ExxonMobil Environmental Services Company
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510 547 8196 Telephone
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Jennifer C. Sedlachek
Project Manager

ExxonMobil

November 16, 2010

Ms. Barbara Jakub
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502

Subject: Fuel Leak Case No. RO0000445
Former Mobil Station 99105, 6301 San Pablo Avenue, Oakland, California

Dear Ms. Jakub:

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

Upon information and belief, I declare, under penalty of perjury, that the information contained in the document 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 Report of Groundwater Monitoring, Third Quarter 2010

c: w/ attachment:
Ms. Connie Lam (property owner)

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

Report of Groundwater Monitoring
Third Quarter 2010

Former Mobil Station 99105
6301 San Pablo Avenue
Oakland, 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

PROFESSIONAL GEOLOGIST
KRISTOPHER ERIK APPEL
No. 8092
STATE OF CALIFORNIA

November 16, 2010
Date

November 2010

SITE CONTACTS

Station Name:	Former Mobil Station 99105
Station Address:	6301 San Pablo Avenue Oakland, 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:	Hamidou Barry
Regulatory Oversight:	Barbara Jakub Alameda County Health Care Services Agency 1131 Harbor Bay Parkway, 2nd Floor Alameda, California 94502 (510) 383-1767

INTRODUCTION

ETIC Engineering, Inc. has prepared this quarterly groundwater monitoring report for ExxonMobil Environmental Services Company on behalf of ExxonMobil Oil Corporation for the former Mobil Station 99105.

Wells MW2, MW3, and MW5 were re-developed and sampled in accordance with the Vapor Intrusion Assessment and Well Installation Work Plan dated December 2008 (ETIC 2008) and Work Plan Addendum dated October 2009 (ETIC 2009), which was submitted in response to letters dated 17 October 2008 and 13 September 2010 from the Alameda County Health Care Services Agency. The work plan proposed the re-development and sampling of the existing wells to evaluate current groundwater conditions at the site.

This report documents the re-development and sampling of the wells. Regulatory correspondence is included in Appendix A.

GENERAL SITE INFORMATION

Site name:	Former Mobil Station 99015
Site address:	6301 San Pablo Avenue, Oakland, California
Current property owner:	Connie and Nathan Lam
Current site use:	Automobile oil change facility
Current phase of project:	Groundwater monitoring, vapor intrusion assessment, and dissolved hydrocarbon characterization
Tanks at site:	None (four gasoline and one used-oil tank removed 1994)
Number of wells:	3 (all onsite)

GROUNDWATER MONITORING SUMMARY

Re-development date:	14 September 2010
Wells re-developed:	MW2, MW3, MW5
Gauging and sampling dates:	17 September 2010
Wells gauged and sampled:	MW2, MW3, MW5
Wells gauged only:	None
Wells sampled only:	None
Groundwater flow direction:	Southwest
Groundwater gradient:	0.07
Well screens submerged:	None
Well screens not submerged:	MW2, MW3, MW5
Liquid-phase hydrocarbons:	Not observed or detected
Laboratory:	Calscience Environmental Laboratories, Inc., Garden Grove, California

Analyses performed:

- Total Petroleum Hydrocarbons as diesel and gasoline by EPA Method 8015B (M)
- Benzene, toluene, ethylbenzene, and xylenes by EPA Method 8260B
- 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, and diisopropyl ether by EPA Method 8260B

Additional comments:

Water generated during well development and sampling was contained in 55-gallon drums. The water was removed from the site on 17 September 2010 and transported to an ExxonMobil-approved facility. Waste documentation is included in Appendix D.

ADDITIONAL ACTIVITIES PERFORMED

Five soil vapor monitoring wells were installed onsite on 1 and 2 November 2010 in accordance with the work plan and addendum (ETIC 2008 and 2009). The investigation report will be submitted under separate cover.

WORK PROPOSED

Proposed offsite direct-push soil borings will be advanced in November 2010. The investigation report will be submitted under separate cover.

Attachments:

Figure 1: Site Map Showing Groundwater Elevations and Analytical Results

Table 1: Well Construction Details
Table 2: Groundwater Monitoring Data
Table 3: Groundwater Sample Analytical Results for Oxygenates and Additives

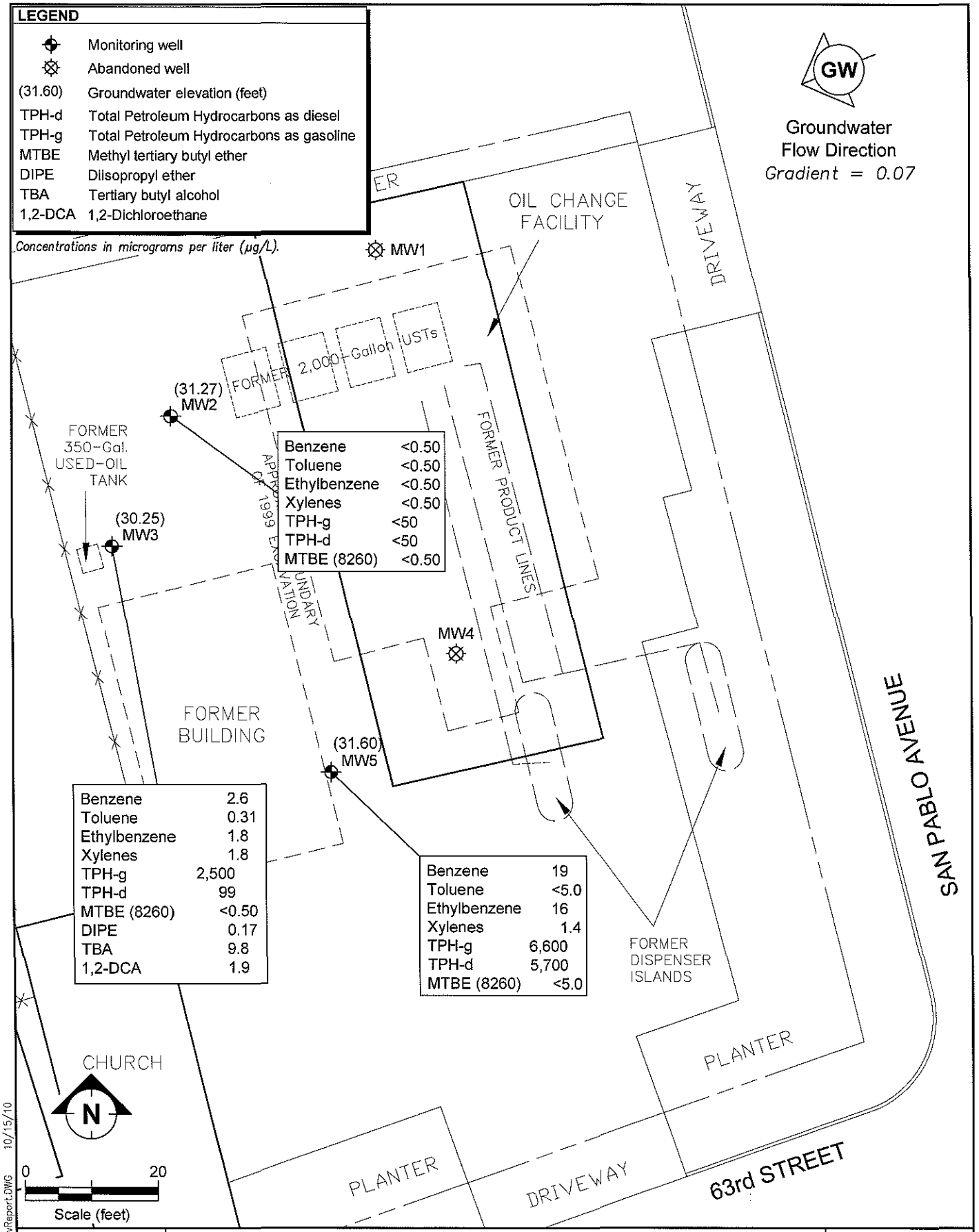
Appendix A: Regulatory Correspondence
Appendix B: Field Protocols
Appendix C: Field Documents
Appendix D: Waste Documentation
Appendix E: Laboratory Analytical Reports and Chain-of-Custody Documentation

REFERENCES

ETIC (ETIC Engineering, Inc.). 2008. Vapor Intrusion Assessment and Well Installation Work Plan, Former Mobil Station 99105, 6301 San Pablo Avenue, Oakland, California. ETIC, Pleasant Hill, California. December.

ETIC (ETIC Engineering, Inc.). 2009. Work Plan Addendum, Former Mobil Station 99105, 6301 San Pablo Avenue, Oakland, California. ETIC, Pleasant Hill, California. October.

