



**Eric Hetrick**  
Project Manager  
Marketing Business Unit

**Chevron Environmental  
Management Company**  
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San Ramon, CA 94583  
Tel (925) 790-6491  
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January 30, 2015

**RECEIVED**

*By Alameda County Environmental Health at 1:30 pm, Feb 02, 2015*

Alameda County Health Care Services  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

Re: Former Chevron Service Station 95607  
5269 Crow Canyon Road  
Castro Valley, CA  
ACEH Case #RO 0350

I have reviewed the attached Monthly Remedial Progress Report - December 2014.

The information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This report was prepared by Conestoga Rovers Associates, upon whose assistance and advice I have relied.

This letter is submitted pursuant to the requirements of California Water Code Section 13267(b)(1) and the regulating implementation entitled Appendix A pertaining thereto.

I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge.

Sincerely,

A handwritten signature in black ink, appearing to read "Eric Hetrick".

Eric Hetrick  
Project Manager

Attachment: Monthly Remedial Progress Report - December 2014



**CONESTOGA-ROVERS  
& ASSOCIATES**

5900 Hollis Street, Suite A  
Emeryville, California 94608  
Telephone: (510) 420-0700 Fax: (510) 420-9170  
<http://www.craworld.com>

January 30, 2015

Reference No. 311950

Mr. Mark Detterman  
Alameda County Environmental Health Services  
1131 Harbor Bay Parkway  
Alameda, California 94502

Re: Monthly Remedial Progress Report - December 2014  
Former Chevron Station 95607  
5269 Crow Canyon Road  
Castro Valley, California  
Fuel Leak Case RO0350

Dear Mr. Detterman:

Conestoga-Rovers & Associates (CRA), on behalf of Chevron Environmental Management Company (Chevron), is providing this *Monthly Remedial Progress Report - December 2014* (Report), for the site referenced above (Figure 1). This report was prepared in accordance with Alameda County Environmental Health Services (ACEHS) Approval of the Remedial Action Plan, dated December 11, 2013. This report includes a summary of the DPE system operations conducted in the month of December 2014 and cumulatively (Tables 1 through 4).

DPE system compliance testing and sampling was performed on December 2, 2014 in accordance with system operational permits. During the reporting period, approximately 1,059 pounds of total petroleum hydrocarbons as gasoline (TPHg) and 11 pounds of benzene were removed in vapor phase (Table 4), and approximately 3.7 pounds of TPHg and 0.4 pounds were removed in dissolved phase (Table 2). A summary of the DPE system operational performance for the month of December 2014 is presented below.

**VAPOR-PHASE EXTRACTION DATA-DECEMBER 2014**

Soil Vapor Influent Flow Rate (avg scfm)	124 scfm
Soil Vapor Laboratory Influent Concentrations (TPHg ppmv)	1,000 ppmv
Soil Vapor Laboratory Influent Concentrations (Benzene ppmv)	12 ppmv
Soil Vapor Mass Removal (lb TPHg/period)	1,059 pounds
Soil Vapor Mass Removal (lb Benzene/period)	11 pounds
Soil Vapor Extraction Period Operating Uptime (hours)	722 hours
Soil Vapor Treatment Destruction Efficiency (%)	99 percent

ppmv – parts per million by volume

Equal  
Employment Opportunity  
Employer



**CONESTOGA-ROVERS  
& ASSOCIATES**

January 29, 2015

Reference No. 311950

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**DISSOLVED-PHASE EXTRACTION DATA-DECEMBER 2014**

Maximum Groundwater Extraction Rate (gpm)	1.7 gpm
Average Groundwater Extraction Rate (gpm)	1.47 gpm
Dissolved-Phase Mass Removal Rate (lb TPHg/period)	3.7 pounds
Dissolved-Phase Mass Removal Rate (lb Benzene/period)	0.4 pounds
Total Volume Groundwater Treated (gallons)	63,592 gallons
Groundwater Extraction Period Operating Uptime (hours)	722 hours

Please contact Darrell Smolko of CRA at (925) 334-8617 or Judy Gilbert of CRA at (510) 420-3314, if you have any questions or comments.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Darrell Smolko

Brandon S. Wilken, PG 7564

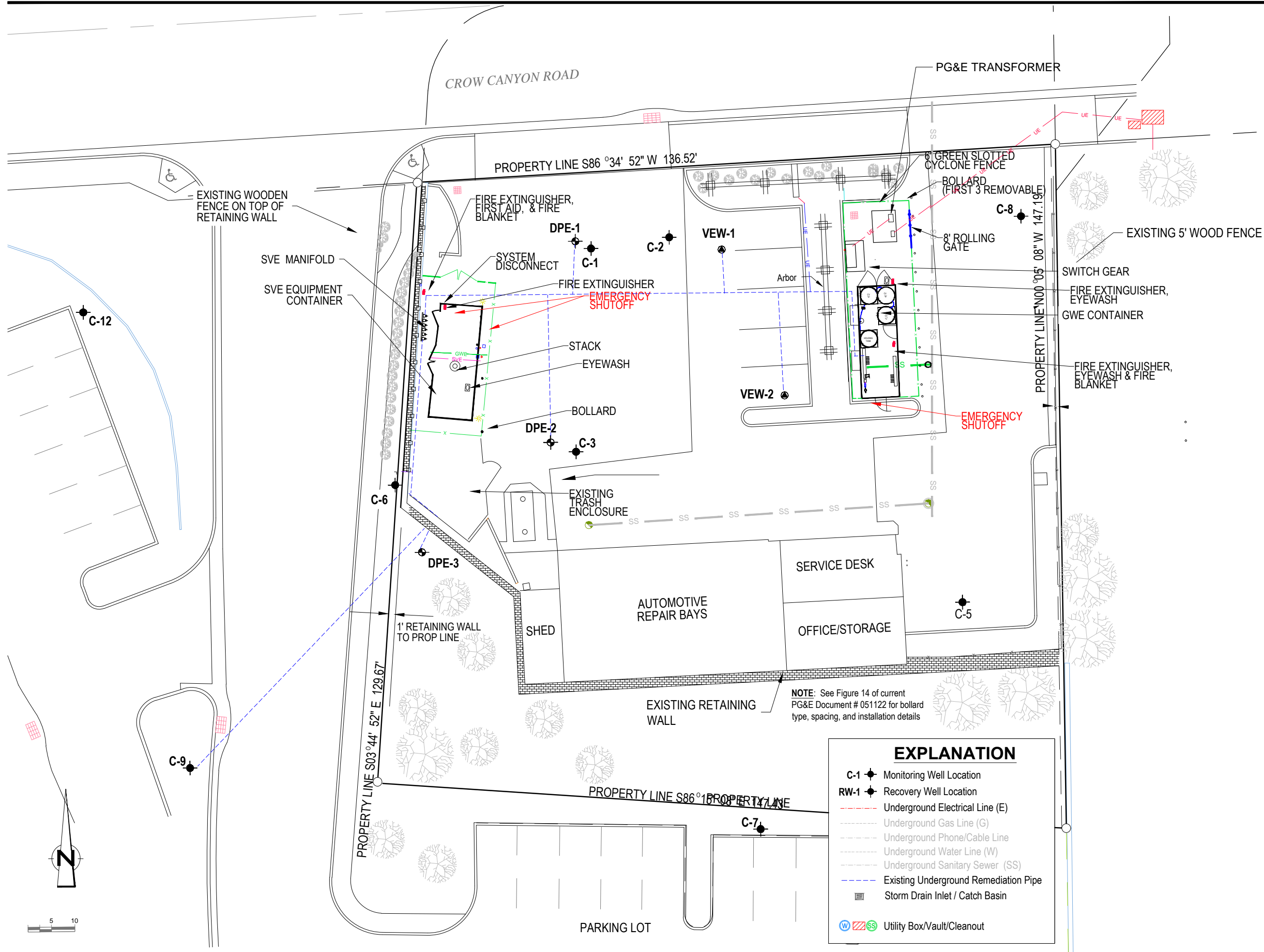


DS/cw/36

- Figure 1      General Site Plan
- Table 1      Groundwater Extraction & Treatment System Hydrocarbon Analytical Data
- Table 2      Groundwater Extraction & Treatment System Operational Data & Hydrocarbon Mass Removal
- Table 3      Soil Vapor Extraction Operational Data
- Table 4      Soil Vapor Extraction Analytical Data & Mass Removal
- Attachment A      Laboratory Analytical Reports

c.c.:      Mr. Eric Hetrick, Chevron EMC (*electronic copy*)  
             Mr. Kevin Hinkley, Property Owner  
             Ms. Diane Riggs, Forest Creek Townhomes Association

## FIGURES



**CLIENT**

CHEVRON ENVIRONMENTAL  
MANAGEMENT COMPANY

**PROJECT**

FORMER CHEVRON STATION  
#9-5607  
5269 CROW CANYON ROAD  
CASTRO VALLEY, CA

**TITLE**

GENERAL SITE PLAN

PROJECT #311950

**DRAWING STATUS**

N <sup>o</sup>	Revision	Date	By
1	RELOCATE GWE TRAILER	10/12/13	DK
1	ADD SVE-1 AND SVE-2	10/23/13	DK
2	RELOCATE GWE TRAILER	3/25/14	DS
3	AS-BUILT	10/10/14	DS

