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Jennifer C. Sedlachek  
Project Manager

**RECEIVED**

By dehloptoxic at 8:53 am, Oct 04, 2006

**ExxonMobil**  
Refining & Supply

September 28, 2006

Mr. Barney Chan  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway  
Alameda, CA 94501-6577

Subject: Former Exxon RAS #7-0210, 7840 Amador Valley Boulevard, Dublin, California

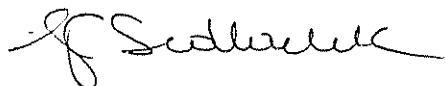
Dear Mr. Chan:

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

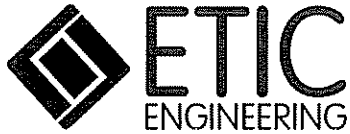


Jennifer C. Sedlachek  
Project Manager

Attachment: ETIC Groundwater Monitoring Report dated September 2006

c: w/ attachment:  
Mr. Robert Ehlers - Valero Energy Corporation

c: w/o attachment:  
Ms. Christa Marting - ETIC Engineering, Inc.



**Report of Groundwater Monitoring  
Third Quarter 2006**

**Former Exxon Retail Site 7-0210  
7840 Amador Valley Boulevard  
Dublin, 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

*Ted Moise*

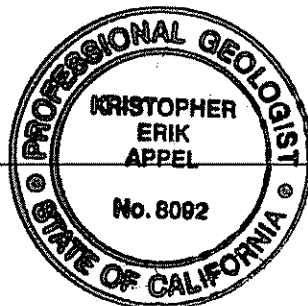
Ted Moise  
Senior Project Manager

*9/28/06*

Date

*K. Erik Appel*

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



*9/29/06*

Date

September 2006

## **SITE CONTACTS**

Station Number: Former Exxon Retail Site 7-0210

Station Address: 7840 Amador Valley Boulevard  
Dublin, 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: Ted Moise

Regulatory Oversight: Barney Chan  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway  
Alameda, California 94501-6577  
(510) 567-6700

## INTRODUCTION

At the request of ExxonMobil Oil Corporation, ETIC Engineering, Inc. has prepared this quarterly groundwater monitoring report for former Exxon Retail Site 7-0210. 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 3 May 2006, the date of the last monitoring event, until 4 August 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

<b>Site name:</b>	Former Exxon Retail Site 7-0210
<b>Site address:</b>	7840 Amador Valley Boulevard, Dublin, California
<b>Current property owner:</b>	Dublin Valero, Inc.
<b>Current site use:</b>	Active Valero-branded station operated by Dublin Valero, Inc.
<b>Current phase of project:</b>	Groundwater monitoring
<b>Tanks at site:</b>	Three underground storage tanks (gasoline)
<b>Number of wells:</b>	3 (all onsite)

## GROUNDWATER MONITORING SUMMARY

<b>Gauging and sampling date:</b>	4 August 2006
<b>Wells gauged and sampled:</b>	MW5-MW7
<b>Wells gauged only:</b>	None
<b>Groundwater flow direction:</b>	Southeast
<b>Groundwater gradient:</b>	0.003
<b>Well screens submerged:</b>	None
<b>Well screens not submerged:</b>	MW5-MW7
<b>Liquid-phase hydrocarbons:</b>	Not observed or detected
<b>Laboratory:</b>	TestAmerica, Inc., Nashville, Tennessee

### Analyses performed:

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

## **ADDITIONAL ACTIVITIES PERFORMED**

A Case Closure Request was submitted in June 2006.

## **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:**

- ⊕ Groundwater Monitoring Well
- ⊗ Destroyed Well
- ⊙ Soil Boring/Groundwater Sampling Location
- (341.06) Groundwater Elevation (feet)
- TPH-g Total Petroleum Hydrocarbons as gasoline
- TPH-d Total Petroleum Hydrocarbons as diesel
- MTBE Methyl Tertiary Butyl Ether



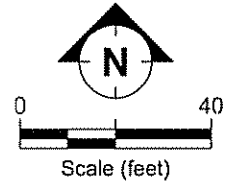
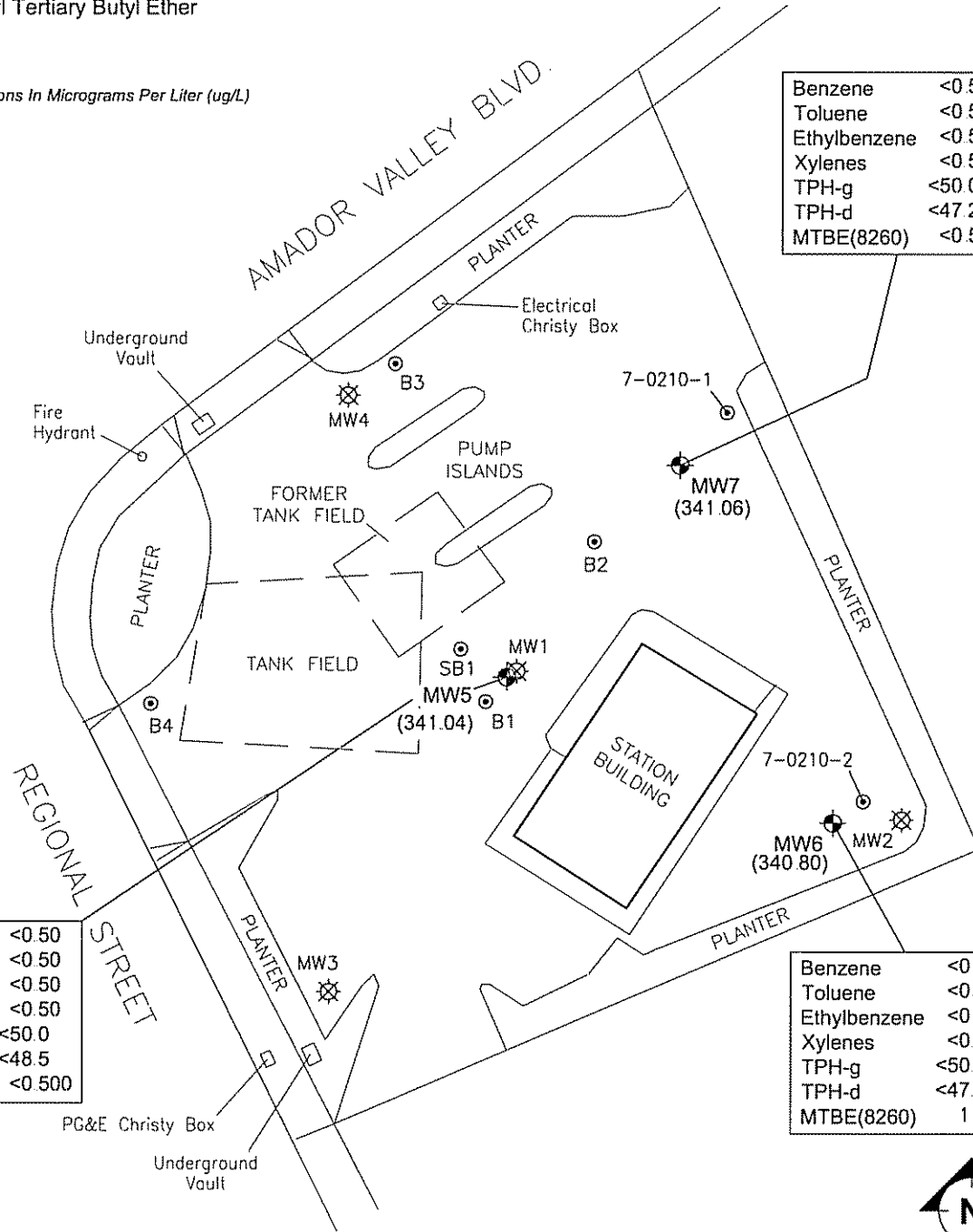
Groundwater  
Flow Direction  
Gradient = 0.003

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

Benzene	<0.50
Toluene	<0.50
Ethylbenzene	<0.50
Xylenes	<0.50
TPH-g	<50.0
TPH-d	<47.2
MTBE(8260)	<0.500

Benzene	<0.50
Toluene	<0.50
Ethylbenzene	<0.50
Xylenes	<0.50
TPH-g	<50.0
TPH-d	<48.5
MTBE(8260)	<0.500

Benzene	<0.50
Toluene	<0.50
Ethylbenzene	<0.50
Xylenes	<0.50
TPH-g	<50.0
TPH-d	<47.2
MTBE(8260)	1.55



