



**Eric Hetrick**  
Project Manager  
Marketing Business Unit

**Chevron Environmental  
Management Company**  
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Tel (925) 790-6491  
ehetrick@chevron.com

July 27, 2015

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

**RECEIVED**

*By Alameda County Environmental Health 9:44 am, Jul 28, 2015*

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 – May 2015.

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 GHD (formerly Conestoga Rovers Associates), upon who 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 – May 2015



July 27, 2015

Reference No. 311950

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

Re: Monthly Remedial Progress Report – May 2015  
Former Chevron Station 95607  
5269 Crow Canyon Road  
Castro Valley, California  
Fuel Leak Case RO0350

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Dear Mr. Detterman:

GHD Services, Inc (GHD) (formerly Conestoga-Rovers & Associates), on behalf of Chevron Environmental Management Company (Chevron EMC), is providing this Monthly Remedial Progress Report – May 2015 (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 May 2015 and cumulatively (Tables 1 through 4).

DPE system compliance testing and sampling was performed on May 14, 2015 in accordance with system operational permits. During the reporting period, approximately 175 pounds of total petroleum hydrocarbons as gasoline (TPHg), and 2.2 pounds of benzene were removed in vapor phase (Table 4), and approximately 0.6 pounds of TPHg and 0.1 pounds of benzene were removed in dissolved phase (Table 2). A summary of the DPE system operational performance for the month of May 2015 is presented below.

#### VAPOR-PHASE EXTRACTION DATA - MAY 2015

Soil Vapor Influent Flow Rate (avg scfm)	126 scfm
Soil Vapor Laboratory Influent Concentrations (TPHg ppmv)	160 ppmv
Soil Vapor Laboratory Influent Concentrations (Benzene ppmv)	2.8 ppmv
Soil Vapor Mass Removal (lb TPHg/period)	175 pounds
Soil Vapor Mass Removal (lb Benzene/period)	2.2 pounds
Soil Vapor Extraction Period Operating Uptime (hours)	518 hours
Soil Vapor Treatment Destruction Efficiency (%)	99.5 percent

ppmv – parts per million by volume

**DISSOLVED-PHASE EXTRACTION DATA - MAY 2015**

Maximum Groundwater Extraction Rate (gpm)	2.4 gpm
Average Groundwater Extraction Rate (gpm)	1.0 gpm
Dissolved-Phase Mass Removal Rate (lb TPHg/period)	0.60 pounds
Dissolved-Phase Mass Removal Rate (lb Benzene/period)	0.10 pounds
Total Volume Groundwater Treated (gallons)	29,890 gallons
Groundwater Extraction Period Operating Uptime (hours)	616 hours*

\* The DPE system operation was uncoupled on May 14, 2015, which allows the GWE to operate when the SVE system is down.

Please contact Judy Gilbert of GHD at (510) 420-3314, if you have any questions or comments.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES



