ExxonMobil Refining & Supply Company Global Remediation - US Retail 4096 Piedmont Avenue #194 Oakland, CA 94611 510.547.8196 510.547.8706 FAX jennifer.c.sedlachek@exxonmobil.com

RECEIVED

2:15 pm, Jan 29, 2008

Alameda County Environmental Health Jennifer C. Sedlachek Project Manager

EXONMObil

Refining & Supply

January 29, 2008

Mr. Barney Chan Alameda County Health Care Services Agency 1131 Harbor Bay Parkway Alameda, California 94502

Subject:

Fuel Leak Investigation Site No. RO0002635

Former Exxon RAS #7-4121, 10605 Foothill Boulevard, Oakland, California

Dear Mr. Chan:

Attached for your review and comment is a copy of the Report of Groundwater Monitoring, Fourth Quarter 2007 for the above-referenced site. The report, prepared by ETIC Engineering, Inc. of Pleasant Hill, California, details the results of the December 2007 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,

FOR

Jennifer C. Sedlachek Project Manager

Attachment: ETIC Groundwater Monitoring Report dated January 2008

c: w/ attachment:

Mr. Ken Phares - MacArthur Boulevard Associates, Oakland, California

Mr. Peter McIntyre - AEI Consultants

c: w/o attachment:

Mr. Bryan Campbell - ETIC Engineering, Inc.



Report of Groundwater Monitoring Fourth Quarter 2007

Former Exxon Retail Site 7-4121 10605 Foothill Boulevard Oakland, 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

Jamie L. Peters
Staff Geologist

KRISTOPHER GERIK
APPEL

K. Erik Appel P.G. #8092
Project Manager

Date

January 2008

SITE CONTACTS

Site Name:

Former Exxon Retail Site 7-4121

Site Address:

10605 Foothill Boulevard

Oakland, 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:

K. Erik Appel

Regulatory Oversight:

Barney Chan

Alameda County Health Care Services Agency

Environmental Health Services 1131 Harbor Bay Parkway Alameda, California 94502

(510) 567-6765

INTRODUCTION

At the request of ExxonMobil Oil Corporation, ETIC Engineering, Inc. has prepared this quarterly groundwater monitoring report for former Exxon Retail Site 7-4121. 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 7 September 2007, the date of the previous monitoring event, until 3 December 2007, the date of the most recent quarterly 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 Exxon Retail Site 7-4121

Site address:

10605 Foothill Boulevard, Oakland, California

Current property owner:

MacArthur Boulevard Associates

Current site use:

Landscaped area

Current phase of project:

Groundwater monitoring

Tanks at site:

Underground storage tanks removed in 1981 or 1982

Number of wells:

4 (4 onsite, 0 offsite)

GROUNDWATER MONITORING SUMMARY

Gauging and sampling date:

3 December 2007

Wells gauged and sampled:

MW1, MW2, MW3, MW5

Wells gauged only:

None

Groundwater flow direction:

Northwest

Groundwater gradient:

0.002

Well screens submerged:

None

Well screens not submerged:

MW1, MW2, MW3, MW5

Liquid-phase hydrocarbons:

Not observed or detected

Laboratory:

TestAmerica, Inc., Morgan Hill, California

Analyses performed:

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

ADDITIONAL ACTIVITIES PERFORMED

None.

WORK PROPOSED FOR NEXT QUARTER

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

Attachments:

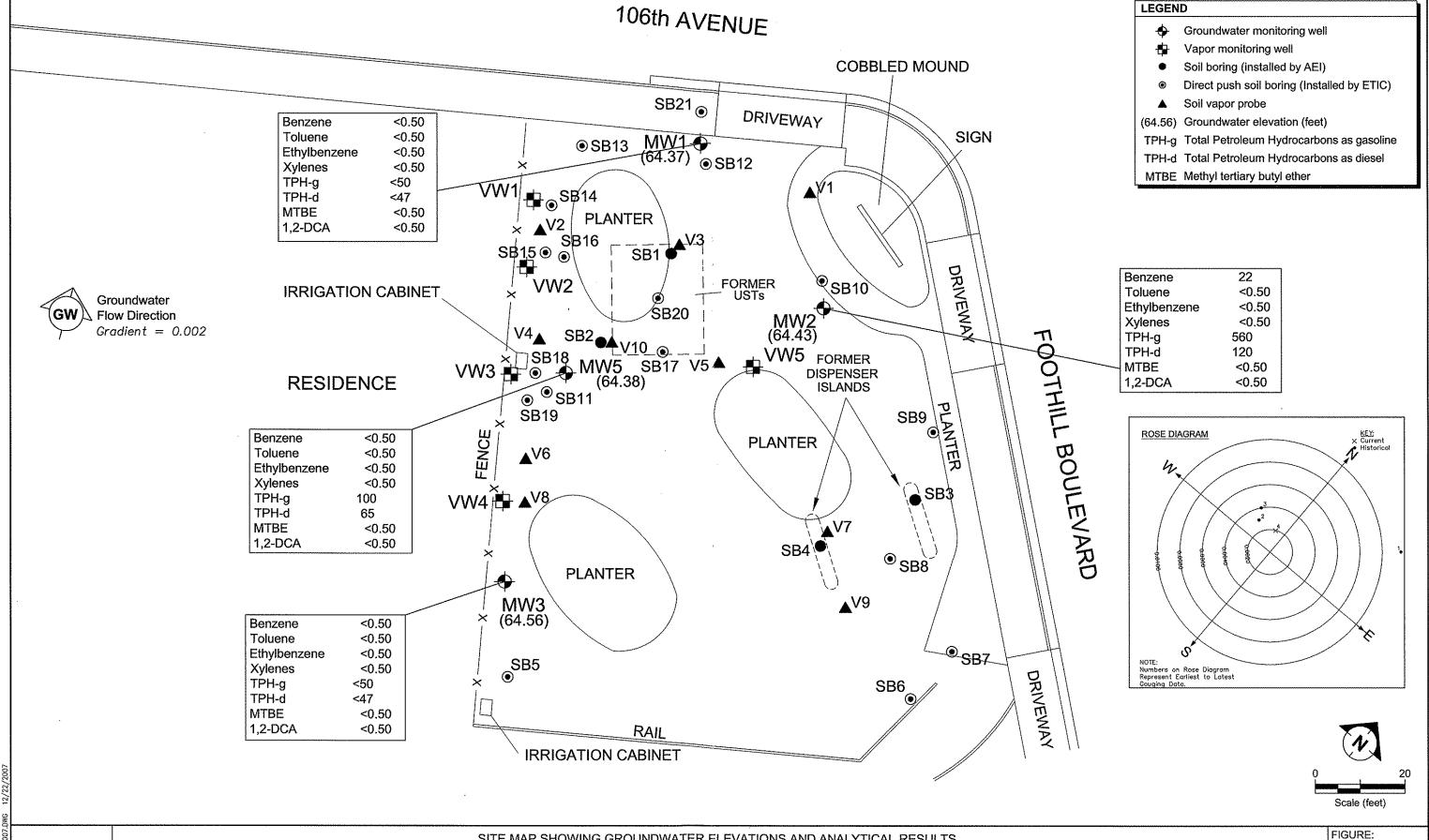
Figure 1: Site Plan Showing Groundwater Elevations and Analytical Results

Table 1: Well Construction DetailsTable 2: Groundwater Monitoring DataTable 3: Groundwater Monitoring Plan

Appendix A: Field Protocols Appendix B: Field Documents

Appendix C: Laboratory Analytical Reports and Chain-of-Custody Documentation





SITE MAP SHOWING GROUNDWATER ELEVATIONS AND ANALYTICAL RESULTS FORMER EXXON RS 7-4121 10605 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA 3 DECEMBER 2007



TABLE 1 WELL CONSTRUCTION DETAILS, FORMER EXXON RS 7-4121, 10605 FOOTHILL BOULEVARD, 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	a	01/23/07	82.47	PVC	26.5	25	8	2	10 - 25	0.010	8 - 25	#2/12 Sand
MW2	a	01/23/07	84.40	PVC	26.5	25	8	2	10 - 25	0.010	8 - 25	#2/12 Sand
MW3	a	01/24/07	83.25	PVC	26.5	25	8	2	10 - 25	0.010	8 - 25	#2/12 Sand
MW5	a	01/23/07	82.65	PVC	26.5	25	8	2	10 - 25	0.010	8 - 25	#2/12 Sand
VW1	a	01/22/07		SS	6	6	6	0.125	5.25 - 5.75	0.010	5 - 6	#2/12 Sand
VW2	a	01/22/07		SS	6	6	6	0.125	5.25 - 5.75	0.010	5 - 6	#2/12 Sand
VW3	a	01/22/07		SS	6	6	6	0.125	5.25 - 5.75	0.010	5 - 6	#2/12 Sand
VW4	a	01/22/07	***	SS	6	6	6	0.125	5.25 - 5.75	0.010	5 - 6	#2/12 Sand
VW5	a	01/22/07		SS	6	6	6	0.125	5.25 - 5.75	0.010	5 - 6	#2/12 Sand

Notes:

a Well surveyed on 12 March 2007 by Morrow Surveying.