Figures



FILENAME: WellDevReport.DWG 10/15/10

ETIC ENGINEERING

SITE MAP SHOWING GROUNDWATER ELEVATIONS AND ANALYTICAL RESULTS
FORMER MOBIL STATION 99105
6301 SAN PABLO AVENUE, OAKLAND, CALIFORNIA
17 SEPTEMBER 2010

FIGURE: 1

Tables

TABLE 1 WELL CONSTRUCTION DETAILS, FORMER MOBIL STATION 99105, 6301 SAN PABLO AVENUE, OAKLAND, 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	b	03/01/96	--	PVC	21.5	20	10	4	5 - 20	0.010	4.5 - 21.5	#12 Sand
MW2	a	03/01/96	41.99	PVC	21.5	20	10	4	5 - 20	0.010	4.5 - 21.5	#12 Sand
MW3	a	03/01/96	41.71	PVC	21.5	20	10	4	5 - 20	0.010	4.5 - 21.5	#12 Sand
MW4	b	03/01/96	--	PVC	26.5	25	10	4	5 - 25	0.010	4.5 - 21.5	#12 Sand
MW5	a	09/06/00	41.59	PVC	21.5	20	10	4	5 - 20	0.010	4 - 21.5	#2/12 Sand

a Well surveyed on 11/27/01 by Doble Thomas Associates.
b Well destroyed.

PVC Polyvinyl chloride.
TOC Top of casing.

-- Information not available.

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 99105, 6301 SAN PABLO AVENUE, OAKLAND, CALIFORNIA

Well Number	Date	Elevation TOC (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness	Concentrations (µg/L) TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8020/8021)	MTBE (8240/8260)
TW1	01/04/96	--	6.00	--	0.00	ND	700	ND	ND	ND	ND	--	--
WW1	01/04/96	--	3.00	--	0.00	ND	--	ND	ND	ND	ND	--	--
MW1	03/14/96	32.79	4.50	28.29	0.00	610	450	0.75	0.54	1.5	59	--	--
MW1	05/21/96	32.79	5.64	27.15	0.00	ND	ND	ND	ND	ND	ND	--	--
MW1	08/13/96	32.79	9.76	23.03	0.00	ND	ND	ND	ND	ND	ND	--	--
MW1	11/08/96	32.79	10.24	22.55	0.00	ND	ND	ND	0.92	ND	2.1	ND	--
MW1	01/31/97	32.79	3.83	28.96	0.00	ND	ND	ND	0.85	ND	ND	2.6	ND
MW1	04/22/97	32.79	9.14	23.65	0.00	ND	ND	ND	ND	ND	ND	ND	--
MW1[a]	07/29/97	32.79	10.18	22.61	0.00	ND	60[e]	0.84	0.95	ND	1.6	36	--
MW1[a]	10/09/97	32.79	10.46	22.33	0.00	ND	56[e]	ND	ND	ND	ND	ND	--
MW1[a]	01/23/98	32.79	3.95	28.84	0.00	ND	33	ND	ND	ND	ND	ND	--
MW1	04/22/98	32.79	5.33	27.46	0.00	ND	ND	ND	ND	ND	ND	ND	--
MW1	07/21/98	32.79	9.17	23.62	0.00	ND	--	ND	ND	ND	ND	ND	--
MW1	10/20/98	32.79	10.41	22.38	0.00	ND	--	ND	ND	ND	ND	ND	--
MW1	01/27/99	32.79	5.51	27.28	0.00	ND	--	ND	ND	ND	ND	ND	--
MW1	Destroyed during construction activities in April 1999												
MW2	03/14/96	32.80	4.51	28.29	0.00	560	250	2.0	0.96	4.3	11	--	--
MW2	05/21/96	32.80	5.65	27.15	0.00	730	560	5.1	1.4	6.7	5.9	--	--
MW2	08/13/96	32.80	10.14	22.66	0.00	490	380[b]	25	3.5	7.2	13	--	--
MW2	11/08/96	32.80	10.70	22.10	0.00	520	160[d]	80	2.7	14	66	6.1	--
MW2	01/31/97	32.80	3.84	28.96	0.00	74	130[b]	ND	ND	ND	ND	ND	--
MW2	04/22/97	32.80	9.61	23.19	0.00	260	430	2.7	ND	2.5	ND	ND	--
MW2[a]	07/29/97	32.80	10.53	22.27	0.00	320	150[d]	28	1.2	10	ND	ND	--
MW2[a]	10/09/97	32.80	10.87	21.93	0.00	460	160[b]	43	2.8	2.0	2.6	2.6	--
MW2[a]	01/23/98	32.80	3.75	29.05	0.00	ND	54	ND	ND	ND	ND	ND	--
MW2	04/22/98	32.80	5.36	27.44	0.00	180	540	1.2	0.3	0.4	ND	ND	--
MW2	07/21/98	32.80	9.55	23.25	0.00	80	--	8.9	2.1	0.6	2.5	ND	--
MW2	10/20/98	32.80	10.75	22.05	0.00	50	--	0.8	0.7	ND	0.8	ND	--
MW2	01/27/99	32.80	5.53	27.27	0.00	ND	--	0.6	ND	ND	ND	ND	--
MW2	07/27/99	32.80	6.20	26.60	0.00	ND	--	ND	0.6	ND	ND	ND	--
MW2	12/08/99	32.80	9.98	22.82	0.00	ND	--	1.2	0.43	ND	ND	ND	--
MW2	10/25/00	39.34	11.30	28.04	0.00	<20	--	2.0	0.59	0.46	1.3	<0.30	--
MW2	01/15/01	39.34	9.41	29.93	0.00	<20	--	<0.20	0.46	<0.20	<0.60	<0.30	--

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 99105, 6301 SAN PABLO AVENUE, OAKLAND, CALIFORNIA

Well Number	Date	Elevation TOC (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness	Concentrations (µg/L) TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8020/8021)	MTBE (8240/8260)
MW2	04/10/01	39.34	6.16	33.18	0.00	23	--	0.28	<0.20	<0.20	<0.60	<1.0	--
MW2	07/24/01	39.34	10.70	28.64	0.00	<50	--	<0.20	0.93	<0.20	0.82	<0.30	--
MW2	11/27/01	39.34	10.15	29.19	0.00	<50	--	1.2	0.22	<0.20	<0.60	<0.30	--
MW2	01/18/02	41.99	5.46	36.53	0.00	<50.0	--	<0.50	<0.50	<0.50	<0.50	1.40	--
MW2	04/10/02	41.99	6.48	35.51	0.00	<50.0	--	<0.50	<0.50	<0.50	<0.50	1.80	--
MW2	07/12/02	41.99	10.45	31.54	0.00	<50.0	--	<0.50	<0.50	<0.50	<0.50	<0.50	--
MW2	10/14/02	41.99	11.46	30.53	0.00	<50.0	--	<0.5	4.1	0.6	4.0	<0.5	--
MW2	01/20/03	41.99	5.39	36.60	0.00	<50.0	--	<0.50	<0.50	<0.50	<0.50	0.6	--
MW2	04/28/03	41.99	5.87	36.12	0.00	<50.0	--	<0.50	<0.50	<0.50	<0.50	<0.50	--
MW2	07/15/03	41.99	10.31	31.68	0.00	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW2	10/08/03	41.99	11.20	30.79	0.00	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW2	01/15/04	41.99	5.36	36.63	0.00	63.3	--	0.70	<0.5	<0.5	<0.5	1.0	--
MW2	**09/17/10**	**41.99**	**10.72**	**31.27**	**0.00**	**<50**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	--	**<0.50**
MW3	03/14/96	32.80	9.55	23.25	0.00	4,200	1,200	220	30	140	520	--	--
MW3	05/21/96	32.80	10.16	22.64	0.00	8,500	2,800	710	110	440	1,700	--	--
MW3	08/13/96	32.80	11.18	21.62	0.00	5,000	2,300[c]	430	ND	200	360	--	--
MW3	11/08/96	32.80	11.51	21.29	0.00	8,400	2,900[b]	890	82	790	1,700	73	ND
MW3	01/31/97	32.80	7.90	24.90	0.00	16,000	7,500[b]	660	85	960	1,800	ND	--
MW3	04/22/97	32.80	10.64	22.16	0.00	8,000	2,700	340	33	400	490	200	ND
MW3[a]	07/29/97	32.80	11.36	21.44	0.00	9,800	2,300[b]	330	ND	530	530	ND	--
MW3[a]	10/09/97	32.80	11.52	21.28	0.00	7,300	2,600[b]	300	ND	430	460	270	ND
MW3[a]	01/23/98	32.80	7.50	25.30	0.00	6,100	2,300	190	23	330	320	ND	--
MW3	04/22/98	32.80	6.81	25.99	0.00	4,900	2,600	140	12	250	230	ND	ND
MW3	07/21/98	32.80	10.65	22.15	0.00	7,400	--	250	16	400	370	74	ND
MW3	10/20/98	32.80	11.57	21.23	0.00	6,700	--	200	18	350	350	ND	ND
MW3	01/27/99	32.80	9.11	23.69	0.00	3,100	--	74	4	94	39	13	--
MW3	07/27/99	32.80	7.27	25.53	0.00	8,900	--	170	21	360	440	ND	--
MW3	12/08/99	32.80	10.63	22.17	0.00	4,800	--	94	13	170	210	ND	--
MW3	10/25/00	39.27	12.08	27.19	0.00	3,800	--	63	2.9	100	65	<50	<5
MW3	01/15/01	39.27	10.29	28.98	0.00	4,300	--	76	9.5	47	76	<5.0	--
MW3	04/10/01	39.27	10.11	29.16	0.00	2,700	--	55	4.4	100	37	<20	--
MW3	07/24/01	39.27	11.57	27.70	0.00	3,100	--	110	6.9	110	81	<1.0	--
MW3	11/27/01	39.27	10.93	28.34	0.00	2,400	--	47	8.9	25	35	<0.30	--
MW3	01/18/02	41.71	9.47	32.24	0.00	1,130	--	15.3	2.30	42.0	24.6	13.6	--
MW3	04/10/02	41.71	10.14	31.57	0.00	916	--	35.1	3.00	22.5	13.8	11.2	--
MW3	07/12/02	41.71	11.34	30.37	0.00	2,330	--	60.5	2.90	39.8	50.9	15.4	--