**SITE PLAN SHOWING GROUNDWATER ELEVATIONS AND ANALYTICAL RESULTS**  
 FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BLVD, DUBLIN, CA  
 4 AUGUST 2006

FIGURE:  
**1**

## **Tables**



TABLE 1 WELL CONSTRUCTION DETAILS, FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BOULEVARD, DUBLIN, 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	04/14/92	96.32	PVC	26.5	24.75	10.25	4	11-24	0.010	10-25	--
MW2	a	05/13/92	95.91	PVC	26	25	10.25	4	10-25	0.010	9.5-26	--
MW3	a	05/14/92	97.95	PVC	28	27.75	10.25	4	12.5-27.5	0.010	11-28	--
MW4	a	05/14/92	96.69	PVC	26.5	25	10.25	4	12-25	0.010	11-26	--
MW5	b	11/15/00	352.95	PVC	25	25	8.25	2	10-25	0.020	7-25	#3 sand
MW6	b	11/14/00	352.69	PVC	27	25	8.25	2	10-25	0.020	8-27	#3 sand
MW7	b	11/14/00	351.87	PVC	26	25	8.25	2	10-25	0.020	7-25	#3 sand

a Well was destroyed April 1996.  
 b Elevation is based on the Alameda Benchmark AM-STW. Elevation = 344.17 feet.  
 PVC Polyvinyl chloride.  
 TOC Top of casing.  
 -- Information not available.

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

Well Number	Date	Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Concentration (µg/L)								
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	MTBE	Ethanol	Other Oxygenates and Additives
MW1	05/21/92	96.32	14.45	81.87	0.00	<0.5	<0.5	<0.5	<0.5	<50				NA
MW1	02/10/93	96.32	12.22	84.10	0.00	3.1	<0.5	1.8	0.6	2,600				NA
MW1	05/20/93	96.32	10.74	85.58	0.00	1.9	<0.5	1.8	<1.0	1,000				NA
MW1	06/23/93	96.32	11.74	84.58	0.00	1.0	<0.5	1.2	<0.5	1,300				NA
MW1	08/23/93	96.32	12.72	83.60	0.00	<0.5	<0.5	<0.5	0.8	80				NA
MW1	10/25/93	96.32	13.99	82.33	0.00	<0.5	<0.5	0.8	1.3	140				NA
MW1	02/16/94	96.32	14.90	81.42	0.00	<0.5	<0.5	<0.5	<0.5	<50				NA
MW1	04/16/94	96.32	14.49	81.83	0.00	<0.5 <sup>b</sup>	<0.5	<0.5	<0.5	190				NA
MW1	07/26/94	96.32	15.11	81.21	0.00	<0.5 <sup>b</sup>	<0.5	<0.5	<0.5	130				NA
MW1	10/05/94	96.32	15.69	80.63	0.00	<0.5	<0.5	<0.5	<0.5	<50				NA
MW1	01/04/95	96.32	14.66	81.66	0.00	<0.5	<0.5	<0.5	<0.5	<50				NA
MW1	06/12/95	96.32	10.08	86.24	0.00	<0.5	<0.5	<0.5	<0.5	<50				230
MW1	Well destroyed April 1996.													
MW2	05/21/92	95.91	14.30	81.61	0.00	<0.5	<0.5	<0.5	<0.5	<50				NA
MW2	02/10/93	95.91	12.34	83.57	0.00	<0.5	<0.5	<0.5	<0.5	<50				NA
MW2	05/20/93	95.91	10.73	85.18	0.00	<0.5	<0.5	<0.5	<1.0	320				NA
MW2	06/23/93	95.91	11.74	84.17	0.00	<0.5	<0.5	<0.5	<0.5	130				NA
MW2	08/23/93	95.91	12.60	83.31	0.00	<0.5	<0.5	<0.5	1.1	140				NA
MW2	10/25/93	95.91	13.86	82.05	0.00	<0.5	<0.5	0.5	2.4	75				NA
MW2	02/16/94	95.91	14.73	81.18	0.00	<0.5	<0.5	<0.5	<0.5	<50				NA
MW2	04/16/94	95.91	14.33	81.58	0.00	<0.5	<0.5	<0.5	<0.5	<50				NA
MW2	07/26/94	95.91	14.96	80.95	0.00	<0.5	<0.5	<0.5	<0.5	<50				NA
MW2	10/05/94	95.91	15.49	80.42	0.00	<0.5	<0.5	<0.5	<0.5	<50				NA
MW2	01/04/95	95.91	14.44	81.47	0.00	<0.5	<0.5	<0.5	<0.5	<50				NA
MW2	06/12/95	95.91	10.10	85.81	0.00	<0.5	<0.5	<0.5	<0.5	<50				59

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

Well Number	Date	Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Concentration (µg/L)						
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	MTBE
MW2	Well destroyed April 1996.											
MW3	05/21/92	97.95	16.05	81.90	0.00	<0.5	<0.5	<0.5	<0.5	<50		NA
MW3	02/10/93	97.95	13.77	84.18	0.00	<0.5	<0.5	<0.5	0.7	<50		NA
MW3	05/20/93	97.95	12.32	85.63	0.00	<0.5	<0.5	<0.5	<1.0	<50		NA
MW3	06/23/93	97.95	13.34	84.61	0.00	<0.5	<0.5	<0.5	<0.5	<50		NA
MW3	08/23/93	97.95	14.30	83.65	0.00	2.3	1.2	1.4	4.1	<50		NA
MW3	10/25/93	97.95	15.62	82.33	0.00	NS	NS	NS	NS	NS		NS
MW3	02/16/94	97.95	16.48	81.47	0.00	NS	NS	NS	NS	NS		NS
MW3	04/16/94	97.95	16.61	81.34	0.00	NS	NS	NS	NS	NS		NS
MW3	07/26/94	97.95	16.72	81.23	0.00	<0.5	<0.5	<0.5	<0.5	<50		NA
MW3	10/05/94	97.95	17.33	80.62	0.00	<0.5	<0.5	<0.5	<0.5	<50		NA
MW3	01/04/95	97.95	16.29	81.66	0.00	<0.5	<0.5	<0.5	<0.5	<50		NA
MW3	06/12/95	97.95	11.67	86.28	0.00	<0.5	<0.5	<0.5	<0.5	<50		<2.5
MW3	Well destroyed April 1996.											
MW4	05/21/92	96.69	14.59	82.10	0.00	<0.5	<0.5	<0.5	<0.5	<50		NA
MW4	02/10/93	96.69	12.30	84.39	0.00	<0.5	<0.5	<0.5	<0.5	<50		NA
MW4	05/20/93	96.69	10.75	85.94	0.00	1.4	1.0	<0.5	1.8	<50		NA
MW4	06/23/93	96.69	11.78	84.91	0.00	<0.5	<0.5	<0.5	<0.5	<50		NA
MW4	08/23/93	96.69	12.82	83.87	0.00	<0.5	<0.5	<0.5	0.8	<50		NA
MW4	10/25/93	96.69	14.10	82.59	0.00	NS	NS	NS	NS	NS		NS
MW4	02/16/94	96.69	15.02	81.67	0.00	<0.5	<0.5	<0.5	<0.5	<50		NA
MW4	04/16/94	96.69	14.61	82.08	0.00	NS	NS	NS	NS	NS		NS
MW4	07/26/94	96.69	15.23	81.46	0.00	<0.5	<0.5	<0.5	<0.5	<50		NA
MW4	10/05/94	96.69	15.85	80.84	0.00	<0.5	12	<0.5	<0.5	<50		NA

