**N/A**	**Aqueous**	**GC/MS O**	**04/12/10**	**04/12/10 11:58**	**100412L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
1,2-Dibromoethane	ND	0.50	0.23	1		Diisopropyl Ether (DIPE)	ND	0.50	0.12	1	
1,2-Dichloroethane	ND	0.50	0.075	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.25	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.14	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.12	1	
Tert-Butyl Alcohol (TBA)	ND	10	4.0	1		Ethanol	ND	50	30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control l	Qual
1,2-Dichloroethane-d4	107	80-128		Dibromofluoromethane	99	80-127	
Toluene-d8	99	80-120		1,4-Bromofluorobenzene	94	68-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-025-1,515**	**N/A**	**Aqueous**	**GC/MS O**	**04/13/10**	**04/13/10 12:01**	**100413L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
1,2-Dibromoethane	ND	0.50	0.23	1		Diisopropyl Ether (DIPE)	ND	0.50	0.12	1	
1,2-Dichloroethane	ND	0.50	0.075	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.25	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.14	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.12	1	
Tert-Butyl Alcohol (TBA)	ND	10	4.0	1		Ethanol	ND	50	30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control l	Qual
1,2-Dichloroethane-d4	112	80-128		Dibromofluoromethane	104	80-127	
Toluene-d8	99	80-120		1,4-Bromofluorobenzene	93	68-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

ETIC Engineering, Inc.		Date Received:	04/08/10
2285 Morello Avenue		Work Order No:	10-04-0538
Pleasant Hill, CA 94523-1850		Preparation:	EPA 5030B
		Method:	EPA 8015B (M)

Project ExxonMobil 04334 / 2492 Castro Valley, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-04-0335-1	**Aqueous**	**GC 29**	**04/09/10**	**04/09/10**	**100409S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	106	101	68-122	5	0-18	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 04/08/10
Work Order No: 10-04-0538
Preparation: EPA 5030B
Method: EPA 8021B

Project ExxonMobil 04334 / 2492 Castro Valley, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-04-0418-1	Aqueous	GC 8	04/08/10	04/08/10	100408S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	100	99	57-129	1	0-23	
Toluene	104	65	50-134	47	0-26	4
Ethylbenzene	105	100	58-130	5	0-26	
p/m-Xylene	105	99	58-130	7	0-28	
o-Xylene	102	96	57-123	6	0-26	
Methyl-t-Butyl Ether (MTBE)	104	103	44-134	1	0-27	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 04/08/10
Work Order No: 10-04-0538
Preparation: EPA 5030B
Method: EPA 8260B

Project ExxonMobil 04334 / 2492 Castro Valley, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-04-0420-4	Aqueous	GC/MS BB	04/09/10	04/09/10	100409S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	104	107	76-124	3	0-20	
Toluene	110	115	80-120	5	0-20	
Ethylbenzene	109	123	78-126	13	0-20	
Methyl-t-Butyl Ether (MTBE)	74	71	67-121	1	0-49	
Tert-Butyl Alcohol (TBA)	104	113	36-162	9	0-30	
Diisopropyl Ether (DIPE)	91	95	60-138	4	0-45	
Ethyl-t-Butyl Ether (ETBE)	100	107	69-123	7	0-30	
Tert-Amyl-Methyl Ether (TAME)	103	106	65-120	2	0-20	
Ethanol	88	129	30-180	39	0-72	
1,1-Dichloroethene	103	107	73-127	5	0-20	
1,2-Dibromoethane	101	111	80-120	10	0-20	
1,2-Dichlorobenzene	101	104	80-120	3	0-20	
Carbon Tetrachloride	117	117	74-134	1	0-20	
Chlorobenzene	105	115	80-120	9	0-20	
Trichloroethene	107	110	77-120	3	0-20	
Vinyl Chloride	108	115	72-126	6	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 04/08/10
Work Order No: 10-04-0538
Preparation: EPA 5030B
Method: EPA 8260B

Project ExxonMobil 04334 / 2492 Castro Valley, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-04-0784-3	**Aqueous**	**GC/MS O**	**04/12/10**	**04/12/10**	**100412S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	107	106	76-124	1	0-20	
Toluene	104	108	80-120	3	0-20	
Ethylbenzene	111	111	78-126	0	0-20	
Methyl-t-Butyl Ether (MTBE)	101	88	67-121	9	0-49	
Tert-Butyl Alcohol (TBA)	89	140	36-162	44	0-30	4
Diisopropyl Ether (DIPE)	101	99	60-138	2	0-45	
Ethyl-t-Butyl Ether (ETBE)	103	97	69-123	6	0-30	
Tert-Amyl-Methyl Ether (TAME)	106	106	65-120	0	0-20	
Ethanol	82	112	30-180	31	0-72	
1,1-Dichloroethene	107	99	73-127	8	0-20	
1,2-Dibromoethane	102	103	80-120	1	0-20	
1,2-Dichlorobenzene	102	103	80-120	1	0-20	
Carbon Tetrachloride	102	99	74-134	2	0-20	
Chlorobenzene	102	101	80-120	1	0-20	
Trichloroethene	105	103	77-120	2	0-20	
Vinyl Chloride	100	108	72-126	8	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 04/08/10
Work Order No: 10-04-0538
Preparation: EPA 5030B
Method: EPA 8260B