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 99105, 6301 SAN PABLO AVENUE, OAKLAND, CALIFORNIA

Well Number	Date	Elevation TOC (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness	Concentrations (µg/L) TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8020/8021)	MTBE (8240/8260)
MW3	10/14/02	41.71	12.10	29.61	0.00	2,550	--	36.9	3.8	20.3	48.0	<0.5	--
MW3	01/20/03	41.71	9.20	32.51	0.00	1,750	--	20.4	304.0	60.7	22.0	10.7	--
MW3	04/28/03	41.71	9.37	32.34	0.00	2,730	--	10.0	2.7	42.7	20.1	11.2	--
MW3	07/15/03	41.71	11.15	30.56	0.00	1,790	--	68.8	3.6	39.0	44.7	5.6	--
MW3	10/08/03	41.71	11.89	29.82	0.00	1,320	--	35.1	4.0	23.6	31.8	7.1	--
MW3	01/15/04	41.71	9.16	32.55	0.00	791	--	24.4	1.3	40.1	14.7	3.4	--
MW3	**09/17/10**	**41.71**	**11.46**	**30.25**	**0.00**	**2,500**	**99**	**2.6**	**0.31[f]**	**1.8**	**1.8**	--	**<0.50**
MW4	03/14/96	31.50	4.92	26.58	0.00	12,000	3,500	2,200	140	880	2,000	--	--
MW4	05/21/96	31.50	8.60	22.90	0.00	11,000	4,200	1,700	ND	930	470	--	--
MW4	08/13/96	31.50	10.02	21.50	0.02	--	--	--	--	--	--	--	--
MW4	11/08/96	31.50	10.28	21.33	0.15	--	--	--	--	--	--	--	--
MW4	01/31/97	31.50	7.88	23.62	0.00	23,000	8,200[b]	980	68	1,100	1,400	ND	--
MW4	04/22/97	31.50	7.40	24.10	0.00	8,800	4,500	950	ND	610	130	ND	--
MW4	07/29/97	31.50	9.85	21.74	0.12	--	--	--	--	--	--	--	--
MW4	10/09/97	31.50	10.35	21.38	0.30	--	--	--	--	--	--	--	--
MW4	01/23/98	31.50	4.68	27.51	0.92	--	--	--	--	--	--	--	--
MW4	04/22/98	31.50	6.39	25.22	0.14	--	--	--	--	--	--	--	--
MW4	07/21/98	31.50	7.10	24.55	0.20	--	--	--	--	--	--	--	--
MW4	10/20/98	31.50	9.03	22.60	0.17	--	--	--	--	--	--	--	--
MW4	01/27/99	31.50	5.37	26.18	0.07	--	--	--	--	--	--	--	--
MW4	Destroyed during construction activities in April 1999												
MW5	10/25/00	39.18	10.92	28.26	0.00	2,500	--	79	3.8	66	<20	<20	--
MW5	01/15/01	39.18	8.32	30.86	0.00	3,900	--	120	7.9	280	52	<5.0	--
MW5	04/10/01	39.18	7.21	31.97	0.00	8,000	--	280	4.4	410	100	<50	<5
MW5	07/24/01	39.18	9.54	29.64	0.00	7,000	--	360	7.4	380	67	<1.0	--
MW5	11/27/01	39.18	8.84	30.34	0.00	5,000	--	64	11	340	52	8.9	<2
MW5	01/18/02	41.59	6.52	35.07	0.00	6,330	--	99.1	2.30	103	19.6	21.8	--
MW5	04/10/02	41.59	7.20	34.39	0.00	2,140	--	275	8.00	183	24.5	<2.50	--
MW5	07/12/02	41.59	8.83	32.76	0.00	3,940	--	350	<0.50	268	14	20	<0.50
MW5	10/14/02	41.59	10.74	30.85	0.00	4,040	--	98.5	9.0	169	29.0	<2.5	--
MW5	01/20/03	41.59	6.45	35.14	0.00	7,660	--	421	10.0	743	96.0	59	<0.50
MW5	04/28/03	41.59	6.68	34.91	0.00	7,510	--	403	5.5	524	50.5	47	<0.50
MW5	07/15/03	41.59	8.68	32.91	0.00	6,080	--	406	19.8	412	34.7	52.9	<2.5
MW5	10/08/03	41.59	10.56	31.03	0.00	2,460	--	160	12.8	173	31.7	54.3	<0.5

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 99105, 6301 SAN PABLO AVENUE, OAKLAND, CALIFORNIA

Well Number	Date	Elevation TOC (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness	Concentrations (µg/L) TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8020/8021)	MTBE (8240/8260)
AB1	03/05/98	--	--	--	--	1,600	--	31	5.3	79	130	ND	--
AB2	03/05/98	--	--	--	--	ND	--	ND	2.9	0.9	5.7	ND	--
AB3	03/05/98	--	--	--	--	6,800	--	680	100	1,500	2,300	230	--
AB4	03/05/98	--	--	--	--	8,500	--	240	ND	260	720	ND	--
AB6	03/05/98	--	--	--	--	12,000	--	350	ND	310	100	ND	--
AB9	03/05/98	--	--	--	--	1,000	--	57	12	44	93	ND	--
AB10	03/05/98	--	--	--	--	200	--	3.0	1.2	3.2	2.8	ND	--
AB11	03/05/98	--	--	--	--	ND	--	ND	ND	ND	ND	ND	--
AB12	03/05/98	--	--	--	--	8,800	--	660	50	630	940	37	--
AB13	03/05/98	--	--	--	--	210	--	11	0.8	10	15	ND	--
HA1	01/25/00	--	--	--	--	<500	--	<0.3	<0.3	<0.3	<0.6	<5.0	--
MW5	01/15/04	41.59	6.56	35.03	0.00	4,630	--	181	6.0	312	38.5	37.4	<0.5
MW5	**09/17/10**	**41.59**	**9.99**	**31.60**	**0.00**	**6,600**	**5,700**	**19**	**<5.0**	**16**	**1.4[f]**	**--**	**<5.0**

Notes:

a Well sampled using no-purge method.
b Diesel and unidentified hydrocarbons <C15.
c Diesel and unidentified hydrocarbons <C15>C25.
d Diesel and unidentified hydrocarbons >C20.
e Unidentified hydrocarbons >C18.
f Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit.

LPH Liquid-phase hydrocarbons.
MTBE Methyl tertiary butyl ether.
ND Not detected at or above laboratory reporting limit.
TOC Top of casing.

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 99105, 6301 SAN PABLO AVENUE, OAKLAND, CALIFORNIA

Well Number	Date	Elevation TOC (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness	Concentrations (µg/L) TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8020/8021)	MTBE (8240/8260)

TPH-d Total Petroleum Hydrocarbons as diesel.
TPH-g Total Petroleum Hydrocarbons as gasoline.

-- Not measured/not analyzed.
µg/L Micrograms per liter.