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

Well Number	Date	Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Concentration (µg/L)							Other Oxygenates and Additives	
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	MTBE		Ethanol
MW4	01/04/95	96.69	14.84	81.85	0.00	<0.5	<0.5	<0.5	<0.5	<50		NA		
MW4	06/12/95	96.69	10.07	86.62	0.00	<0.5	<0.5	<0.5	<0.5	<50		<2.5		
MW4			Well destroyed April 1996.											
MW5	06/15/00	STATION OPERATIONS TRANSFERRED TO VALERO ENERGY CORPORATION												
MW5	11/17/00	352.93	13.51	339.42	0.00	<0.5	<0.5	<0.5	2.46	240		1,500		
MW5	11/17/00	352.93										1,600 <sup>a</sup>		
MW5	02/02/01	352.93	13.81	339.12	0.00	<0.5	<0.5	<0.5	<0.5	110		1,400		
MW5	02/02/01	352.93										1,200 <sup>a</sup>		
MW5	05/09/01	352.93	12.20	340.73	0.00	<0.5	<0.5	<0.5	<0.5	<50		770 <sup>a</sup>	ND <sup>c</sup>	
MW5	09/12/01	352.93	13.84	339.09	0.00	<0.5	<0.5	<0.5	<0.5	100		760	NA	
MW5	09/12/01	352.93										800 <sup>a</sup>		
MW5	11/05/01	352.95	14.14	338.81	0.00	<0.5	<0.5	<0.5	0.61	70	86	510	NA	
MW5	11/05/01	352.95										420 <sup>a</sup>		
MW5	02/04/02	352.95	11.85	341.10	0.00	<0.5	<0.5	<0.5	<0.5	381	d	<50	630	NA
MW5	02/04/02	352.95										525 <sup>a</sup>		
MW5	04/26/02	352.95	11.75	341.20	0.00	<0.5	<0.5	<0.5	<0.5	322	d	<50	378	NA
MW5	04/26/02	352.95										312 <sup>a</sup>		
MW5	07/30/02	352.95	12.87	340.08	0.00	<0.5	<0.5	<0.5	<0.5	97.8	d	<50	126	NA
MW5	07/30/02	352.95										132 <sup>a</sup>		
MW5	11/05/02	352.95	14.13	338.82	0.00	<0.5	<0.5	<0.5	<0.5	74.2	d	<50	80.0	NA
MW5	11/05/02	352.95										96.4 <sup>b</sup>		
MW5	01/24/03	352.95	11.23	341.72	0.00	<0.5	<0.5	<0.5	<0.5	542	d	70	678	NA
MW5	01/24/03	352.95										509 <sup>a</sup>		
MW5	04/24/03	352.95	10.79	342.16	0.00	<0.5	<0.5	<0.5	<0.5	384	d	<50	522	NA
MW5	04/24/03	352.95										498 <sup>a</sup>		

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

Well Number	Date	Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Concentration (µg/L)								Other Oxygenates and Additives	
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	MTBE	Ethanol		
MW5	08/05/03	352.95	12.24	340.71	0.00	<0.5	1.6	<0.5	1.3	282	d	<50	560	NA	
MW5	08/05/03	352.95											428 <sup>a</sup>		
MW5	10/17/03	352.95	13.64	339.31	0.00	<0.5	1.6	<0.5	0.9	229	d	<50	284	NA	
MW5	10/17/03	352.95											272 <sup>a</sup>		
MW5	01/28/04	352.95	12.41	340.54	0.00	<0.5	0.9	<0.5	1.1	283	d	NA <sup>c</sup>	485	NA	
MW5	01/28/04	352.95											453 <sup>a</sup>		
MW5	04/16/04	352.95	11.67	341.28	0.00	<0.5	<0.5	<0.5	<0.5	163	d	<50	200 <sup>a</sup>	<100 <sup>a</sup>	NA
MW5	08/03/04	352.95	13.39	339.56	0.00	<0.5	<0.5	<0.5	1.0	553	d	<50	92.8 <sup>a</sup>	<100 <sup>a</sup>	NA
MW5	11/04/04	352.95	13.17	339.78	0.00	<0.5	<0.5	<0.5	<0.5	117	d	<50	117 <sup>a</sup>	<100 <sup>a</sup>	ND <sup>c</sup>
MW5	02/16/05	352.95	10.81	342.14	0.00	<0.50	<0.5	<0.5	<0.5	<50.0	d	<50	43.2 <sup>a</sup>	<100 <sup>a</sup>	NA
MW5	05/16/05	352.95	9.92	343.03	0.00	<0.5	<0.5	<0.5	<0.5	<50	d	<50	29.5 <sup>a</sup>	<100 <sup>a</sup>	NA
MW5	08/17/05	352.95	11.84	341.11	0.00	<0.5	<0.5	<0.5	<0.5	<50	d	<50	2.29 <sup>a</sup>	<100 <sup>a</sup>	NA
MW5	11/17/05	352.95	13.77	339.18	0.00	<0.5	<0.5	<0.5	1.18	72.6	d	<50	1.02 <sup>a</sup>	<50 <sup>a</sup>	ND <sup>c</sup>
MW5	02/06/06	352.95	11.73	341.22	0.00	<0.5	<0.5	<0.5	<0.5	<50	d	<50	1.1 <sup>a</sup>	NA	ND <sup>c</sup>
MW5	05/03/06	352.95	9.44	343.51	0.00	<0.50	<0.50	<0.50	<0.50	<50.0	d	<47	10.3 <sup>a</sup>	NA	ND <sup>c</sup>
<b>MW5</b>	<b>08/04/06</b>	<b>352.95</b>	<b>11.91</b>	<b>341.04</b>	<b>0.00</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;50.0</b>	<b>d</b>	<b>&lt;48.5</b>	<b>&lt;0.500<sup>a</sup></b>	<b>NA</b>	<b>ND<sup>c</sup></b>
MW6	06/15/00	STATION OPERATIONS TRANSFERRED TO VALERO ENERGY CORPORATION													
MW6	11/17/00	352.66	13.47	339.19	0.00	<0.5	<0.5	<0.5	<0.5	<50			270		
MW6	11/17/00	352.66											260 <sup>a</sup>		
MW6	02/02/01	352.66	13.79	338.87	0.00	<0.5	<0.5	<0.5	<0.5	<50			160		
MW6	02/02/01	352.66											130 <sup>a</sup>		
MW6	05/09/01	352.66	12.25	340.41	0.00	<0.5	<0.5	<0.5	<0.5	<50			760 <sup>a</sup>	ND <sup>c</sup>	
MW6	09/12/01	352.66	13.83	338.83	0.00	<0.5	<0.5	<0.5	<0.5	<50			680	NA	
MW6	09/12/01	352.66											740 <sup>a</sup>		
MW6	11/05/01	352.69	14.11	338.58	0.00	<0.5	<0.5	<0.5	<0.5	<50		<50	390	NA	

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

Well Number	Date	Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Concentration (µg/L)							Other Oxygenates and Additives		
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	MTBE		Ethanol	
MW6	11/05/01	352.69											320 <sup>a</sup>		
MW6	02/27/02	352.69	11.77	340.92	0.00	<5.0	<5.0	8.00	<5.0	1,380	d	NA	1,310	ND <sup>c</sup>	
MW6	02/27/02	352.69											1,410 <sup>a</sup>		
MW6	04/26/02	352.69	11.75	340.94	0.00	<0.5	<0.5	<0.5	<0.5	422	d	<50	482	NA	
MW6	04/26/02	352.69											430 <sup>a</sup>		
MW6	07/30/02	352.69	12.88	339.81	0.00	<2.5	<2.5	<2.5	<2.5	144	d	<50	166	NA	
MW6	07/30/02	352.69											185 <sup>a</sup>		
MW6	11/05/02	352.69	14.12	338.57	0.00	<0.5	<0.5	<0.5	<0.5	99.7	d	<50	114	NA	
MW6	11/05/02	352.69											118 <sup>a</sup>		
MW6	01/24/03	352.69	11.32	341.37	0.00	<0.5	<0.5	<0.5	<0.5	342	d	84	388	NA	
MW6	01/24/03	352.69											293 <sup>a</sup>		
MW6	04/24/03	352.69	10.84	341.85	0.00	<0.5	<0.5	<0.5	<0.5	370	d	<50	509	NA	
MW6	04/24/03	352.69											491 <sup>a</sup>		
MW6	08/05/03	352.69	12.25	340.44	0.00	<0.5	<0.5	<0.5	<0.5	967	d	<50	1,240	NA	
MW6	08/05/03	352.69											1,010 <sup>a</sup>		
MW6	10/17/03	352.69	13.63	339.06	0.00	<0.5	1.2	<0.5	0.5	476	d	<50	528	NA	
MW6	10/17/03	352.69											535 <sup>a</sup>		
MW6	01/28/04	352.69	12.40	340.29	0.00	<0.5	0.8	<0.5	0.9	154	d	<50	283	NA	
MW6	01/28/04	352.69											244 <sup>a</sup>		
MW6	04/16/04	352.69	11.68	341.01	0.00	<0.5	<0.5	<0.5	<0.5	219	d	<50	301 <sup>a</sup>	<100 <sup>a</sup>	NA
MW6	08/03/04	352.69	13.37	339.32	0.00	<0.5	<0.5	<0.5	<0.5	243	d	<50	62.3 <sup>a</sup>	<100 <sup>a</sup>	NA
MW6	11/04/04	352.69	13.13	339.56	0.00	<0.5	<0.5	<0.5	<0.5	<50	d	<50	25.0 <sup>a</sup>	<100 <sup>a</sup>	ND <sup>c</sup>
MW6	02/16/05	352.69	10.77	341.92	0.00	<0.50	0.8	<0.5	1.4	53.5	d	<50	52.3 <sup>a</sup>	<100 <sup>a</sup>	NA
MW6	05/16/05	352.69	9.98	342.71	0.00	<0.5	<0.5	<0.5	1.2	59.7	d	<50	30.1 <sup>a</sup>	<100 <sup>a</sup>	NA
MW6	08/17/05	352.69	11.84	340.85	0.00	<0.5	0.574	<0.5	0.843	<50	d	<50	4.21 <sup>a</sup>	<100 <sup>a</sup>	NA
MW6	11/17/05	352.69	13.70	338.99	0.00	<0.5	<0.5	<0.5	<0.5	<50	d	<50	1.45 <sup>a</sup>	<50 <sup>a</sup>	ND <sup>c</sup>

