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Jennifer C. Sedlachek
Project Manager

RECEIVED

By dehloptoxic at 9:14 am, Jul 03, 2006

ExxonMobil
Refining & Supply

June 30, 2006

Mr. Steven Plunkett
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502

Subject: Former Mobil Station 04-334, 2492 Castro Valley Boulevard, Castro Valley, California

Dear Mr. Plunkett:

Attached for your review and comment is a copy of the *Report of Groundwater Monitoring, Second Quarter 2006* for the above-referenced site. The report, prepared by ETIC Engineering, Inc. of Pleasant Hill, California, details the results of the May 2006 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,



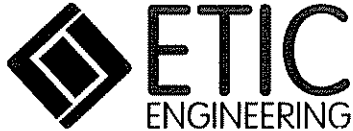
JCS
Jennifer C. Sedlachek
Project Manager

Attachment: ETIC Groundwater Monitoring Report dated June 2006

- c: w/ attachment:
Ms. Paula Floeck – Jiffy Lube International
Mr. Dan McQuillen – 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:
Ms. Christa Marting - ETIC Engineering, Inc.

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By dehloptoxic at 9:14 am, Jul 03, 2006



**Report of Groundwater Monitoring
Second Quarter 2006**

**Former Mobil Station 04-334
2492 Castro Valley Boulevard
Castro Valley, California**

Prepared for

ExxonMobil Oil Corporation
4096 Piedmont Avenue #194
Oakland, California 94611

Prepared by

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

Tracy A. Iob

Tracy A. Iob
Project Manager

June 28, 2006

Date

K. Erik Appel

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



June 28, 2006

Date

June 2006

SITE CONTACTS

Station Number: Former Mobil Station 04-334

Station Address: 2492 Castro Valley Boulevard
Castro Valley, California

ExxonMobil Project Manager: Jennifer C. Sedlachek
ExxonMobil Refining and Supply 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: Tracy Iob

Regulatory Oversight: Steven Plunkett
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502
(510) 567-6700

INTRODUCTION

At the request of ExxonMobil Oil Corporation, ETIC Engineering, Inc. has prepared this report of groundwater monitoring for former Mobil Station 04-334. 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 6 February 2006, the date of the last monitoring event, through 3 May 2006, the date of the 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 04-334
Site address:	2492 Castro Valley Boulevard, Castro Valley, California
Current property owner:	Cal Lube Real Estate Limited Partnership I
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:	4 (3 onsite, 1 offsite)

GROUNDWATER MONITORING SUMMARY

Gauging and sampling date:	3 May 2006
Wells gauged and sampled:	MW1-MW4
Wells gauged only:	None
Groundwater flow direction:	East-northeast
Groundwater gradient:	0.016
Well screens submerged:	None
Well screens not submerged:	MW1-MW4
Liquid-phase hydrocarbons:	Not observed or detected
Laboratory:	Sequoia Analytical/TestAmerica, Inc., Morgan Hill, California

Analyses performed:

- Total Petroleum Hydrocarbons as gasoline and as diesel by EPA Method 8015B
- Benzene, toluene, ethylbenzene, and total xylenes by EPA Method 8021B
- Methyl t-butyl ether by EPA Method 8260B

ADDITIONAL ACTIVITIES PERFORMED AT SITE

No additional activities were performed at the site.

WORK PROPOSED FOR NEXT QUARTER

Groundwater will be monitored in accordance with the attached groundwater monitoring plan.

Attachments:

Figure 1: Site Plan Showing Groundwater Elevations and 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