**SCALE VERIFICATION**  
THIS BAR MEASURES 1" ON ORIGINAL.

**CONESTOGA-ROVERS  
& ASSOCIATES**  
5900 HOLLIS STREET, SUITE A  
EMERYVILLE CA 94608  
PHONE: 510.420.0700  
FAX: 510.420.9170  
WWW.CRAWORLD.COM

Source Reference:

Designed By: DS	Date: 10/10/2014	Drawing N <sup>o</sup> :  <b>FIG 1</b>
Drafted By: DS	Date: 10/10/2014	
Reviewed By: DK	Date: 10/23/2014	
Scale: 1:10		

**EXPLANATION**

- C-1 ● Monitoring Well Location
- RW-1 ● Recovery Well Location
- Underground Electrical Line (E)
- Underground Gas Line (G)
- Underground Phone/Cable Line
- Underground Water Line (W)
- Underground Sanitary Sewer (SS)
- - - Existing Underground Remediation Pipe
- Storm Drain Inlet / Catch Basin
- Ⓜ Ⓟ Ⓢ Utility Box/Vault/Cleanout

NOTE: See Figure 14 of current  
PG&E Document # 051122 for bollard  
type, spacing, and installation details

## TABLES

**Table 1**  
**Groundwater Extraction and Treatment System**  
**Influent and Effluent Hydrocarbon Concentration Data**  
**Former Chevron Station # 9-5607**  
**5269 Crow Canyon Road, Castro Valley, California**

Sample Date (mm/dd/yy)	Influent						Midfluent 1						Midfluent 2						Effluent						pH <sup>a</sup>	
	TPHg Conc. (µg/L)	Benzene Conc. (µg/L)	Toluene Conc. (µg/L)	Ethylbenzene Conc. (µg/L)	Xylenes Conc. (µg/L)	MTBE Conc. (µg/L)	TPHg Conc. (µg/L)	Benzene Conc. (µg/L)	Toluene Conc. (µg/L)	Ethylbenzene Conc. (µg/L)	Xylenes Conc. (µg/L)	MTBE Conc. (µg/L)	TPHg Conc. (µg/L)	Benzene Conc. (µg/L)	Toluene Conc. (µg/L)	Ethylbenzene Conc. (µg/L)	Xylenes Conc. (µg/L)	MTBE Conc. (µg/L)	TPHg Conc. (µg/L)	Benzene Conc. (µg/L)	Toluene Conc. (µg/L)	Ethylbenzene Conc. (µg/L)	Xylenes Conc. (µg/L)	MTBE Conc. (µg/L)		
09/12/14	6,000	1,800	19	120	94	4	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	7.4
10/13/14	7,500	1,600	37	76	630	4	<50	2	<0.5	<0.5	<0.5	<0.5	NM	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
11/06/14	8,000	990	140	100	590	<10	<50	2	<0.5	<0.5	<0.5	<0.5	NM	NM	NM	NM	NM	NM	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
12/02/14	7,000	780	150	160	810	4	<50	2	<0.5	<0.5	<0.5	<0.5	NM	NM	NM	NM	NM	NM	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	7.3

**Notes and Abbreviations:**

mm/dd/yy = month/day/year

Conc. = concentration

TPHg = total petroleum hydrocarbons quantified as gasoline

MTBE = methyl tertiary butyl ether

µg/L = micrograms per liter

<X.X = not detected at or below the detection limit indicated

a = pH measured in the field

NM = Not Measured

TPHg analyzed by EPA Method 8015M.

Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B.

MTBE analyzed by EPA Method 8260B.

**Table 2**  
**Groundwater Extraction and Treatment System**  
**Operational Data and Dissolved Phase Hydrocarbons Mass Removal Data**  
**Former Chevron Station # 9-5607**  
**5269 Crow Canyon Road, Castro Valley, California**

Date (mm/dd/yy)	Well IDs	Hour Meter <sup>a</sup> (hours)	Totalizer Reading (gallons)	Period Volume (gallons)	Period Operational Flow Rate (gpm)	Cumulative Volume (gallons)	TPHg			Benzene			MTBE						
							TPHg Concentration (µg/L)	Period Removal <sup>c</sup> (pounds)	Cumulative Removal (pounds)	Benzene Concentration (µg/L)	Period Removal <sup>c</sup> (pounds)	Cumulative Removal (pounds)	MTBE Concentration (µg/L)	Period Removal <sup>c</sup> (pounds)	Cumulative Removal (pounds)				
9/12/14 9:00	DPE-1 - DPE-3, C-9	4008.5	330,400	0	0.0	0	---	---	---	---	---	---	---	---	---				
9/12/14 14:00	DPE-1 - DPE-3, C-9	4013.5	331,500	1,100	3.7	1,100	6,000	0.055	0.055	1,800	0.017	0.017	4	0.000	0.000				
9/29/14 14:00	DPE-1 - DPE-3, C-9	4019.0	332,000	500	1.5	1,600	---	0.025	0.08	---	0.008	0.024	---	0.000	0.000				
10/6/14 11:00	DPE-1 - DPE-3, C-9	4024.0	332,700	700	2.3	2,300	---	0.035	0.12	---	0.011	0.035	---	0.000	0.000				
10/13/14 14:00	DPE-1 - DPE-3, C-9	4,130.0	341,085	8,385	1.3	10,685	7,500	0.525	0.64	1,600	0.112	0.146	4	0.000	0.000				
10/20/14 11:30	DPE-1 - DPE-3, C-9	4,296.0	348,600	7,515	0.8	18,200	---	0.470	1.11	---	0.100	0.247	---	0.000	0.001				
10/27/14 11:00	DPE-1 - DPE-3, C-9	4,413.0	354,200	5,600	0.8	23,800	---	0.350	1.46	---	0.075	0.322	---	0.000	0.001				
11/6/14 13:15	DPE-1 - DPE-3, C-9	4,480.0	364,390	10,190	2.5	33,990	8,000	0.680	2.14	990	0.084	0.406	10	0.001	0.002				
11/21/14 13:50	DPE-1 - DPE-3, C-9	4,668.6	373,033	8,643	0.8	42,633	---	0.577	2.72	---	0.071	0.477	---	0.001	0.002				
12/2/14 15:15	DPE-1 - DPE-3, C-9	4,781.9	379,635	6,602	1.0	49,235	7,000	0.386	3.10	780	0.043	0.520	4	0.000	0.003				
12/16/14 11:30	DPE-1 - DPE-3, C-9	5,030.7	399,600	19,965	1.3	69,200	---	1.166	4.27	---	0.130	0.650	---	0.001	0.003				
12/31/14 10:30	DPE-1 - DPE-3, C-9	5,390.1	436,625	37,025	1.7	106,225	---	2.163	6.43	---	0.241	0.891	---	0.001	0.004				
<b>Agency Limits</b>																			
<b>Total Extracted Volume (gal):</b>						<b>106,225</b>	<b>Pounds Removed:</b>			<b>3.71</b>	<b>6.43</b>	<b>Pounds Removed:</b>		<b>0.41</b>	<b>0.89</b>	<b>Pounds Removed:</b>		<b>0.00</b>	<b>0.00</b>
<b>Average Operational Flow Rate (gpm)<sup>3</sup>:</b>						<b>1.28</b>	<b>Gallons Removed<sup>4</sup>:</b>			<b>0.61</b>	<b>1.06</b>	<b>Gallons Removed<sup>4</sup>:</b>		<b>0.1</b>	<b>0.12</b>	<b>Gallons Removed<sup>4</sup>:</b>		<b>0.00</b>	<b>0.00</b>
<b>Reporting Period: 11/21/14 - 12/31/14</b>						<b>Cumulative Results Since Start-up:</b>													
<b>Number of Days during Reporting Period</b>				<b>40 days</b>		<b>Number Days since Startup</b>				<b>110 days</b>									
<b>Gallons of Extracted Ground Water</b>				<b>63,592 gal</b>		<b>Cumulative Total Gallons Extracted</b>				<b>106,225 gal</b>									
<b>Average Flow Rate</b>				<b>1.47 gpm</b>		<b>Average Flow Rate<sup>3</sup></b>				<b>1.28 gpm</b>									
<b>Pounds of TPHg Removed</b>				<b>3.714 lbs</b>		<b>Cumulative Pounds of TPHg Removed</b>				<b>6.43 lbs</b>									
<b>TPHg Removal Rate</b>				<b>0.093 lbs/day</b>		<b>TPHg Removal Rate</b>				<b>0.058 lbs/day</b>									
<b>Pounds of Benzene Removed</b>				<b>0.414 lbs</b>		<b>Cumulative Pounds of Benzene Removed</b>				<b>0.891 lbs</b>									
<b>Benzene Removal Rate</b>				<b>0.010 lbs/day</b>		<b>Benzene Removal Rate</b>				<b>0.008 lbs/day</b>									
<b>Pounds of MTBE Removed</b>				<b>0.002 lbs</b>		<b>Cumulative Pounds of MTBE Removed</b>				<b>0.004 lbs</b>									
<b>MTBE Removal Rate</b>				<b>0.000 lbs/day</b>		<b>MTBE Removal Rate</b>				<b>0.000 lbs/day</b>									