PVC Polyvinyl chloride.
SS Stainless steel.
TOC Top of casing.

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RETAIL SITE 7-4121, 10605 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

		Top of Casing	Depth to	Groundwater	LPH						Conce	entration (μg/	L)					
Well ID	Date	Elevation (feet)	Water (feet)	Elevation (feet)	Thickness (feet)	Benzene	Toluene	Ethyl- benzene	Xylenes	TPH-g	TPH-d	MTBE	TBA	DIPE	ETBE	1,2-DCA	TAME	EDB
MWI	03/08/07	82.47	15.10	67.37	0.00	<1.00	1.21	<1.00	<3.00	440	119	1.91	<10.0	<0.500	<0.500	<0.500	0.560	<0.500
MW1	06/08/07	82.47	16.47	66.00	0.00	< 0.50	< 0.50	< 0.50	< 0.50	127	<47.6	0.880	$<10.0^{a,b}$	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500
MWI	09/06/07	82.47	17.47	65.00	0.00	< 0.50	< 0.50	< 0.50	< 0.50	78.0	<47.2	0.590	$<10.0^{a,b}$	<0.500	< 0.500	< 0.500	< 0.500	< 0.500
MW1	12/03/07	82.47	18.10	64.37	0.00	< 0.50	<0.50	< 0.50	<0.50	<50	<47	<0.50	<20	<0.50	<0.50	< 0.50	<0.50	< 0.50
MW2	03/08/07	84.40	16.97	67.43	0.00	1.33	3.52	2.41	<3.00	1,620	550	< 0.500	<10.0	< 0.500	< 0.500	<0.500	<0.500	< 0.500
MW2	06/08/07	84.40	18.34	66.06	0.00	21.8	2.45	0.66	< 0.50	2,120	395	< 0.500	10.0°	<0.500	< 0.500	< 0.500	< 0.500	< 0.500
MW2	09/06/07	84.40	19.33	65.07	0.00	4.66	0.70	< 0.50	1.25	470	208	< 0.500	<10.0 ^{ac}	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500
MW2	12/03/07	84.40	19.97	64.43	0.00	22 ^d	<0.50	< 0.50	<0.50	560	120 ^e	<0.50	<20	<0.50	<0.50	< 0.50	<0.50	<0.50
MW3	03/08/07	83.25	15.49	67.76	0.00	<1.00	<1.00	<1.00	<3.00	<100	52.9	< 0.500	<10.0	< 0.500	< 0.500	<0.500	< 0.500	<0.500
MW3	06/08/07	83.25	17.02	66.23	0.00	< 0.50	< 0.50	< 0.50	< 0.50	<50.0	<47.6	< 0.500	<10.0 ^{a.b}	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500
MW3	09/06/07	83.25	18.07	65.18	0.00	< 0.50	< 0.50	< 0.50	< 0.50	<50.0	<47.2	< 0.500	<10.0 ^{a,b}	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500
MW3	12/03/07	83.25	18.69	64.56	0.00	<0.50	< 0.50	<0.50	< 0.50	<50	<47	<0.50	<20	<0.50	<0.50	< 0.50	<0.50	< 0.50
MW5	03/08/07	82.65	14.31	68.34	0.00	<1.00	<1.00	<1.00	<3.00	187	59.2	< 0.500	<10.0	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500
MW5	06/08/07	82.65	16.64	66.01	0.00	4.38	0.72	< 0.50	< 0.50	780	90.3	< 0.500	$<10.0^{a,b}$	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500
MW5	09/06/07	82.65	17.62	65.03	0.00	< 0.50	< 0.50	< 0.50	< 0.50	<50.0	121	< 0.500	$<10.0^{a,b}$	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500
MW5	12/03/07	82.65	18.27	64.38	0.00	<0.50	<0.50	<0.50	<0.50	100	65°	<0.50	<20	<0.50	<0.50	<0.50	<0.50	< 0.50

Notes: MTBE analyzed by EPA Method 8260B unless otherwise indicated.

e Does not match typical pattern.

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.

Tertiary butyl alcohol.

TPH-d Total Petroleum Hydrocarbons as diesel analyzed by EPA Method 8015B.

TPH-g Total Petroleum Hydrocarbons as gasoline analyzed by EPA Method 8015B.

μg/L Micrograms per liter.

TBA

a Calibration verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.

Laboratory control sample and/or laboratory control sample duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.

c Initial analysis within holding time. Reanalysis for the required dilution or confirmation was past holding time.

d The RPD between the primary and confirmatory analysis exceed 40%. Per method 8000B, the higher value was reported.

GROUNDWATER MONITORING PLAN, FORMER EXXON RS 7-4121, 10605 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

	Groundwater	Groundwater	Sampling and Analy	sis Frequency
Well	Gauging	TPH-g, TPH-d, and		Other Oxygenates
Number	Frequency	BTEX	MTBE	and Additives
MW1	Q	O	O	Q
MW2	Q	Ŷ	Q	Q
MW3	Q	Q	Q	Q
MW5	Q	Q	Q	Q
Notes:		es include diisopropyl ether, ter r, 1,2-dibromoethane, and 1,2-d		ernary amyr memyr enier,
BTEX	Benzene, toluene, ethyl	henzene and xylenes		
MTBE	Methyl tertiary butyl etl	•		
AT T TO TO	7 7 7			
S MIDE	Quarterly.			
	Quarterly. Total Petroleum Hydro	carbons as gasoline.		

Appendix A

Field Protocols

PROTOCOLS FOR QUARTERLY GROUNDWATER MONITORING

GROUNDWATER GAUGING

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

WELL PURGING

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

GROUNDWATER SAMPLING

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

Appendix B

Field Documents



MONITORING WELL DATA FORM

Client: Former Exxon 7-4121	Date: 19.03.7
Project Number: UP4121.1.6	Station Number: 7-4121
Site Location:	Samplers: 7314DLP
10605 Foothill Boulevard, Oakland, CA	

		zaniana, oz					
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	18-10	9 14	O - 69	6		24.65	2"
MW2	19.97	9.19	G (3)	O		24.70	ريّ ا
MW3	15.69	N.P	O . 6%	೧೨		23.64	<i>3.</i> "
MW5	15.27	9,6	Ø • 8 °8	Ó		26.44	21/
	***************************************	•					