TABLE 3 GROUNDWATER SAMPLE ANALYTICAL RESULTS FOR OXYGENATES AND ADDITIVES, FORMER MOBIL STATION 99105, 6301 SAN PABLO AVENUE, OAKLAND, CALIFORNIA

Well Number	Date	Concentrations (µg/L)						
		MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB
MW2	**09/17/10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<10**	**<0.50**	**<0.50**
MW3	**09/17/10**	**<0.50**	**0.17[a]**	**<0.50**	**<0.50**	**9.8[a]**	**1.9**	**<0.50**
MW5	**09/17/10**	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**<100**	**<5.0**	**<5.0**

Notes: All analytes were analyzed by EPA Method 8260B.

a Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.

1,2-DCA 1,2-Dichloroethane.
DIPE Diisopropyl ether.
EDB 1,2-Dibromoethane.
ETBE Ethyl tertiary butyl ether.
MTBE Methyl tertiary butyl ether.
TAME Tertiary amyl methyl ether.
TBA Tertiary butyl alcohol.

µg/L Micrograms per liter.

Appendix A

Regulatory Correspondence

Hamidou Barry

From: Hamidou Barry
Sent: Monday, September 13, 2010 11:21 AM
To: 'barbara.jakub@acgov.org'
Cc: Bryan Campbell; 'jennifer.c.sedlachek@exxonmobil.com'; Christa Marting
Subject: Former Mobil Station 99105 (Case No. RO0000445): Well Re-development - Groundwater Sampling

As a follow up to our telephone conversation on 31 August 2010, I am sending this email to inform of the following schedule for the re-development and sampling of the 3 existing groundwater monitoring wells at Former Mobil Station 99105 (Case No. RO0000445), located at 6301 San Pablo Avenue, Oakland, CA.

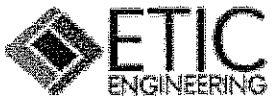
- **14 September 2010:** Re-development of wells MW2, MW3 and MW5.
- **17 September 2010:** Groundwater sampling.

A report documenting well re-development and sampling will be submitted to the Alameda County Health Care Services Agency.

Please contact us if you have any questions.

Thank you.

Hamidou Barry
hbarry@eticeng.com
ETIC Engineering, Inc.
2285 Morello Ave.
Pleasant Hill, CA 94523
Tel: 925-602-4710 x 34
Fax: 925-602-4720
Cell: 925-354-8275
www.eticeng.com



TM99105

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

October 17, 2008

Jennifer Sedlachek
ExxonMobil
4096 Piedmont, Ave., #194
Oakland, CA 94611

On Dan and Nathan Lam
200 El Dorado Terrace
San Francisco, CA 94112

Subject: Fuel Leak Case No. RO0000445 and Geotracker Global ID T0600101855, Mobil#99-105 / Cars Rent A Car, 6301 San Pablo Avenue, Oakland, CA 94608

Dear Ms. Sedlachek and Messrs. Lam:

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the site and the most recently submitted documents including the groundwater monitoring report dated April 14, 2004 prepared by ETIC, the *Risk-Based Corrective Action (RBCA) Report* dated October 2002 and the *Site Conceptual Model dated November 2001* both prepared by TRC. In the March 22, 2005 letter Ms. Sedlachek requests case closure stating the groundwater concentrations show a stable or decreasing trend. During our recent review of the case, ACEH has identified a few data gaps. An evaluation of the data for MW-5 indicates that benzene concentrations are increasing in this well. Also, no downgradient or off-site evaluation of groundwater or soil vapor has occurred at the site, leaving off-site residential exposure pathways unevaluated. The RBCA that was submitted did not show the data values used for specific input parameters placed into the model or the resulting calculations. Using the maximum soil concentration at the site in the ASTM RBCA model indicates that this soil concentration is above the calculated site-specific target levels (SSTLs) for this site. Therefore, ACEH cannot consider case closure for the subject site at this time. This decision to deny closure is subject to appeal to the State Water Resources Control Board (SWRCB), pursuant to Section 25299.39.2(b) of the Health and Safety Code (Thompson-Richter Underground Storage Tank Reform Act - Senate Bill 562). Please contact the SWRCB Underground Storage Tank Program at (916) 341-5851 for information regarding the appeals process.

TECHNICAL COMMENTS

1. **Dissolved Groundwater Plume Characterization.** As stated above, case closure was requested for the site based on groundwater concentrations that were stable or decreasing. It appears that contaminant concentrations have declined in well MW-3. However, total petroleum hydrocarbons as gasoline and benzene concentrations have increased in well MW-5 which is downgradient of former well MW-4. MW-4 was destroyed in April 1999 while free product was still present in this well. Neither groundwater nor soil vapor has been assessed downgradient of well MW-5 or MW-3 to determine if contaminants are migrating or have already migrated onto the adjacent

property. Also, vapor migration into the on-site building needs to be assessed since there was formerly free product beneath this area. ACEH requests that you prepare a work plan to assess off-site groundwater and soil vapor intrusion at the adjacent property and on-site vapor intrusion into the current building by the date requested below. We request that you evaluate the current concentrations of existing wells by redeveloping and sampling them.

2. **Residual Soil Contamination.** Soil from both MW-2 and MW-4 contained 1.2 milligrams per kilogram (mg/Kg) benzene which exceeds the current environmental screening level for this constituent and the SSTL generated by the ETIC RBCA. While the location of MW-4 is currently covered with a building, MW-2 is still accessible. Please submit a proposal to evaluate residual soil concentrations in this area in the work plan requested below.

3. **Waste Disposal Table.** ACEH in our letter dated December 7, 2001, requested that a list of all disposed, destroyed or reused soil and groundwater be presented in tabularized form with the date and location of disposal. ACEH does not have a copy of this table. Please include a copy in the work plan requested below.

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Barbara Jakub), according to the schedule presented below:

- **December 19, 2008** – Soil and Water Investigation Work Plan

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in

Geotracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.swrcb.ca.gov/ust/electronic_submittal/report_rqmts.shtml.

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to $10,000 per day for each day of violation.

If you have any questions, please call me at (510) 639-1287 or send me an electronic mail message at barbara.jakub@acgov.org.

Sincerely,

Barbara J. Jakub, P.G.
Hazardous Materials Specialist

Enclosures: ACEH Electronic Report Upload (ftp) Instructions

cc: Bryan Campbell, ETIC Engineering, 2285 Morello Avenue, Pleasant Hill CA 94523
Leroy Griffin, Oakland Fire Department, 250 Frank H. Ogawa Plaza, Ste. 3341, Oakland, CA 94612-2032
Donna Drogos, ACEH
Barbara Jakub, ACEH
File

Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)	ISSUE DATE: July 5, 2005
	REVISION DATE: December 16, 2005
	PREVIOUS REVISIONS: October 31, 2005
SECTION: Miscellaneous Administrative Topics & Procedures	SUBJECT: Electronic Report Upload (ftp) Instructions

Effective **January 31, 2006**, the Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

REQUIREMENTS

- Entire report including cover letter must be submitted to the ftp site as **a single portable document format (PDF) with no password protection**. (Please do not submit reports as attachments to electronic mail.)
- It is **preferable** that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- Signature pages and perjury statements **must** be included and have either original or electronic signature.
- **Do not password protect the document.** Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. **Documents with password protection will not be accepted.**
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:
  RO#_Report Name_Year-Month-Date (e.g., RO#5555_WorkPlan_2005-06-14)

litional Recommendations

- A separate copy of the tables in the document should be submitted by e-mail to your Caseworker in **Excel** format. These are for use by assigned Caseworker only.

Submission Instructions

1) Obtain User Name and Password:
   a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
      i) Send an e-mail to dehloptoxic@acgov.org
      or
      ii) Send a fax on company letterhead to (510) 337-9335, to the attention of Alicia Lam-Finneke.
   b) In the subject line of your request, be sure to include **"ftp PASSWORD REQUEST"** and in the body of your request, include the **Contact Information, Site Addresses**, and the **Case Numbers (RO# available in Geotracker) you will be posting for.**

2) Upload Files to the ftp Site
   a) Using Internet Explorer (IE4+), go to ftp://alcoftp1.acgov.org
      (i) Note: Netscape and Firefox browsers will not open the FTP site.
   b) Click on File, then on Login As.
   c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
   d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
   e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.

3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
   a) Send email to dehloptoxic@acgov.org notify us that you have placed a report on our ftp site.
   b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name at acgov.org. (e.g., firstname.lastname@acgov.org)
   c) The subject line of the e-mail must start with the RO# followed by **Report Upload.** (e.g., Subject: RO1234 Report Upload)

Appendix B

Field Protocols

PROTOCOLS FOR WELL DEVELOPMENT AND SAMPLING

WELL DEVELOPMENT

Development typically consists of surging the screened interval of the well with a flapper valve surge block of the same diameter as the well for approximately 10 minutes. The well is then purged with a vacuum truck and a dedicated PVC stinger or disposable tubing, an inertial pump, a submersible electric pump, a centrifugal pump, an air-lift pump, or a PVC bailer until at least 3 casing volumes are removed and the water is free of silt and apparent turbidity.