**Notes:**

- a = Estimated groundwater system run time, hour meter malfunction
- b = Hour meter replaced; groundwater system off, hour meter being used to measure run time for soil vapor extraction system
- c = Groundwater system turned on using new hour meter
- d = OWS limit is based on 10 gpm operating continuously. No more than 5.26 million gallons of water to be processed in any 12 month period.  
PUC permit gives average of 20 gpm

**Formulas and Assumptions:**

1. Hour meter readings taken at the end of the site visit
2. Mass Removed During the Period = Volume of Water Extracted (gallons) x Concentration (µg/L) x (g/10<sup>6</sup> µg) x (lb/453.6g) x (3.785 L/gal)
3. When concentration of individual parameters were not detected, the concentration was assumed to be half the detection limit for calculation pu  
Average Flow Rate = (Volume of Extracted Water (gal) / Number of Operational Days) \* (60 minutes/hour) \* (24 hours/day)
4. Gallons Removed = (Mass (lb) / Density (g/cc)) x 453.6 (g/lb) x (L/1000 cc) x (gal/3.785 L)  
Density: = 0.73 g/cc TPHg  
          = 0.88 g/cc Benzene  
          = 0.74 g/cc MTBE

**Abbreviations:**

- TPHg = total petroleum hydrocarbons as gasoline
- MTBE = methyl tertiary butyl ether
- L = liter
- gal = gallon
- gpm = gallon per minute
- µg/L = micrograms per liter
- g = grams
- cc = cubic centimeter
- lb = pounds
- lbs/day = pounds per day



**Table 3**  
**Dual Phase Extraction System**  
**Operational Data**  
**Former Chevron Station # 9-5607**  
**5269 Crow Canyon Road, Castro Valley, California**

Date (mm/dd/yy hh:mm)	Operating Wells (open)	Operating Time (hours)	Hour Meter (hours)	System Uptime (%)	Period Operation (hours)	Blower Vacuum (inHg)	INF-1 Vacuum (inHg)	INF-1 Vacuum (inH <sub>2</sub> O)	INF-1 Temperature (°F)	INF-1 Measured Flow (acfm)	INF-1 Calculated Flow (scfm)	INF-2 Pressure <sup>1</sup> (inH <sub>2</sub> O)	INF-2 Temperature (°F)	INF-2 Measured Flow <sup>1</sup> (acfm)	INF-2 Calculated Flow (scfm)	Effluent Flow Rate (scfm)	Dilution Air (% open)	Pre-Oxidizer Temp (°F)	Post-Oxidizer Temp (°F)	Influent 1 LEL (%LEL)	INF-2 FID (ppmv)	INF-2 OVA (ppmv)	Effluent PID (ppmv)	Mass Removal based on OVA (ppd)	Destruction Efficiency (%)
9/12/14 14:00	C9, DPE-1 - DPE3, VE-1, VE-2	0.0	4014	0%	0.0	NM	3.0	41	NM	NM	NM	10.0	155	294	259	259	20	747	NM	NM	NM	8,000	20.0	663.8	99.8%
9/29/14 14:00	C9, DPE-1 - DPE3, VE-1, VE-2	5.5	4019	1.3%	5.5	15.0	2.8	38	93	165	143	11.0	189	255	213	213	20	880	NM	NM	10,000	NM	0.0	NM	100.0%
10/6/14 11:00	C9, DPE-1 - DPE3, VE-1, VE-2	5.0	4024	3.0%	5.0	15.0	2.8	38	83	144	127	10.0	176	255	217	217	25	899	NM	NM	1800	560	0.2	39.0	100.0%
10/13/14 14:00	C9, DPE-1 - DPE-3	106.0	4130	62.0%	106.0	14.5	2.3	32	68	191	176	10.9	180	268	227	227	0	750	883	NM	NM	1,100	5.0	80.1	99.5%
10/20/14 11:30	C9, DPE-1 - DPE-3	166.0	4296	100.3%	166.0	15.0	3.2	43	79	140	123	10.5	171	255	219	219	0	750	927	NM	1,300	650	0.3	45.6	100.0%
10/27/14 11:00	C9, DPE-1, DPE-2	117.0	4413	69.9%	117.0	15.0	4.1	56	61	161	141	11.6	160	270	236	236	0	750	897	NM	1,325	700	0.4	53.1	99.9%
11/6/14 13:15	C9, DPE-3, DPE-2	67.0	4480	27.7%	67.0	20.0	5.0	68	61	146	123	10.7	61	146	152	123	0	701	900	10%	NM	1,250	0.0	60.9	100.0%
11/21/14 13:50	C9, DPE-3, DPE-2	188.6	4669	52.3%	188.6	20.0	5.3	72	68	132	109	11.1	174	176	151	109	0	698	809	NM	NM	585	0.4	28.3	99.9%
12/2/14 15:15	C9, DPE-3, DPE-2	113.3	4782	42.7%	113.3	20.0	7.4	100	63	103	78	3.3	169	157	133	133	0	697	785	NM	NM	1,215	0.5	51.8	100.0%
12/16/14 11:30	C9, DPE-3, DPE-2	249.1	5031	75.0%	249.1	18.5	10.2	138	64	61	41	4.3	172	118	100	100	0	700	750	NM	NM	1,650	3.0	52.7	99.8%
12/31/14 10:30	C9, DPE-3, DPE-2	359.1	5390	100.0%	359.1	22.0	10.0	135	72	133	88	7.2	179	133	112	112	0	698	707	NM	NM	425	5.0	15.2	98.8%
<b>Reporting Period</b>		<b>721.5</b>		<b>75.4%</b>											<b>124</b>										

**Permit Conditions:** **<300** **<300** **>600** **>98.5%**

**Abbreviations and Notes:**

mm/dd/yy = month/day/year  
 hh:mm = hour : minute  
 inHg = inches of mercury  
 inH<sub>2</sub>O = inches of water  
 °F = degrees Fahrenheit  
 acfm = actual cubic feet per minute  
 scfm = standard cubic feet per minute (flow in scfm = flow in acfm \* [operating pressure {abs} / standard pressure {abs}] \* [standard temperature {abs} / operating temperature {abs}])  
 % = percentage  
 INF-1 = pre-dilution system influent  
 INF-2 = post-dilution system influent  
 NM = not measured  
 LEL = Lower Explosive Limit  
 ppmv = parts per million by volume  
 a = hour meter non-functional due to improper wiring; hour meter values estimated based upon continuous runtime  
 PID = photo-ionization detector  
 FID = flame ionization detector  
 OVA = organic vapor analyzer  
 ppd = pounds per day  
 1. = INF-2 flow read from chart recorder. INF-2 pressure used to convert acfm to scfm.  
 2. = Changed hour meter  
 3. = water in pipe; unable to measure accurate concentration/ LEL readings

**Compliance:**

BAAQMD Requirements:  
 Flow Rate < 300 scfm  
 Oxidizer Temperature > 600 degrees Fahrenheit in electric catalytic mode and > 1400 degrees in thermal catalytic mode  
 Benzene Emission Limit < 0.017ppd  
 Destruction Efficiency (measured as hexane)  
 98.50% VOC >2,000 ppmv  
 97.00% VOC >200 and <2,000 ppmv  
 90.00% VOC < 200 ppmv

Note: If outlet VOC < 10 ppmv, destruction efficiency requirement is waived

**Table 4**  
**Dual Phase Extraction System**  
**Analytical Data**  
**Former Chevron Station # 9-5607**  
**5269 Crow Canyon Road, Castro Valley, California**