<u></u>			1				



		GROUNDWA			!	10 32 27
Project Name:	Exxon 7-4121			Well No: Mw		123.07
Project No:	UP4121.1.6			Personnel:	Biniger	
GAUGING DATA	Λ					
	asuring Method:	WLM / (P)		Measuring Point	Description: TOC	
	on variable states the feet state.	North Green Constitution	nggaetherfort parta			
WELL PURGE	Total Depth (feet)	Depth to Water (feet)	Water Column (feet)	Multiplier for Casing Diamete	Casing Volume er (gal)	Total Purge Volume (gal)
VOLUME CALCULATION						
CALCULATION	24.05) 18.10	5·95 🗭	<u>)1 Ø 4 </u>	6 0.95	3.85
				0.04 0.16 0.64 1	.44	
PURGING DATA	A					
Purge Method:	WATERRA / BAI	LER / SUB		P	urge Rate:	GPM
Time	jo 35	10:37	10:33			
Volume:Purge (gal)	1,00	37.00	(3.10)			
Temperature (C)	18.3	18.9	18.8			
pH	7.04	7.02	6.99			
Spec.Cond.(umhos)	9	1150	1145			
Turbidity/Color	BROWN	3107 January	المستعلق تبالي			
Odor (Y/N)	N	N	7			
Casing Volumes	1	2	3			
Dewatered (Y/N)	N	\ \tau^t	N			
Comments/Obse	rvations:					
SAMPLING DA	TA				_	
Time Sampled:	1045		Approximate Dept	h to Water During	Sampling: 19	(feet)
Comments:						
	Number of			Volume Filled		Analysis
Sample Number	Containers	Container Type	Preservative	(mL or L)	Turbidity/ Color	Method
MWI	£9	Voa	HCL	40 ml	4 (4) (3 (3 (4) (4) (4) (4) (4) (4) (4) (4) (4) (4)	трн-g, втех, мтве
Mali	2	AMBERS	HCL	1L		TPH-D
Total Purge Vol	lume: ਤੇ	(gallons)		Disposal:	SYSTEM	Л
Weather Condi					BOLTS	⟨∅ / N
Condition of We	ell Box and Casing	g at Time of Samp	oling: <i>et</i>		CAP & LOCK	(A) / N
	ditions Requiring		Nlan/E		GROUT	
Problems Enco	untered During Po	urging and Sampl	ing: Nonce		WELL BOX.	Ø / N
Comments:	M Pre-Field Folder\[7-4121 Scop				SECURED	Q/N
and tolerange and the manifest of the second	"" " " " - " win t owerd d tvs opeil	- v. ·· oranizpetitoti				



Engineering, Inc.		GROUNDWA	TER PURGE	AND SA	MPLE -			
Project Name:	Exxon 7-4121			Well No:	MMS	Date:	19.03	-7_
Project No:	UP4121.1.6			Personnel		BWDER		
GAUGING DATA	4							
Water Level Mea	asuring Method:	WLM / (P)		Measuring	Point De	escription: TOC		
WELL PURGE	Total Depth	Service and the service of the servi	Water Column	Multipli		Casing Volume	Total P	
VOLUME	(feet)	(feet)	(feet)	Casing D	iameter	(gal)	Volume	(gal)
CALCULATION	24 70) 1997) 4.73 Q	01 (2)	4 6	0.75	a) 2·3	7
				0.04 0.16	0.64 1.44			
PURGING DATA								
Purge Method:	WATERRA / BAI				Purg	e Rate:	GPM	
Time	11.05	1107	1169					
Volume Purge (gal)	1,03	్లి),ఆస	3,43					
Temperature (C)	19.7	18.9	18.8				ye	
pH	6.92	6.87	6.81					
Spec.Cond.(umhos)	998	990	987					
Turbidity/Color	SIENON	319E2141	SOU GRAY				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Odor (Y/N)	yes	ÿe≥) Yes					
Casing Volumes	1	2	3					
Dewatered (Y/N)	Nonte	Non/E	NONE					
Comments/Obser	vations:							
SAMPLING DA Time Sampled:	ta 1115		Approximate Depti	h to Water I	Durina San	npling: 🗷 .	(feet)	
Comments:	1112		Approximate Dopa	10 11000	zaring can	iping. No	(
CALMACA, SOCIAL TO	Education has a bound away would be also	Productive leading through the control of the contr	13 they follow the first the second and the second the	Province and the second	Magazina ya afa Makababa Masa Asia i	Esymptomosophis lizace in celebration and cele	Recognic research cases on	spijekia oma
Sample Number	Number of Containers	Container Type	_Preservative	Volume (mL (Filled or L)	Turbidity/ Color	Anal Meti	
MW2	89	Voa	HCL	40	ml		TPH-g, BTE	X, MTBE
MWR	2	AMBERS	HCL	1			TPF	1-D
				<u></u>				
Total Purge Vol	X.	(gallons)		Disposal:		SYSTEM		
Weather Condit			. U			BOLTS (N
	ell Box and Casing	······			······································			N
	ditions Requiring (ing: else					N N
Problems Encol	untered During Pu	irging and Sampl	ing: Non/E			WELL BOX. SECURED		N N
	A Pre-Field Folder\[7-4121 Scop	e of Work.xls]Sheet1					,	· •



Comments:

G:\Projects\74121\Public\QM Prc-Field Folder\[7-4121 Scope of Work.xis\Sheet1

GROUNDWATER PURGE AND SAMPLE 19.63. Date: Well No: Project Name: Exxon 7-4121 BILDER Project No: UP4121.1.6 Personnel: **GAUGING DATA** Measuring Point Description: TOC Water Level Measuring Method: WLM / (IP) Total Purge Water Column Multiplier for Casing Volume Total Depth Depth to Water WELL PURGE (feet) Casing Diameter Volume (gal) (feet) (feet) (gal) VOLUME: CALCULATION **②** 4 23.64 2.37 4.95 0.79 18.69 0.04 0.16 0.64 **PURGING DATA** Purge Rate: **GPM** WATERRA / BAILER / SUB Purge Method:/ 1155 1157 1159 Time 1.63 3.0 5.00 Volume Purge (gal) 18.3 18.4 188 Temperature (C) 7.00 7.06 7 01 ρН 1211 1155 1191 Spec.Cond.(umhos) GRAY Turbidity/Color Odor (Y/N) N Casing Volumes 1 3 2 N N Dewatered (Y/N) Comments/Observations: **SAMPLING DATA** Time Sampled: /205 (feet) Approximate Depth to Water During Sampling: Comments: Volume Filled Analysis Number of Turbidity/ Color Sample Number Container Type Preservative Method Containers (mL or L) MW3 -- 6 ° ₹ HCL Voa 40 ml TPH-g, BTEX, MTBE MW3 **AMBERS** HCL TPH-D 2 1L Total Purge Volume: 3. (gallons) Disposal: SYSTEM 0 BOLTS Ν CK Weather Conditions: (Υ) CAP & LOCK Ν Condition of Well Box and Casing at Time of Sampling: OX Ø None GROUT Ν Well Head Conditions Requiring Correction: Ø) Ν WELL BOX. Problems Encountered During Purging and Sampling: //site () Ν

SECURED



Project Name:	Exxon 7-4121	GROUNDWA	IER FURGE	Well No: M	พีรี	Date:	ڻ تد رئو	3-4 /			
Project No:	UP4121.1.6			Personnel:	BINDEP						
GAUGING DATA	Ą		<u> </u>								
Water Level Mea	asuring Method:	WLM / P	!	Measuring Poi	nt Description	: TOC					
WELL PURGE VOLUME	Total Depth (feet)	Depth to Water (feet)	Water Column (feet)	Multiplier fo Casing Diame		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Purge e (gal)			
CALCULATION	95 44	18.27	7.17	1 (2 4 0.04 0.16 0.64	6 f, f =		3.	44			
PURGING DATA	4										
Purge Method: (· · · · · · · · · · · · · · · · · · ·				Purge Rate:	G	PM				
Time	7/30	1134	1/35								
Volume Purge (gal)	1.50	3,10	4.50								
Temperature (C)	19.2	/8.6	18:3								
pH	6.96	7:00	6.90			W					
Spec.Cond.(umhos)	845	899	911	······································							
Turbidity/Color	SUPPLIED TO	SILTHAY	517 ERAH								
Odor (Y/N)	N.	W	N								
Casing Volumes	1	2	3								
Dewatered (Y/N)	N	Ň	N								
Comments/Obser	vations:										
				,							
SAMPLING DA	TA										
Time Sampled:	11 46		Approximate Depth	n to Water During	g Sampling:	19. (1	eet)				
Comments:											
							C055 03 20				
Sample Number	Number of Containers	Container Type	Preservative	Volume Fille (mL or L)		y/ Color		ilysis thod			
MW5	6	Voa	HCL	40 ml	NAME OF THE PROPERTY OF THE PR	T	PH-g, BT	EX, MTBE			
ฟูเบร	2	AMBERS	HCL	1L			TP	H-D			
Total Purge Vol		(gallons)		Disposal:		SYSTEM	<u>></u>				
Weather Condit					BOLTS			N			
	Condition of Well Box and Casing at Time of Sampling: OX CAP & LOCK (Y) / N										
	ditions Requiring (IONE		GROUT	/2		N			
	untered During Ρι	irging and Sampli	ing: ¡VojVć		WELL B		***************************************	N			
Comments:	A Pre-Field Folder\(7-412) Scon	of Work whitehead			SECUR	ED G	ソー	N			