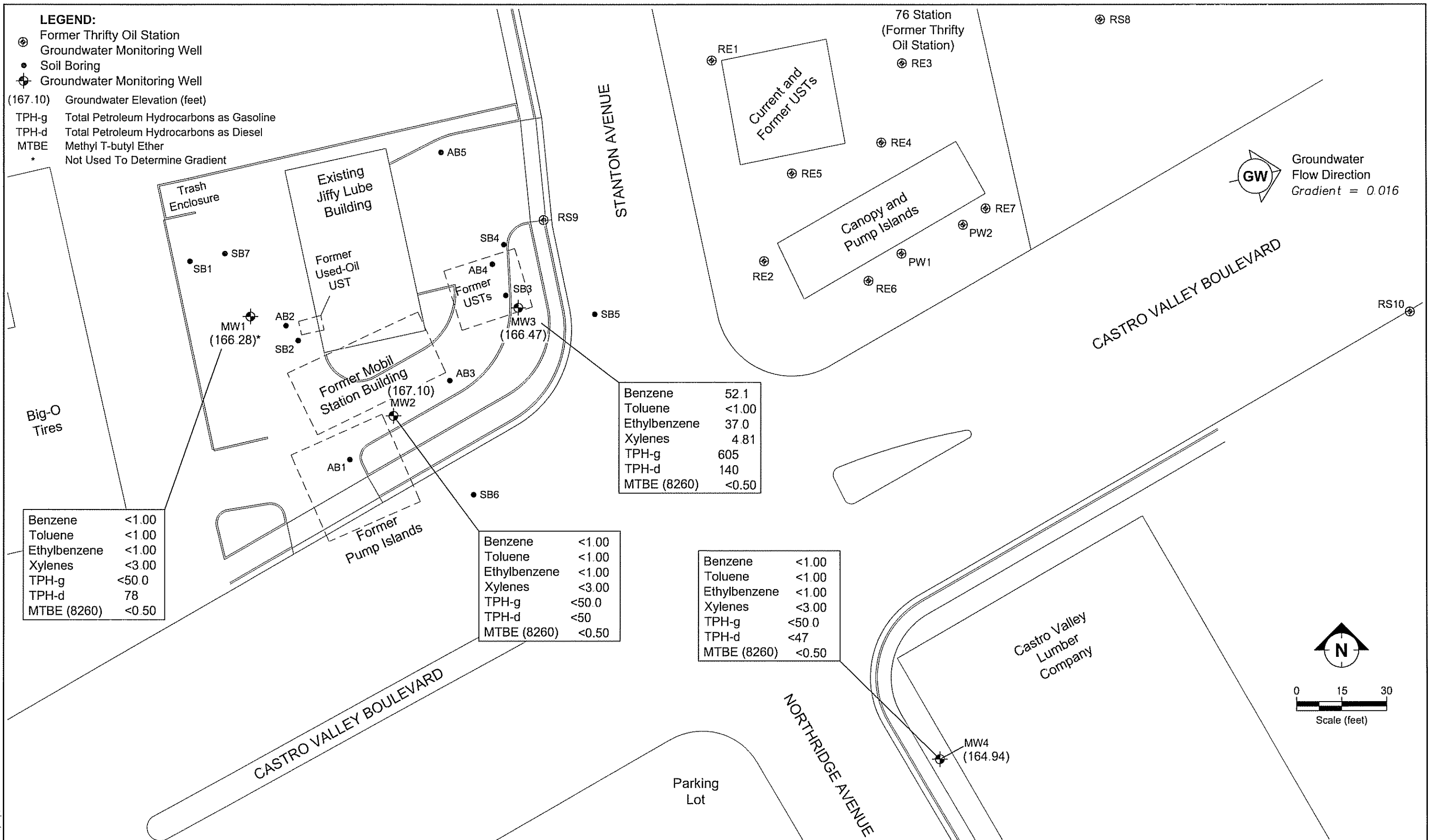
Appendix C: Laboratory Analytical Reports

Figures

LEGEND:

- ⊕ Former Thrifty Oil Station
- ⊕ Groundwater Monitoring Well
- Soil Boring
- ⊕ Groundwater Monitoring Well

- (167.10) Groundwater Elevation (feet)
- TPH-g Total Petroleum Hydrocarbons as Gasoline
- TPH-d Total Petroleum Hydrocarbons as Diesel
- MTBE Methyl T-butyl Ether
- * Not Used To Determine Gradient



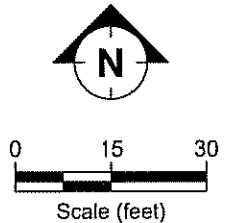
Benzene	<1.00
Toluene	<1.00
Ethylbenzene	<1.00
Xylenes	<3.00
TPH-g	<50.0
TPH-d	78
MTBE (8260)	<0.50

Benzene	52.1
Toluene	<1.00
Ethylbenzene	37.0
Xylenes	4.81
TPH-g	605
TPH-d	140
MTBE (8260)	<0.50

Benzene	<1.00
Toluene	<1.00
Ethylbenzene	<1.00
Xylenes	<3.00
TPH-g	<50.0
TPH-d	<50
MTBE (8260)	<0.50

Benzene	<1.00
Toluene	<1.00
Ethylbenzene	<1.00
Xylenes	<3.00
TPH-g	<50.0
TPH-d	<47
MTBE (8260)	<0.50