Date (mm/dd/yy hh:mm)	Concentrations <sup>1</sup>									TPHg			Benzene			MTBE			VOC		Destruction Efficiency (%)
	INF-2				Effluent				Removal Rate <sup>2,6</sup> (ppd)	Cumulative Removed <sup>7</sup> (pounds)	Emission Rate <sup>2,6</sup> (ppd)	Removal Rate <sup>3,6</sup> (ppd)	Cumulative Removed <sup>7</sup> (pounds)	Emission Rate <sup>3,6</sup> (ppd)	Removal Rate <sup>4,6</sup> (ppd)	Cumulative Removed <sup>7</sup> (pounds)	Emission Rate <sup>4,6</sup> (ppd)	Removal Rate <sup>5,6</sup> (ppd)	Emission Rate <sup>5,6</sup> (ppd)		
	Operating Wells	TPHg* (ppmv)	Benzene (ppmv)	MTBE (ppmv)	VOC (ppmv)	TPHg (ppmv)	Benzene (ppmv)	MTBE (ppmv)												VOC (ppmv)	
9/12/14 14:00	C9, DPE-1 - DPE3, VE-1, VE-2	4,200	44	38	4,282	46	0.39	0.19	46.58	348.5	0.0	3.8	3.3	0.0	0.0	0.0	0.0	0.0	355.3	4.0	98.9%
9/29/14 14:00	C9, DPE-1 - DPE3, VE-1, VE-2	--	--	--	--	--	--	--	--	287.1	72.8	3.1	2.7	0.7	0.0	0.0	0.0	0.0	292.7	3.3	98.9%
10/6/14 11:00	C9, DPE-1 - DPE3, VE-1, VE-2	--	--	--	--	--	--	--	--	292.3	133.2	3.2	2.8	1.3	0.0	0.0	0.0	0.0	298.0	3.3	98.9%
10/13/14 11:00	C9, DPE-1 - DPE-3	1,500	10	< 20	1,530	<5	< 0.5	< 0.5	< 6.0	109.3	1019.9	0.4	0.7	8.9	0.0	0.0	0.1	0.0	111.4	0.4	99.6%
10/20/14 11:30	C9, DPE-1 - DPE-3	--	--	--	--	--	--	--	--	105.3	1762.0	0.4	0.6	13.3	0.0	0.0	0.4	0.0	107.4	0.4	99.6%
10/27/14 11:00	C9, DPE-1, DPE2	--	--	--	--	--	--	--	--	113.8	2296.2	0.4	0.7	16.6	0.0	0.0	0.6	0.0	116.1	0.5	99.6%
11/6/14 13:15	C9, DPE-2, DPE3	--	--	--	--	--	--	--	--	73.1	2557.0	0.2	0.4	18.2	0.0	0.0	0.6	0.0	74.5	0.2	99.6%
11/21/14 13:50	C9, DPE-2, DPE-3*	558	0.01	0.01	558.0	0.31	0.0020	<0.002	0.31	27.0	2950.0	0.0	0.0	19.9	0.0	0.0	0.7	0.0	27.0	0.0	99.9%
12/2/14 15:15	C9, DPE-2, DPE-3	1,000	12	9	1,021	0.23	0.0012	<0.001	0.23	42.6	3114.3	0.0	0.5	21.0	0.0	0.0	0.7	0.0	43.5	0.0	100.0%
12/16/14 11:30	C9, DPE-2, DPE-3	--	--	--	--	--	--	--	--	32.0	3501.4	0.0	0.3	25.2	0.0	0.0	0.7	0.0	32.6	0.0	100.0%
12/31/14 10:30	C9, DPE-2, DPE-3	--	--	--	--	--	--	--	--	35.9	4008.9	0.0	0.4	30.7	0.0	0.0	0.7	0.0	36.6	0.0	100.0%
<b>Permit conditions</b>													<0.017 ppd						>98.5% for >2,000 ppm inlet >97% for >200-<2,000 ppm inlet >90% for <200 ppm inlet		
<b>Period Pounds Removed<sup>10</sup>:</b>										<b>TPHg = 1,059</b>			<b>Benzene = 11</b>			<b>MTBE = 0</b>					
<b>Total Pounds Removed:</b>										<b>TPHg = 4,009</b>			<b>Benzene = 30.7</b>			<b>MTBE = 0.74</b>					

**Notes:**

1. TPHg, Benzene, and MTBE analyzed by EPA Method 8015/8020. Vapor samples were collected in 1-liter tedlar bags unless otherwise noted.
2. Molecular weight of TPHg assumed to be 86 lb/lb-mole as hexane.
3. Molecular weight of Benzene assumed to be 78 lb/lb-mole.
4. Molecular weight of MTBE assumed to be 88 lb/lb-mole.
5. Molecular weight of VOCs assumed to be 86 lb/lb-mole as hexane.
6. Removal/Emission Rate (ppd) = C (ppmv) x Q (scfm) x (1lb-mole/386ft<sup>3</sup>) x MW (lb/lb-mole) x 60 min/hr x 24 hr/day x 10<sup>-6</sup>  
C = concentration = concentration  
Q = flow = flow  
MW = molecular weight = molecular weight
7. Cumulative TPHg / Benzene / MTBE removed = Previous Total + (Average of Previous and Current Removal Rates \* Operation Interval)
8. Influent not measured due to water in vapor stream. Individual well samples were collected at a lower vacuum at this time.
9. Destruction efficiency requirements not met, agency notified. Agency granted approval to restart system
- 10 Reporting period from November 21,2014 through December 31,2014  
\* November 2014 TPHg removal rate based upon OVA readings due to Lab/Sampling error

**BAAQMD Requirements:**

- Flow Rate < 300 scfm
- Oxidizer Temperature > 600 deg Fahrenheit in electric catalytic mode and > 1400 degrees in thermal catalytic mode
- Benzene Emission Limit < 0.017 ppd
- Destruction efficiency (measured as hexane)
  - 98.50% VOC >2,000 ppmv
  - 97.00% VOC >200 and <2,000 ppmv
  - 90.00% VOC < 200 ppmv

**Abbreviations:**

- mm/dd/yy = month/day/year
- hh:mm = hours : minutes
- TPHg = total petroleum hydrocarbons as gasoline
- MTBE = methyl tertiary butyl ether
- VOC = volatile organic compounds
- ppmv = parts per million by volume
- ppd = pounds per day
- NA = not applicable
- NM = not measured
- lb = pounds
- ft<sup>3</sup> = cubic feet
- scfm = standard cubic feet per minute
- INF-1 = pre-dilution system influent
- INF-2 = post-dilution system influent

ATTACHMENT A

LABORATORY ANALYTICAL REPORTS

12/17/2014

Ms. Judy Gilbert  
Conestoga-Rovers Associates (CRA)  
5900 Hollis Street  
Suite A  
Emeryville CA 94608

Project Name: Castro Valley  
Project #: 311950 2014.7 94.09  
Workorder #: 1412052

Dear Ms. Judy Gilbert

The following report includes the data for the above referenced project for sample(s) received on 12/3/2014 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-3 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kyle Vagadori  
Project Manager

**WORK ORDER #: 1412052**

Work Order Summary

<b>CLIENT:</b>	Ms. Judy Gilbert Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608	<b>BILL TO:</b>	Accounts Payable Chevron U.S.A. Inc. 6001 Bollinger Canyon Road L4310 San Ramon, CA 94583
<b>PHONE:</b>	510-420-3314	<b>P.O. #</b>	NWENV00956070
<b>FAX:</b>	510-420-9170	<b>PROJECT #</b>	311950 2014.7 94.09 Castro Valley
<b>DATE RECEIVED:</b>	12/03/2014	<b>CONTACT:</b>	Kyle Vagadori
<b>DATE COMPLETED:</b>	12/17/2014		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	EFF	Modified TO-3	Tedlar Bag	Tedlar Bag
02A	INF	Modified TO-3	Tedlar Bag	Tedlar Bag
03A	Lab Blank	Modified TO-3	NA	NA
04A	LCS	Modified TO-3	NA	NA
04AA	LCSD	Modified TO-3	NA	NA
04B	LCS	Modified TO-3	NA	NA
04BB	LCSD	Modified TO-3	NA	NA

CERTIFIED BY:   
 Technical Director

DATE: 12/17/14

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,  
 TX NELAP - T104704343-14-7, UT NELAP CA009332014-5, VA NELAP - 460197, WA NELAP - C935  
 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)  
 Accreditation number: CA300005, Effective date: 10/18/2014, Expiration date: 10/17/2015.

Eurofins Air Toxics Inc. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563  
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE**  
**Modified TO-3**  
**Conestoga-Rovers Associates (CRA)**  
**Workorder# 1412052**

Two 1 Liter Tedlar Bag samples were received on December 03, 2014. The laboratory performed analysis for volatile organic compounds in air via modified EPA Method TO-3 using gas chromatography with photo ionization and flame ionization detection. The TPH results are calculated using the response of Gasoline. A molecular weight of 100 is used to convert the TPH ppmv result to ug/L. The method involves concentrating up to 200 mL of sample. The concentrated aliquot is then dry purged to remove water vapor prior to entering the chromatographic system.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

<i>Requirement</i>	<i>TO-3</i>	<i>ATL Modifications</i>
Daily Calibration Standard Frequency	Prior to sample analysis and every 4 - 6 hrs	Prior to sample analysis and after the analytical batch <math>\leq 20</math> samples.
Initial Calibration Calculation	4-point calibration using a linear regression model	5-point calibration using average Response Factor
Initial Calibration Frequency	Weekly	When daily calibration standard recovery is outside 75 - 125 %, or upon significant changes to procedure or instrumentation
Moisture Control	Nafion system	Sorbent system
Minimum Detection Limit (MDL)	Calculated using the equation $DL = A + 3.3S$ , where A is intercept of calibration line and S is the standard deviation of at least 3 reps of low level standard	40 CFR Pt. 136 App. B
Preparation of Standards	Levels achieved through dilution of gas mixture	Levels achieved through loading various volumes of the gas mixture

**Receiving Notes**

There were no receiving discrepancies.

**Analytical Notes**

Total Xylenes concentration is calculated by summing the individual concentrations of m,p-Xylene and O-Xylene.

The recovery of surrogate Fluorobenzene in sample INF was outside control limits due to high level hydrocarbon matrix interference.