Appendix C

Laboratory Analytical Reports and Chain-of-Custody Documentation



17 December, 2007

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

RE: Exxon 7-4121 Work Order: MQL0079

Enclosed are the results of analyses for samples received by the laboratory on 12/03/07 16:30. The samples arrived at a temperature of 2° C. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tim Rhiney Project Manager

CA ELAP Certificate #1210





Project: Exxon 7-4121

MQL0079 Reported: 12/17/07 14:51

2285 Morello Avenue Pleasant Hill CA, 94523 Project Number: 7-4121
Project Manager: Erik Appel

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW1	MQL0079-01	Water	12/03/07 10:45	12/03/07 16:30
MW2	MQL0079-02	Water	12/03/07 11:15	12/03/07 16:30
MW3	MQL0079-03	Water	12/03/07 12:05	12/03/07 16:30
MW5	MQL0079-04	Water	12/03/07 11:40	12/03/07 16:30





Project: Exxon 7-4121

2285 Morello Avenue Pleasant Hill CA, 94523 Project Number: 7-4121 Project Manager: Erik Appel MQL0079 Reported: 12/17/07 14:51

Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B TestAmerica Morgan Hill

					······································	·······			
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW1 (MQL0079-01) Water 5	Sampled: 12/03/07 10:45	Received:	12/03/07	16:30			·		······································
Gasoline Range Organics (C4-C1	12) ND	50	ug/l	1	7L12002	12/12/07	12/12/07	EPA 8015B/8021B	
Benzene	ND	0.50	#I	B	н	a	ų		
Toluene	ND	0.50	#1	R	н	Ħ	. 0	. "	
Ethylbenzene	ND	0.50	#	t†	tt	**	ı)	17	
Xylenes (total)	ND	0.50	H	D	н	Ħ	Ð	U	
Surrogate: a,a,a-Trifluorotoluene	2	106 %	85-	120	"	"	"	и	nodovbanikom kobaman dzimilikimodobi
Surrogate: 4-Bromofluorobenzen	ве	102 %	75-	125	"	"	"	"	
MW2 (MQL0079-02) Water S	Sampled: 12/03/07 11:15	Received:	12/03/07	16:30					
Gasoline Range Organics (C4-0	C12) 560	50	ug/l	1	7L12002	12/12/07	12/12/07	EPA 8015B/8021B	
Benzene .	22	0.50	#I	bţ	0	n	11	' II	R1
Toluene	ND	0.50	Ħ	R	н	ŧI	tf	t !	
Ethylbenzene	ND	0.50	n	R	Ħ	#	t?	ŧŧ	
Xylenes (total)	ND	0.50	#1	tř	#	ti ti	tt .	lt .	
Surrogate: a,a,a-Trifluorotoluene	2	108 %	85-	120	11	п	и	11	
Surrogate: 4-Bromofluorobenzen	ne e	106 %	75-	125	"	u	u	"	
MW3 (MQL0079-03) Water 5	Sampled: 12/03/07 12:05	Received:	12/03/07	16:30					
Gasoline Range Organics (C4-C1	12) ND	50	ug/l	#	7L12002	12/12/07	12/12/07	EPA 8015B/8021B	
Benzene	ND	0.50	H	H	#1	Đ	н	н	
Toluene	ND	0.50	n	H	Ħ	9	Ħ	II	
Ethylbenzene	ND	0.50	Ħ	Ħ	Ħ	11	н	II.	
Xylenes (total)	ND	0.50	*1	h	4	11	H	н	
Surrogate: a,a,a-Trifluorotoluene	2	111%	85-	120	и	11	tt	"	
Surrogate: 4-Bromofluorobenzen	ne	96 %	75-	125	u	"	u	"	





2285 Morello Avenue Pleasant Hill CA, 94523 Project Exxon 7-4121
Project Number: 7-4121
Project Manager: Erik Appel

MQL0079 Reported: 12/17/07 14:51

Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW5 (MQL0079-04) Water Samp	led: 12/03/07 11:40	Received:	12/03/07	16:30					
Gasoline Range Organics (C4-C12)	100	50	ug/l	1	7L12002	12/12/07	12/12/07	EPA 8015B/8021B	
Benzene	ND	0.50	ŧ	Ħ	N	Ħ	Ħ	Ħ	
Toluene	ND	0.50	n	Ħ	И	Ħ	#1	и	
Ethylbenzene	ND	0.50	H	н	н	ŧ	н	п	
Xylenes (total)	ND	0.50	H	п	N	#1	11	я	
Surrogate: a,a,a-Trifluorotoluene		108 %	85-	120	"	"	и	11	
Surrogate: 4-Bromofluorobenzene		104 %	75-	125	"	"	"	"	





Project: Exxon 7-4121

2285 Morello Avenue Pleasant Hill CA, 94523

Project Number: 7-4121 Project Manager: Erik Appel

MQL0079 Reported: 12/17/07 14:51

Extractable Hydrocarbons with Silica Gel cleanup by EPA 8015B TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW1 (MQL0079-01) Water Sa	impled: 12/03/07 10:45	Received:	12/03/07	16:30					
Diesel Range Organics (C10-C28)	ND	47	ug/l	1	7L06001	12/06/07	12/07/07	EPA 8015B-SVOA	
Surrogate: n-Octacosane		68 %	40-	120	"	"	n	"	
MW2 (MQL0079-02) Water Sa	impled: 12/03/07 11:15	Received:	12/03/07	16:30					
Diesel Range Organics (C10-C28	3) 120	47	ug/l	1	7L06001	12/06/07	12/06/07	EPA 8015B-SVOA	Ql
Surrogate: n-Octacosane		76 %	40-	120	u	и	11	н	
MW3 (MQL0079-03) Water Sa	ampled: 12/03/07 12:05	Received:	12/03/07	16:30					
Diesel Range Organics (C10-C28)	ND	47	ug/l	1	7L06001	12/06/07	12/06/07	EPA 8015B-SVOA	
Surrogate: n-Octacosane		80 %	40-	120	n	"	n	"	
MW5 (MQL0079-04) Water Sa	ampled: 12/03/07 11:40	Received:	12/03/07	16:30					
Diesel Range Organics (C10-C28	65	47	ug/l	1	7L06001	12/06/07	12/06/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		74 %	40-	120	"	"	ıı .	"	