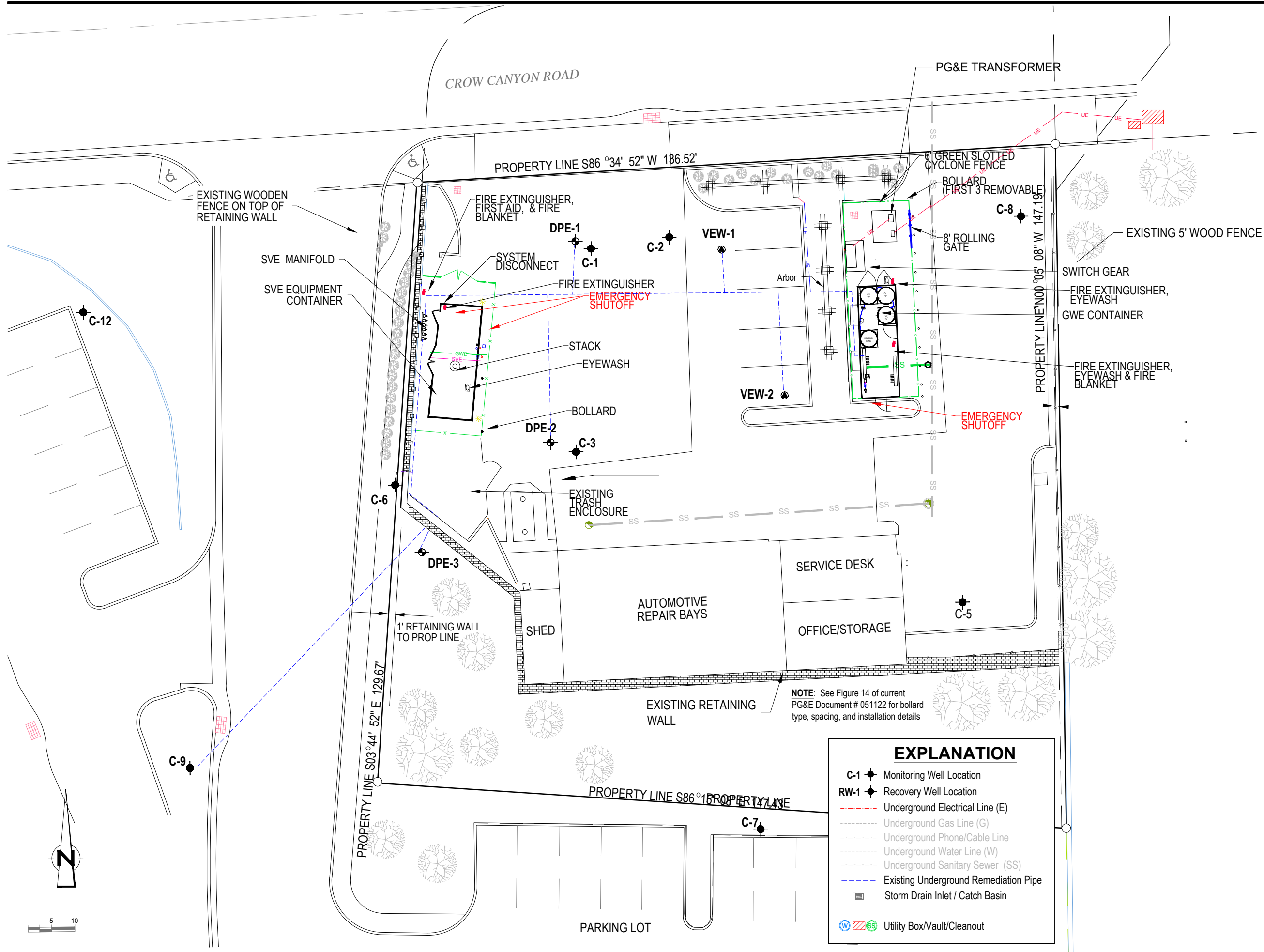
*Brandon S. Wilken*

Brandon S. Wilken, PG 7564

DS/mws/45

- Figure 1      General Site Plan
- Table 1      Groundwater Extraction & Treatment System - Hydrocarbon Analytical Data
- Table 2      Groundwater Extraction & Treatment System - Operational Data & Dissolved Phase Hydrocarbon Mass Removal
- Table 3      Soil Vapor Extraction System - Operational Data
- Table 4      Soil Vapor Extraction System - Analytical Data & Mass Removal
- Attachment A    Air Toxics Laboratory Analytical Report
- Attachment B    Eurofins Lancaster Laboratory Analytical Report
- c.c.:      Mr. Eric Hetrick, Chevron EMC (electronic copy)
- Mr. Kevin Hinkley, Property Owner
- Ms. Diane Riggs, Forest Creek Townhomes Association

Figure



**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:	Date:	Drawing N <sup>o</sup> :
DS	10/10/2014	
Drafted By:	Date:	
DS	10/10/2014	
Reviewed By:	Date:	FIG 1
DK	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**  
**Hydrocarbon Analytical 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
01/14/15	3,700	290	36	33	390	3	<50	<0.5	<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	
02/04/15	4,100	190	14	<0.5	350	3	<50	<0.5	<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	
03/03/15	4,300	280	45	43	320	2	<50	<0.5	<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	6.8
04/16/15	1,800	180	6	0.8	92	2	<50	<0.5	<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	
05/14/15	2,900	570	16	42	89	3	<50	<0.5	<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	

**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

NM = not measured

a = pH measured in the field

J = Estimated value ≥ the Method Detection Limit and < the Limit of Quantitation.