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

Well Number	Date	Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Concentration (µg/L)								Other Oxygenates and Additives	
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	MTBE	Ethanol		
MW6	02/06/06	352.69	11.75	340.94	0.00	<0.5	<0.5	<0.5	<0.5	<50	d	<50	2.7 <sup>a</sup>	NA	ND <sup>c</sup>
MW6	05/03/06	352.69	9.55	343.14	0.00	<0.50	<0.50	<0.50	<0.50	<50.0	d	<47	5.52 <sup>a</sup>	NA	ND <sup>c</sup>
<b>MW6</b>	<b>08/04/06</b>	<b>352.69</b>	<b>11.89</b>	<b>340.80</b>	<b>0.00</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;50.0</b>	<b>d</b>	<b>&lt;47.2</b>	<b>1.55<sup>a</sup></b>	<b>NA</b>	<b>ND<sup>c</sup></b>
MW7	06/15/00	STATION OPERATIONS TRANSFERRED TO VALERO ENERGY CORPORATION													
MW7	11/17/00	351.86	12.44	339.42	0.00	<0.5	<0.5	<0.5	<0.5	<50			<0.5		
MW7	02/02/01	351.86	12.74	339.12	0.00	<0.5	<0.5	<0.5	<0.5	<50			<0.5		
MW7	05/09/01	351.86	11.15	340.71	0.00	<0.5	<0.5	<0.5	<0.5	<50			<5 <sup>a</sup>		ND <sup>c</sup>
MW7	09/12/01	351.86	12.74	339.12	0.00	<0.5	<0.5	<0.5	<0.5	<50			<0.5		NA
MW7	11/05/01	351.87	13.07	338.80	0.00	<0.5	<0.5	<0.5	<0.5	<50		50	<0.5		NA
MW7	02/04/02	351.87	10.79	341.08	0.00	<0.5	<0.5	<0.5	<0.5	<50	d	<50	5.80		NA
MW7	02/04/02	351.87											1.4 <sup>a</sup>		
MW7	04/26/02	351.87	10.65	341.22	0.00	<0.5	<0.5	<0.5	<0.5	<50	d	<50	1.6		NA
MW7	07/30/02	351.87	11.77	340.10	0.00	<0.5	<0.5	<0.5	<0.5	<50	d	<50	<0.5		NA
MW7	11/05/02	351.87	13.04	338.83	0.00	<0.5	<0.5	<0.5	<0.5	<50	d	<50	<0.5		NA
MW7	01/24/03	351.87	10.19	341.68	0.00	<0.5	<0.5	<0.5	<0.5	<50	d	106	<0.5		NA
MW7	04/24/03	351.87	9.76	342.11	0.00	<0.5	<0.5	<0.5	<0.5	<50	d	<50	<0.5		NA
MW7	08/05/03	351.87	11.18	340.69	0.00	<0.5	1.6	<0.5	<0.5	<50	d	<50	<0.5		NA
MW7	10/17/03	351.87	12.54	339.33	0.00	<0.5	1.7	<0.5	0.9	<50	d	<50	<0.5		NA
MW7	01/28/04	351.87	11.33	340.54	0.00	<0.5	1.0	<0.5	0.9	<50	d	<50	<0.5		NA
MW7	04/16/04	351.87	10.57	341.30	0.00	<0.5	<0.5	<0.5	<0.5	<50	d	<50	<0.5 <sup>a</sup>	<100 <sup>a</sup>	NA
MW7	08/03/04	351.87	12.30	339.57	0.00	<0.5	<0.5	<0.5	<0.5	94.0	d	<50	<0.5 <sup>a</sup>	<100 <sup>a</sup>	NA
MW7	11/04/04	351.87	12.08	339.79	0.00	<0.5	<0.5	<0.5	<0.5	<50	d	<50	<0.5 <sup>a</sup>	<100 <sup>a</sup>	ND <sup>c</sup>
MW7	02/16/05	351.87	9.73	342.14	0.00	<0.50	<0.5	<0.5	<0.5	<50.0	d	<50	<0.50 <sup>a</sup>	<100 <sup>a</sup>	NA
MW7	05/16/05	351.87	8.87	343.00	0.00	<0.5	<0.5	<0.5	<0.5	<50	d	<50	<0.50 <sup>a</sup>	<100 <sup>a</sup>	NA
MW7	08/17/05	351.87	10.73	341.14	0.00	<0.5	<0.5	<0.5	0.880	<50	d	<50	<0.50 <sup>a</sup>	<100 <sup>a</sup>	NA

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

Well Number	Date	Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Concentration (µg/L)								Other Oxygenates and Additives	
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	MTBE	Ethanol		
MW7	11/17/05	351.87	12.63	339.24	0.00	<0.5	<0.5	<0.5	<0.5	<50	d	<50	<0.50 <sup>a</sup>	<50 <sup>a</sup>	ND <sup>c</sup>
MW7	02/06/06	351.87	10.65	341.22	0.00	<0.5	<0.5	<0.5	<0.5	<50	d	<50	<0.50 <sup>a</sup>	NA	ND <sup>c</sup>
MW7	05/03/06	351.87	8.45	343.42	0.00	<0.50	<0.50	<0.50	<0.50	<50.0	d	<47	<1.00 <sup>a</sup>	NA	ND <sup>c</sup>
MW7	08/04/06	351.87	10.81	341.06	0.00	<0.50	<0.50	<0.50	<0.50	<50.0	d	<47.2	<0.500 <sup>a</sup>	NA	ND <sup>c</sup>

a Analysis by EPA Method 8260.

b A peak eluting earlier than benzene, suspected to be MTBE.

c Other oxygenates and additives include diisopropyl ether, t-butyl alcohol, tert-amyl methyl ether, tert-butyl ethyl ether, 1,2-dibromoethane, and 1,2-dichloroethane.

d TPH-g results beginning February 2002 include MTBE.

e Sample bottles broken in transit to laboratory.

LPH Liquid-phase hydrocarbons.

TPH-g Total Petroleum Hydrocarbons as gasoline.

TPH-d Total Petroleum Hydrocarbons as diesel.

MTBE Methyl tertiary butyl ether.

NA Not analyzed.

ND Not detected.

NS Not sampled.

µg/L Micrograms per liter.



TABLE 3 GROUNDWATER MONITORING PLAN,  
 FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

Well Number	Groundwater Gauging Frequency	Groundwater Sampling and Analysis Frequency		
		BTEX and TPH-g	TPH-d	MTBE
MW5	Q	Q	Q	Q
MW6	Q	Q	Q	Q
MW7	Q	Q	Q	Q

Q = Quarterly.

BTEX = Benzene, toluene, ethylbenzene, total xylenes.

TPH-g = Total Petroleum Hydrocarbons as gasoline.

TPH-d = Total Petroleum Hydrocarbons as diesel.

MTBE = Methyl tertiary butyl ether.

**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**





Engineering, Inc.