2285 Morello Avenue

Pleasant Hill CA, 94523

Project: Exxon 7-4121

Project Number: 7-4121
Project Manager: Erik Appel

MQL0079 Reported: 12/17/07 14:51

Volatile Organic Compounds by EPA Method 8260B TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
MW1 (MQL0079-01) Water	Sampled: 12/03/07 10:45	Received:	12/03/07 1	6:30					
tert-Amyl methyl ether	ND	0.50	ug/l	1	7L08003	12/08/07	12/08/07	EPA 8260B	
tert-Butyl alcohol	ND	20	Ħ	ħ	0	11	tt .	R	
Di-isopropyl ether	ND	0.50	Ħ	Ħ	n	Ħ	Ħ	н	
1,2-Dibromoethane (EDB)	ND	0.50	tt	"	0	4	н	м	
1,2-Dichloroethane	ND	0.50	R1	Ħ	0	#1	Ħ	Ħ	
Ethyl tert-butyl ether	ND	0.50	B	ŧI	Ð	#	Ħ	Ħ	
Methyl tert-butyl ether	ND	0.50	lf	#1	U	a	B	p p	
Surrogate: Dibromofluorometha	ne	86 %	75-1	30	11	"	Ħ	"	
Surrogate: 1,2-Dichloroethane-	d4	93 %	60-1	50	n	"	Ħ	"	
Surrogate: Toluene-d8	•	90 %	75-I	20	n	"	п	"	
Surrogate: 4-Bromofluorobenzei	ne	87 %	55-1	30	n	"	u	"	
MW2 (MQL0079-02) Water	Sampled: 12/03/07 11:15	Received:	12/03/07 1	6:30					
tert-Amyl methyl ether	ND	0.50	ug/i	1	7L06024	12/06/07	12/07/07	EPA 8260B	
tert-Butyl alcohol	ND	20	#	н	tt .	Я	12	19	
Di-isopropyl ether	ND	0.50	0	н	**	я	tt	u;	
1,2-Dibromoethane (EDB)	ND	0.50	t)	н	n	Ħ	R	(1	
1,2-Dichloroethane	ND	0.50	0	Ħ	11	a	It	lt .	
Ethyl tert-butyl ether	ND	0.50	0	н	TI .	a	D	W	
Methyl tert-butyl ether	ND	0.50	Ð	Ħ	11	A	IT	tr.	
Surrogate: Dibromofluorometha	ine	92 %	75-I	30	11	"	u	"	
Surrogate: 1,2-Dichloroethane-	1 4	100 %	60-I	50	u	"	u	"	
Surrogate: Toluene-d8		98 %	75-1	20	"	"	u	"	
Surrogate: 4-Bromofluorobenzei	ne	110 %	55-1	30	u	и	и	n	





Project: Exxon 7-4121

2285 Morello Avenue Pleasant Hill CA, 94523 Project Number: 7-4121
Project Manager: Erik Appel

MQL0079 Reported: 12/17/07 14:51

Volatile Organic Compounds by EPA Method 8260B TestAmerica Morgan Hill

							····		
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
MW3 (MQL0079-03) Water	Sampled: 12/03/07 12:05	Received:	12/03/07 10	6:30	***************************************	****			
tert-Amyl methyl ether	ND	0.50	ug/l	1	7L06024	12/06/07	12/07/07	EPA 8260B	
tert-Butyl alcohol	ND	20	n	Ħ	17	ħ	tt	н	•
Di-isopropyl ether	ND	0.50	n	ŧŧ	**	11	B	п	
1,2-Dibromoethane (EDB)	ND	0.50	et .	**	#	**	B	н	
1,2-Dichloroethane	ND	0.50	#1	ŧı	17	Ħ	89	Ħ	
Ethyl tert-butyl ether	ND	0.50	n	31	В	Ħ	B	Ħ	
Methyl tert-butyl ether	ND	0.50	H	ŧ	H	Ħ	R	н	
Surrogate: Dibromofluorometh	ane	91 %	75-13	30	11	"	"	"	
Surrogate: 1,2-Dichloroethane	-d4	104 %	60-15	50	#	"	"	н	
Surrogate: Toluene-d8		92 %	75-12	20	n	"	"	"	
Surrogate: 4-Bromofluorobenz	ene	90 %	55-13	30	H	u	u	"	
MW5 (MQL0079-04) Water	Sampled: 12/03/07 11:40	Received:	12/03/07 10	6:30					
tert-Amyl methyl ether	ND	0.50	ug/l	1	7L06024	12/06/07	12/07/07	EPA 8260B	
tert-Butyl alcohol	ND	20	11	**	II;	tt	R	н	
Di-isopropyl ether	ND	0.50	H	#1	e	ti	B	н	
1,2-Dibromoethane (EDB)	ND	0.50	Ħ	ŧ	H	n	tį	н	
1,2-Dichloroethane	ND	0.50	u	Ħ	t†	Ħ	Ħ	н	
Ethyl tert-butyl ether	ND	0.50	II	Ħ	17	11	п	п	
Methyl tert-butyl ether	ND	0.50	51			n	tt	и	
Surrogate: Dibromofluorometh	ane	91 %	75-13	30	n	п	Ħ	**	
Surrogate: 1,2-Dichloroethane	-d4	103 %	60-15	50	n	đ	tt	"	
Surrogate: Toluene-d8		96 %	75-12	20	"	n	n	"	
Surrogate: 4-Bromofluorobenz	ene	94 %	55-13	30	"	u	u	"	





2285 Morello Avenue Pleasant Hill CA, 94523 Project: Exxon 7-4121

Project Number: 7-4121 Project Manager: Erik Appel MQL0079 Reported: 12/17/07 14:51

Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B - Quality Control TestAmerica Morgan Hill

Analyte	Result	Evaluation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7L12002 - EPA 5030B [P/T]					· · · · · · · · · · · · · · · · · · ·					
Blank (7L12002-BLK1)				Prepared	& Analyz	ed: 12/12/	07			
Gasoline Range Organics (C4-C12)	ND	25	ug/l	······································				······································	***************************************	
Benzene	ND	0.28	Ħ							
Toluene	ND	0.25	и							
Ethylbenzene	ND	0.25	Ħ							
Xylenes (total)	ND	0.37	11							
Surrogate: a,a,a-Trifluorotoluene	88.8		"	80.0		111	85-120			
Surrogate: 4-Bromofluorobenzene	77.6		u	80.0		97	75-125			
LCS (7L12002-BS1)				Prepared	& Analyz	ed: 12/12/	07			
Benzene	10.4	0.50	ug/l	10.0		104	70-130			
Toluene	10.6	0.50	2)	10.0		106	70-130			
Ethylbenzene	10.4	0.50	ŧ	10.0		104	70-130			
Xylenes (total)	31.6	0.50	n	30.0		105	70-130			
Surrogate: a,a,a-Trifluorotoluene	88.0		11	80.0		110	85-120	Production of Production of Production of States		
LCS (7L12002-BS2)				Prepared	& Analyz	ed: 12/12/	07			
Gasoline Range Organics (C4-C12)	226	50	ug/l	275		82	70-130			
Surrogate: 4-Bromofluorobenzene	78.7	······································	erritoratrimitationeentet dan	80.0		98	75-125			
LCS Dup (7L12002-BSD2)				Prepared	& Analyz	ed: 12/12/	07			
Gasoline Range Organics (C4-C12)	225	50	ug/l	275		82	70-130	0.5	25	
Surrogate: 4-Bromofluorobenzene	79.3		11	80.0		99	75-125			***************************************
Matrix Spike (7L12002-MS1)	Sor	irce: MQL03	30-01	Prepared	& Analyz	ed: 12/12/	07			
Gasoline Range Organics (C4-C12)	83.5	50	ug/l	91.0	ND	92	70-130	arrament helefados falabeles de seine		
Senzene	9.90	0.50	t#	10.0	ND	99	70-130			
Toluene	9.93	0.50	#	10.0	ND	99	70-130			
Ethylbenzene	9.87	0.50	tr	10.0	ND	99	70-130			
Xylenes (total)	30.1	0.50	er er	30.0	ND	100	70-130			
Surrogate: a,a,a-Trifluorotoluene	88.6		"	80.0	mindalistica managari	111	85-120	ederbunderrollinderschriftensstrabei	A falcinia de cidade de como d	
Surrogate: 4-Bromofluorobenzene	76.8		"	80.0		96	75-125			





2285 Morello Avenue

Pleasant Hill CA, 94523

Project: Exxon 7-4121

Project Number: 7-4121 Project Manager: Erik Appel MQL0079 Reported: 12/17/07 14:51

Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B - Quality Control TestAmerica Morgan Hill

Analyte	Result	Evaluation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7L12002 - EPA 5030B [P/T]										
Matrix Spike Dup (7L12002-MSD1)	Sou	rce: MQL03	30-01	Prepared	& Analyze	ed: 12/12/	07			
Gasoline Range Organics (C4-C12)	81.2	50	ug/i	91.0	ND	89	70-130	3	25	
Benzene	9.08	0.50	Ħ	10.0	ND	91	70-130	9	25	
Toluene	9.08	0.50	R	10.0	ND	91	70-130	9	25	
Ethylbenzene	9.06	0.50	et .	10.0	ND	91	70-130	9	25	
Xylenes (total)	27.7	0.50	tt	30.0	ND	92	70-130	8	25	
Surrogate: a,a,a-Trifluorotoluene	86.4		"	80.0		108	85-120			
Surrogate: 4-Bromofluorobenzene	76.0		"	80.0		95	75-125			