---

### **Definition of Data Qualifying Flags**

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

- B - Compound present in laboratory blank greater than reporting limit.
- J - Estimated value.
- E - Exceeds instrument calibration range.
- S - Saturated peak.
- Q - Exceeds quality control limits.
- U - Compound analyzed for but not detected above the detection limit.
- M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue

**Summary of Detected Compounds  
MODIFIED EPA METHOD TO-3 GC/PID/FID**

**Client Sample ID: EFF**

**Lab ID#: 1412052-01A**

<b>Compound</b>	<b>Rpt. Limit (ppmv)</b>	<b>Rpt. Limit (ug/L)</b>	<b>Amount (ppmv)</b>	<b>Amount (ug/L)</b>
Benzene	0.0010	0.0032	0.0012	0.0039
Toluene	0.0010	0.0038	0.0015	0.0058
Ethyl Benzene	0.0010	0.0043	0.0014	0.0062
Total Xylenes	0.0020	0.0087	0.0044	0.019
TPH (Gasoline Range)	0.025	0.10	0.23	0.93

**Client Sample ID: INF**

**Lab ID#: 1412052-02A**

<b>Compound</b>	<b>Rpt. Limit (ppmv)</b>	<b>Rpt. Limit (ug/L)</b>	<b>Amount (ppmv)</b>	<b>Amount (ug/L)</b>
Benzene	0.057	0.18	12	40
Toluene	0.057	0.22	2.2	8.4
Ethyl Benzene	0.057	0.25	1.6	7.0
Total Xylenes	0.11	0.50	3.0	13
Methyl tert-butyl ether	0.057	0.20	8.8	32
TPH (Gasoline Range)	1.4	5.8	1000	4100





Air Toxics

Client Sample ID: EFF

Lab ID#: 1412052-01A

MODIFIED EPA METHOD TO-3 GC/PID/FID

File Name:	d120512	Date of Collection:	12/2/14 2:30:00 AM
Dil. Factor:	1.00	Date of Analysis:	12/5/14 01:37 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
Benzene	0.0010	0.0032	0.0012	0.0039
Toluene	0.0010	0.0038	0.0015	0.0058
Ethyl Benzene	0.0010	0.0043	0.0014	0.0062
Total Xylenes	0.0020	0.0087	0.0044	0.019
Methyl tert-butyl ether	0.0010	0.0036	Not Detected	Not Detected
TPH (Gasoline Range)	0.025	0.10	0.23	0.93

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	99	75-150
Fluorobenzene (PID)	107	75-125

Client Sample ID: INF

Lab ID#: 1412052-02A

**MODIFIED EPA METHOD TO-3 GC/PID/FID**

<b>File Name:</b>	<b>d120517</b>	<b>Date of Collection:</b> 12/2/14 2:45:00 AM
<b>Dil. Factor:</b>	<b>57.1</b>	<b>Date of Analysis:</b> 12/5/14 05:50 PM

<b>Compound</b>	<b>Rpt. Limit (ppmv)</b>	<b>Rpt. Limit (ug/L)</b>	<b>Amount (ppmv)</b>	<b>Amount (ug/L)</b>
Benzene	0.057	0.18	12	40
Toluene	0.057	0.22	2.2	8.4
Ethyl Benzene	0.057	0.25	1.6	7.0
Total Xylenes	0.11	0.50	3.0	13
Methyl tert-butyl ether	0.057	0.20	8.8	32
TPH (Gasoline Range)	1.4	5.8	1000	4100

Q = Exceeds Quality Control limits, due to matrix effects. Matrix effects confirmed by re-analysis.

**Container Type: 1 Liter Tedlar Bag**

<b>Surrogates</b>	<b>%Recovery</b>	<b>Method Limits</b>
Fluorobenzene (FID)	226 Q	75-150
Fluorobenzene (PID)	199 Q	75-125



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1412052-03A

**MODIFIED EPA METHOD TO-3 GC/PID/FID**

<b>File Name:</b>	<b>d120511</b>	<b>Date of Collection:</b> NA
<b>Dil. Factor:</b>	<b>1.00</b>	<b>Date of Analysis:</b> 12/5/14 12:54 PM

<b>Compound</b>	<b>Rpt. Limit (ppmv)</b>	<b>Rpt. Limit (ug/L)</b>	<b>Amount (ppmv)</b>	<b>Amount (ug/L)</b>
Benzene	0.0010	0.0032	Not Detected	Not Detected
Toluene	0.0010	0.0038	Not Detected	Not Detected
Ethyl Benzene	0.0010	0.0043	Not Detected	Not Detected
Total Xylenes	0.0020	0.0087	Not Detected	Not Detected
Methyl tert-butyl ether	0.0010	0.0036	Not Detected	Not Detected
TPH (Gasoline Range)	0.025	0.10	Not Detected	Not Detected

Container Type: NA - Not Applicable

<b>Surrogates</b>	<b>%Recovery</b>	<b>Method Limits</b>
Fluorobenzene (FID)	99	75-150
Fluorobenzene (PID)	107	75-125



Air Toxics

Client Sample ID: LCS

Lab ID#: 1412052-04A

**MODIFIED EPA METHOD TO-3 GC/PID/FID**

File Name:	d120510	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/5/14 12:21 PM

<b>Compound</b>	<b>%Recovery</b>	<b>Method Limits</b>
TPH (Gasoline Range)	90	75-125

Container Type: NA - Not Applicable

<b>Surrogates</b>	<b>%Recovery</b>	<b>Method Limits</b>
Fluorobenzene (FID)	101	75-150



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1412052-04AA

**MODIFIED EPA METHOD TO-3 GC/PID/FID**

File Name:	d120520	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/5/14 09:19 PM

<b>Compound</b>	<b>%Recovery</b>	<b>Method Limits</b>
TPH (Gasoline Range)	97	75-125

Container Type: NA - Not Applicable

<b>Surrogates</b>	<b>%Recovery</b>	<b>Method Limits</b>
Fluorobenzene (FID)	96	75-150



Air Toxics

Client Sample ID: LCS

Lab ID#: 1412052-04B

**MODIFIED EPA METHOD TO-3 GC/PID/FID**

File Name:	d120508b	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/5/14 11:11 AM

Compound	%Recovery	Method Limits
Benzene	94	75-125
Toluene	96	75-125
Ethyl Benzene	103	75-125
Total Xylenes	109	75-125
Methyl tert-butyl ether	99	75-125

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (PID)	106	75-125



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1412052-04BB

**MODIFIED EPA METHOD TO-3 GC/PID/FID**

File Name:	d120521b	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/5/14 09:56 PM

<b>Compound</b>	<b>%Recovery</b>	<b>Method Limits</b>
Benzene	92	75-125
Toluene	99	75-125
Ethyl Benzene	108	75-125
Total Xylenes	116	75-125
Methyl tert-butyl ether	90	75-125

Container Type: NA - Not Applicable

<b>Surrogates</b>	<b>%Recovery</b>	<b>Method Limits</b>
Fluorobenzene (PID)	99	75-125

## ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental  
2425 New Holland Pike  
Lancaster, PA 17601

Prepared for:

ChevronTexaco  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

December 11, 2014

Project: 95607

Submittal Date: 12/03/2014  
Group Number: 1522572  
PO Number: 0015157270  
Release Number: HETRICK  
State of Sample Origin: CA

### Client Sample Description

EFF-1-W-141202 Grab Groundwater  
MID-1-W-141202 Grab Groundwater  
INF-1-W-141202 Grab Groundwater

### Lancaster Labs (LL) #

7695410  
7695412  
7695413

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>.

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Chevron  
CRA  
CRA

Attn: CRA EDD

Attn: Judy Gilbert

Attn: Darrell Smolko



Respectfully Submitted,



Amek Carter  
Specialist

(717) 556-7252

Sample Description: **EFF-1-W-141202 Grab Groundwater**  
**Facility# 95607 CRAW**  
**5269 Crow Canyon-Castro Va T0600100344**

LL Sample # **WW 7695410**  
 LL Group # **1522572**  
 Account # **10880**

Project Name: **95607**

Collected: 12/02/2014 12:30 by DS

ChevronTexaco

6001 Bollinger Canyon Rd L4310

Submitted: 12/03/2014 10:20

San Ramon CA 94583

Reported: 12/11/2014 15:38

EFCCV

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>GC/MS</b>	<b>Volatiles</b>	<b>SW-846 8260B</b>	<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>	
10335	Acetone	67-64-1	N.D.	6	20	1
10335	t-Amyl methyl ether	994-05-8	N.D.	0.5	1	1
10335	Benzene	71-43-2	N.D.	0.5	1	1
10335	Bromobenzene	108-86-1	N.D.	1	5	1
10335	Bromochloromethane	74-97-5	N.D.	1	5	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
10335	Bromoform	75-25-2	N.D.	0.5	4	1
10335	Bromomethane	74-83-9	N.D.	0.5	1	1
10335	2-Butanone	78-93-3	N.D.	3	10	1
10335	t-Butyl alcohol	75-65-0	N.D.	5	20	1
10335	n-Butylbenzene	104-51-8	N.D.	1	5	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	5	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	5	1
10335	Carbon Disulfide	75-15-0	N.D.	1	5	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1	1
10335	Chloroethane	75-00-3	N.D.	0.5	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10335	Chloroform	67-66-3	N.D.	0.5	1	1
10335	Chloromethane	74-87-3	N.D.	0.5	1	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	5	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	5	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	5	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
10335	Ethanol	64-17-5	N.D.	50	250	1
10335	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10335	Freon 113	76-13-1	N.D.	2	10	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	5	1
10335	2-Hexanone	591-78-6	N.D.	3	10	1
10335	di-Isopropyl ether	108-20-3	N.D.	0.5	1	1

\*=This limit was used in the evaluation of the final result

Sample Description: **EFF-1-W-141202 Grab Groundwater**  
 Facility# **95607 CRAW**  
 5269 Crow Canyon-Castro Va T0600100344