Groundwater Flow Direction
Gradient = 0.016



FILENAME: 202006.DWG 05/31/2006

Note:
Concentrations In Micrograms Per Liter (ug/L)



SITE PLAN SHOWING GROUNDWATER ELEVATIONS AND ANALYTICAL RESULTS
FORMER MOBIL STATION 04-334
2492 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CALIFORNIA
3 MAY 2006

FIGURE:
1

Tables

TABLE 1 WELL CONSTRUCTION DETAILS, FORMER MOBIL STATION 04-334, 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

a Well surveyed on 12 July 2004 by Morrow Surveying.

PVC Polyvinyl chloride.

TOC Top of casing.

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04-334, 2492 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CALIFORNIA

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

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04-334, 2492 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CALIFORNIA

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

a Top-of-casing elevation surveyed by Morrow Surveying on 12 July 2004.

b Analyzed by EPA Method 8260.

c Concentration estimated. Analyte exceeded calibration range. Reanalysis not performed due to holding time requirements.

Depth-to-water-level measurements in feet from top-of-casing.

TPH-g Total Petroleum Hydrocarbons as gasoline.

TPH-d Total Petroleum Hydrocarbons as diesel.

MTBE Methyl tertiary butyl ether.

µg/L Micrograms per liter.

TABLE 3 GROUNDWATER MONITORING PLAN,
 FORMER MOBIL STATION 04-334, 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	Q	Q	Q
MW2	Q	Q	Q
MW3	Q	Q	Q
MW4	Q	Q	Q

Q = Quarterly

BTEX = Benzene, toluene, ethylbenzene, total xylenes.

MTBE = Methyl tertiary butyl ether.

TPH-g = Total Petroleum Hydrocarbons as gasoline.

TPH-d = Total Petroleum Hydrocarbons as diesel.

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.

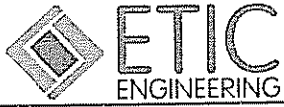
WELL PURGING

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



MONITORING WELL DATA FORM

Client: Exxon

Date: 05-03-06

Project Number: UP04-334

Station Number: 04-334

Site Location:
2492 Castro Valley Blvd , Castro Valley , California

Samplers: AVE X

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	6.95					19.89	2"
MW2	6.53					20.20	2"
MW3	5.44					19.93	2"
MW4	5.54					14.44	2"



Engineering, Inc.

GROUNDWATER PURGE AND SAMPLE

Project Name: Exxon 04-334 Well No: MW1 Date: 05-03-06
 Project No: UP04-334 1 Personnel: LUX

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)
		17.87	6.95	12.94	X 1	2	4	6	207
				0.04	0.16	0.64	1.44		

PURGING DATA

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

Time	1056	1058	1100			
Volume Purge (gal)	2.5	5	7.5			
Temperature (C)	18.1	18.2	18.5			
pH	7.49	7.85	7.94			
Spec. Cond. (umhos)	325	328	351			
Turbidity/Color	SUB / BRN	SILTY / BRN	SILTY / BRN			
Odor (Y/N)	N	N	N			
Casing Volumes	1	2	3			
Dewatered (Y/N)	N	N	N			

Comments/Observations:

SAMPLING DATA

Time Sampled: 1110 Approximate Depth to Water During Sampling: 7.0 (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	HCL	1L	/	TPH-D
					/	

Total Purge Volume: 7.5 (gallons) Disposal: SYSTEM

Weather Conditions: OK BOLTS Y / N

Condition of Well Box and Casing at Time of Sampling: OK CAP & LOCK Y / N

Well Head Conditions Requiring Correction: N GROUT Y / N

Problems Encountered During Purging and Sampling: N WELL BOX. Y / N

Comments: SECURED Y / N



Engineering, Inc.