2285 Morello Avenue Pleasant Hill CA, 94523 Project: Exxon 7-4121

Project Number: 7-4121
Project Manager: Erik Appel

MQL0079 Reported: 12/17/07 14:51

Extractable Hydrocarbons with Silica Gel cleanup by EPA 8015B - Quality Control TestAmerica Morgan Hill

Analyte .	Result	Evaluation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7L06001 - EPA 3510C										
Blank (7L06001-BLK1)				Prepared	& Analyze	ed: 12/06/	07			
Diesel Range Organics (C10-C28)	ND	25	ug/l							
Surrogate: n-Octacosane	41.1		11	50.0	***************************************	82	40-120		***************************************	***************************************
LCS (7L06001-BS1)				Prepared	& Analyzo	ed: 12/06/	07			
Diesel Range Organics (C10-C28)	407	50	ug/l	500		81	20-120			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Surrogate: n-Octacosane	39.4		"	50.0	***************************************	79	40-120		***************************************	
LCS Dup (7L06001-BSD1)				Prepared	& Analyzo	ed: 12/06/	07			
Diesel Range Organics (C10-C28)	368	50	ug/l	500		74	20-120	10	25	
Surrogate: n-Octacosane	33.8		"	50.0	*******************************	68	40-120			





2285 Morello Avenue Pleasant Hill CA, 94523 Project: Exxon 7-4121

Project Number: 7-4121
Project Manager: Erik Appel

MQL0079 Reported: 12/17/07 14:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control TestAmerica Morgan Hill

	75 I.	Evaluation	** *.	Spike	Source	arpeo.	%REC	W1 W1 W1	RPD				
Analyte	Result	Limit	Units	Level	Resuit	%REC	Limits	RPD	Limit	Notes			
Batch 7L06024 - EPA 5030B P/T													
Blank (7L06024-BLK1)		Result											
tert-Amyl methyl ether	ND	0.25	ug/l										
tert-Butyl alcohol	ND	10	n										
Di-isopropyl ether	ND	0.25	я										
1,2-Dibromoethane (EDB)	ND	0.25	Ħ										
1,2-Dichloroethane	ND	0.25	ė)										
Ethyl tert-butyl ether	ND	0.40	‡I										
Methyl tert-butyl ether	ND	0.25	ŧı										
Surrogate: Dibromofluoromethane	2.28		"	2.50	videnmen dreiheiden bestellt in de nerdemen.	91	75-130	***************************************					
Surrogate: 1,2-Dichloroethane-d4	2.35		u	2.50		94	60-150						
Surrogate: Toluene-d8													
Surrogate: 4-Bromofluorobenzene	2.14		"										
LCS (7L06024-BS1)	······				& Analyz		·····		······································	······································			
tert-Amyl methyl ether	10.9	0.50	ug/l	10.0		109	70-130						
tert-Butyl alcohol	209	20	Ħ	200		105	70-130						
Di-isopropyl ether	10.0	0.50	н	10.0		100	70-130						
1,2-Dibromoethane (EDB)	10.4	0.50	н	10.0		104	70-130						
1,2-Dichloroethane	10.0	0.50	0	10.0		100	70-130						
Ethyl tert-butyl ether	10.4	0.50	n	10.0		104	70-130						
Methyl tert-butyl ether	9.81	0.50	19	10.0		98	70-130						
Surrogate: Dibromofluoromethane	2.34		"	2.50		94	75-130						
Surrogate: 1,2-Dichloroethane-d4	2.29		#	2.50		92	60-150						
Surrogate: Toluene-d8													
Surrogate: 4-Bromofluorobenzene	2.34		"	2.50		94	55-130						
Matrix Spike (7L06024-MS1)			·····	Prepared	& Analyz	ed: 12/06/	07						
tert-Amyl methyl ether	10.7	0.50	ug/l	10.0	ND	107	70-130						
tert-Butyl alcohol	207	20	17	200	ND	104	70-130						
Di-isopropyl ether	10.2	0.50	Ħ	10.0	ND	102	70-130						
1,2-Dibromoethane (EDB)	9.89	0.50	H.	10.0	ND	99	70-130						
1,2-Dichloroethane	9.77	0.50	ų	10.0	ND	98	70-130						
Ethyl tert-butyl ether	10.3	0.50	14	10.0	ND	103	70-130						

TestAmerica Morgan Hill

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.





2285 Morello Avenue Pleasant Hill CA, 94523 Project: Exxon 7-4121

Project Number: 7-4121 Project Manager: Erik Appel MQL0079 Reported: 12/17/07 14:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control TestAmerica Morgan Hill