Project ExxonMobil 04334 / 2492 Castro Valley, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-04-0677-3	Aqueous	GC/MS O	04/13/10	04/13/10	100413S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	115	109	76-124	5	0-20	
Carbon Tetrachloride	117	113	74-134	3	0-20	
Chlorobenzene	108	104	80-120	4	0-20	
1,2-Dibromoethane	109	106	80-120	3	0-20	
1,2-Dichlorobenzene	107	102	80-120	4	0-20	
1,1-Dichloroethene	114	110	73-127	3	0-20	
Ethylbenzene	115	111	78-126	4	0-20	
Toluene	124	116	80-120	6	0-20	3
Trichloroethene	109	108	77-120	1	0-20	
Vinyl Chloride	98	116	72-126	17	0-20	
Methyl-t-Butyl Ether (MTBE)	110	106	67-121	4	0-49	
Tert-Butyl Alcohol (TBA)	108	111	36-162	2	0-30	
Diisopropyl Ether (DIPE)	113	110	60-138	3	0-45	
Ethyl-t-Butyl Ether (ETBE)	114	109	69-123	4	0-30	
Tert-Amyl-Methyl Ether (TAME)	113	110	65-120	3	0-20	
Ethanol	98	126	30-180	26	0-72	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ETIC Engineering, Inc.		Date Received:	N/A
2285 Morello Avenue		Work Order No:	10-04-0538
Pleasant Hill, CA 94523-1850		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)

Project: ExxonMobil 04334 / 2492 Castro Valley, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-330-1,481	Aqueous	GC 47	04/12/10	04/12/10	100412B01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	103	103	75-117	0	0-13	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ETIC Engineering, Inc.		Date Received:	N/A
2285 Morello Avenue		Work Order No:	10-04-0538
Pleasant Hill, CA 94523-1850		Preparation:	EPA 5030B
		Method:	EPA 8015B (M)

Project: ExxonMobil 04334 / 2492 Castro Valley, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-436-4,609	Aqueous	GC 29	04/09/10	04/09/10	100409B01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	110	110	78-120	0	0-10	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

ETIC Engineering, Inc.	Date Received:	N/A
2285 Morello Avenue	Work Order No:	10-04-0538
Pleasant Hill, CA 94523-1850	Preparation:	EPA 5030B
	Method:	EPA 8021B

Project: ExxonMobil 04334 / 2492 Castro Valley, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-667-779	**Aqueous**	**GC 8**	**04/08/10**	**04/08/10**	**100408B01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	103	100	70-118	3	0-9	
Toluene	105	104	66-114	1	0-9	
Ethylbenzene	106	105	72-114	1	0-9	
p/m-Xylene	108	107	74-116	1	0-9	
o-Xylene	104	102	72-114	1	0-9	
Methyl-t-Butyl Ether (MTBE)	104	99	41-137	5	0-13	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

ETIC Engineering, Inc.	Date Received:	N/A
2285 Morello Avenue	Work Order No:	10-04-0538
Pleasant Hill, CA 94523-1850	Preparation:	EPA 5030B
	Method:	EPA 8260B

Project: ExxonMobil 04334 / 2492 Castro Valley, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-025-1,511	Aqueous	GC/MS BB	04/09/10	04/09/10	100409L01

Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	100	100	80-120	73-127	0	0-20	
Carbon Tetrachloride	119	116	74-134	64-144	3	0-20	
Chlorobenzene	101	101	80-120	73-127	0	0-20	
1,2-Dibromoethane	96	93	79-121	72-128	3	0-20	
1,2-Dichlorobenzene	100	99	80-120	73-127	2	0-20	
1,1-Dichloroethene	106	103	78-126	70-134	3	0-28	
Ethylbenzene	106	106	80-120	73-127	0	0-20	
Toluene	105	109	80-120	73-127	4	0-20	
Trichloroethene	108	105	79-127	71-135	3	0-20	
Vinyl Chloride	105	110	72-132	62-142	5	0-20	
Methyl-t-Butyl Ether (MTBE)	90	91	69-123	60-132	2	0-20	
Tert-Butyl Alcohol (TBA)	88	97	63-123	53-133	9	0-20	
Diisopropyl Ether (DIPE)	90	91	59-137	46-150	1	0-37	
Ethyl-t-Butyl Ether (ETBE)	101	103	69-123	60-132	2	0-20	
Tert-Amyl-Methyl Ether (TAME)	100	104	70-120	62-128	4	0-20	
Ethanol	80	95	28-160	6-182	17	0-57	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