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>1</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>2</sup> (pounds)	Cumulative Removal (pounds)	Benzene Concentration (µg/L)	Period Removal <sup>2</sup> (pounds)	Cumulative Removal (pounds)	MTBE Concentration (µg/L)	Period Removal <sup>2</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				
1/14/15 11:25	DPE-1 - DPE-3, C-9	5,726.6	461,160	24,535	1.2	130,760	3,700	0.757	7.19	290	0.059	0.950	3	0.001	0.005				
1/23/15 14:35	DPE-1 - DPE-3, C-9	5,945.7	472,688	11,528	0.9	142,288	---	0.356	7.55	---	0.028	0.978	---	0.000	0.005				
2/4/15 11:00	DPE-1 - DPE-3, C-9	6,226.7	486,220	13,532	0.8	155,820	4,100	0.463	8.01	190	0.021	1.000	3	0.000	0.006				
2/17/15 14:30	DPE-1 - DPE-3, C-9	6,309.0	491,310	5,090	1.0	160,910	---	0.174	8.18	---	0.008	1.008	---	0.000	0.006				
3/3/15 14:25	DPE-1 - DPE-3, C-9	6,476.0	504,915	13,605	1.4	174,515	4,300	0.488	8.67	280	0.032	1.040	2	0.000	0.006				
3/11/15 11:45	DPE-1 - DPE-3, C-9	6,501.9	507,364	2,449	1.6	176,964	---	0.088	8.76	---	0.006	1.045	---	0.000	0.006				
3/16/15 12:00	DPE-1 - DPE-3, C-9	6,530.6	509,837	2,473	1.4	179,437	---	0.089	8.85	---	0.006	1.051	---	0.000	0.006				
4/2/15 9:30	DPE-1 - DPE-3, C-9	6,754.4	525,400	15,563	1.2	195,000	---	0.558	9.41	---	0.036	1.088	---	0.000	0.006				
4/16/15 14:30	DPE-1 - DPE-3, C-9	7,095.2	546,110	20,710	1.0	215,710	1,800	0.311	9.72	180	0.031	1.119	2	0.000	0.007				
4/30/15 10:20	DPE-1 - DPE-3, C-9	7,332.1	559,100	12,990	0.9	228,700	---	0.195	9.91	---	0.020	1.138	---	0.000	0.007				
5/14/15 12:15	DPE-1 - DPE-3, C-9	7,353.3	562,200	3,100	2.4	231,800	2,900	0.075	9.99	570	0.015	1.153	3	0.000	0.007				
5/29/15 9:30	DPE-1 - DPE-3, C-9	7,612.9	576,000	13,800	0.9	245,600	---	0.334	10.32	---	0.066	1.219	---	0.000	0.007				
<b>Agency Limits</b>																			
<b>Total Extracted Volume (gal):</b>						<b>245,600</b>	<b>Pounds Removed:</b>			<b>0.60</b>	<b>10.32</b>	<b>Pounds Removed:</b>		<b>0.10</b>	<b>1.22</b>	<b>Pounds Removed:</b>		<b>0.00</b>	<b>0.01</b>
<b>Average Operational Flow Rate (gpm)<sup>3</sup>:</b>						<b>1.14</b>	<b>Gallons Removed<sup>4</sup>:</b>			<b>0.10</b>	<b>1.69</b>	<b>Gallons Removed<sup>4</sup>:</b>		<b>0.01</b>	<b>0.17</b>	<b>Gallons Removed<sup>4</sup>:</b>		<b>0.00</b>	<b>0.00</b>
<b>Reporting Period: 4/16/2015 - 5/29/2015</b>						<b>Cumulative Results Since Start-up:</b>													
Number of Days during Reporting Period						43 days	Number Days since Startup						259 days						
Gallons of Extracted Ground Water						29,890 gal	Cumulative Total Gallons Extracted						245,600 gal						
Average Flow Rate						0.96 gpm	Average Flow Rate <sup>3</sup>						1.14 gpm						
Pounds of TPHg Removed						0.604 lbs	Cumulative Pounds of TPHg Removed						10.32 lbs						
TPHg Removal Rate						0.014 lbs/day	TPHg Removal Rate						0.040 lbs/day						
Pounds of Benzene Removed						0.100 lbs	Cumulative Pounds of Benzene Removed						1.219 lbs						
Benzene Removal Rate						0.002 lbs/day	Benzene Removal Rate						0.005 lbs/day						
Pounds of MTBE Removed						0.000 lbs	Cumulative Pounds of MTBE Removed						0.007 lbs						
MTBE Removal Rate						0.000 lbs/day	MTBE Removal Rate						0.000 lbs/day						

**Formulas and Assumptions:**

- Hour meter readings taken at the end of the site visit
  - 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)
  - Average Flow Rate = (Volume of Extracted Water (gal) / Number of Operational Days) \* (60 minutes/hour) \* (24 hours/day)
  - 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  
--- = not measured  
lb = pounds