Result	Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
		-				***************************************			
So	arce: MQL00	60-08	Prepared	& Analyzo	ed: 12/06/	07			
9.64	0.50	ug/l	10.0	ND	96	70-130	***************************************		
2.42	and other medical territories as the second and the	т.	2.50	······	97	75-130	a) of sourced of the assume and the discount defined	medennilan shamara baransa saliwa	y,
2.35		"	2.50		94	60-150			
2.37		"	2.50		95	75-120			
2.42		"	2.50		97	55-130			
		60-08	Prepared	& Analyzo	ed: 12/06/	07		······	
10.6	0.50	ug/l	10.0	ND	106	70-130	1	25	
200	20	н	200	ND	100	70-130	4	25	
10,1	0.50	н	10.0	ND	101	70-130	2	25	
9.92	0.50	17	10.0	ND	99	70-130	0.3	25	
9.60	0.50	н	10.0	ND	96	70-130	2	25	
10.2	0.50	R	10.0	ND	102	70-130	1	25	
9.70	0.50	et	10.0	ND	97	70-130	0.6	25	
2.42	***************************************	"	2.50		97	75-130	******************	***************************************	
2.32		"	2.50		93	60-150			
2.36		"	2.50		94	75-120			
2.35		Ħ	2.50	•	94	55-130			
			Prepared	& Analyzo	ed: 12/08/	07			
ND	0.25	ug/l				······································			
ND	10	. 0							
ND	0.25	n							
ND	0.25	Ð							
ND	0.25	tt							
ND	0.40	1)							
ND	0.25	n							
2.20		11	2.50		88	75-130			
2.31		"	2.50		92	60-150			
2.21		u	2.50		88	75-120			
2.15		и	2.50		86	55-130			
	9.64 2.42 2.35 2.37 2.42 Soi 10.6 200 10.1 9.92 9.60 10.2 9.70 2.42 2.32 2.36 2.35 ND	9.64 0.50 2.42 2.35 2.37 2.42 Source: MQL00 10.6 0.50 200 20 10.1 0.50 9.92 0.50 9.60 0.50 10.2 0.50 9.70 0.50 2.42 2.32 2.36 2.35 ND 0.25 ND 10 ND 0.25 ND 0.25 ND 0.25 ND 0.40 ND 0.25 ND 0.25	2.42 " 2.35 " 2.37 " 2.42 " Source: MQL0060-08 10.6 0.50 ug/l 200 20 " 10.1 0.50 " 9.92 0.50 " 9.60 0.50 " 10.2 0.50 " 9.70 0.50 " 2.42 " 2.32 " 2.36 " 2.35 " ND 0.25 " ND 0.25 " ND 0.25 " ND 0.25 " ND 0.25 " ND 0.25 " ND 0.25 " ND 0.25 " ND 0.25 " ND 0.25 " ND 0.25 " ND 0.25 "	9.64 0.50 ug/l 10.0 2.42 " 2.50 2.35 " 2.50 2.37 " 2.50 2.42 " 2.50 Source: MQL0060-08 Prepared 10.6 0.50 ug/l 10.0 200 20 " 200 10.1 0.50 " 10.0 9.92 0.50 " 10.0 9.60 0.50 " 10.0 10.2 0.50 " 10.0 9.70 0.50 " 10.0 2.42 " 2.50 2.32 " 2.50 2.35 " 2.50 Prepared ND 0.25 " 2.50 ND 0.25 " ND 0.25 "	9.64 0.50 ug/l 10.0 ND 2.42 " 2.50 2.35 " 2.50 2.37 " 2.50 2.42 " 2.50 Source: MQL0060-08 Prepared & Analyz 10.6 0.50 ug/l 10.0 ND 200 20 " 200 ND 10.1 0.50 " 10.0 ND 9.92 0.50 " 10.0 ND 9.60 0.50 " 10.0 ND 10.2 0.50 " 10.0 ND 9.70 0.50 " 10.0 ND 2.42 " 2.50 2.32 " 2.50 2.35 " 2.50 2.35 " 2.50 Prepared & Analyz ND 0.25 ug/l ND 0.25 " 2.50 2.50 2.31 " 2.50 2.50	9.64 0.50 ug/l 10.0 ND 96 2.42 " 2.50 97 2.35 " 2.50 95 2.42 " 2.50 97 Source: MQL0060-08 Prepared & Analyzed: 12/06/l 10.6 0.50 ug/l 10.0 ND 106 200 20 " 200 ND 100 10.1 0.50 " 10.0 ND 99 9.60 0.50 " 10.0 ND 99 9.60 0.50 " 10.0 ND 96 10.2 0.50 " 10.0 ND 96 10.2 0.50 " 10.0 ND 97 2.42 " 2.50 97 2.32 " 2.50 97 2.32 " 2.50 97 2.35 " 2.50 94 2.35 " 2.50 94 2.35 " 2.50 94 2.36 " 2.50 94 2.37 " 2.50 94 2.38 " 2.50 94 2.39 " 2.50 94 2.30 " 2.50 94 2.31 " 2.50 88 2.31 " 2.50 92 2.31 " 2.50 92 2.31 " 2.50 92 2.31 " 2.50 92 2.31 " 2.50 92 2.31 " 2.50 92 2.32 " 2.50 92 2.33 " 2.50 92 2.34 " 2.50 92 2.35 " 2.50 92 2.36 " 2.50 92 2.37 " 2.50 92 2.38 " 2.50 92 2.39 " 2.50 92 2.30 88	9.64 0.50 ug/l 10.0 ND 96 70-130 2.42 " 2.50 97 75-130 2.35 " 2.50 94 60-150 2.37 " 2.50 95 75-120 2.42 " 2.50 97 55-130 Source: MQL0060-08 Prepared & Analyzed: 12/06/07 10.6 0.50 ug/l 10.0 ND 106 70-130 200 20 " 200 ND 100 70-130 10.1 0.50 " 10.0 ND 101 70-130 9.92 0.50 " 10.0 ND 99 70-130 9.60 0.50 " 10.0 ND 96 70-130 10.2 0.50 " 10.0 ND 96 70-130 9.70 0.50 " 10.0 ND 97 70-130 2.42 " 2.50 97 75-130 2.32 " 2.50 97 75-130 2.35 " 2.50 94 75-120 2.35 " 2.50 94 75-120 2.35 " Prepared & Analyzed: 12/08/07 ND 0.25 " 2.50 94 75-120 2.35 " 2.50 94 75-120 2.36 " 2.50 94 75-120 2.37 " 2.50 94 75-120 2.38 " 2.50 94 75-120 2.39 " 2.50 94 75-120 2.31 " 2.50 92 60-150 2.31 " 2.50 92 60-150 2.31 " 2.50 92 60-150 2.31 " 2.50 92 60-150 2.31 " 2.50 92 60-150 2.21 " 2.50 92 60-150	9.64 0.50 ug/l 10.0 ND 96 70-130 2.42 " 2.50 97 75-130 2.35 " 2.50 94 60-150 2.37 " 2.50 95 75-120 2.42 " 2.50 97 55-130 Source: MQL0060-08 Prepared & Analyzed: 12/06/07 10.6 0.50 ug/l 10.0 ND 106 70-130 1 200 20 " 200 ND 100 70-130 4 10.1 0.50 " 10.0 ND 101 70-130 2 9.92 0.50 " 10.0 ND 99 70-130 0.3 9.60 0.50 " 10.0 ND 96 70-130 2 10.2 0.50 " 10.0 ND 96 70-130 1 9.70 0.50 " 10.0 ND 97 70-130 1 9.70 0.50 " 10.0 ND 97 70-130 0.6 2.42 " 2.50 97 75-130 2.32 " 2.50 93 60-150 2.35 " 2.50 94 75-120 2.35 " 2.50 94 75-120 2.35 " Prepared & Analyzed: 12/08/07 ND 0.25 " 10.0 ND 0.25 "	9.64 0.50 ug/l 10.0 ND 96 70-130 2.42 " 2.50 97 75-130 2.35 " 2.50 94 60-150 2.37 " 2.50 95 75-120 2.42 " 2.50 97 55-130 Source: MQL0060-08 Prepared & Analyzed: 12/06/07 10.6 0.50 ug/l 10.0 ND 106 70-130 1 25 200 20 " 200 ND 100 70-130 4 25 10.1 0.50 " 10.0 ND 101 70-130 2 25 9.92 0.50 " 10.0 ND 99 70-130 0.3 25 9.60 0.50 " 10.0 ND 99 70-130 0.3 25 9.60 0.50 " 10.0 ND 96 70-130 1 25 9.70 0.50 " 10.0 ND 97 70-130 1 25 9.70 0.50 " 10.0 ND 97 70-130 0.6 25 2.42 " 2.50 97 75-130 2.32 " 2.50 93 60-150 2.35 " 2.50 94 75-120 2.36 " 2.50 94 55-130 Prepared & Analyzed: 12/08/07 ND 0.25 " 2.00 " 2.50 88 75-130 2.31 " 2.50 92 60-150 2.31 " 2.50 92 60-150 2.31 " 2.50 92 60-150 2.31 " 2.50 92 60-150 2.31 " 2.50 92 60-150 2.31 " 2.50 92 60-150 2.31 " 2.50 92 60-150 2.31 " 2.50 92 60-150

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.





2285 Morello Avenue

Pleasant Hill CA, 94523

Project: Exxon 7-4121

Project Number: 7-4121 Project Manager: Erik Appel MQL0079 Reported: 12/17/07 14:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control TestAmerica Morgan Hill

Analyte	Result	Evaluation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7L08003 - EPA 5030B P/T										
LCS (7L08003-BS1)				Prepared	& Analyzo	ed: 12/08/	07			
tert-Amyl methyl ether	10.0	0.50	ug/l	10.0		100	70-130			
tert-Butyl alcohol	204	20	#I	200		102	70-130			
Di-isopropyl ether	9.76	0.50	н	10.0		98	70-130			
1,2-Dibromoethane (EDB)	9.62	0.50	Ħ	10.0		96	70-130			
1,2-Dichloroethane	9.51	0.50	н	10.0		95	70-130			
Ethyl tert-butyl ether	9.57	0.50	'n	10.0		96	70-130			
Methyl tert-butyl ether	9.08	0.50	H	10.0		91	70-130			
Surrogate: Dibromofluoromethane Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8 Surrogate: 4-Bromofluorobenzene	2.27 2.33 2.25 2.34		# # #	2.50 2.50 2.50 2.50	renovement in conducted as the fact and coloridate and a fact and	91 93 90 94	75-130 60-150 75-120 55-130	and a section of the	***************************************	
Matrix Spike (7L08003-MS1)	So	urce: MQL02	215-02	Prepared	& Analyze	ed: 12/08/	07			
tert-Amyl methyl ether	10.1	0.50	ug/l	10.0	ND	101	70-130	***************************************		***************************************
tert-Butyl alcohol	189	20	Ħ	200	ND	94	70-130			
Di-isopropyl ether	9.33	0.50	и	10.0	ND	93	70-130			
1,2-Dibromoethane (EDB)	9.76	0.50	н	10.0	ND	98	70-130			
1,2-Dichloroethane	9.32	0.50	Ħ	10.0	ND	93	70-130			
Ethyl tert-butyl ether	9.60	0.50	II	10.0	ND	96	70-130			
Methyl tert-butyl ether	9.25	0.50	Ħ	10.0	ND	92	70-130			
Surrogate: Dibromofluoromethane Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8 Surrogate: 4-Bromofluorobenzene	2.31 2.35 2.32 2.47		" " "	2.50 2.50 2.50 2.50		92 94 93 99	75-130 60-150 75-120 55-130	***************************************		
Matrix Spike Dup (7L08003-MSD1)		urce: MQL02	215-02	Prepared	& Analyzo	ed: 12/08/	07			
tert-Amyl methyl ether	10.1	0.50	ug/l	10.0	ND	101	70-130	0.5	25	
tert-Butyl alcohol	199	20	Ħ	200	ND	100	70-130	5	25	
Di-isopropyl ether	9.63	0.50	Ħ	10.0	ND	96	70-130	3	25	
1,2-Dibromoethane (EDB)	9.69	0.50	It	10.0	ND	97	70-130	0.7	25	
1,2-Dichloroethane	9.55	0.50	н	10.0	ND	96	70-130	2	25	
Ethyl tert-butyl ether	9.75	0.50	Ħ	10.0	ND	98	70-130	2	25	