A record of the purging methods and volumes of water purged is maintained. All purge water is contained on the site in properly labeled 55-gallon drums. Purged water is transported to an appropriate treatment facility.

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 C

Field Documents

ETIC ENGINEERING

MONITORING WELL DATA FORM

Site: **Former Mobil Station 99105**

Date: 9/14/10

Project Number: **UP99105.1**

Station Number: **99105**

Site Location:
1101 BROADWAY AVENUE, REDWOOD CITY, CA.

Samplers: H. Barry

MONITORING WELL NUMBER	DEPTH TO WATER (TOC)	DEPTH TO PRODUCT (TOC)	APPARENT PRODUCT THICKNESS	AMOUNT OF PRODUCT REMOVED	Well Completion Depth (Feet)	DEPTH TO BOTTOM (TOC)	WELL CASING DIAMETER
MW2	10.82				**20.00**	18.73	**4"**
MW3	11.49				**20.00**	18.32	**4"**
MW5	9.68				**20.00**	20.31	**4"**

WELL DEVELOPMENT FORM

ETIC ENGINEERING

Project No: UP99105.1.12 **Well No:** MW2 **Date:** 9/14/10

Project location: 6301 San Pablo Avenue, Oakland, CA **Personnel:** H. Barry

GAUGING DATA

Water Level Measuring Method: Water level meter Measuring Point Description: Top of casing

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)
	18.73	−	10.82	=	7.91	X	1	2	(4)	6	5.06	=	
							0.04	0.16	0.64	1.44			

PURGING DATA

Purge Method: _____ Purge Depth: _____

Time	12:16	12:20	12:30	12:38	12:54						
Volume Purge (gal)	2.5	5	7	10	12						
Temperature (°C)	21.10	21.11	21.10	21.09	21.10						
pH	6.37	6.32	6.18	6.07	6.05						
Conductivity (us/cm)	310	300	296	298	306						
Color	Dark brown	Dark brown	Dark brown	Brown	Brown						
Turbidity	silty	silty	silty	Some silt	Some silt						
Odor (Y/N)	N	N	N	N	N						
Casing Volumes	0.5	1	1.4	2	2.4						
Dewatered (Y/N)	N	N	N	N	N						

Comments/Observbations:

Total Purge Volume: 12 *(gallons)* Disposal: Drum

Weather Conditions: Sunny and Warm

Condition of Well Box and Casing: Good

Well Head Conditions Requiring Correction: None

Problems Encountered During Purging: Almost dewatered after 12 gallons

WELL DEVELOPMENT FORM

ETIC ENGINEERING

Project No: UP99105.1.12 **Well No:** MW3 **Date:** 9/14/10

Project location: 6301 San Pablo Avenue, Oakland, CA **Personnel:** H. Barry

GAUGING DATA

Water Level Measuring Method: Water level meter Measuring Point Description: Top of casing

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)
	18.32	−	11.49	=	6.83	X	1	2	(4)	6	4.37	=	
							0.04	0.16	0.64	1.44			

PURGING DATA

Purge Method: Purge Depth:

Time	14:08	14:12	14:20	14:28	14:38	14:57					
Volume Purge (gal)	2.5	5	7	10	12	15					
Temperature (°C)	20.1	20.1	19.3	19.1	18.7	18.6					
pH	6.49	6.48	6.61	6.52	6.51	6.48					
Conductivity (us/cm)	908	908	912	908	853	846					
Color	Dark green	Dark green	Dark green	Dark green	light green	light green					
Turbidity	Silty	Silty	Silty	Some silt	Some silt	Some silt					
Odor (Y/N)	Y	Y	Y	Y	Y	N					
Casing Volumes											
Dewatered (Y/N)	N	N	N	N	N	N					

Comments/Observbations:

Total Purge Volume: 15 (gallons) Disposal: Drum

Weather Conditions: Sunny and Warm

Condition of Well Box and Casing: Need a new well cap.

Well Head Conditions Requiring Correction: None

Problems Encountered During Purging: Almost dewatered after 15 gallons.

WELL DEVELOPMENT FORM

ETIC ENGINEERING

Project No: UP99105.1.12 Well No: MW5 Date: 9/14/10

Project location: 6301 San Pablo Avenue, Oakland, CA Personnel: H. Barry

GAUGING DATA

Water Level Measuring Method: Water level meter Measuring Point Description: Top of casing

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)
	20.31	−	9.68	=	10.63	X	1	2	(4)	6	6.80	=	
							0.04	0.16	0.64	1.44			

PURGING DATA

Purge Method: Purge Depth:

Time	10:43	10:48	11:02	11:12	11:18	11:25					
Volume Purge (gal)	3	6	10	14	17	20					
Temperature (°C)	19.8	19.7	19.1	18.9	18.8	18.8					
pH	6.71	6.67	6.47	7.7	7.1	6.9					
Conductivity (us/cm)	981	980	963	967	969	970					
Color	Greenish	Greenish	Greenish	light green	light green	light green					
Turbidity	Silty	Silty	Silty	Some silt	Some silt	Some silt					
Odor (Y/N)	Y	Y	Y	Y	Y	Y					
Casing Volumes	0.4	0.9	1.5	2	2.5	2.9					
Dewatered (Y/N)	N	N	N	N	N	N					

Comments/Observbations:

Total Purge Volume: 20 (gallons) Disposal: Drum

Weather Conditions: Sunny and warm

Condition of Well Box and Casing: Good

Well Head Conditions Requiring Correction: None

Problems Encountered During Purging: Almost dewatered after 20 gallons.

ETIC ENGINEERING

MONITORING WELL DATA FORM

Site: **Former Mobil Station 99105**

Date: 09-17-10

Project Number: **UP99105.1**

Station Number: **99105**

Site Location:
1101 BROADWAY AVENUE, REDWOOD CITY, CA.

Samplers: ALEX M.

MONITORING WELL NUMBER	DEPTH TO WATER (TOC)	DEPTH TO PRODUCT (TOC)	APPARENT PRODUCT THICKNESS	AMOUNT OF PRODUCT REMOVED	Well Completion Depth (Feet)	DEPTH TO BOTTOM (TOC)	WELL CASING DIAMETER
MW2	10.72				**20.00**	18.82	**4"**
MW3	11.46				**20.00**	18.47	**4"**
MW5	9.99				**20.00**	20.17	**4"**

G:\Projects\ExxonMobil\Sites\99105\Public\2010 Well Development\[MonitoringWellData.xls]Sheet1

ETIC ENGINEERING

GROUNDWATER PURGE AND SAMPLE

Site Name: **Former Mobil Station 99105** Well No: MW2 Date: 09-17-10

Project No: **UP99105.1** 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)
	16.32	-	10.72	=	5.10	X	1	2	(4)	6	5.18	=	15.55
							0.04	0.16	0.64	1.44			

PURGING DATA

Purge Method: WATERRA / BAILER / SUB Purge Depth: Screen Purge Rate: (gpm)

Time	1003	1015				
Volume Purge (gal)	5.5	11	16.5			
Temperature (C)	19.6	19.7				
pH	6.53	6.64				
Spec Cond. (umhos)	275	288				
Turbidity/Color	SLT/BRN	SLT/BRN				
Odor (Y/N)	N	N				
Dewatered (Y/N)	N	N				

Comments/Observations: DEWATER AT 12 GALLONS

SAMPLING DATA

Time Sampled: 1100 Approximate Depth to Water During Sampling: 11.-- (feet)

Comments:

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
MW2	6	VOA	HCL	40ML		See COC

Total Purge Volume: 12 (gallons) Disposal: OK

Weather Conditions: OK

Condition of Well Box and Casing at Time of Sampling: NONE

Well Head Conditions Requiring Correction: @ DEWATER

Problems Encountered During Purging and Sampling:

Comments:

BOLTS (Y) / N

CAP & LOCK (Y) / N

GROUT (Y) / N

WELL BOX (Y) / N

SECURED (Y) / N

ETIC ENGINEERING

GROUNDWATER PURGE AND SAMPLE

Site Name: **Former Mobil Station 99105** Well No: MW3 Date: 09-17-10

Project No: **UP99105.1** Personnel: ALEX

GAUGING DATA

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

	Total Depth (feet)		Depth to Water (feet)		Water Column (feet)		Multiplier for Casing Diameter					Casing Volume (gal)		Total Purge Volume (gal)
WELL PURGE VOLUME CALCULATION	18.47	−	11.46	=	7.01	X	1	2	(4)	6		4.48	=	13.45
							0.04	0.16	0.64	1.44				