**Table 3**  
**Soil Vapor 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 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)	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	0.00	4013.5	0%	0.0	NM	3.00	NM	NM	NM	10.0	155	294	259	259	20	747	NM	8000	20.0	663.8	99.8%
9/29/14 14:00	C9, DPE-1 - DPE3, VE-1, VE-2	5.50	4019.0	1.3%	5.5	15.0	2.81	93	165	143	11	189	255	213	213	20	880	NM	NM	0.0	NM	100.0%
10/6/14 11:00	C9, DPE-1 - DPE3, VE-1, VE-2	5.00	4024	3.0%	5.0	15.0	2.81	83	144	127	10	176	255	217	217	25	899	NM	560	0.2	39.0	100.0%
10/13/14 14:00	C9, DPE-1 - DPE-3	106.00	4130	62.0%	106.0	14.5	2.35	68	191	176	10.9	180	268	227	227	0	750	883	1100	5.0	80.1	99.5%
10/20/14 11:30	C9, DPE-1 - DPE-3	166.00	4296	100.3%	166.0	15.0	3.18	79	140	123	10.5	171	255	219	219	0	750	927	650	0.3	45.6	100.0%
10/27/14 11:00	C9, DPE-1, DPE-2	117.00	4413	69.9%	117.0	15.0	4.1	61	161	141	11.6	160	270	236	236	0	750	897	700	0.4	53.1	99.9%
11/6/14 13:15	C9, DPE-3, DPE-2	67.00	4480	27.7%	67.0	20.0	5.0	61	146	123	10.7	61	146	152	123	0	701	900	1250	0.0	60.9	100.0%
11/21/14 13:50	C9, DPE-3, DPE-2	188.60	4669	52.3%	188.6	20.0	5.3	68	132	109	11.1	174	176	151	109	0	698	809	558	0.4	27.0	99.9%
12/2/14 15:15	C9, DPE-3, DPE-2	113.30	4782	42.7%	113.3	20.0	7.4	63	4782	103	78	3.3	169	157	78	0	697	785	1215	0.5	51.8	100.0%
12/16/14 11:30	C9, DPE-3, DPE-2	249.10	5031	75.0%	249.1	18.5	10.2	64	61	41	4.3	172	118	100	100	0	700	750	1650	3.0	52.7	99.8%
12/31/14 10:30	C9, DPE-3, DPE-2	359.10	5390	100.0%	359.1	22.0	10.0	72	133	88	7.2	179	133	112	112	0	698	707	425	5.0	15.2	98.8%
1/14/15 11:25	C9, DPE-3, DPE-2	336.50	5727	99.9%	336.5	23.0	8.1	71	148	107	9.8	176	148	126	126	0	700	752	1,000	0.5	40.4	100%
1/23/15 14:35	C9, DPE-3, DPE-2	219.10	5946	100.0%	219.1	23.0	7.1	76	157	118	9.6	174	157	134	134	0	700	764	915	3.5	39.3	99.6%
2/4/15 11:00	C9 DPE-2	281.00	6227	98.8%	281.0	22.0	8.3	75	137	98	5.9	183	137	114	114	0	698	738	715	0.7	26.2	99.9%
2/17/15 14:30	C9 DPE-2	82.30	6309	26.1%	82.3	21.5	10.1	62	136	91	6.9	170	136	116	116	0	698	682	515	0.1	19.2	100.0%
3/3/15 14:25	C9 DPE-1	167.00	6476	49.7%	167.0	23.0	11.1	79	118	73	4.0	185	118	98	98	0	690	698	295	0.4	9.2	99.9%
3/11/15 11:45	C9 DPE-3	25.90	6502	13.7%	25.9	23.0	10.9	67	118	75	7.2	151	118	104	104	0	710	740	480	0.2	16.0	100.0%
3/16/15 12:00	C9 DPE-3	28.70	6531	23.9%	28.7	23.0	10.2	67	121	80	7.1	175	121	102	102	0	700	689	235	0.0	7.7	100.0%
4/2/15 9:30	C9 DPE-3	223.80	6754	55.2%	223.8	23.0	8.4	73	146	104	10.0	177	146	124	124	0	698	688	125	0.4	5.0	99.7%
4/16/15 14:30	DPE-2, DPE-3	340.80	7095	99.9%	340.8	23.0	8.4	87	137	95	6.8	199	137	112	112	0	699	700	210	0.6	7.5	99.7%
4/30/15 10:20	DPE-1, DPE-2	236.90	7332	71.4%	236.9	23.0	8.2	86	137	96	4.6	193	137	112	112	0	701	699	140	0.8	5.0	99.4%
5/14/15 12:15	DPE-1, VE-2	21.20	7353	6.3%	21.2	23.0	13.0	81	98	54	1.9	187	223	183	183	40	698	693	75	0.0	4.4	100.0%
5/29/15 9:30	DPE-1, VE-2	259.60	7613	72.7%	259.6	23.0	11.8	79	44	26	4.2	180	118	98	98	50	699	724	190	2.3	6.0	98.8%
Reporting Period			518	50.4%	518										126							99.5%