TestAmerica Morgan Hill

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.





2285 Morello Avenue

Pleasant Hill CA, 94523

Project: Exxon 7-4121

Project Number: 7-4121
Project Manager: Erik Appel

MQL0079 Reported: 12/17/07 14:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control TestAmerica Morgan Hill

Analyte Result Limit Units Level Result %REC Limits RPD Limit Notes			Evaluation		Spike	Source		%REC		RPD	
	Analyte	Result	Limit	Units	Level	Result	ZONCO	Limits	RPD	Limit	Notes

Sour	Source: MQL0215-02			& Analyze	/07			
9.15	0.50	ug/l	10.0	ND	92	70-130	1	25
2.31	**************************************	17	2.50		92	75-130	******************	and an investment of the second of the secon
2.37		"	2.50		95	60-150		
2.26		"	2.50		90	75-120		
2.42		n	2.50		97	55-130		
	9.15 2.31 2.37 2.26	9.15 0.50 2.31 2.37 2.26	9.15 0.50 ug/l 2.31 " 2.37 " 2.26 "	9.15 0.50 ug/l 10.0 2.31 " 2.50 2.37 " 2.50 2.26 " 2.50	9.15 0.50 ug/l 10.0 ND 2.31 " 2.50 2.37 " 2.50 2.26 " 2.50	9.15 0.50 ug/l 10.0 ND 92 2.31 " 2.50 92 2.37 " 2.50 95 2.26 " 2.50 90	9.15 0.50 ug/l 10.0 ND 92 70-130 2.31 " 2.50 92 75-130 2.37 " 2.50 95 60-150 2.26 " 2.50 90 75-120	9.15 0.50 ug/l 10.0 ND 92 70-130 1 2.31 " 2.50 92 75-130 2.37 " 2.50 95 60-150 2.26 " 2.50 90 75-120





ETIC Engineering Inc - Pleasant Hill (Exxon)

Project: Exxon 7-4121

MQL0079

2285 Morello Avenue

Project Number: 7-4121

Pleasant Hill CA, 94523

Project Manager: Erik Appel

12/17/07 14:51

Notes and Definitions

R1 The RPD between the primary and confirmatory analysis exceeded 40%. Per method 8000B, the higher value was reported.

Q1 Does not match typical pattern

DET 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



Morgan Hill Division 885 Jarvis Drive Morgan Hill, CA 95037 Phone: 408-776-9600 Fax: 408-782-6308

ExonMobil.

	Consultant Name	ETICE	NGINEE	RING	}												<u>T</u> A	Acc	our	ıt#:	10	236	1					***************************************					
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	City/State/Zip: PLEASANT HILL,				ASANT HILL, CA. 94523								Report To:						eticlabreports@eticeng.com							_							
	ExxonMobil Territory Mgr:	JENNIFER SEDLACHEK									· · · · · · · · · · · · · · · · · · ·			P	0 #:	: 4508104331																	
	Consultant Project Mgr:	ERK AF	PPEL				Pro	ject	#: _!	JP4	121.	1.6	**********			*********		^z aci	lity	ID#	7-4	121											
	Consultant Telephone Number:	925-60	2-4710 E	XT.2	1		. Fa	x N	o.: <u></u>	925-	602-	472	20				s	ite A	\ddr	ess	106	305	Foot	hill E	Soule	evar	d						
	Sampler Name: (Print)				?	Sir	1614		•••••								City	, St	ate,	Zip	<u>Oa</u>	klan	d, C	alifo	mia								_
	Sampler Signature:	N. D.	saldin	_	Siv	<u>(L</u>							-	F	Regu	ılatı	ory E	istr	ict (CA)													_
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ia t	MOICO 79 Sample ID / Description	ঠ Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	< loe			H ₂ SO ₄ Plastic (Yellow Label)	H₂SO₄ Glass(Yellow Labet)	None (Black Label)	Curent opening	Wastewater	Drinking Water	Sudge	Other (specify):	<u> </u>		T	1	CXYGENATES BY 8260B **					*	RUSH TAT (Pre-Schedule)	1		Fax Results	
	MAN	1	1/1-5	11				X		<u>×</u>	+			 X	1	\vdash		<u> </u>	X	X	 	•	X				\dashv	_	╀	1	<u>× </u>		-
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· .	MW3	 - - - - - 	1140	11	<u> </u>			X		X _	11	-	_	<u> </u> X	1		_	-	Х	X	}	Х			_	_			4		<u> </u>		
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	Special Instructions: * USE SILICAGEL CLEANUP F ** OXYGENATES ARE: TBA, D		H-D AN	IALY	SIS.		VD 1	,2-I			LEF	REQ)UIR	ED						* .		Ten San	iper iple	Con	e Up Itaine	on F ers I	Recei ntact	t?	Q.) [V		
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TEST AMERICA SAMPLE RECEIPT LOG

REC. BY (PRINT) WORKORDER:	etic D.V. MOLOO 79		DATE REC'D AT LAB: TIME REC'D AT LAB: DATE LOGGED IN:	12/8697 1630 12/04/0				For Regulatory Purposes? DRINKING WATER WASTE WATER OTHER			
CIRCLE THE APPRO	PRIATE RESPONSE	LAB SAMPLE#	CLIENT ID	CONTAINER DESCRIPTION		pН	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)		
1. Custody Seal(s)	Present / Absent)	٥١	MW-1	211 A		÷	*W	12/03/07			
	Intact / Broken*	V	V	avoa	HCL	L	1	}			
2. Chain-of-Custody	Present / Absent*	02	mw-2	same	same						
3. Traffic Reports or		03	MW-3						,		
Packing List:	Present / Absent	04	WW-5	Ψ	V	V	V	y			
4. Airbill:	Airbill / Sticker										
	Present / Absent		ą!								
5. Airbill #:											
6. Sample Labels:	Present / Absent		,					,			
7. Sample IDs:	Asted / Not Listed	` .						.,			
	on Chain-of-Custody								·		
8. Sample Condition:	Intaci / Broken* /			1/					`		
	Leaking*			, ,							
9. Does information or	r chain-of-custody,		<u> </u>	52							
traffic reports and s	· 🗥		* :		**						
agree?	Yes / No*			-							
10. Sample received with				- 25							
hold time?	(es / No*			- in3l							
11. Adequate sample volu	ume 🕜			1031					É		
received?	Ves / No*				<i>D</i> 'A,						
12. Proper preservatives			······································				 .				
13. Trip Blank / Temp Bla		3.4							Series Control		
(circle which, if yes)	Yes /(Ne)										
14, Read Temp:	3,42										
Correction Factor:	-1.0										
Corrected Temp:	2.4				<u> </u>						
Is corrected temp. 0-6			<u>'</u>								
**Exception (if any): Meta	. 1										
DFF on Ice or Probler	n COC								l l		

SAMPLERECEIPTLOG Revision 9 (10/26/07) *IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.

Page _____of_____