PURGING DATA

Purge Method: WATERRA / BAILER / SUB Purge Depth: Screen Purge Rate: (gpm)

Time	1004	1014				
Volume Purge (gal)	4.5	9	13.5			
Temperature (C)	19.2	19.3				
pH	6.34	6.68				
Spec.Cond (umhos)	819	810				
Turbidity/Color	SLIGHT/BRN	SLIGHT/BRN				
Odor (Y/N)	N	N				
Dewatered (Y/N)	N	N				

Comments/Observations: DEWATER AT 10 GALLONS

SAMPLING DATA

Time Sampled: 1120 Approximate Depth to Water During Sampling: 12.- (feet)

Comments:

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
MW3	6	VOA	HCL	40ML		See COC

Total Purge Volume: 13 (gallons) Disposal:

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: DEWATER

Comments:

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

ETIC ENGINEERING

GROUNDWATER PURGE AND SAMPLE

Site Name: **Former Mobil Station 99105** Well No: MW5 Date: 09-17-10

Project No: **UP99105.1** Personnel: ALEX

GAUGING DATA

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

	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			
WELL PURGE VOLUME CALCULATION	20.17	-	9.99	=	10.18	X	0.04	0.16	0.64	1.44	6.51	=	19.54

PURGING DATA

Purge Method: WATERRA / BAILER / SUB Purge Depth: Screen Purge Rate: (gpm)

Time	0903	0917				
Volume Purge (gal)	7	14	21			
Temperature (C)	19.8	19.5				
pH	6.62	6.63				
Spec.Cond.(umhos)	872	856				
Turbidity/Color	SILTY/BRN	SILTY/BRN				
Odor (Y/N)	Y	Y				
Dewatered (Y/N)	N	N				

Comments/Observations: DEWATER AT 17 GALLONS

SAMPLING DATA

Time Sampled: 1130 Approximate Depth to Water During Sampling: 10— (feet)

Comments:

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
MW5	6	VOA	HCL	40ML		See COC

Total Purge Volume: 17 (gallons) Disposal:

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: @ DEWATER

Comments:

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

Appendix D

Waste Documentation

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of 1

3. Emergency Response Phone

4. Waste Tracking Number 9112221-091510

GENERATOR

5. Generator's Name and Mailing Address
ExxonMobil Oil Corp. (26125)
2525 W 190th Street, #1018
Torrance, CA 90504 USA
Generator's Phone: 800-575-4056

Generator's Site Address (if different than mailing address)
6301 SAN PABLO AVE
OAKLAND CA

6. Transporter 1 Company Name
DILLARD ENVIRONMENTAL SERVICES

U.S. EPA ID Number
CAD982629433

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Kleenit WD
7185 Airport Rd
Rio Vista, CA 94571
Facility's Phone: 530-753-1529

U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Non-Hazardous Water (purge water)	2	DM	100	G
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
DES #211221

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and governmental regulations.

Generator's/Offeror's Printed/Typed Name: ON BEHALF OF EXXONMOBIL OIL CORPORATION
BRYAN CAMPBELL

Signature

Month: 9 Day: 17 Year: 10

TRANSPORTER INTL

15. International Shipments: ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Dina Goleland
Signature
Month: 9 Day: 17 Year: 10

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Mark Boller
Signature
Month: 9 Day: 17 Year: 10

159-SLD-0 6 10498 (Rev. 8/09)

DESIGNATED FACILITY TO GENERATOR

RECEIVED
SEP 17 2010
BY:

Dillard Environmental Services
PO Box 579
Byron, CA 94514
Telephone No. (925) 634-6850
Facsimile No. (925) 634-0874

TAG NO.
8711

Date 9 / 17 / 10	JOB NUMBERS(S)	JOB NUMBERS(S)	JOB NUMBERS(S)	JOB NUMBERS(S)
TRUCK NO. 303 TRAILER NO.	# 911-221	#	#	#
SUB. HAULER	#	#	#	#

PRIME CARRIER: Dillard
CONSIGNEE: Instrat
GENERATOR(S): Encl/Exxon 99105
DESTINATION: 1105 Airport Rd
6301 San Pablo Ave
CITY: Red Vista Ca
CITY: OAKLAND
BEGINNING MILEAGE: 264230
ENDING MILEAGE: 264398

	MATERIALS		LOADING		UNLOADING		FUEL - GALLONS		FUEL - VENDOR	
NO	MANIFEST NO.	YARDS OR WEIGHT	TIME ARRIVE	TIME LEAVE	TIME ARRIVE	TIME LEAVE	#1	#2	#1	#2
1	911221091310	10 Sgl	1130	1200	115	300				
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										

COMMENTS:

OFFICE USE ONLY	
TNS / HRS / LDS / YDS	
TRANSPORTATION UNITS:	
TRANSPORTATION RATE:	
SUBTOTAL:	$
DISPOSAL UNITS:	
DISPOSAL RATE:	
SUBTOTAL:	$
BRIDGE-TOLL:	
MATERIALS:	
TOTAL CHARGES:	$

START	STOP	DEDUCT TIME	NET TIME
10:00 am	4:00 pm	0	6

DRIVER: Dana Goldard 9-17-10
RECEIVED | DATE | APPROVED BY

TERMS and CONDITIONS

Payment terms are net thirty (30) days subject to a charge of 1.5% per month on all past due balances. In the event the account becomes delinquent and it is necessary to institute legal proceedings, CUSTOMER agrees to pay DES' attorney's fees incurred in such proceeding, action or suit or in any appeal thereon. The parties agree that actions or proceedings arising in connection with this agreement shall be tried and litigated exclusively in the courts located in Contra Costa County, California.

InStrat, Inc.

A liquid waste disposal company

P.O. Box 2279 (530) 753-1829
Davis, CA 95617

10376

CUSTOMER P.O. EM. 99-105

DATE 9-17-10

DAY OF WEEK Friday

CHARGE TO ETic

ADDRESS

ORIGIN 6301 San Pablo Ave

DESTINATION Oakland, CA

	DESCRIPTION			QTY / HRS	RATE	CHARGES
X	Monitoring well dewatering / pump test			100	39	39 —
	Auger rinsate		Underground storage tank (UST)			
	Spill/ release (not UST related)		Surface Impoundment			
X	Drums		Above ground storage tank	2		
	Solids					
	Washout					
Color	Brown		Sani-chlor Clear flo	1	22	22 —
Odor	6		Filters			
Solids	Firm %		Powersorb Sheet			
Other			Powersorb Boom			
Transporter Di Haro			SALES TAX			
	THIS TOTAL WILL STAND AS CORRECT UNLESS NOTIFIED OF CORRECTION WITHIN FIVE DAYS TERMS NET 30 DAYS. THE CUSTOMER AGREES TO PAY A FINANCE CHARGE OF 2% PER MONTH, WHICH IS AN ANNUAL RATE OF 24% ON PAST DUE ACCOUNTS. SIGNED BY X			TOTAL TO COLLECT		61 —

Appendix E

Laboratory Analytical Reports and Chain-of-Custody Documentation

Calscience
Environmental
Laboratories, Inc.

October 04, 2010

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

Subject: **Calscience Work Order No.: 10-09-1456**
Client Reference: ExxonMobil 99105

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 9/18/2010 and analyzed in accordance with the attached chain-of-custody.

Calscience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. 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

ETIC Engineering, Inc.		Date Received:	09/18/10
2285 Morello Avenue		Work Order No:	10-09-1456
Pleasant Hill, CA 94523-1850		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)

Project: ExxonMobil 99105

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW2	**10-09-1456-1-G**	**09/17/10 11:00**	**Aqueous**	**GC 46**	**09/21/10**	**09/23/10 01:46**	**100921B18**

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	U	ug/L
Surrogates:	**REC (%)**	**Control Limits**	**MDL**		**Qual**	
Decachlorobiphenyl	116	68-140				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW3	**10-09-1456-2-G**	**09/17/10 11:20**	**Aqueous**	**GC 46**	**09/21/10**	**09/23/10 02:01**	**100921B18**

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 Diesel	99	50	47	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**	**MDL**		**Qual**	
Decachlorobiphenyl	98	68-140				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW5	**10-09-1456-3-G**	**09/17/10 11:30**	**Aqueous**	**GC 46**	**09/21/10**	**09/23/10 09:18**	**100921B18**

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 Diesel	5700	500	470	10		ug/L
Surrogates:	**REC (%)**	**Control Limits**	**MDL**		**Qual**	
Decachlorobiphenyl	81	68-140				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-330-1,664**	**N/A**	**Aqueous**	**GC 46**	**09/21/10**	**09/22/10 21:30**	**100921B18**