GROUNDWATER PURGE AND SAMPLE

Project Name: Exxon 04-334 Well No: MW2 Date: 05-03-00
 Project No: UP04-334 1 Personnel: ALE

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	=	6.53	=	13.67	X	1	2	4	6	2.18	=
						0.04	0.16	0.64	1.44			

PURGING DATA

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

Time	1002	1005			
Volume Purge (gal)	2.5	5	7.5		
Temperature (C)	17.4	17.8	18.0		
pH	6.85	7.35	7.42		
Spec. Cond. (umhos)	561	804	802		
Turbidity/Color	SWB / BRN	SWB / BRN	SWB / BRN		
Odor (Y/N)	N	N	N		
Casing Volumes	1	2	3		
Dewatered (Y/N)	N	N	N		

Comments/Observations:

SAMPLING DATA

Time Sampled: 1010 Approximate Depth to Water During Sampling: 7.0 (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 BOLTS (Y) / N

Condition of Well Box and Casing at Time of Sampling: OK CAP & LOCK (Y) / N

Well Head Conditions Requiring Correction: N GROUT (Y) / N

Problems Encountered During Purging and Sampling: N WELL BOX (Y) / N

Comments: SECURED (Y) / N



Engineering, Inc.

GROUNDWATER PURGE AND SAMPLE

Project Name: Exxon 04-334 Well No: MW3 Date: 05-03-06
 Project No: UP04-334.1 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)
		19.93	5.44	14.49	1	2	4	6	2.31
				0.04	0.16	0.64	1.44		

PURGING DATA

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

Time	1028	1030	1032			
Volume Purge (gal)	2.5	5	7.5			
Temperature (C)	17.1	16.5	17.1			
pH	6.53	6.56	7.19			
Spec. Cond. (umhos)	925	929	935			
Turbidity/Color	Silty/Grey	Silty/Grey	Silty/Grey			
Odor (Y/N)	Y	Y	Y			
Casing Volumes	1	2	3			
Dewatered (Y/N)	N	N	N			

Comments/Observations:

SAMPLING DATA

Time Sampled: 1040 Approximate Depth to Water During Sampling: 6.0 (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: 7.5 (gallons) Disposal: SYSTEM

Weather Conditions: OK BOLTS (Y) / N

Condition of Well Box and Casing at Time of Sampling: OK CAP & LOCK (Y) / N

Well Head Conditions Requiring Correction: N GROUT (Y) / N

Problems Encountered During Purging and Sampling: N WELL BOX (Y) / N

Comments: SECURED (Y) / N



Engineering, Inc.

GROUNDWATER PURGE AND SAMPLE

Project Name: Exxon 04-334 Well No: MW 4 Date: 15-03-06
 Project No: UP04-334.1 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)			
	1444	-	554	=	8.96	X	1	(2)	4	6	142	=
						0.04	0.16	0.64	1.44			

PURGING DATA

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

Time	1133	1136	1139			
Volume Purge (gal)	15	3	45			
Temperature (C)	16.9	16.5	16.4			
pH	7.49	7.68	7.71			
Spec. Cond. (umhos)	693	733	756			
Turbidity/Color	SILTY / BRN	SILTY / BRN	SILTY / BRN			
Odor (Y/N)	N	N	N			
Casing Volumes	1	2	3			
Dewatered (Y/N)	N	N	N			

Comments/Observations:

SAMPLING DATA

Time Sampled: 1145 Approximate Depth to Water During Sampling: 6.0 (feet)

Comments:

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
MW 4	6	Voa	HCL	40 ml	/	TPH-g, BTEX, MTBE
MW 4	2	AMBERS	HCL	1L	/	TPH-D
					/	

Total Purge Volume: 45 (gallons) Disposal: SYSTEM

Weather Conditions: OK BOLTS (Y) / N

Condition of Well Box and Casing at Time of Sampling: OK CAP & LOCK (Y) / N

Well Head Conditions Requiring Correction: N GROUT (Y) / N

Problems Encountered During Purging and Sampling: N WELL BOX. (Y) / N

Comments: SECURED (Y) / N

Appendix C

Laboratory Analytical Reports



24 May, 2006

Sherris Prall
ETIC Engineering Inc - Pleasant Hill (Exxon)
2285 Morello Avenue
Pleasant Hill, CA 94523

RE: Exxon 04-334
Work Order: MPE0257

Enclosed are the results of analyses for samples received by the laboratory on 05/03/06 19:15. The samples arrived at a temperature of 4° C. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Christina Dell
Project Manager

CA ELAP Certificate #1210



ETIC Engineering Inc - Pleasant Hill (Exxon)
2285 Morello Avenue
Pleasant Hill CA, 94523

Project: Exxon 04-334
Project Number: 04-334
Project Manager: Sherris Prall

MPE0257
Reported:
05/24/06 07:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW1	MPE0257-01	Water	05/03/06 11:10	05/03/06 19:15
MW2	MPE0257-02	Water	05/03/06 10:10	05/03/06 19:15
MW3	MPE0257-03	Water	05/03/06 10:40	05/03/06 19:15
MW4	MPE0257-04	Water	05/03/06 11:45	05/03/06 19:15