ETIC Engineering, Inc.	Date Received:	N/A
2285 Morello Avenue	Work Order No:	10-04-0538
Pleasant Hill, CA 94523-1850	Preparation:	EPA 5030B
	Method:	EPA 8260B

Project: ExxonMobil 04334 / 2492 Castro Valley, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-025-1,513	Aqueous	GC/MS O	04/12/10	04/12/10	100412L01

Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	100	100	80-120	73-127	0	0-20	
Carbon Tetrachloride	105	105	74-134	64-144	0	0-20	
Chlorobenzene	99	99	80-120	73-127	0	0-20	
1,2-Dibromoethane	102	102	79-121	72-128	0	0-20	
1,2-Dichlorobenzene	103	103	80-120	73-127	0	0-20	
1,1-Dichloroethene	107	107	78-126	70-134	0	0-28	
Ethylbenzene	108	108	80-120	73-127	0	0-20	
Toluene	104	104	80-120	73-127	0	0-20	
Trichloroethene	100	100	79-127	71-135	0	0-20	
Vinyl Chloride	108	108	72-132	62-142	0	0-20	
Methyl-t-Butyl Ether (MTBE)	103	103	69-123	60-132	0	0-20	
Tert-Butyl Alcohol (TBA)	104	104	63-123	53-133	0	0-20	
Diisopropyl Ether (DIPE)	101	101	59-137	46-150	0	0-37	
Ethyl-t-Butyl Ether (ETBE)	105	105	69-123	60-132	0	0-20	
Tert-Amyl-Methyl Ether (TAME)	104	104	70-120	62-128	0	0-20	
Ethanol	85	85	28-160	6-182	0	0-57	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

ETIC Engineering, Inc.	Date Received:	N/A
2285 Morello Avenue	Work Order No:	10-04-0538
Pleasant Hill, CA 94523-1850	Preparation:	EPA 5030B
	Method:	EPA 8260B

Project: ExxonMobil 04334 / 2492 Castro Valley, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-025-1,515	Aqueous	GC/MS O	04/13/10	04/13/10	100413L01

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	107	105	80-120	73-127	2	0-20	
Carbon Tetrachloride	112	103	74-134	64-144	8	0-20	
Chlorobenzene	104	102	80-120	73-127	2	0-20	
1,2-Dibromoethane	108	105	79-121	72-128	3	0-20	
1,2-Dichlorobenzene	101	101	80-120	73-127	0	0-20	
1,1-Dichloroethene	113	106	78-126	70-134	7	0-28	
Ethylbenzene	113	109	80-120	73-127	4	0-20	
Toluene	109	105	80-120	73-127	4	0-20	
Trichloroethene	103	97	79-127	71-135	6	0-20	
Vinyl Chloride	115	108	72-132	62-142	6	0-20	
Methyl-t-Butyl Ether (MTBE)	104	99	69-123	60-132	5	0-20	
Tert-Butyl Alcohol (TBA)	110	102	63-123	53-133	8	0-20	
Diisopropyl Ether (DIPE)	109	105	59-137	46-150	4	0-37	
Ethyl-t-Butyl Ether (ETBE)	103	101	69-123	60-132	2	0-20	
Tert-Amyl-Methyl Ether (TAME)	106	105	70-120	62-128	1	0-20	
Ethanol	101	103	28-160	6-182	2	0-57	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 10-04-0538

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
B	Analyte was present in the associated method blank.
E	Concentration exceeds the calibration range.
I	Compound did not meet method-described identification guidelines. Identification was based on additional GC/MS characteristics.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.

Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 . FAX: (714) 894-7501

Site Name	04334
Provide MRN for retail or AFE for major projects	
Retail Project (MRN)	
Major Project (AFE)	
Project Name	04334

CHAIN OF CUSTODY RECORD

DATE: 04-06-10
PAGE: 1 OF 1

ExxonMobil Engr:

LABORATORY CLIENT: ExxonMobil c/o ETIC Engineering
ADDRESS: 2285 Morello Avenue
CITY: Pleasant Hill, CA 94523
TEL: 925-602-4710 x21 FAX: 925-602-4720

GLOBAL ID # / COELT LOG CODE: T0600101278
PROJECT CONTACT: Erik Appel, ETIC Engineering
SAMPLER(S): (SIGNATURE)

P.O.: 4512008427
LAB USE ONLY: 04538
COOLER RECEIPT: Temp: = °C

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☑ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ____/____/____

SPECIAL INSTRUCTIONS:
* Use Silica Gel Cleanup for TPH-d analysis
edf file required,
email report to eappel@eticeng.com & eticlabreports@eticeng.com
XX MTBE, TBA, DIPE, ETBE, TAME, EDB, 1,2-DCA, Ethanol

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g) 8015	TPH (d) or (C6-C16) or (C9-C44) 8015	TPH ( )	BTEX/MTBE (8260B) or (8021B)	VOCs (8260B)	Oxygenates (8260B) XX Ethanol	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or TO-15)	CONTAINER TYPE
1	MW1		04-06-10	0830	Water	8	X	X		X		X									
2	MW2			0915	Water	8	X	X		X		X									
3	MW3			0955	Water	8	X	X		X		X									
4	MW4			1120	Water	8	X	X		X		X									
5	MW5			1130	Water	8	X	X		X		X									

Relinquished by: (Signature) 04-06-10 1345
Relinquished by: (Signature) to GSO 4-7-10 1730
Relinquished by: (Signature)

Received by: (Signature) CEL
Received by: (Signature)
Received by: (Signature)

Date, & Time: 4-7-10 1435
Date, & Time: 4/8/10 1030
Date, & Time:

Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 . FAX: (714) 894-7501

Site Name	04334
Provide MRN for retail or AFE for major projects	
Retail Project (MRN)	
Major Project (AFE)	
Project Name	04334

CHAIN OF CUSTODY RECORD

DATE: 04-06-10
PAGE: 1 OF 1

ExxonMobil Engr:

LABORATORY CLIENT: ExxonMobil c/o ETIC Engineering
ADDRESS: 2285 Morello Avenue
CITY: Pleasant Hill, CA 94523
TEL: 925-602-4710 x21 FAX: 925-602-4720

GLOBAL ID #/ COELT LOG CODE: T0600101278
PROJECT CONTACT: Erik Appel, ETIC Engineering
SAMPLER(S): (SIGNATURE)

P.O. 4512008427
LAB USE ONLY: 04-3538
COOLER RECEIPT Temp = °C

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☑ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ____/____/____

SPECIAL INSTRUCTIONS:
* Use Silica Gel Cleanup for TPH-d analysis
edf file required,
email report to eappel@eticeng.com & eticlabreports@eticeng.com

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C_6-C_{36}) or (C_6-C_{44})	TPH ( )	BTEX/MTBE (8260B) or ( )	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or TO-15)	CONTAINER TYPE
1	MW1		04-06-10	0830	Water	8	X	X		X		X									
2	MW2			0915	Water	8	X	X		X		X									
3	MW3			0955	Water	8	X	X		X		X									
4	MW4			1120	Water	8	X	X		X		X									
5	MW5			1130	Water	8	X	X		X		X									

Relinquished by: (Signature)	Received by: (Signature)	Date, & Time:
[signature] 04-06-10 1345	[signature] CEC	4-7-10 1435
[signature] to GSO 4-7-10 1730	[signature]	4/8/10 1030

0538

GSO

< WebShip > > > > >

800-332-5555 www.gso.com

Ship From:
ALAN KEMP
CAL SCIENCE- CONCORD
5063 COMMERCIAL CIRCLE #H
CONCORD, CA 94520

Ship To:
SAMPLE RECEIVING
CEL
7440 LINCOLN WAY
GARDEN GROVE, CA 92841

COD:
$0.00

Reference:
ETIC

Delivery Instructions:

Signature Type:
SIGNATURE REQUIRED

Tracking #: 513904688

NPS

ORC

D

GARDEN GROVE

D92843A

80645729

Print Date : 04/07/10 15:48 PM

Package 1 of 1

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 10-04-0531

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: ETIC DATE: 04/08/10

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 1.9 °C + 0.5 °C (CF) = 2.4 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only Initial: JP

CUSTODY SEALS INTACT:

☑ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Initial: JP

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: 4/25

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☑VOA**h** (6) ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☑500AGJ (2) ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐500PB ☐500PB**na**

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** WSC

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** YC

Preservative: h: HCL n: HNO_3 na$_2$: $Na_2S_2O_3$ na: NaOH p: H_3PO_4 s: H_2SO_4 znna: $ZnAc_2$+NaOH f: Field-filtered **Scanned by:** WSC