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	U	ug/L
Surrogates:	**REC (%)**	**Control Limits**	**MDL**		**Qual**	
Decachlorobiphenyl	109	68-140				

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ETIC Engineering, Inc.		Date Received:	09/18/10
2285 Morello Avenue		Work Order No:	10-09-1456
Pleasant Hill, CA 94523-1850		Preparation:	EPA 5030B
		Method:	EPA 8015B (M)

Project: ExxonMobil 99105

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW2	**10-09-1456-1-E**	**09/17/10 11:00**	**Aqueous**	**GC 42**	**09/22/10**	**09/22/10 10:17**	**100922B01**

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	U	ug/L

Surrogates:	REC (%)	Control Limits	MDL	Qual
1,4-Bromofluorobenzene	82	38-134		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW3	**10-09-1456-2-E**	**09/17/10 11:20**	**Aqueous**	**GC 42**	**09/22/10**	**09/22/10 10:54**	**100922B01**

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	2500	50	48	1		ug/L

Surrogates:	REC (%)	Control Limits	MDL	Qual
1,4-Bromofluorobenzene	133	38-134		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW5	**10-09-1456-3-E**	**09/17/10 11:30**	**Aqueous**	**GC 42**	**09/22/10**	**09/22/10 11:30**	**100922B01**

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	6600	250	240	5		ug/L

Surrogates:	REC (%)	Control Limits	MDL	Qual
1,4-Bromofluorobenzene	105	38-134		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-436-5,257**	**N/A**	**Aqueous**	**GC 42**	**09/22/10**	**09/22/10 02:58**	**100922B01**

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	U	ug/L

Surrogates:	REC (%)	Control Limits	MDL	Qual
1,4-Bromofluorobenzene	85	38-134		

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ETIC Engineering, Inc.		Date Received:	09/18/10
2285 Morello Avenue		Work Order No:	10-09-1456
Pleasant Hill, CA 94523-1850		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: ExxonMobil 99105			Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW2	**10-09-1456-1-A**	**09/17/10 11:00**	**Aqueous**	**GC/MS BB**	**09/28/10**	**09/28/10 17:26**	**100928L01**

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	0.20	1	U	Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.14	1	U
1,2-Dibromoethane	ND	0.50	0.23	1	U	Tert-Butyl Alcohol (TBA)	ND	10	4.0	1	U
1,2-Dichloroethane	ND	0.50	0.075	1	U	Diisopropyl Ether (DIPE)	ND	0.50	0.12	1	U
Ethylbenzene	ND	0.50	0.043	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.25	1	U
Toluene	ND	0.50	0.25	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.12	1	U
Xylenes (total)	ND	0.50	0.081	1	U						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	102	80-128		Dibromofluoromethane	106	80-127	
Toluene-d8	100	80-120		1,4-Bromofluorobenzene	89	68-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW3	**10-09-1456-2-A**	**09/17/10 11:20**	**Aqueous**	**GC/MS BB**	**09/28/10**	**09/28/10 17:56**	**100928L01**

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	2.6	0.50	0.20	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.14	1	U
1,2-Dibromoethane	ND	0.50	0.23	1	U	Tert-Butyl Alcohol (TBA)	9.8	10	4.0	1	J
1,2-Dichloroethane	1.9	0.50	0.075	1		Diisopropyl Ether (DIPE)	0.17	0.50	0.12	1	J
Ethylbenzene	1.8	0.50	0.043	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.25	1	U
Toluene	0.31	0.50	0.25	1	J	Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.12	1	U
Xylenes (total)	1.8	0.50	0.081	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	101	80-128		Dibromofluoromethane	103	80-127	
Toluene-d8	111	80-120		1,4-Bromofluorobenzene	104	68-120	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ETIC Engineering, Inc.		Date Received:	09/18/10
2285 Morello Avenue		Work Order No:	10-09-1456
Pleasant Hill, CA 94523-1850		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: ExxonMobil 99105			Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW5	**10-09-1456-3-B**	**09/17/10 11:30**	**Aqueous**	**GC/MS BB**	**09/29/10**	**09/29/10 22:39**	**100929L01**

Comment(s): -The reporting limit is elevated resulting from matrix interference.

-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	19	5.0	2.0	10		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.4	10	U
1,2-Dibromoethane	ND	5.0	2.3	10	U	Tert-Butyl Alcohol (TBA)	ND	100	40	10	U
1,2-Dichloroethane	ND	5.0	0.75	10	U	Diisopropyl Ether (DIPE)	ND	5.0	1.2	10	U
Ethylbenzene	16	5.0	0.43	10		Ethyl-t-Butyl Ether (ETBE)	ND	5.0	2.5	10	U
Toluene	ND	5.0	2.5	10	U	Tert-Amyl-Methyl Ether (TAME)	ND	5.0	1.2	10	U
Xylenes (total)	1.4	5.0	0.81	10	J						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	84	80-128		Dibromofluoromethane	94	80-127	
Toluene-d8	104	80-120		1,4-Bromofluorobenzene	99	68-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-025-1,734**	**N/A**	**Aqueous**	**GC/MS BB**	**09/28/10**	**09/28/10 13:52**	**100928L01**

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	0.20	1	U	Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.14	1	U
1,2-Dibromoethane	ND	0.50	0.23	1	U	Tert-Butyl Alcohol (TBA)	ND	10	4.0	1	U
1,2-Dichloroethane	ND	0.50	0.075	1	U	Diisopropyl Ether (DIPE)	ND	0.50	0.12	1	U
Ethylbenzene	ND	0.50	0.043	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.25	1	U
Toluene	ND	0.50	0.25	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.12	1	U
Xylenes (total)	ND	0.50	0.081	1	U						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	103	80-128		Dibromofluoromethane	103	80-127	
Toluene-d8	103	80-120		1,4-Bromofluorobenzene	89	68-120	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ETIC Engineering, Inc.	Date Received:	09/18/10
2285 Morello Avenue	Work Order No:	10-09-1456
Pleasant Hill, CA 94523-1850	Preparation:	EPA 5030B
	Method:	EPA 8260B
	Units:	ug/L
Project: ExxonMobil 99105		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	**099-10-025-1,736**	**N/A**	**Aqueous**	**GC/MS BB**	**09/29/10**	**09/29/10 19:37**	**100929L01**

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	0.20	1	U	Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.14	1	U
1,2-Dibromoethane	ND	0.50	0.23	1	U	Tert-Butyl Alcohol (TBA)	ND	10	4.0	1	U
1,2-Dichloroethane	ND	0.50	0.075	1	U	Diisopropyl Ether (DIPE)	ND	0.50	0.12	1	U
Ethylbenzene	ND	0.50	0.043	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.25	1	U
Toluene	ND	0.50	0.25	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.12	1	U
Xylenes (total)	ND	0.50	0.081	1	U						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	100	80-128		Dibromofluoromethane	101	80-127	
Toluene-d8	97	80-120		1,4-Bromofluorobenzene	87	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:	09/18/10
2285 Morello Avenue		Work Order No:	10-09-1456
Pleasant Hill, CA 94523-1850		Preparation:	EPA 5030B
		Method:	NWTPH-Gx

Project ExxonMobil 99105

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-09-1377-1	**Aqueous**	**GC 42**	**09/22/10**	**09/22/10**	**100922S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	109	109	68-122	0	0-18	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH ... ELAP

ETIC Engineering, Inc.	Date Received:	09/18/10
2285 Morello Avenue	Work Order No:	10-09-1456
Pleasant Hill, CA 94523-1850	Preparation:	EPA 5030C
	Method:	EPA 8260C

Project ExxonMobil 99105

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-09-1358-3	Aqueous	GC/MS BB	09/28/10	09/28/10	100928S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	99	101	76-124	2	0-20	
1,2-Dibromoethane	99	98	80-120	0	0-20	
1,2-Dichloroethane	103	106	80-120	2	0-20	
Ethylbenzene	99	99	78-126	0	0-20	
Toluene	95	98	80-120	3	0-20	
Methyl-t-Butyl Ether (MTBE)	100	106	67-121	7	0-49	
Tert-Butyl Alcohol (TBA)	108	106	36-162	2	0-30	
Diisopropyl Ether (DIPE)	100	103	60-138	3	0-45	
Ethyl-t-Butyl Ether (ETBE)	97	103	69-123	6	0-30	
Tert-Amyl-Methyl Ether (TAME)	100	105	65-120	5	0-20	
Ethanol	123	117	30-180	4	0-72	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH NELAC

ETIC Engineering, Inc.	Date Received:	09/18/10
2285 Morello Avenue	Work Order No:	10-09-1456
Pleasant Hill, CA 94523-1850	Preparation:	EPA 5030B
	Method:	EPA 8260B