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Pleasant Hill CA, 94523

Project: Exxon 04-334
Project Number: 04-334
Project Manager: Sherris Prall

MPE0257
Reported:
05/24/06 07:48

**Extractable Hydrocarbons with Silica Gel cleanup by EPA 8015B
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW1 (MPE0257-01) Water Sampled: 05/03/06 11:10 Received: 05/03/06 19:15									
Diesel Range Organics (C10-C28)	78	50	ug/l	1	6E10037	05/10/06	05/22/06	EPA 8015B-SVOA	HC-12
<i>Surrogate n-Octacosane</i>		89 %	30-115		"	"	"	"	
MW2 (MPE0257-02) Water Sampled: 05/03/06 10:10 Received: 05/03/06 19:15									
Diesel Range Organics (C10-C28)	ND	50	ug/l	1	6E10037	05/10/06	05/19/06	EPA 8015B-SVOA	
<i>Surrogate n-Octacosane</i>		81 %	30-115		"	"	"	"	
MW3 (MPE0257-03) Water Sampled: 05/03/06 10:40 Received: 05/03/06 19:15									
Diesel Range Organics (C10-C28)	140	50	ug/l	1	6E10037	05/10/06	05/19/06	EPA 8015B-SVOA	HC-12
<i>Surrogate n-Octacosane</i>		75 %	30-115		"	"	"	"	
MW4 (MPE0257-04) Water Sampled: 05/03/06 11:45 Received: 05/03/06 19:15									
Diesel Range Organics (C10-C28)	ND	47	ug/l	1	6E10037	05/10/06	05/19/06	EPA 8015B-SVOA	
<i>Surrogate n-Octacosane</i>		74 %	30-115		"	"	"	"	

ETIC Engineering Inc - Pleasant Hill (Exxon)
 2285 Morello Avenue
 Pleasant Hill CA, 94523

 Project: Exxon 04-334
 Project Number: 04-334
 Project Manager: Sherris Prall

 MPE0257
 Reported:
 05/24/06 07:48

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW1 (MPE0257-01) Water Sampled: 05/03/06 11:10 Received: 05/03/06 19:15									
Methyl tert-butyl ether	ND	0.50	ug/l	1	6E15028	05/15/06	05/15/06	EPA 8260B	
Surrogate 1,2-Dichloroethane-d4		91 %	60-145		"	"	"	"	
MW2 (MPE0257-02) Water Sampled: 05/03/06 10:10 Received: 05/03/06 19:15									
Methyl tert-butyl ether	ND	0.50	ug/l	1	6E15028	05/15/06	05/15/06	EPA 8260B	
Surrogate 1,2-Dichloroethane-d4		92 %	60-145		"	"	"	"	
MW3 (MPE0257-03) Water Sampled: 05/03/06 10:40 Received: 05/03/06 19:15									
Methyl tert-butyl ether	ND	0.50	ug/l	1	6E15028	05/15/06	05/15/06	EPA 8260B	
Surrogate 1,2-Dichloroethane-d4		101 %	60-145		"	"	"	"	
MW4 (MPE0257-04) Water Sampled: 05/03/06 11:45 Received: 05/03/06 19:15									
Methyl tert-butyl ether	ND	0.50	ug/l	1	6E15028	05/15/06	05/15/06	EPA 8260B	
Surrogate 1,2-Dichloroethane-d4		103 %	60-145		"	"	"	"	

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 Pleasant Hill CA, 94523

 Project: Exxon 04-334
 Project Number: 04-334
 Project Manager: Sherris Prall

 MPE0257
 Reported:
 05/24/06 07:48

Volatile Organic Compounds by EPA Method 8021B
TestAmerica Analytical - Nashville