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

**Abbreviations and Notes:**

**Reporting period from April 14, 2015 through May 29,2015**  
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  
ppmv = parts per million by volume  
PID = photo-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. = 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**  
**Soil Vapor Extraction System**  
**Analytical Data Mass Removal**  
**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	3.2	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	2.7	0.7	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	2.7	1.2	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	1.5	10.5	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	1.4	20.6	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	1.6	27.9	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	1.0	31.5	0.0	74.5	0.2	99.6%
11/21/14 13:50	C9, DPE-2, DPE-3*	558	0.01	0.01	558	0.31	0.0020	< 0.002	0.31	27.0	2950.0	0.0	0.0	19.9	0.0	0.0	35.4	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	0.4	36.3	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	0.3	39.8	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	0.3	44.4	0.0	36.6	0.0	100.0%
1/14/15 11:25	C9, DPE-2, DPE-3	870	13.00	4.7	888	0.08	< 0.001	< 0.001	0.08	35.1	4506.7	0.0	0.5	36.8	0.0	0.2	48.0	0.0	35.8	0.0	100.0%
1/23/15 14:35	C9, DPE-2, DPE-3	--	--	--	--	--	--	--	--	37.4	4837.5	0.0	0.5	41.3	0.0	0.2	49.8	0.0	38.1	0.0	100.0%
2/4/15 11:00	C9 DPE-2	800	17	7	824	1.5	0.014	0.0012	1.52	29.3	5227.7	0.1	0.6	47.5	0.0	0.3	52.6	0.0	30.2	0.1	99.8%
2/17/15 14:30	C9 DPE-2	--	--	--	--	--	--	--	--	29.8	5328.9	0.1	0.6	49.5	0.0	0.3	53.6	0.0	30.7	0.1	99.8%
3/3/15 14:25	C9 DPE-1	320	5.4	2.5	328	0.076	< 0.001	< 0.001	0.078	10.0	5467.3	0.0	0.2	52.0	0.0	0.1	54.8	0.0	10.3	0.0	100.0%
3/11/15 11:45	C9 DPE-3	--	--	--	--	--	--	--	--	10.7	5478.4	0.0	0.2	52.2	0.0	0.1	54.9	0.0	10.9	0.0	100.0%
3/16/15 12:00	C9 DPE-3	--	--	--	--	--	--	--	--	10.5	5491.1	0.0	0.2	52.4	0.0	0.1	55.0	0.0	10.8	0.0	100.0%
4/2/15 9:30	C9 DPE-3	--	--	--	--	--	--	--	--	12.7	5599.5	0.0	0.2	54.1	0.0	0.1	55.9	0.0	13.1	0.0	100.0%
4/16/15 14:30	DPE-2, DPE-3	250	2.7	1.1	254	0.84	0.008	0.002	0.850	9.0	5753.5	0.0	0.1	56.1	0.0	0.0	56.9	0.0	9.1	0.0	99.7%
4/30/15 10:20	DPE-1, DPE-2	--	--	--	--	--	--	--	--	9.0	5842.0	0.0	0.1	56.9	0.0	0.0	57.3	0.0	9.1	0.0	99.7%
5/14/15 12:15	DPE-1, VE-2	160	2.8 M	0.71	164	0.11	< 0.001	< 0.001	0.112	9.4	5850.1	0.0	0.1	57.0	0.0	0.0	57.3	0.0	9.6	0.0	99.9%
5/29/15 9:30	DPE-1, VE-2	--	--	--	--	--	--	--	--	5.0	5928.2	0.0	0.1	58.3	0.0	0.0	57.7	0.0	5.2	0.0	99.9%
Permit conditions													<0.017 ppd						>98.5% for >2,000 ppm inlet >97% for >200-<2,000 ppm inlet >90% for <200 ppm inlet		
Period Pounds Removed <sup>9</sup> :										TPHg =	175	Benzene =	2.2	MTBE =	0.8						
Total Pounds Removed:										TPHg =	5,928	Benzene =	58.3	MTBE =	57.7						

**Notes:**

- TPHg, Benzene, and MTBE analyzed by EPA Method 8015/8020. Vapor samples were collected in 1-liter tedlar bags unless otherwise noted.
- Molecular weight of TPHg assumed to be 86 lb/lb-mole as hexane.
- Molecular weight of Benzene assumed to be 78 lb/lb-mole.
- Molecular weight of MTBE assumed to be 88 lb/lb-mole.
- Molecular weight of VOCs assumed to be 86 lb/lb-mole as hexane.
- 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
- Cumulative TPHg / Benzene / MTBE removed = Previous Total + (Average of Previous and Current Removal Rates \* Operation Interval)
- Influent not measured due to water in vapor stream. Individual well samples were collected at a lower vacuum at this time.
- Reporting period from April 16, 2015 through May 29, 2015

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

**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
- M = reported value may be biased due to apparent matrix interferences.