Project ExxonMobil 99105

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-09-1529-3	**Aqueous**	**GC/MS BB**	**09/29/10**	**09/29/10**	**100929S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	97	97	76-124	0	0-20	
1,2-Dibromoethane	96	102	80-120	7	0-20	
1,2-Dichloroethane	97	94	80-120	3	0-20	
Ethylbenzene	103	105	78-126	2	0-20	
Toluene	98	100	80-120	1	0-20	
Methyl-t-Butyl Ether (MTBE)	97	103	67-121	7	0-49	
Tert-Butyl Alcohol (TBA)	100	96	36-162	5	0-30	
Diisopropyl Ether (DIPE)	96	99	60-138	3	0-45	
Ethyl-t-Butyl Ether (ETBE)	98	99	69-123	1	0-30	
Tert-Amyl-Methyl Ether (TAME)	95	99	65-120	4	0-20	
Ethanol	97	80	30-180	19	0-72	

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:	10-09-1456
Pleasant Hill, CA 94523-1850	Preparation:	EPA 3510C
	Method:	EPA 8015B (M)

Project: ExxonMobil 99105

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-330-1,664	Aqueous	GC 46	09/21/10	09/22/10	100921B18

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	113	99	75-117	13	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:	10-09-1456
Pleasant Hill, CA 94523-1850		Preparation:	EPA 5030B
		Method:	EPA 8015B (M)

Project: ExxonMobil 99105

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-436-5,257	Aqueous	GC 42	09/22/10	09/22/10	100922B01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	112	113	78-120	1	0-10	

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:	10-09-1456
Pleasant Hill, CA 94523-1850		Preparation:	EPA 5030B
		Method:	EPA 8260B

Project: ExxonMobil 99105

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-025-1,734	Aqueous	GC/MS BB	09/28/10	09/28/10	100928L01

Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	105	107	80-120	73-127	2	0-20	
1,2-Dibromoethane	110	108	79-121	72-128	1	0-20	
1,2-Dichloroethane	106	108	80-120	73-127	2	0-20	
Ethylbenzene	108	108	80-120	73-127	0	0-20	
Toluene	103	105	80-120	73-127	2	0-20	
Methyl-t-Butyl Ether (MTBE)	106	107	69-123	60-132	1	0-20	
Tert-Butyl Alcohol (TBA)	112	113	63-123	53-133	0	0-20	
Diisopropyl Ether (DIPE)	109	112	59-137	46-150	2	0-37	
Ethyl-t-Butyl Ether (ETBE)	108	112	69-123	60-132	4	0-20	
Tert-Amyl-Methyl Ether (TAME)	110	112	70-120	62-128	2	0-20	
Ethanol	132	146	28-160	6-182	10	0-57	

Total number of LCS compounds : 11
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

ETIC Engineering, Inc.		Date Received:	N/A
2285 Morello Avenue		Work Order No:	10-09-1456
Pleasant Hill, CA 94523-1850		Preparation:	EPA 5030B
		Method:	EPA 8260B

Project: ExxonMobil 99105

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-025-1,736	Aqueous	GC/MS BB	09/29/10	09/29/10	100929L01

Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	102	99	80-120	73-127	2	0-20	
1,2-Dibromoethane	106	99	79-121	72-128	6	0-20	
1,2-Dichloroethane	103	98	80-120	73-127	4	0-20	
Ethylbenzene	104	104	80-120	73-127	0	0-20	
Toluene	100	98	80-120	73-127	3	0-20	
Methyl-t-Butyl Ether (MTBE)	111	102	69-123	60-132	9	0-20	
Tert-Butyl Alcohol (TBA)	91	94	63-123	53-133	3	0-20	
Diisopropyl Ether (DIPE)	106	99	59-137	46-150	7	0-37	
Ethyl-t-Butyl Ether (ETBE)	109	101	69-123	60-132	8	0-20	
Tert-Amyl-Methyl Ether (TAME)	105	99	70-120	62-128	6	0-20	
Ethanol	96	102	28-160	6-182	7	0-57	

Total number of LCS compounds : 11
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: 10-09-1456

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.
ME	LCS recovery percentage is within LCS ME control limit range.
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.
U	Undetected at detection limit.
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	
Provide MRN for retail or AFE for major projects	
Retail Project (MRN)	
Major Project (AFE)	E1.1996.60135
Project Name	Former Mobil 99105

CHAIN OF CUSTODY RECORD

DATE: 09-17-10

PAGE: 1 OF 1

ExxonMobil Engr: Jennifer Sedlachek

LABORATORY CLIENT:
ExxonMobil C/O ETIC Engineering, Inc.

ADDRESS:
2285 Morello Avenue

CITY:
Pleasant Hill, CA

TEL: 925-602-4710 Ext. 34 | FAX: 925-602-4720 | EMAIL: See Instructions

GLOBAL ID #/ COELT LOG CODE:
GLOBAL ID# T0600101855

PROJECT CONTACT:
Hamidou Barry, ETIC Engineering, Inc.

SAMPLER(S): (SIGNATURE)

P.O.
4512012692

LAB USE ONLY
09-1456

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:
EDF file required, GLOBAL ID# T0600101855

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MAT-RIX	NO. OF CONT.	TPH-g/BTEX by 8015B/8260B	TPH-d by 8015B	7 Oxygenates BY 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	MW2	MW2	09-17-10	1100	Water	8	X	X	X												VOAs and Ambers
2	MW3	MW3	↓	1120	Water	8	X	X	X												VOAs and Ambers
3	MW5	MW5	↓	1130	Water	8	X	X	X												VOAs and Ambers

Relinquished by: (Signature)	Received by: (Signature)	Date, & Time:
[signature] 9-17-10 1300	CEL	9-17-10 1350
Relinquished by: (Signature)	Received by: (Signature)	Date, & Time:
[signature] to GSO 9-17-10 1730	CEL	9/18/10 1130
Relinquished by: (Signature)	Received by: (Signature)	Date, & Time:

1456

GSO

‹ WebShip › › › › ›

800-322-5555 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:
BTS, ETIC, WEISS

Delivery Instructions:

Signature Type:
SIGNATURE REQUIRED

Tracking #: 514972591

SDS

ORC

D

GARDEN GROVE

D92843A

84784309

Print Date : 09/17/10 15:36 PM

Package 1 of 1

Send Label To Printer ☑ Print All Edit Shipment Finish

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

STEP 1 - Use the "Send Label to Printer" button on this page to print the shipping label on a laser or inkjet printer.
STEP 2 - Fold this page in half.
STEP 3 - Securely attach this label to your package, do not cover the barcode.
STEP 4 - Request an on-call pickup for your package, if you do not have scheduled daily pickup service or Drop-off your package at the nearest GSO drop box. Locate nearest GSO dropbox locations using this link.

ADDITIONAL OPTIONS:

Send Label Via Email Create Return Label

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all the service terms and conditions described in this section.
Our liability for loss or damage to any package is limited to your actual damages or $100 whichever is less, unless you pay for and declare a higher authorized value. If you declare a higher value and pay the additional charge, our liability will be the lesser of your declared value or the actual value of your loss or damage. In any event, we will not be liable for any damage, whether direct, incidental, special or consequential, in excess of the declared value of a shipment whether or not we had knowledge that such damage might be incurred including but not limited to loss of income or profit. We will not be liable for your acts or omissions, including but not limited to improper or insufficient packaging, securing, marking or addressing. Also, we will not be liable if you or the recipient violates any of the terms of our agreement. We will not be liable for loss, damage or delay caused by events we cannot control, including but not limited to acts of God, perils of the air, weather conditions, act of public enemies, war, strikes, or civil commotion. The highest declared value for our GSO Priority Letter or GSO Priority Package is $500. For other shipments the highest declared value is $10,000 unless your package contains items of "extraordinary value", in which case the highest declared value we allow is $500. Items of "extraordinary value" include, but or not limited to, artwork, jewelry, furs, precious metals, tickets, negotiable instruments and other items with intrinsic value.

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 10-09-1456

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: ETIC DATE: 09/18/10

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

Temperature 2.5 °C + 0.5 °C (CF) = 3.0 °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 Initial: YL

CUSTODY SEALS INTACT:

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

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: KM

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	☑	☐	☐
pH / Residual Chlorine / Dissolved Sulfide received within 24 hours	☐	☐	☑
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 ☑VOAh (6) ☐VOAna_2 (2) ☐125AGB ☐125AGBh ☐125AGBp ☐1AGB ☐1AGBna_2 ☐1AGBs

☐500AGB ☑500AGJ ☐500AGJs ☐250AGB ☐250CGB ☐250CGBs ☐1PB ☐500PB ☐500PBna

☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PJ ☐100PJna_2 ☐_____ ☐_____ ☐_____

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

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

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