**GROUNDWATER PURGE AND SAMPLE**

Project Name: Exxon 7-0210 Well No: MWS Date: 08/04/06  
 Project No: UP0210.1 Personnel: AHMAD A

**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)
		24.32	11.91	12.41	1	2	4	6	198
				0.04	0.16	0.64	1.44		

**PURGING DATA**

Purge Method: WATERRA / SUB / BAILER

Time	Volume Purge (gal)	Temperature (C)	pH	Spec. Cond. (umhos)	Turbidity/Color	Odor (Y/N)	Dewatered (Y/N)
07.23	2	18.9	6.72	972	CLEAR / NL	N	N
07.28	4	19.8	6.70	976	CLEAR / NL	N	N
07.33	6	20.2	6.71	959	CLEAR / NL	N	N

Comments/Observations:

**SAMPLING DATA**

Time Sampled: 07.40 Approximate Depth to Water During Sampling: 14 (feet)

Comments:

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

Total Purge Volume: 6 (gallons) Disposal: ROMIC

Weather Conditions: OK X BOLTS Y / (N)  
 Condition of Well Box and Casing at Time of Sampling: OK LOCK & CAP (Y) / N  
 Well Head Conditions Requiring Correction: NO GROUT (Y) / N  
 Problems Encountered During Purging and Sampling: NO WELL BOX (Y) / N  
 Comments: WSECURED (Y) / N



Engineering, Inc.

**GROUNDWATER PURGE AND SAMPLE**

Project Name: Exxon 7-0210 Well No: MWE Date: 8/4/06  
 Project No: UP0210.1 Personnel: A.M.A.

**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)
	24.77	11.89	12.88	1	2	4	6	2.06	618
				0.04	0.16	0.64	1.44		

**PURGING DATA**

Purge Method: WATERRA SUB / BAILER

Time	0845	0848	0851			
Volume Purge (gal)	2.25	4.5	6.75			
Temperature (C)	19.6	19.2	19.9			
pH	6.76	6.75	6.78			
Spec. Cond. (umhos)	931	937	943			
Turbidity/Color	<del>CLEAR</del> N/C	<del>CLEAR</del> N/C	<del>CLEAR</del> N/C			
Odor (Y/N)	N	N	N			
Dewatered (Y/N)	N	N	N			

Comments/Observations:

**SAMPLING DATA**

Time Sampled: 0900 Approximate Depth to Water During Sampling: 14 (feet)

Comments:

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

Total Purge Volume: 6.75 (gallons) Disposal: ROMIC

Weather Conditions: O.K BOLTS (Y) / N

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

Well Head Conditions Requiring Correction: NO GROUT (Y) / N

Problems Encountered During Purging and Sampling: NO WELL BOX (Y) / N

Comments: WSECURED (Y) / N



Engineering, Inc.

**GROUNDWATER PURGE AND SAMPLE**

Project Name: Exxon 7-0210 Well No: MW7 Date: 8/04/06  
 Project No: UP0210.1 Personnel: AHMA

**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)
		23.73	10.81	12.92	1 0.04	2 0.16	4 0.64	6 1.44	2.06

**PURGING DATA**  
 Purge Method: WATERRA / SUB / BAILER

Time	0803	0807	0811			
Volume Purge (gal)	2.25	4.5	6.75			
Temperature (C)	19.3	20.1	20.2			
pH	6.67	6.65	6.66			
Spec. Cond. (umhos)	990	1001	996			
Turbidity/Color	CLEAR N/C	CLEAR N/C	CLEAR N/C			
Odor (Y/N)	N	N	N			
Dewatered (Y/N)	N	N	N			

Comments/Observations:

**SAMPLING DATA**  
 Time Sampled: 0820 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
MW7	6	Voa	HCL	40 ml		TPH-g, BTEX, MTBE
MW7	2	Amber	HCL	1 L		TPH-d

Total Purge Volume: 6.75 (gallons) Disposal: ROMIC

Weather Conditions: O.K BOLTS (Y) / N  
 Condition of Well Box and Casing at Time of Sampling: O.K LOCK & CAP (Y) / N  
 Well Head Conditions Requiring Correction: NO GROUT (Y) / N  
 Problems Encountered During Purging and Sampling: NO WELL BOX (Y) / N  
 Comments: WSECURED (Y) / N



## **Appendix C**

### **Laboratory Analytical Reports**

August 21, 2006

Client: ETIC Engineering Pleasant Hill (10236)  
2285 Morello Avenue  
Pleasant Hill, CA 94523  
Attn: Ted Moise

Work Order: NPH1241  
Project Name: Exxon 7-0210 PO:4505802123  
Project Nbr: 7-0210  
P/O Nbr: 4505802123  
Date Received: 08/08/06

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
MW5	NPH1241-01	08/04/06 07:40
MW6	NPH1241-02	08/04/06 09:00
MW7	NPH1241-03	08/04/06 08:20

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

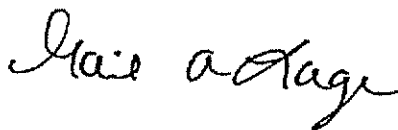
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California Certification Number: 01168CA

The Chain(s) of Custody, 5 pages, are included and are an integral part of this report

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory

Report Approved By:



Gail A Lage  
Senior Project Manager

Client ETIC Engineering Pleasant Hill (10236)  
 2285 Morello Avenue  
 Pleasant Hill, CA 94523  
 Attn Ted Moise

Work Order: NPH1241  
 Project Name: Exxon 7-0210 PO:4505802123  
 Project Number: 7-0210  
 Received: 08/08/06 07:50

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
<b>Sample ID: NPH1241-01 (MW5 - Ground Water) Sampled: 08/04/06 07:40</b>								
Volatile Organic Compounds by EPA Method 8021B								
Benzene	ND		ug/L	0.50	1	08/14/06 02:37	SW846 8021B	6082217
Ethylbenzene	ND		ug/L	0.50	1	08/14/06 02:37	SW846 8021B	6082217
Toluene	ND		ug/L	0.50	1	08/14/06 02:37	SW846 8021B	6082217
Xylenes, total	ND		ug/L	0.50	1	08/14/06 02:37	SW846 8021B	6082217
<i>Surr. a.a.a-Trifluorotoluene (63-134%)</i>	<i>97 %</i>					<i>08/14/06 02:37</i>	<i>SW846 8021B</i>	<i>6082217</i>
Volatile Organic Compounds by EPA Method 8260B								
Tert-Amyl Methyl Ether	ND		ug/L	0.500	1	08/17/06 22:36	SW846 8260B	6083224
1,2-Dibromoethane (EDB)	ND		ug/L	0.500	1	08/17/06 22:36	SW846 8260B	6083224
1,2-Dichloroethane	ND		ug/L	0.500	1	08/17/06 22:36	SW846 8260B	6083224
Ethyl tert-Butyl Ether	ND		ug/L	0.500	1	08/17/06 22:36	SW846 8260B	6083224
Diisopropyl Ether	ND		ug/L	0.500	1	08/17/06 22:36	SW846 8260B	6083224
Methyl tert-Butyl Ether	ND		ug/L	0.500	1	08/17/06 22:36	SW846 8260B	6083224
Tertiary Butyl Alcohol	ND		ug/L	10.0	1	08/17/06 22:36	SW846 8260B	6083224
<i>Surr. 1,2-Dichloroethane-d4 (70-130%)</i>	<i>84 %</i>					<i>08/17/06 22:36</i>	<i>SW846 8260B</i>	<i>6083224</i>
<i>Surr. Dibromofluoromethane (79-122%)</i>	<i>101 %</i>					<i>08/17/06 22:36</i>	<i>SW846 8260B</i>	<i>6083224</i>
<i>Surr. Toluene-d8 (78-121%)</i>	<i>103 %</i>					<i>08/17/06 22:36</i>	<i>SW846 8260B</i>	<i>6083224</i>
<i>Surr. 4-Bromofluorobenzene (78-126%)</i>	<i>100 %</i>					<i>08/17/06 22:36</i>	<i>SW846 8260B</i>	<i>6083224</i>
Purgeable Petroleum Hydrocarbons								
GRO as Gasoline	ND		ug/L	50.0	1	08/14/06 02:37	SW846 8015B	6082217
<i>Surr. a.a.a-Trifluorotoluene (63-134%)</i>	<i>97 %</i>					<i>08/14/06 02:37</i>	<i>SW846 8015B</i>	<i>6082217</i>
Extractable Petroleum Hydrocarbons with Silica Gel Treatment								
Diesel	ND		ug/L	48.5	1	08/15/06 20:12	SW846 8015B	6081836
<i>Surr. o-Terphenyl (55-150%)</i>	<i>71 %</i>					<i>08/15/06 20:12</i>	<i>SW846 8015B</i>	<i>6081836</i>
<b>Sample ID: NPH1241-02 (MW6 - Ground Water) Sampled: 08/04/06 09:00</b>								
Volatile Organic Compounds by EPA Method 8021B								
Benzene	ND		ug/L	0.50	1	08/14/06 02:51	SW846 8021B	6082217
Ethylbenzene	ND		ug/L	0.50	1	08/14/06 02:51	SW846 8021B	6082217
Toluene	ND		ug/L	0.50	1	08/14/06 02:51	SW846 8021B	6082217
Xylenes, total	ND		ug/L	0.50	1	08/14/06 02:51	SW846 8021B	6082217
<i>Surr. a.a.a-Trifluorotoluene (63-134%)</i>	<i>93 %</i>					<i>08/14/06 02:51</i>	<i>SW846 8021B</i>	<i>6082217</i>
Volatile Organic Compounds by EPA Method 8260B								
Tert-Amyl Methyl Ether	ND		ug/L	0.500	1	08/17/06 23:00	SW846 8260B	6083224
1,2-Dibromoethane (EDB)	ND		ug/L	0.500	1	08/17/06 23:00	SW846 8260B	6083224
1,2-Dichloroethane	ND		ug/L	0.500	1	08/17/06 23:00	SW846 8260B	6083224
Ethyl tert-Butyl Ether	ND		ug/L	0.500	1	08/17/06 23:00	SW846 8260B	6083224
Diisopropyl Ether	ND		ug/L	0.500	1	08/17/06 23:00	SW846 8260B	6083224
Methyl tert-Butyl Ether	1.55		ug/L	0.500	1	08/17/06 23:00	SW846 8260B	6083224
Tertiary Butyl Alcohol	ND		ug/L	10.0	1	08/17/06 23:00	SW846 8260B	6083224
<i>Surr. 1,2-Dichloroethane-d4 (70-130%)</i>	<i>85 %</i>					<i>08/17/06 23:00</i>	<i>SW846 8260B</i>	<i>6083224</i>
<i>Surr. Dibromofluoromethane (79-122%)</i>	<i>103 %</i>					<i>08/17/06 23:00</i>	<i>SW846 8260B</i>	<i>6083224</i>
<i>Surr. Toluene-d8 (78-121%)</i>	<i>103 %</i>					<i>08/17/06 23:00</i>	<i>SW846 8260B</i>	<i>6083224</i>