LL Sample # **WW 7695410**  
 LL Group # **1522572**  
 Account # **10880**

Project Name: **95607**

Collected: 12/02/2014 12:30 by DS

ChevronTexaco

6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

Submitted: 12/03/2014 10:20

Reported: 12/11/2014 15:38

EFCCV

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles SW-846 8260B ug/l ug/l ug/l</b>						
10335	Isopropylbenzene	98-82-8	N.D.	1	5	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	5	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	1
10335	Methylene Chloride	75-09-2	N.D.	2	4	1
10335	Naphthalene	91-20-3	N.D.	1	5	1
10335	n-Propylbenzene	103-65-1	N.D.	1	5	1
10335	Styrene	100-42-5	N.D.	1	5	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
10335	Toluene	108-88-3	N.D.	0.5	1	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	5	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	5	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	5	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1	1
10335	o-Xylene	95-47-6	N.D.	0.5	1	1
<b>GC Volatiles SW-846 8015B ug/l ug/l ug/l</b>						
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1
<b>Metals SW-846 6020A ug/l ug/l ug/l</b>						
06024	Antimony	7440-36-0	N.D.	0.33	2.0	1
06025	Arsenic	7440-38-2	2.3 J	0.82	4.0	1
06026	Barium	7440-39-3	193	0.58	4.0	1
06027	Beryllium	7440-41-7	N.D.	0.045	1.0	1
06028	Cadmium	7440-43-9	N.D.	0.17	1.0	1
06031	Chromium	7440-47-3	N.D.	0.50	4.0	1
06032	Cobalt	7440-48-4	0.62 J	0.10	1.0	1
06033	Copper	7440-50-8	2.4 J	0.50	4.0	1
06035	Lead	7439-92-1	N.D.	0.082	2.0	1
06038	Molybdenum	7439-98-7	1.8	0.25	1.0	1
06039	Nickel	7440-02-0	1.0 J	0.79	4.0	1
06041	Selenium	7782-49-2	N.D.	0.50	4.0	1
06042	Silver	7440-22-4	N.D.	0.13	1.0	1
06045	Thallium	7440-28-0	N.D.	0.15	1.0	1
06048	Vanadium	7440-62-2	N.D.	0.22	1.0	1
06049	Zinc	7440-66-6	N.D.	2.4	30.0	1
<b>SW-846 7470A ug/l ug/l ug/l</b>						
00259	Mercury	7439-97-6	N.D.	0.060	0.20	1

\*=This limit was used in the evaluation of the final result

Sample Description: **EFF-1-W-141202 Grab Groundwater**  
 Facility# **95607 CRAW**  
 5269 Crow Canyon-Castro Va T0600100344

LL Sample # **WW 7695410**  
 LL Group # **1522572**  
 Account # **10880**

Project Name: **95607**

Collected: 12/02/2014 12:30 by DS

ChevronTexaco

6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

Submitted: 12/03/2014 10:20

Reported: 12/11/2014 15:38

EFCCV

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
08255	Total Cyanide (water)	57-12-5	N.D.	5.0	10	1
02393	Phenols (water)	n.a.	N.D.	15	40	1
08079	HEM (oil & grease)	n.a.	N.D.	1,400	5,000	1

General Sample Comments

CA ELAP Lab Certification No. 2792  
 Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Full List w/ Sep. Xylenes	SW-846 8260B	1	N143421AA	12/08/2014 12:58	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N143421AA	12/08/2014 12:58	Linda C Pape	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	14339A94A	12/08/2014 19:10	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	14339A94A	12/08/2014 19:10	Brett W Kenyon	1
06024	Antimony	SW-846 6020A	1	143390639001A	12/09/2014 03:40	Tara L Snyder	1
06025	Arsenic	SW-846 6020A	1	143390639001A	12/09/2014 03:40	Tara L Snyder	1
06026	Barium	SW-846 6020A	1	143390639001D	12/09/2014 03:40	Tara L Snyder	1
06027	Beryllium	SW-846 6020A	1	143390639001A	12/10/2014 08:18	Choon Y Tian	1
06028	Cadmium	SW-846 6020A	1	143390639001A	12/09/2014 03:40	Tara L Snyder	1
06031	Chromium	SW-846 6020A	1	143390639001A	12/10/2014 08:18	Choon Y Tian	1
06032	Cobalt	SW-846 6020A	1	143390639001A	12/09/2014 03:40	Tara L Snyder	1
06033	Copper	SW-846 6020A	1	143390639001A	12/09/2014 03:40	Tara L Snyder	1
06035	Lead	SW-846 6020A	1	143390639001A	12/09/2014 03:40	Tara L Snyder	1
06038	Molybdenum	SW-846 6020A	1	143390639001C	12/09/2014 03:40	Tara L Snyder	1
06039	Nickel	SW-846 6020A	1	143390639001A	12/09/2014 03:40	Tara L Snyder	1
06041	Selenium	SW-846 6020A	1	143390639001B	12/09/2014 03:40	Tara L Snyder	1
06042	Silver	SW-846 6020A	1	143390639001A	12/09/2014 03:40	Tara L Snyder	1
06045	Thallium	SW-846 6020A	1	143390639001A	12/09/2014 03:40	Tara L Snyder	1
06048	Vanadium	SW-846 6020A	1	143390639001A	12/10/2014 11:45	Choon Y Tian	1
06049	Zinc	SW-846 6020A	1	143390639001A	12/09/2014 03:40	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	143385713003	12/05/2014 07:02	Damary Valentin	1
10639	ICP/MS SW846 (IV) Water Digest	SW-846 3010A modified	1	143390639001	12/08/2014 09:32	Micaela L Dishong	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	143385713003	12/04/2014 16:37	James L Mertz	1
08255	Total Cyanide (water)	SW-846 9012A	1	14343117101B	12/10/2014 10:04	Drew M Gerhart	1

\*=This limit was used in the evaluation of the final result

Sample Description: **EFF-1-W-141202 Grab Groundwater**  
**Facility# 95607 CRAW**  
**5269 Crow Canyon-Castro Va T0600100344**

LL Sample # **WW 7695410**  
 LL Group # **1522572**  
 Account # **10880**

Project Name: **95607**

Collected: 12/02/2014 12:30 by DS

ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

Submitted: 12/03/2014 10:20

Reported: 12/11/2014 15:38

EFCCV

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02393	Phenols (water)	SW-846 9066	1	14339120101B	12/06/2014 12:15	Drew M Gerhart	1
08256	Cyanide Water Distillation	SW-846 9012A	1	14343117101B	12/09/2014 10:25	Nancy J Shoop	1
08123	Phenol Distillation (SW-846)	SW-846 9065	1	14339120101B	12/05/2014 09:55	Nancy J Shoop	1
08079	HEM (oil & grease)	EPA 1664A	1	14338807901A	12/04/2014 18:24	Michelle L Lalli	1

\*=This limit was used in the evaluation of the final result

Sample Description: MID-1-W-141202 Grab Groundwater  
Facility# 95607 CRAW  
5269 Crow Canyon-Castro Va T0600100344

LL Sample # WW 7695412  
LL Group # 1522572  
Account # 10880

Project Name: 95607

Collected: 12/02/2014 13:00 by DS

ChevronTexaco

6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

Submitted: 12/03/2014 10:20

Reported: 12/11/2014 15:38

M1CCV

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles SW-846 8260B</b>						
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
<b>GC Volatiles SW-846 8015B</b>						
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1

### General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/MTBE	SW-846 8260B	1	F143382AA	12/04/2014 16:22	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F143382AA	12/04/2014 16:22	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	14339A94A	12/08/2014 18:44	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	14339A94A	12/08/2014 18:44	Brett W Kenyon	1

\*=This limit was used in the evaluation of the final result

Sample Description: INF-1-W-141202 Grab Groundwater  
Facility# 95607 CRAW  
5269 Crow Canyon-Castro Va T0600100344

LL Sample # WW 7695413  
LL Group # 1522572  
Account # 10880

Project Name: 95607

Collected: 12/02/2014 13:15 by DS

ChevronTexaco

6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

Submitted: 12/03/2014 10:20

Reported: 12/11/2014 15:38

INCCV

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles SW-846 8260B</b>			ug/l	ug/l	ug/l	
10945	Benzene	71-43-2	780	5	10	10
10945	Ethylbenzene	100-41-4	160	0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	4	0.5	1	1
10945	Toluene	108-88-3	150	0.5	1	1
10945	Xylene (Total)	1330-20-7	810	5	10	10
<b>GC Volatiles SW-846 8015B</b>			ug/l	ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	7,000	250	500	5

### General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/MTBE	SW-846 8260B	1	F143391AA	12/05/2014 14:08	Anita M Dale	1
10945	BTEX/MTBE	SW-846 8260B	1	F143391AA	12/05/2014 14:30	Anita M Dale	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F143391AA	12/05/2014 14:08	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	F143391AA	12/05/2014 14:30	Anita M Dale	10
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	14339A94A	12/08/2014 21:18	Brett W Kenyon	5
01146	GC VOA Water Prep	SW-846 5030B	1	14339A94A	12/08/2014 21:18	Brett W Kenyon	5