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW1 (MPE0257-01) Water Sampled: 05/03/06 11:10 Received: 05/03/06 19:15									
Benzene	ND	1.00	ug/L	1	6052623	05/12/06	05/13/06	SW846 8021B	
Ethylbenzene	ND	1.00	"	"	"	"	"	"	
Toluene	ND	1.00	"	"	"	"	"	"	
Xylenes, total	ND	3.00	"	"	"	"	"	"	
<i>Surrogate a.a.a-Trifluorotoluene</i>		105 %	63-134		"	"	"	"	
MW2 (MPE0257-02) Water Sampled: 05/03/06 10:10 Received: 05/03/06 19:15									
Benzene	ND	1.00	ug/L	1	6052623	05/12/06	05/13/06	SW846 8021B	
Ethylbenzene	ND	1.00	"	"	"	"	"	"	
Toluene	ND	1.00	"	"	"	"	"	"	
Xylenes, total	ND	3.00	"	"	"	"	"	"	
<i>Surrogate a.a.a-Trifluorotoluene</i>		102 %	63-134		"	"	"	"	
MW3 (MPE0257-03) Water Sampled: 05/03/06 10:40 Received: 05/03/06 19:15									
Benzene	52.1	1.00	ug/L	1	6052623	05/12/06	05/13/06	SW846 8021B	
Ethylbenzene	37.0	1.00	"	"	"	"	"	"	
Toluene	ND	1.00	"	"	"	"	"	"	
Xylenes, total	4.81	3.00	"	"	"	"	"	"	
<i>Surrogate a.a.a-Trifluorotoluene</i>		106 %	63-134		"	"	"	"	
MW4 (MPE0257-04) Water Sampled: 05/03/06 11:45 Received: 05/03/06 19:15									
Benzene	ND	1.00	ug/L	1	6052623	05/12/06	05/13/06	SW846 8021B	
Ethylbenzene	ND	1.00	"	"	"	"	"	"	
Toluene	ND	1.00	"	"	"	"	"	"	
Xylenes, total	ND	3.00	"	"	"	"	"	"	
<i>Surrogate a.a.a-Trifluorotoluene</i>		100 %	63-134		"	"	"	"	



ETIC Engineering Inc - Pleasant Hill (Exxon) 2285 Morello Avenue Pleasant Hill CA, 94523	Project: Exxon 04-334 Project Number: 04-334 Project Manager: Sherris Prall	MPE0257 Reported: 05/24/06 07:48
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**Purgeable Petroleum Hydrocarbons
TestAmerica Analytical - Nashville**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW1 (MPE0257-01) Water Sampled: 05/03/06 11:10 Received: 05/03/06 19:15									
GRO as Gasoline	ND	50.0	ug/L	1	6052623	05/12/06	05/13/06	SW846 8015B	
Surrogate: a,a,a-Trifluorotoluene		105 %	63-134		"	"	"	"	
MW2 (MPE0257-02) Water Sampled: 05/03/06 10:10 Received: 05/03/06 19:15									
GRO as Gasoline	ND	50.0	ug/L	1	6052623	05/12/06	05/13/06	SW846 8015B	
Surrogate: a,a,a-Trifluorotoluene		102 %	63-134		"	"	"	"	
MW3 (MPE0257-03) Water Sampled: 05/03/06 10:40 Received: 05/03/06 19:15									
GRO as Gasoline	605	50.0	ug/L	1	6052623	05/12/06	05/13/06	SW846 8015B	
Surrogate: a,a,a-Trifluorotoluene		106 %	63-134		"	"	"	"	
MW4 (MPE0257-04) Water Sampled: 05/03/06 11:45 Received: 05/03/06 19:15									
GRO as Gasoline	ND	50.0	ug/L	1	6052623	05/12/06	05/13/06	SW846 8015B	
Surrogate: a,a,a-Trifluorotoluene		100 %	63-134		"	"	"	"	

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Project: Exxon 04-334
Project Number: 04-334
Project Manager: Sherris Prall

MPE0257
Reported:
05/24/06 07:48

**Extractable Hydrocarbons with Silica Gel cleanup by EPA 8015B - Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Result	Evaluation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6E10037 - EPA 3510C

Blank (6E10037-BLK1)

Prepared: 05/10/06 Analyzed: 05/19/06

Diesel Range Organics (C10-C28)	ND	25	ug/l							
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Surrogate <i>n</i> -Octacosane	38.7		"	50.0		77	30-115			
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LCS (6E10037-BS1)

Prepared: 05/10/06 Analyzed: 05/19/06

Diesel Range Organics (C10-C28)	301	50	ug/l	500		60	40-140			
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Surrogate <i>n</i> -Octacosane	39.8		"	50.0		80	30-115			
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LCS Dup (6E10037-BSD1)

Prepared: 05/10/06 Analyzed: 05/19/06

Diesel Range Organics (C10-C28)	260	50	ug/l	500		52	40-140	15	35	
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Surrogate <i>n</i> -Octacosane	39.4		"	50.0		79	30-115			
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2285 Morello Avenue
Pleasant Hill CA, 94523