Client ETIC Engineering Pleasant Hill (10236)  
 2285 Morello Avenue  
 Pleasant Hill, CA 94523  
 Attn Ted Moise

Work Order: NPH1241  
 Project Name: Exxon 7-0210 PO:4505802123  
 Project Number: 7-0210  
 Received: 08/08/06 07:50

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
<b>Sample ID: NPH1241-02 (MW6 - Ground Water) - cont. Sampled: 08/04/06 09:00</b>								
Volatile Organic Compounds by EPA Method 8260B - cont								
Surr: 4-Bromofluorobenzene (78-126%)	100 %					08/17/06 23:00	SW846 8260B	6083224
Purgeable Petroleum Hydrocarbons								
GRO as Gasoline	ND		ug/L	50.0	1	08/14/06 02:51	SW846 8015B	6082217
Surr: a.a.a-Trifluorotoluene (63-134%)	93 %					08/14/06 02:51	SW846 8015B	6082217
Extractable Petroleum Hydrocarbons with Silica Gel Treatment								
Diesel	ND		ug/L	47.2	1	08/15/06 20:31	SW846 8015B	6081836
Surr: o-Terphenyl (55-150%)	66 %					08/15/06 20:31	SW846 8015B	6081836
<b>Sample ID: NPH1241-03 (MW7 - Ground Water) Sampled: 08/04/06 08:20</b>								
Volatile Organic Compounds by EPA Method 8021B								
Benzene	ND		ug/L	0.50	1	08/14/06 03:06	SW846 8021B	6082217
Ethylbenzene	ND		ug/L	0.50	1	08/14/06 03:06	SW846 8021B	6082217
Toluene	ND		ug/L	0.50	1	08/14/06 03:06	SW846 8021B	6082217
Xylenes, total	ND		ug/L	0.50	1	08/14/06 03:06	SW846 8021B	6082217
Surr: a.a.a-Trifluorotoluene (63-134%)	96 %					08/14/06 03:06	SW846 8021B	6082217
Volatile Organic Compounds by EPA Method 8260B								
Tert-Amyl Methyl Ether	ND		ug/L	0.500	1	08/17/06 23:23	SW846 8260B	6083224
1,2-Dibromoethane (EDB)	ND		ug/L	0.500	1	08/17/06 23:23	SW846 8260B	6083224
1,2-Dichloroethane	ND		ug/L	0.500	1	08/17/06 23:23	SW846 8260B	6083224
Ethyl tert-Butyl Ether	ND		ug/L	0.500	1	08/17/06 23:23	SW846 8260B	6083224
Diisopropyl Ether	ND		ug/L	0.500	1	08/17/06 23:23	SW846 8260B	6083224
Methyl tert-Butyl Ether	ND		ug/L	0.500	1	08/17/06 23:23	SW846 8260B	6083224
Tertiary Butyl Alcohol	ND		ug/L	10.0	1	08/17/06 23:23	SW846 8260B	6083224
Surr: 1,2-Dichloroethane-d4 (70-130%)	85 %					08/17/06 23:23	SW846 8260B	6083224
Surr: Dibromofluoromethane (79-122%)	100 %					08/17/06 23:23	SW846 8260B	6083224
Surr: Toluene-d8 (78-121%)	103 %					08/17/06 23:23	SW846 8260B	6083224
Surr: 4-Bromofluorobenzene (78-126%)	100 %					08/17/06 23:23	SW846 8260B	6083224
Purgeable Petroleum Hydrocarbons								
GRO as Gasoline	ND		ug/L	50.0	1	08/14/06 03:06	SW846 8015B	6082217
Surr: a.a.a-Trifluorotoluene (63-134%)	96 %					08/14/06 03:06	SW846 8015B	6082217
Extractable Petroleum Hydrocarbons with Silica Gel Treatment								
Diesel	ND		ug/L	47.2	1	08/15/06 20:50	SW846 8015B	6081836
Surr: o-Terphenyl (55-150%)	76 %					08/15/06 20:50	SW846 8015B	6081836

Client ETIC Engineering Pleasant Hill (10236)  
2285 Morello Avenue  
Pleasant Hill, CA 94523  
Attn Ted Moise

Work Order: NPH1241  
Project Name: Exxon 7-0210 PO:4505802123  
Project Number: 7-0210  
Received: 08/08/06 07:50

### SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
Extractable Petroleum Hydrocarbons with Silica Gel Treatment							
SW846 8015B	6081836	NPH1241-01	1030 00	1 00	08/09/06 19:10	LRW	EPA 3510C
SW846 8015B	6081836	NPH1241-02	1060 00	1 00	08/09/06 19:10	LRW	EPA 3510C
SW846 8015B	6081836	NPH1241-03	1060 00	1 00	08/09/06 19:10	LRW	EPA 3510C

Client ETIC Engineering Pleasant Hill (10236)  
 2285 Morello Avenue  
 Pleasant Hill, CA 94523  
 Attn Ted Moise

Work Order: NPH1241  
 Project Name: Exxon 7-0210 PO:4505802123  
 Project Number: 7-0210  
 Received: 08/08/06 07:50

**PROJECT QUALITY CONTROL DATA**  
**Blank**

Analyte	Blank Value	Q	Units	Q C Batch	Lab Number	Analyzed Date/Time
<b>Volatile Organic Compounds by EPA Method 8021B</b>						
<b>6082217-BLK1</b>						
Benzene	<0.42		ug/L	6082217	6082217-BLK1	08/14/06 00:43
Ethylbenzene	<0.36		ug/L	6082217	6082217-BLK1	08/14/06 00:43
Toluene	<0.36		ug/L	6082217	6082217-BLK1	08/14/06 00:43
Xylenes, total	<0.36		ug/L	6082217	6082217-BLK1	08/14/06 00:43
Surrogate: <i>a,a</i> -Trifluorotoluene	95%			6082217	6082217-BLK1	08/14/06 00:43
<b>Volatile Organic Compounds by EPA Method 8260B</b>						
<b>6083224-BLK1</b>						
Tert-Amyl Methyl Ether	<0.200		ug/L	6083224	6083224-BLK1	08/17/06 22:12
1,2-Dibromoethane (EDB)	<0.250		ug/L	6083224	6083224-BLK1	08/17/06 22:12
1,2-Dichloroethane	<0.390		ug/L	6083224	6083224-BLK1	08/17/06 22:12
Ethyl tert-Butyl Ether	<0.200		ug/L	6083224	6083224-BLK1	08/17/06 22:12
Diisopropyl Ether	<0.200		ug/L	6083224	6083224-BLK1	08/17/06 22:12
Methyl tert-Butyl Ether	<0.200		ug/L	6083224	6083224-BLK1	08/17/06 22:12
Tertiary Butyl Alcohol	<5.06		ug/L	6083224	6083224-BLK1	08/17/06 22:12
Surrogate: 1,2-Dichloroethane- <i>d4</i>	85%			6083224	6083224-BLK1	08/17/06 22:12
Surrogate: Dibromofluoromethane	101%			6083224	6083224-BLK1	08/17/06 22:12
Surrogate: Toluene- <i>d8</i>	102%			6083224	6083224-BLK1	08/17/06 22:12
Surrogate: 4-Bromofluorobenzene	99%			6083224	6083224-BLK1	08/17/06 22:12
<b>Purgeable Petroleum Hydrocarbons</b>						
<b>6082217-BLK1</b>						
GRO as Gasoline	<33.0		ug/L	6082217	6082217-BLK1	08/14/06 00:43
Surrogate: <i>a,a</i> -Trifluorotoluene	95%			6082217	6082217-BLK1	08/14/06 00:43
<b>Extractable Petroleum Hydrocarbons with Silica Gel Treatment</b>						
<b>6081836-BLK1</b>						
Diesel	<33.0		ug/L	6081836	6081836-BLK1	08/15/06 19:14
Surrogate: <i>o</i> -Terphenyl	70%			6081836	6081836-BLK1	08/15/06 19:14