\*=This limit was used in the evaluation of the final result

## Quality Control Summary

Client Name: ChevronTexaco  
Reported: 12/11/14 at 03:38 PM

Group Number: 1522572

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: F143382AA	Sample number(s): 7695412								
Benzene	N.D.	0.5	1	ug/l	96	96	78-120	0	30
Ethylbenzene	N.D.	0.5	1	ug/l	99	98	79-120	1	30
Methyl Tertiary Butyl Ether	N.D.	0.5	1	ug/l	90	92	75-120	3	30
Toluene	N.D.	0.5	1	ug/l	101	99	80-120	2	30
Xylene (Total)	N.D.	0.5	1	ug/l	95	93	80-120	2	30
Batch number: F143391AA	Sample number(s): 7695413								
Benzene	N.D.	0.5	1	ug/l	97		78-120		
Ethylbenzene	N.D.	0.5	1	ug/l	97		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	1	ug/l	96		75-120		
Toluene	N.D.	0.5	1	ug/l	100		80-120		
Xylene (Total)	N.D.	0.5	1	ug/l	95		80-120		
Batch number: N143421AA	Sample number(s): 7695410								
Acetone	N.D.	6.	20	ug/l	87	92	55-129	5	30
t-Amyl methyl ether	N.D.	0.5	1	ug/l	94	96	75-120	2	30
Benzene	N.D.	0.5	1	ug/l	102	106	78-120	3	30
Bromobenzene	N.D.	1.	5	ug/l	100	103	80-120	3	30
Bromochloromethane	N.D.	1.	5	ug/l	96	94	80-121	1	30
Bromodichloromethane	N.D.	0.5	1	ug/l	89	91	73-120	2	30
Bromoform	N.D.	0.5	4	ug/l	77	82	61-120	6	30
Bromomethane	N.D.	0.5	1	ug/l	83	81	53-130	2	30
2-Butanone	N.D.	3.	10	ug/l	99	103	54-133	4	30
t-Butyl alcohol	N.D.	5.	20	ug/l	93	98	75-120	6	30
n-Butylbenzene	N.D.	1.	5	ug/l	100	103	68-120	3	30
sec-Butylbenzene	N.D.	1.	5	ug/l	106	110	75-120	4	30
tert-Butylbenzene	N.D.	1.	5	ug/l	99	107	80-120	7	30
Carbon Disulfide	N.D.	1.	5	ug/l	78	80	58-126	3	30
Carbon Tetrachloride	N.D.	0.5	1	ug/l	88	91	74-130	3	30
Chlorobenzene	N.D.	0.5	1	ug/l	102	105	80-120	3	30
Chloroethane	N.D.	0.5	1	ug/l	85	83	56-120	3	30
2-Chloroethyl Vinyl Ether	N.D.	2.	10	ug/l	97	98	62-128	1	30
Chloroform	N.D.	0.5	1	ug/l	95	98	80-122	3	30
Chloromethane	N.D.	0.5	1	ug/l	88	87	63-120	2	30
2-Chlorotoluene	N.D.	1.	5	ug/l	106	108	80-120	2	30
4-Chlorotoluene	N.D.	1.	5	ug/l	104	108	80-120	4	30
1,2-Dibromo-3-chloropropane	N.D.	2.	5	ug/l	89	95	56-120	6	30
Dibromochloromethane	N.D.	0.5	1	ug/l	91	93	72-120	3	30
1,2-Dibromoethane	N.D.	0.5	1	ug/l	102	107	80-120	5	30
Dibromomethane	N.D.	0.5	1	ug/l	94	98	80-120	4	30
1,2-Dichlorobenzene	N.D.	1.	5	ug/l	99	103	80-120	3	30
1,3-Dichlorobenzene	N.D.	1.	5	ug/l	99	103	80-120	3	30
1,4-Dichlorobenzene	N.D.	1.	5	ug/l	99	102	80-120	3	30

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



## Quality Control Summary

Client Name: ChevronTexaco

Group Number: 1522572

Reported: 12/11/14 at 03:38 PM

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Dichlorodifluoromethane	N.D.	0.5	1	ug/l	83	82	55-127	2	30
1,1-Dichloroethane	N.D.	0.5	1	ug/l	98	101	80-120	2	30
1,2-Dichloroethane	N.D.	0.5	1	ug/l	90	93	65-135	4	30
1,1-Dichloroethene	N.D.	0.5	1	ug/l	96	98	76-124	2	30
cis-1,2-Dichloroethene	N.D.	0.5	1	ug/l	101	103	80-120	2	30
trans-1,2-Dichloroethene	N.D.	0.5	1	ug/l	102	103	80-120	1	30
1,2-Dichloropropane	N.D.	0.5	1	ug/l	106	109	80-120	3	30
1,3-Dichloropropane	N.D.	0.5	1	ug/l	104	109	80-120	5	30
2,2-Dichloropropane	N.D.	0.5	1	ug/l	94	97	67-124	3	30
1,1-Dichloropropene	N.D.	1.	5	ug/l	103	107	80-126	4	30
cis-1,3-Dichloropropene	N.D.	0.5	1	ug/l	99	103	80-120	3	30
trans-1,3-Dichloropropene	N.D.	0.5	1	ug/l	101	106	76-120	5	30
Ethanol	N.D.	50.	250	ug/l	77	81	58-139	5	30
Ethyl t-butyl ether	N.D.	0.5	1	ug/l	92	95	69-120	4	30
Ethylbenzene	N.D.	0.5	1	ug/l	99	103	79-120	3	30
Freon 113	N.D.	2.	10	ug/l	86	89	67-127	3	30
Hexachlorobutadiene	N.D.	2.	5	ug/l	80	84	51-125	6	30
2-Hexanone	N.D.	3.	10	ug/l	101	106	57-127	5	30
di-Isopropyl ether	N.D.	0.5	1	ug/l	97	101	61-132	4	30
Isopropylbenzene	N.D.	1.	5	ug/l	97	102	80-120	5	30
p-Isopropyltoluene	N.D.	1.	5	ug/l	98	102	76-120	4	30
Methyl Tertiary Butyl Ether	N.D.	0.5	1	ug/l	91	94	75-120	3	30
4-Methyl-2-pentanone	N.D.	3.	10	ug/l	98	101	51-124	3	30
Methylene Chloride	N.D.	2.	4	ug/l	99	100	80-120	1	30
Naphthalene	N.D.	1.	5	ug/l	92	98	47-126	7	30
n-Propylbenzene	N.D.	1.	5	ug/l	109	113	80-120	3	30
Styrene	N.D.	1.	5	ug/l	98	102	80-120	4	30
1,1,1,2-Tetrachloroethane	N.D.	0.5	1	ug/l	94	97	80-120	3	30
1,1,2,2-Tetrachloroethane	N.D.	0.5	1	ug/l	109	113	70-120	4	30
Tetrachloroethene	N.D.	0.5	1	ug/l	96	100	80-120	4	30
Toluene	N.D.	0.5	1	ug/l	104	108	80-120	4	30
1,2,3-Trichlorobenzene	N.D.	1.	5	ug/l	90	94	68-123	5	30
1,2,4-Trichlorobenzene	N.D.	1.	5	ug/l	90	96	73-120	6	30
1,1,1-Trichloroethane	N.D.	0.5	1	ug/l	85	88	66-126	4	30
1,1,2-Trichloroethane	N.D.	0.5	1	ug/l	104	108	80-120	4	30
Trichloroethene	N.D.	0.5	1	ug/l	99	103	80-120	4	30
Trichlorofluoromethane	N.D.	0.5	1	ug/l	91	87	58-135	4	30
1,2,3-Trichloropropane	N.D.	1.	5	ug/l	103	107	76-120	3	30
1,2,4-Trimethylbenzene	N.D.	1.	5	ug/l	104	108	80-120	4	30
1,3,5-Trimethylbenzene	N.D.	1.	5	ug/l	104	108	80-120	3	30
Vinyl Chloride	N.D.	0.5	1	ug/l	94	92	63-120	2	30
m+p-Xylene	N.D.	0.5	1	ug/l	98	102	80-120	4	30
o-Xylene	N.D.	0.5	1	ug/l	97	101	80-120	4	30
Batch number: 14339A94A	Sample number(s): 7695410,7695412-7695413								
TPH-GRO N. CA water C6-C12	N.D.	50.	100	ug/l	106	105	80-139	1	30
Batch number: 143385713003	Sample number(s): 7695410								
Mercury	N.D.	0.060	0.20	ug/l	104		80-120		
Batch number: 143390639001A	Sample number(s): 7695410								
Antimony	N.D.	0.33	2.0	ug/l	109		80-120		
Arsenic	N.D.	0.82	4.0	ug/l	101		80-120		
Beryllium	N.D.	0.045	1.0	ug/l	104		80-120		
Cadmium	N.D.	0.17	1.0	ug/l	100		80-120		
Chromium	N.D.	0.50	4.0	ug/l	101		80-120		

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: ChevronTexaco

Group Number: 1522572

Reported: 12/11/14 at 03:38 PM

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Cobalt	N.D.	0.10	1.0	ug/l	101		80-120		
Copper	N.D.	0.50	4.0	ug/l	100		80-120		
Lead	N.D.	0.082	2.0	ug/l	101		80-120		
Nickel	N.D.	0.79	4.0	ug/l	103		80-120		
Silver	N.D.	0.13	1.0	ug/l	104		80-120		
Thallium	N.D.	0.15	1.0	ug/l	101		80-120		
Vanadium	N.D.	0.22	1.0	ug/l	103		80-120		
Zinc	N.D.	2.4	30.0	ug/l	104		80-120		
Batch number: 143390639001B	Sample number(s): 7695410								
Selenium	N.D.	0.50	4.0	ug/l	105		80-120		
Batch number: 143390639001C	Sample number(s): 7695410								
Molybdenum	0.30	J	0.25	1.0	ug/l	105	80-120		
Batch number: 143390639001D	Sample number(s): 7695410								
Barium	N.D.	0.58	4.0	ug/l	103		80-120		
Batch number: 14339120101B	Sample number(s): 7695410								
Phenols (water)	N.D.	15.	40	ug/l	92		82-109		
Batch number: 14343117101B	Sample number(s): 7695410								
Total Cyanide (water)	N.D.	5.0	10	ug/l	99		90-110		
Batch number: 14338807901A	Sample number(s): 7695410								
HEM (oil & grease)	N.D.	1,400.	5,000	ug/l	86	85	78-114	1	16