# Attachment A

## Air Toxics Laboratory Analytical Report

5/28/2015

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

Project Name: Castro Valley  
Project #: 311950 2015.1 94.09  
Workorder #: 1505246

Dear Ms. Judy Gilbert

The following report includes the data for the above referenced project for sample(s) received on 5/15/2015 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 #: 1505246**

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>	311950 2015.1 94.09
<b>FAX:</b>	510-420-9170	<b>PROJECT #</b>	311950 2015.1 94.09 Castro Valley
<b>DATE RECEIVED:</b>	05/15/2015	<b>CONTACT:</b>	Kyle Vagadori
<b>DATE COMPLETED:</b>	05/28/2015		

<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: 05/28/15

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# 1505246**

Two 1 Liter Tedlar Bag samples were received on May 15, 2015. 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**

The Chain of Custody (COC) information for sample INF did not match the entry on the sample tag with regard to sample identification. The information on the COC was used to process and report the sample.

**Analytical Notes**

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

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

---

O-Xylene.

**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#: 1505246-01A**

<b>Compound</b>	<b>Rpt. Limit (ppmv)</b>	<b>Rpt. Limit (ug/L)</b>	<b>Amount (ppmv)</b>	<b>Amount (ug/L)</b>
Toluene	0.0010	0.0038	0.0033	0.012
TPH (Gasoline Range)	0.025	0.10	0.11	0.44

**Client Sample ID: INF**

**Lab ID#: 1505246-02A**

<b>Compound</b>	<b>Rpt. Limit (ppmv)</b>	<b>Rpt. Limit (ug/L)</b>	<b>Amount (ppmv)</b>	<b>Amount (ug/L)</b>
Benzene	0.012	0.040	2.8 M	8.9 M
Toluene	0.012	0.047	0.47	1.8
Ethyl Benzene	0.012	0.054	0.38	1.6
Total Xylenes	0.025	0.11	0.87	3.8
Methyl tert-butyl ether	0.012	0.045	0.71	2.6
TPH (Gasoline Range)	0.31	1.3	160	640





Air Toxics

Client Sample ID: EFF

Lab ID#: 1505246-01A

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

<b>File Name:</b>	<b>d051511</b>	<b>Date of Collection:</b> 5/14/15 1:05:00 PM
<b>Dil. Factor:</b>	<b>1.00</b>	<b>Date of Analysis:</b> 5/15/15 03:13 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	0.0033	0.012
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	0.11	0.44

**Container Type: 1 Liter Tedlar Bag**

<b>Surrogates</b>	<b>%Recovery</b>	<b>Method Limits</b>
Fluorobenzene (FID)	116	75-150
Fluorobenzene (PID)	121	75-125



Client Sample ID: INF

Lab ID#: 1505246-02A

MODIFIED EPA METHOD TO-3 GC/PID/FID

File Name:	d051510	Date of Collection:	5/14/15 1:00:00 PM
Dil. Factor:	12.5	Date of Analysis:	5/15/15 02:40 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
Benzene	0.012	0.040	2.8 M	8.9 M
Toluene	0.012	0.047	0.47	1.8
Ethyl Benzene	0.012	0.054	0.38	1.6
Total Xylenes	0.025	0.11	0.87	3.8
Methyl tert-butyl ether	0.012	0.045	0.71	2.6
TPH (Gasoline Range)	0.31	1.3	160	640

M = Reported value may be biased due to apparent matrix interferences.

Q = Exceeds Quality Control limits, possibly due to matrix effects.