Client ETIC Engineering Pleasant Hill (10236)  
 2285 Morello Avenue  
 Pleasant Hill, CA 94523  
 Attn Ted Moise

Work Order: NPH1241  
 Project Name: Exxon 7-0210 PO:4505802123  
 Project Number: 7-0210  
 Received: 08/08/06 07:50

**PROJECT QUALITY CONTROL DATA**  
**LCS**

Analyte	Known Val	Analyzed Val	Q	Units	% Rec	Target Range	Batch	Analyzed Date/Time
<b>Volatile Organic Compounds by EPA Method 8021B</b>								
<b>6082217-BS1</b>								
Benzene	100	90.4		ug/L	90%	77 - 122	6082217	08/14/06 07:08
Ethylbenzene	100	95.3		ug/L	95%	77 - 121	6082217	08/14/06 07:08
Toluene	100	93.2		ug/L	93%	74 - 121	6082217	08/14/06 07:08
Xylenes, total	200	189		ug/L	94%	72 - 121	6082217	08/14/06 07:08
Surrogate: <i>a.a.a-Trifluorotoluene</i>	30.0	29.6			99%	63 - 134	6082217	08/14/06 07:08
<b>Volatile Organic Compounds by EPA Method 8260B</b>								
<b>6083224-BS1</b>								
Tert-Amyl Methyl Ether	50.0	49.7		ug/L	99%	56 - 145	6083224	08/17/06 21:00
1,2-Dibromoethane (EDB)	50.0	53.5		ug/L	107%	75 - 128	6083224	08/17/06 21:00
1,2-Dichloroethane	50.0	40.4		ug/L	81%	74 - 131	6083224	08/17/06 21:00
Ethyl tert-Butyl Ether	50.0	45.1		ug/L	90%	64 - 141	6083224	08/17/06 21:00
Diisopropyl Ether	50.0	41.8		ug/L	84%	73 - 135	6083224	08/17/06 21:00
Methyl tert-Butyl Ether	50.0	45.6		ug/L	91%	66 - 142	6083224	08/17/06 21:00
Tertiary Butyl Alcohol	500	521		ug/L	104%	42 - 154	6083224	08/17/06 21:00
Surrogate: <i>1,2-Dichloroethane-d4</i>	50.0	42.2			84%	70 - 130	6083224	08/17/06 21:00
Surrogate: <i>Dibromofluoromethane</i>	50.0	51.1			102%	79 - 122	6083224	08/17/06 21:00
Surrogate: <i>Toluene-d8</i>	50.0	51.5			103%	78 - 121	6083224	08/17/06 21:00
Surrogate: <i>4-Bromofluorobenzene</i>	50.0	50.8			102%	78 - 126	6083224	08/17/06 21:00
<b>Purgeable Petroleum Hydrocarbons</b>								
<b>6082217-BS2</b>								
GRO as Gasoline	1000	899		ug/L	90%	68 - 128	6082217	08/14/06 07:36
Surrogate: <i>a.a.a-Trifluorotoluene</i>	30.0	31.1			104%	63 - 134	6082217	08/14/06 07:36
<b>Extractable Petroleum Hydrocarbons with Silica Gel Treatment</b>								
<b>6081836-BS1</b>								
Diesel	1000	682		ug/L	68%	49 - 118	6081836	08/15/06 19:34
Surrogate: <i>o-Terphenyl</i>	20.0	14.7			74%	55 - 150	6081836	08/15/06 19:34

Client ETIC Engineering Pleasant Hill (10236)  
 2285 Morello Avenue  
 Pleasant Hill, CA 94523  
 Attn Ted Moise

Work Order: NPH1241  
 Project Name: Exxon 7-0210 PO:4505802123  
 Project Number: 7-0210  
 Received: 08/08/06 07:50

**PROJECT QUALITY CONTROL DATA**  
**Matrix Spike**

Analyte	Orig Val	MS Val	Q	Units	Spike Conc	% Rec	Target Range	Batch	Sample Spiked	Analyzed Date/Time
<b>Volatile Organic Compounds by EPA Method 8260B</b>										
<b>6083224-MS1</b>										
Tert-Amyl Methyl Ether	ND	52.3		ug/L	50.0	105%	45 - 155	6083224	NPH1271-06	08/18/06 05:44
1,2-Dibromoethane (EDB)	ND	57.7		ug/L	50.0	115%	71 - 138	6083224	NPH1271-06	08/18/06 05:44
1,2-Dichloroethane	ND	44.9		ug/L	50.0	90%	70 - 140	6083224	NPH1271-06	08/18/06 05:44
Ethyl tert-Butyl Ether	ND	49.4		ug/L	50.0	99%	57 - 148	6083224	NPH1271-06	08/18/06 05:44
Diisopropyl Ether	ND	47.7		ug/L	50.0	95%	67 - 143	6083224	NPH1271-06	08/18/06 05:44
Methyl tert-Butyl Ether	1.27	49.6		ug/L	50.0	97%	55 - 152	6083224	NPH1271-06	08/18/06 05:44
Tertiary Butyl Alcohol	36.5	47.2		ug/L	50.0	87%	19 - 183	6083224	NPH1271-06	08/18/06 05:44
Surrogate 1,2-Dichloroethane-d4		42.3		ug/L	50.0	85%	70 - 130	6083224	NPH1271-06	08/18/06 05:44
Surrogate Dibromofluoromethane		51.2		ug/L	50.0	102%	79 - 122	6083224	NPH1271-06	08/18/06 05:44
Surrogate Toluene-d8		51.7		ug/L	50.0	103%	78 - 121	6083224	NPH1271-06	08/18/06 05:44
Surrogate 4-Bromofluorobenzene		49.2		ug/L	50.0	98%	78 - 126	6083224	NPH1271-06	08/18/06 05:44



Client ETIC Engineering Pleasant Hill (10236)  
 2285 Morello Avenue  
 Pleasant Hill, CA 94523  
 Attn Ted Moise

Work Order: NPH1241  
 Project Name: Exxon 7-0210 PO:4505802123  
 Project Number: 7-0210  
 Received: 08/08/06 07:50

**PROJECT QUALITY CONTROL DATA**

**Matrix Spike Dup**

Analyte	Orig Val	Duplicate	Q	Units	Spike Conc	% Rec	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
<b>Volatile Organic Compounds by EPA Method 8260B</b>												
<b>6083224-MSD1</b>												
Tert-Amyl Methyl Ether	ND	52.9		ug/L	50.0	106%	45 - 155	1	24	6083224	NPH1271-06	08/18/06 06:07
1,2-Dibromoethane (EDB)	ND	56.9		ug/L	50.0	114%	71 - 138	1	27	6083224	NPH1271-06	08/18/06 06:07
1,2-Dichloroethane	ND	45.6		ug/L	50.0	91%	70 - 140	2	21	6083224	NPH1271-06	08/18/06 06:07
Ethyl tert-Butyl Ether	ND	49.7		ug/L	50.0	99%	57 - 148	0.6	22	6083224	NPH1271-06	08/18/06 06:07
Diisopropyl Ether	ND	48.0		ug/L	50.0	96%	67 - 143	0.6	22	6083224	NPH1271-06	08/18/06 06:07
Methyl tert-Butyl Ether	1.27	49.5		ug/L	50.0	96%	55 - 152	0.2	27	6083224	NPH1271-06	08/18/06 06:07
Tertiary Butyl Alcohol	36.5	48.3		ug/L	50.0	89%	19 - 183	2	39	6083224	NPH1271-06	08/18/06 06:07
Surrogate 1,2-Dichloroethane-d4		42.4		ug/L	50.0	85%	70 - 130			6083224	NPH1271-06	08/18/06 06:07
Surrogate Dibromofluoromethane		51.3		ug/L	50.0	103%	79 - 122			6083224	NPH1271-06	08/18/06 06:07
Surrogate Toluene-d8		51.6		ug/L	50.0	103%	78 - 121			6083224	NPH1271-06	08/18/06 06:07
Surrogate 4-Bromofluorobenzene		50.9		ug/L	50.0	102%	78 - 126			6083224	NPH1271-06	08/18/06 06:07