Project: Exxon 04-334
Project Number: 04-334
Project Manager: Sherris Prall

MPE0257
Reported:
05/24/06 07:48

**Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Result	Evaluation Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 6E15028 - EPA 5030B P/T									
Blank (6E15028-BLK1)									
Prepared & Analyzed: 05/15/06									
Methyl tert-butyl ether	ND	0.25	ug/l						
Surrogate 1,2-Dichloroethane-d4	2.56		"	2.50		102 60-145			
LCS (6E15028-BS2)									
Prepared & Analyzed: 05/15/06									
Methyl tert-butyl ether	9.99	0.50	ug/l	10.0		100 50-140			
Surrogate 1,2-Dichloroethane-d4	2.19		"	2.50		88 60-145			
Matrix Spike (6E15028-MS1)									
Source: MPE0187-05 Prepared & Analyzed: 05/15/06									
Methyl tert-butyl ether	188	5.0	ug/l	100	60	128 50-140			
Surrogate 1,2-Dichloroethane-d4	2.42		"	2.50		97 60-145			
Matrix Spike Dup (6E15028-MSD1)									
Source: MPE0187-05 Prepared & Analyzed: 05/15/06									
Methyl tert-butyl ether	181	5.0	ug/l	100	60	121 50-140	4	25	
Surrogate 1,2-Dichloroethane-d4	2.25		"	2.50		90 60-145			

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 MPE0257
 Reported:
 05/24/06 07:48

Volatile Organic Compounds by EPA Method 8021B - Quality Control
TestAmerica Analytical - Nashville

Analyte	Result	Evaluation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6052623 - EPA 5030B (GC)										
Blank (6052623-BLK1)										
					Prepared & Analyzed: 05/12/06					
Benzene	ND	0.5	ug/L							
Ethylbenzene	ND	0.5	"							
Toluene	ND	0.540	"							
Xylenes, total	ND	1.5	"							
<i>Surrogate a.a.a-Trifluorotoluene</i>	30.5		"	30.0		102	63-134			
LCS (6052623-BS1)										
					Prepared: 05/12/06 Analyzed: 05/13/06					
Benzene	94.3		ug/L	100		94	77-122			
Ethylbenzene	98.2		"	100		98	77-121			
Toluene	92.5		"	100		92	74-121			
Xylenes, total	297		"	300		99	72-121			
<i>Surrogate a.a.a-Trifluorotoluene</i>	30.9		"	30.0		103	63-134			
Matrix Spike (6052623-MS1)										
					Source: NPE1148-01 Prepared: 05/12/06 Analyzed: 05/13/06					
Benzene	51.2		ug/L	50.0	0.231	102	50-159			
Ethylbenzene	54.4		"	50.0	0.232	108	50-155			
Toluene	50.8		"	50.0	0.598	100	57-150			
Xylenes, total	167		"	150	1.92	110	48-151			
<i>Surrogate a.a.a-Trifluorotoluene</i>	31.4		"	30.0		105	63-134			
Matrix Spike Dup (6052623-MSD1)										
					Source: NPE1148-01 Prepared: 05/12/06 Analyzed: 05/13/06					
Benzene	52.3		ug/L	50.0	0.231	104	50-159	2	33	
Ethylbenzene	55.5		"	50.0	0.232	111	50-155	2	35	
Toluene	51.6		"	50.0	0.598	102	57-150	2	33	
Xylenes, total	168		"	150	1.92	111	48-151	0.6	35	
<i>Surrogate a.a.a-Trifluorotoluene</i>	30.5		"	30.0		102	63-134			



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MPE0257
Reported:
05/24/06 07:48

**Purgeable Petroleum Hydrocarbons - Quality Control
TestAmerica Analytical - Nashville**

Analyte	Result	Evaluation Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 6052623 - EPA 5030B (GC)

Blank (6052623-BLK1)

Prepared & Analyzed: 05/12/06

GRO as Gasoline	ND	39.0	ug/L						
Surrogate: <i>n.a.a.-Trifluorotoluene</i>	30.5		"	30.0		102	63-134		

LCS (6052623-BS2)

Prepared: 05/12/06 Analyzed: 05/13/06

GRO as Gasoline	998		ug/L	1000		100	68-128		MNR1
Surrogate: <i>n.a.a.-Trifluorotoluene</i>	32.4		"	30.0		108	63-134		

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MPE0257
Reported:
05/24/06 07:48

Notes and Definitions

- MNR1 There was no MS/MSD analyzed with this batch due to insufficient sample volume See Blank Spike.
- HC-12 Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
- DEI Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Consultant Name: ETIC ENGINEERING

TA Account #: 10236

Address: 2285 MORELLO AVE.