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	241 Q	75-150
Fluorobenzene (PID)	204 Q	75-125

Client Sample ID: Lab Blank

Lab ID#: 1505246-03A

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

<b>File Name:</b>	<b>d051506</b>	<b>Date of Collection:</b> NA
<b>Dil. Factor:</b>	<b>1.00</b>	<b>Date of Analysis:</b> 5/15/15 12:18 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)	107	75-150
Fluorobenzene (PID)	112	75-125



Air Toxics

Client Sample ID: LCS

Lab ID#: 1505246-04A

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

File Name:	d051502	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/15/15 09:09 AM

<b>Compound</b>	<b>%Recovery</b>	<b>Method Limits</b>
TPH (Gasoline Range)	82	75-125

Container Type: NA - Not Applicable

<b>Surrogates</b>	<b>%Recovery</b>	<b>Method Limits</b>
Fluorobenzene (FID)	115	75-150



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1505246-04AA

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

File Name:	d051503	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/15/15 09:48 AM

<b>Compound</b>	<b>%Recovery</b>	<b>Method Limits</b>
TPH (Gasoline Range)	82	75-125

Container Type: NA - Not Applicable

<b>Surrogates</b>	<b>%Recovery</b>	<b>Method Limits</b>
Fluorobenzene (FID)	114	75-150



Air Toxics

Client Sample ID: LCS

Lab ID#: 1505246-04B

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

File Name:	d051519b	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/15/15 08:18 PM

Compound	%Recovery	Method Limits
Benzene	80	75-125
Toluene	80	75-125
Ethyl Benzene	82	75-125
Total Xylenes	88	75-125
Methyl tert-butyl ether	79	75-125

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (PID)	103	75-125



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1505246-04BB

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

File Name:	d051520b	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/15/15 08:53 PM

Compound	%Recovery	Method Limits
Benzene	84	75-125
Toluene	82	75-125
Ethyl Benzene	86	75-125
Total Xylenes	91	75-125
Methyl tert-butyl ether	83	75-125

Container Type: NA - Not Applicable

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

# Attachment B

## Eurofins Lancaster Laboratory Analytical Report



## 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

June 03, 2015

**Project: 95607**

Submittal Date: 05/16/2015  
Group Number: 1561841  
PO Number: 0015164161  
Release Number: HETRICK

State of Sample Origin: CA

Client Sample Description

EFF-1-W-051415 Grab Groundwater  
MID-1-W-051415 Grab Groundwater  
INF-1-W-051415 Grab Groundwater

Lancaster Labs (LL) #

7892054  
7892056  
7892057

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/>.

ELECTRONIC    CRA  
COPY TO  
ELECTRONIC    Chevron  
COPY TO

Attn: Judy Gilbert

Attn: CRA EDD

Respectfully Submitted,



Amek Carter  
Specialist

(717) 556-7252

Sample Description: **EFF-1-W-051415 Grab Groundwater**  
**Facility# 95607 CRAW**  
**5269 Crow Canyon Rd-Castro T0600100344**

LL Sample # **WW 7892054**  
 LL Group # **1561841**  
 Account # **10880**

Project Name: **95607**

Collected: 05/14/2015 12:00 by DS

ChevronTexaco

6001 Bollinger Canyon Rd L4310

Submitted: 05/16/2015 10:25

San Ramon CA 94583

Reported: 06/03/2015 16:15

EFF1-

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles SW-846 8260B</b>						
10945	Benzene	71-43-2	N.D.	ug/l 0.5	ug/l 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.	ug/l 50	ug/l 100	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
10945	BTEX/MTBE	SW-846 8260B	1	F151432AA	05/23/2015 05:49	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F151432AA	05/23/2015 05:49	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	15138A53A	05/18/2015 19:21	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15138A53A	05/18/2015 19:21	Marie D Beamenderfer	1

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

Sample Description: MID-1-W-051415 Grab Groundwater  
Facility# 95607 CRAW  
5269 Crow Canyon Rd-Castro T0600100344

LL Sample # WW 7892056  
LL Group # 1561841  
Account # 10880

Project Name: 95607

Collected: 05/14/2015 12:10 by DS

ChevronTexaco

6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

Submitted: 05/16/2015 10:25

Reported: 06/03/2015 16:15

MID1-

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles SW-846 8260B</b>						
10945	Benzene	71-43-2	N.D.	ug/l 0.5	ug/l 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.	ug/l 50	ug/l 100	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
10945	BTEX/MTBE	SW-846 8260B	1	D151381AA	05/18/2015 11:45	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D151381AA	05/18/2015 11:45	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	15138A53A	05/18/2015 13:46	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15138A53A	05/18/2015 13:46	Marie D Beamenderfer	1

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

Sample Description: INF-1-W-051415 Grab Groundwater  
Facility# 95607 CRAW  
5269 Crow Canyon Rd-Castro T0600100344