Client ETIC Engineering Pleasant Hill (10236)  
2285 Morello Avenue  
Pleasant Hill, CA 94523  
Attn Ted Moise

Work Order: NPH1241  
Project Name: Exxon 7-0210 PO:4505802123  
Project Number: 7-0210  
Received: 08/08/06 07:50

### CERTIFICATION SUMMARY

TestAmerica - Nashville, TN

Method	Matrix	AIHA	Nelac	California
NA	Water			
SW846 8015B	Water			
SW846 8015B	Water	N/A	X	X
SW846 8021B	Water	N/A	X	X
SW846 8260B	Water	N/A	X	X

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Client ETIC Engineering Pleasant Hill (10236)  
2285 Morello Avenue  
Pleasant Hill, CA 94523

Work Order: NPH1241  
Project Name: Exxon 7-0210 PO:4505802123  
Project Number: 7-0210  
Received: 08/08/06 07:50

Attn Ted Moise

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## NELAC CERTIFICATION SUMMARY

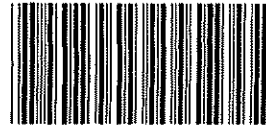
TestAmerica Analytical - Nashville does not hold NELAC certifications for the following analytes included in this report

<u>Method</u>	<u>Matrix</u>	<u>Analyte</u>
SW846 8015B	Water	Diesel



Nashville Division  
COOLER RECEIPT FORM

BC#



NPH1241

Cooler Received/Opened On: 8/8/06@7:50

1. Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name of Courier below: 0735

Fed Ex

Temperature of representative sample or temperature blank when opened: 4.0 Degrees Celsius  
(indicate IR Gun ID#)

101282

3. Were custody seals on outside of cooler? YES...NO...NA

a. If yes, how many and where: 2 Front

4. Were the seals intact, signed, and dated correctly? YES...NO...NA

5. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-5 (initial).....

6. Were custody seals on containers: YES NO and Intact YES NO NO  
were these signed, and dated correctly? YES...NO...NA

7. What kind of packing material used? Bubble wrap Peanuts Vermiculite Foam Insert  
Plastic bag Paper Other \_\_\_\_\_ None

8. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

9. Did all containers arrive in good condition ( unbroken)? YES...NO...NA

10. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

11. Did all container labels and tags agree with custody papers? YES...NO...NA

12. a. Were VOA vials received? YES...NO...NA

b. Was there any observable head space present in any VOA vial? YES NO...NA

I certify that I unloaded the cooler and answered questions 6-12 (initial).....

13. a. On preserved bottles did the pH test strips suggest that preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used? YES...NO...NA

If preservation in-house was needed, record standard ID of preservative used here \_\_\_\_\_

14. Was residual chlorine present? YES NO NO

I certify that I checked for chlorine and pH as per SOP and answered questions 13-14 (initial).....

15. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

16. Did you sign the custody papers in the appropriate place? YES...NO...NA

17. Were correct containers used for the analysis requested? YES...NO...NA

18. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 15-18 (initial).....

I certify that I attached a label with the unique LIMS number to each container (initial).....

19. Were there Non-Conformance issues at login YES NO Was a PIPE generated YES NO # \_\_\_\_\_



**Nashville Division**  
**COOLER RECEIPT FORM**

BC#

Cooler Received/Opened On: August 8, 2006 @ 07:50

1. Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name of Courier below: 7342

Fed-Ex  UPS      Velocity      DHL      Route      Off-street      Misc.

2. Temperature of representative sample or temperature blank when opened: -0.7 Degrees Celsius  
(indicate IR Gun ID#)

NA      A00466      A00750      A01124      100190      101282      Raynger ST

3. Were custody seals on outside of cooler?  YES  NO  NA

a. If yes, how many and where: 2 - FRONT

4. Were the seals intact, signed, and dated correctly?  YES  NO  NA

5. Were custody papers inside cooler?  YES  NO  NA

I certify that I opened the cooler and answered questions 1-5 (initial)

6. Were custody seals on containers: YES  NO  and Intact YES  NO  NA

were these signed, and dated correctly? YES  NO  NA

7. What kind of packing material used?  Bubblewrap      Peanuts      Vermiculite      Foam Insert

Plastic bag      Paper      Other \_\_\_\_\_      None

8. Cooling process:  Ice      Ice-pack      Ice (direct contact)      Dry ice      Other      None

9. Did all containers arrive in good condition (unbroken)?  YES  NO  NA

10. Were all container labels complete (#, date, signed, pres., etc)?  YES  NO  NA

11. Did all container labels and tags agree with custody papers?  YES  NO  NA

12. a. Were VOA vials received?  YES  NO  NA

b. Was there any observable head space present in any VOA vial?  YES  NO  NA

I certify that I unloaded the cooler and answered questions 6-12 (initial)

13. a. On preserved bottles did the pH test strips suggest that preservation reached the correct pH level?  YES  NO  NA

b. Did the bottle labels indicate that the correct preservatives were used?  YES  NO  NA

If preservation in-house was needed, record standard ID of preservative used here \_\_\_\_\_

14. Was residual chlorine present?  YES  NO  NA

I certify that I checked for chlorine and pH as per SOP and answered questions 13-14 (initial)

15. Were custody papers properly filled out (ink, signed, etc)?  YES  NO  NA

16. Did you sign the custody papers in the appropriate place?  YES  NO  NA

17. Were correct containers used for the analysis requested?  YES  NO  NA

18. Was sufficient amount of sample sent in each container?  YES  NO  NA

I certify that I entered this project into LIMS and answered questions 15-18 (initial)

I certify that I attached a label with the unique LIMS number to each container (initial)

19. Were there Non-Conformance issues at login YES  NO  Was a PIPE generated YES  # \_\_\_\_\_

BIS = Broken in shipment  
Cooler Receipt Form



## SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: ETC  
 REC. BY (PRINT) EH  
 WORKORDER: \_\_\_\_\_

DATE REC'D AT LAB: 8/4/06  
 TIME REC'D AT LAB: 1820  
 DATE LOGGED IN: \_\_\_\_\_

For Regulatory Purposes?  
 DRINKING WATER YES/NO  YES  NO  
 WASTE WATER YES/NO  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 / <input checked="" type="radio"/> Absent Intact / Broken*			MW 5	2 NUMBER	—	—	L	8/4	
2. Chain-of-Custody <input checked="" type="radio"/> Present / Absent*			MW 6	2 JARS	HCL	↓	↓	↓	
3. Traffic Reports or Packing List: Present / <input checked="" type="radio"/> Absent			MW 7	↓	↓	↓	↓	↓	
4. Airbill: Airbill / Sticker Present / <input checked="" type="radio"/> Absent									
5. Airbill #:									
6. Sample Labels: <input checked="" type="radio"/> Present / Absent									
7. Sample IDs: Listed / Not Listed on Chain-of-Custody									
8. Sample Condition: <input checked="" type="radio"/> Intact / Broken* / Leaking*									
9. Does information on chain-of-custody, traffic reports and sample labels agree? <input checked="" type="radio"/> Yes / No*									
10. Sample received within hold time? <input checked="" type="radio"/> Yes / No*									
11. Adequate sample volume received? <input checked="" type="radio"/> Yes / No*									
12. Proper preservatives used? <input checked="" type="radio"/> Yes / No*									
13. Trip Blank / Temp Blank Received? (circle which, if yes) <input checked="" type="radio"/> Yes / No*									
14. Read Temp: <u>3.2</u> Corrected Temp: _____ Is corrected temp 4 +/-2°C? <input checked="" type="radio"/> Yes / No**									

8/4/06 EH

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