Invoice To: JENNIFER SEDLACHEK (XOMTM)

City/State/Zip: PLEASANT HILL, CA. 94523

Report To: SHERRIS PRALL

ExxonMobil Territory Mgr: JENNIFER SEDLACHEK

PO #: 4506876374

Consultant Project Mgr: SHERRIS PRALL

Project #: UP04334.1

Facility ID # 04-334

Consultant Telephone Number: 925-602-4710 EXT.20

Fax No.: 925-602-4720

Site Address 2492 CASTRO VALLEY BLVD

Sampler Name: (Print) Alex Maramba

City, State, Zip CASTRO VALLEY, CA. 94546

Sampler Signature: *[Signature]*

Regulatory District (CA) _____

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative								Matrix				Analyze For:								RUSH TAT (Pre-Schedule)	TAT request (in Bus. Days)	STD TAT	Fax Results				
							Ice	HNO ₃ (Red Label)	HCl (Blue Label)	NaOH (Orange Label)	H ₂ SO ₄ Plastic (Yellow Label)	H ₂ SO ₄ Glass (Yellow Label)	None (Black Label)	Other (Specify)	Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	TPH-G BY 801SB	TPH-D BY 801SB/8510 *	BTEX BY 8012B	MTBE BY 8280B										
MPE0257 MW1 01	05-03-06	1110	8				X	X								X																		
MW2 02		1010	8				X	X								X	X	X	X														X	
MW3 03		1040	8				X	X								X	X	X	X														X	
MW4 04		1145	8				X	X								X	X	X	X														X	

Special Instructions: GLOBAL ID# T0600101278 EDF FILE REQUIRED

* USE SILICAGEL CLEANUP FOR TPH-D ANALYSIS.

Laboratory Comments:

Temperature Upon Receipt: 40 °C
 Sample Containers Intact? (X) Y N
 VOCs Free of Headspace? (X) Y N

QC Deliverables (please circle one)

Level 2
 Level 3
 Level 4

Site Specific - if yes, please pre-schedule w/ TestAmerica Project Manager or attach specific instructions

Relinquished by:	Date	Time	Received by:	Date	Time
<i>[Signature]</i>	05-03-06	13:30	<i>[Signature]</i>	5/4/06	1430
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time
<i>[Signature]</i>			<i>[Signature]</i>	5/3/06	1415

Stephen Lao?

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG.

CLIENT NAME: Upton - 04-334
 REC. BY (PRINT) EB
 WORKORDER: MPE0257

DATE REC'D AT LAB: 5-8-04
 TIME REC'D AT LAB: 1915
 DATE LOGGED IN: 5/6/04

For Regulatory Purposes?
 DRINKING WATER YES/NO
 WASTE WATER YES/NO

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / Absent Intact / Broken*	01	G/H	MW-1	2 ombus	-	-	L	5-3-04	11/10
		↓	A-F	L	4 uba	HCC	L	L	F	
2. Chain-of-Custody	Present / Absent*	02	A-H	MW-2	same	same	L	L	F	10/10
3. Traffic Reports or Packing List:	Present / Absent	03	↓	MW-3	↓	↓	L	L	L	1098
		04	↓	MW-4	↓	↓	L	L	L	1145
4. Airbill:	Airbill / Sticker Present / Absent									
5. Airbill #:										
6. Sample Labels:	Present / Absent									
7. Sample IDs:	Listed / Not Listed on Chain-of-Custody									
8. Sample Condition:	Intact / Broken* / Leaking*									
9. Does information on chain-of-custody, traffic reports and sample labels agree?	Yes / No*									
10. Sample received within hold time?	Yes / No*									
11. Adequate sample volume received?	Yes / No*									
12. Proper preservatives used?	Yes / No*									
13. Trip Blank / Temp Blank Received? (circle which, if yes)	Yes / No*									
14. Read Temp: Corrected Temp: Is corrected temp 4 +/-2°C?	Yes / No**									
(Acceptance range for samples requiring thermal pres.)										
**Exception (if any): METALS / DFF ON ICE or Problem COC										

*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.