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: F143391AA	Sample number(s): 7695413 UNSPK: P696219								
Benzene	101	99	72-134	1	30				
Ethylbenzene	104	104	71-134	0	30				
Methyl Tertiary Butyl Ether	94	91	72-126	3	30				
Toluene	106	106	80-125	0	30				
Xylene (Total)	102	99	79-125	2	30				
Batch number: 143385713003	Sample number(s): 7695410 UNSPK: P694535 BKG: P694535								
Mercury	101	99	75-125	1	20	N.D.	N.D.	0 (1)	20
Batch number: 143390639001A	Sample number(s): 7695410 UNSPK: 7695410 BKG: 7695410								
Antimony	109	112	75-125	2	20	N.D.	N.D.	0 (1)	20
Arsenic	99	105	75-125	5	20	2.3	J	1.9	J
Beryllium	105	109	75-125	3	20	N.D.	N.D.	0 (1)	20
Cadmium	104	102	75-125	2	20	N.D.	N.D.	0 (1)	20
Chromium	104	103	75-125	1	20	N.D.	N.D.	0 (1)	20
Cobalt	103	101	75-125	2	20	0.62	J	0.72	J
Copper	103	101	75-125	2	20	2.4	J	2.6	J
Lead	105	104	75-125	1	20	N.D.	N.D.	0 (1)	20

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: ChevronTexaco  
Reported: 12/11/14 at 03:38 PM

Group Number: 1522572

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup</u> <u>RPD</u>	<u>Max</u>
Nickel	105	104	75-125	0	20	1.0	1.2	13 (1)		20
Silver	103	101	75-125	2	20	N.D.	N.D.	0 (1)		20
Thallium	105	108	75-125	3	20	N.D.	N.D.	0 (1)		20
Vanadium	104	102	75-125	2	20	N.D.	N.D.	0 (1)		20
Zinc	101	103	75-125	2	20	N.D.	N.D.	0 (1)		20
Batch number: 143390639001B Selenium	Sample number(s): 7695410 UNSPK: 7695410 BKG: 7695410									
	105	101	75-125	3	20	N.D.	N.D.	0 (1)		20
Batch number: 143390639001C Molybdenum	Sample number(s): 7695410 UNSPK: 7695410 BKG: 7695410									
	107	110	75-125	2	20	1.8	1.3	29* (1)		20
Batch number: 143390639001D Barium	Sample number(s): 7695410 UNSPK: 7695410 BKG: 7695410									
	109	111	75-125	0	20	193	194	0		20
Batch number: 14339120101B Phenols (water)	Sample number(s): 7695410 UNSPK: P696330									
	93	99	50-133	6	8					
Batch number: 14343117101B Total Cyanide (water)	Sample number(s): 7695410 UNSPK: P695570 BKG: P695570									
	102		43-137			N.D.	N.D.	0 (1)		20
Batch number: 14338807901A HEM (oil & grease)	Sample number(s): 7695410 UNSPK: P694517									
	85		78-114							

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX/MTBE  
Batch number: F143382AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7695412	92	100	107	102
Blank	92	100	108	102
LCS	93	102	108	103
LCSD	92	103	108	102
Limits:	80-116	77-113	80-113	78-113

Analysis Name: BTEX/MTBE  
Batch number: F143391AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7695413	91	98	109	104
Blank	91	101	109	102
LCS	92	100	109	103
MS	91	101	110	104
MSD	92	101	111	111
Limits:	80-116	77-113	80-113	78-113

\*- Outside of specification

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- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: ChevronTexaco  
Reported: 12/11/14 at 03:38 PM

Group Number: 1522572

### Surrogate Quality Control

Analysis Name: 8260 Full List w/ Sep. Xylenes

Batch number: N143421AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7695410	94	100	99	92
Blank	93	101	99	93
LCS	93	99	102	99
LCSD	92	99	102	99
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12

Batch number: 14339A94A

	Trifluorotoluene-F
7695410	79
7695412	80
7695413	97
Blank	80
LCS	92
LCSD	91
Limits:	63-135

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

# Environmental Analysis Request/Chain of Custody



**Lancaster Laboratories  
Environmental**

Acct. # 10880 Group # 1522572 Sample # 7695410-13

Client: <b>Chevron EMC</b>				<b>Matrix</b>			<b>Analyses Requested</b>										<b>For Lab Use Only</b>																																																																																																	
Project Name/#: <u>Castro Valley</u>		Site ID #: <u>95607</u>		<input type="checkbox"/> Sediment <input checked="" type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Water <input type="checkbox"/> Other:			<b>Preservation Codes</b>										SF #: _____																																																																																																	
Project Manager: <u>Judy Gilbert</u>		P.O. #: <u>Direct Bill To Chevron</u>					<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td>TPH-g by 8015M</td> <td>BTEX by 8260</td> <td>MTBE by 8260</td> <td>METALS by 6020B</td> <td>VOCs by 8260</td> <td>TOG by 1664A</td> <td>Phenolics by 9065</td> <td>CN by 9016</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>										TPH-g by 8015M	BTEX by 8260	MTBE by 8260	METALS by 6020B	VOCs by 8260	TOG by 1664A	Phenolics by 9065	CN by 9016	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SCR #: _____																																																																																	
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Sampler: <u>Darrell Smolko</u>		PWSID #:		<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td colspan="8">Preservation Codes</td> </tr> <tr> <td>H = HCl</td> <td colspan="3">T = Thiosulfate</td> <td colspan="4"></td> </tr> <tr> <td>N = HNO<sub>3</sub></td> <td colspan="3">B = NaOH</td> <td colspan="4"></td> </tr> <tr> <td>S = H<sub>2</sub>SO<sub>4</sub></td> <td colspan="3">P = H<sub>3</sub>PO<sub>4</sub></td> <td colspan="4"></td> </tr> <tr> <td colspan="8">O = Other</td> </tr> </table>										Preservation Codes								H = HCl	T = Thiosulfate							N = HNO <sub>3</sub>	B = NaOH							S = H <sub>2</sub> SO <sub>4</sub>	P = H <sub>3</sub> PO <sub>4</sub>							O = Other								Remarks																																																												
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Phone #: <u>925 334-8617</u>		Quote #:		<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <th colspan="2">Sample Identification</th> <th>Date</th> <th>Time</th> <th>Grab</th> <th>Composite</th> <th>Soil</th> <th>Water</th> <th>Other:</th> <th>Total # of Containers</th> <th>TPH-g by 8015M</th> <th>BTEX by 8260</th> <th>MTBE by 8260</th> <th>METALS by 6020B</th> <th>VOCs by 8260</th> <th>TOG by 1664A</th> <th>Phenolics by 9065</th> <th>CN by 9016</th> <th>Remarks</th> </tr> <tr> <td>EFF-1</td> <td></td> <td><u>12/2/14</u></td> <td><u>1230</u></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> <td><u>11</u></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> </tr> <tr> <td>MID-2</td> <td></td> <td><u>↓</u></td> <td><u>1245</u></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> <td><u>6</u></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td></td> <td><b>HOLD MID-2, SAMPLE ONLY IF MID-1 &gt; N.D.</b></td> </tr> <tr> <td>MID-1</td> <td></td> <td><u>↓</u></td> <td><u>100</u></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> <td><u>6</u></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> </tr> <tr> <td>INF-1</td> <td></td> <td><u>↓</u></td> <td><u>115</u></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> <td><u>6</u></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> </tr> </table>										Sample Identification		Date	Time	Grab	Composite	Soil	Water	Other:	Total # of Containers	TPH-g by 8015M	BTEX by 8260	MTBE by 8260	METALS by 6020B	VOCs by 8260	TOG by 1664A	Phenolics by 9065	CN by 9016	Remarks	EFF-1		<u>12/2/14</u>	<u>1230</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>		<u>11</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			MID-2		<u>↓</u>	<u>1245</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>		<u>6</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<b>HOLD MID-2, SAMPLE ONLY IF MID-1 &gt; 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<b>Turnaround Time Requested (TAT)</b> (please check): Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> (Rush TAT is subject to laboratory approval and surcharges.)				Relinquished by: <u>Darrell Smolko</u>			Date: <u>12/2/14</u> Time: <u>400</u>		Received by:			Date: _____ Time: _____																																																																																																						
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E-mail Address: <u>jgilbert@craworld.com dsmolko@craworld.com</u>				Relinquished by:			Date: _____ Time: _____		Received by:			Date: _____ Time: _____																																																																																																						
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# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m3</b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

**Inorganic Qualifiers**

<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>$ 25%	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<$ 0.995

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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