LL Sample # WW 7892057  
LL Group # 1561841  
Account # 10880

Project Name: 95607

Collected: 05/14/2015 12:30 by DS

ChevronTexaco

6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

Submitted: 05/16/2015 10:25

Reported: 06/03/2015 16:15

INF1-

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles SW-846 8260B</b>			ug/l	ug/l	ug/l	
10945	Benzene	71-43-2	570	10	20	20
10945	Ethylbenzene	100-41-4	42	1	2	2
10945	Methyl Tertiary Butyl Ether	1634-04-4	3	1	2	2
10945	Toluene	108-88-3	16	1	2	2
10945	Xylene (Total)	1330-20-7	89	1	2	2
<b>GC Volatiles SW-846 8015B</b>			ug/l	ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	2,900	50	100	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
10945	BTEX/MTBE	SW-846 8260B	1	D151435AA	05/23/2015 13:58	Daniel H Heller	2
10945	BTEX/MTBE	SW-846 8260B	1	D151435AA	05/23/2015 21:36	Daniel H Heller	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D151435AA	05/23/2015 13:58	Daniel H Heller	2
01163	GC/MS VOA Water Prep	SW-846 5030B	2	D151435AA	05/23/2015 21:36	Daniel H Heller	20
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	15138A53A	05/18/2015 20:16	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15138A53A	05/18/2015 20:16	Marie D Beamenderfer	1

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

## Quality Control Summary

Client Name: ChevronTexaco  
Reported: 06/03/2015 16:15

Group Number: 1561841

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: D151381AA	Sample number(s): 7892056								
Benzene	N.D.	0.5	1	ug/l	113		78-120		
Ethylbenzene	N.D.	0.5	1	ug/l	106		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	1	ug/l	109		75-120		
Toluene	N.D.	0.5	1	ug/l	112		80-120		
Xylene (Total)	N.D.	0.5	1	ug/l	111		80-120		
Batch number: D151435AA	Sample number(s): 7892057								
Benzene	N.D.	0.5	1	ug/l	106		78-120		
Ethylbenzene	N.D.	0.5	1	ug/l	91		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	1	ug/l	100		75-120		
Toluene	N.D.	0.5	1	ug/l	97		80-120		
Xylene (Total)	N.D.	0.5	1	ug/l	96		80-120		
Batch number: F151432AA	Sample number(s): 7892054								
Benzene	N.D.	0.5	1	ug/l	102		78-120		
Ethylbenzene	N.D.	0.5	1	ug/l	98		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	1	ug/l	97		75-120		
Toluene	N.D.	0.5	1	ug/l	102		80-120		
Xylene (Total)	N.D.	0.5	1	ug/l	98		80-120		
Batch number: 15138A53A	Sample number(s): 7892054,7892056-7892057								
TPH-GRO N. CA water C6-C12	N.D.	50.	100	ug/l	100		80-139		

### 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: D151381AA	Sample number(s): 7892056 UNSPK: 7892056								
Benzene	94	97	72-134	3	30				
Ethylbenzene	88	91	71-134	3	30				
Methyl Tertiary Butyl Ether	87	89	72-126	2	30				
Toluene	92	95	80-125	4	30				
Xylene (Total)	90	94	79-125	4	30				
Batch number: D151435AA	Sample number(s): 7892057 UNSPK: P892125								
Benzene	115	113	72-134	2	30				
Ethylbenzene	98	106	71-134	8	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  
Reported: 06/03/2015 16:15

Group Number: 1561841

### 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>BKG</u> <u>MAX</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>
Methyl Tertiary Butyl Ether	101	99	72-126	2	30			
Toluene	103	113	80-125	9	30			
Xylene (Total)	103	111	79-125	8	30			
Batch number: F151432AA      Sample number(s): 7892054      UNSPK: 7892054								
Benzene	105	107	72-134	1	30			
Ethylbenzene	100	105	71-134	5	30			
Methyl Tertiary Butyl Ether	94	95	72-126	0	30			
Toluene	103	105	80-125	2	30			
Xylene (Total)	100	103	79-125	3	30			
Batch number: 15138A53A      Sample number(s): 7892054, 7892056-7892057      UNSPK: P887676								
TPH-GRO N. CA water C6-C12	103	99	92-144	4	30			

### 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: D151381AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7892056	95	100	95	96
Blank	97	98	97	97
LCS	95	101	96	98
MS	96	103	96	99
MSD	94	103	95	97
Limits:	80-116	77-113	80-113	78-113

Analysis Name: BTEX/MTBE  
Batch number: D151435AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7892057	97	99	98	96
Blank	99	100	92	93
LCS	98	102	92	98
MS	98	103	91	100
MSD	95	101	96	98
Limits:	80-116	77-113	80-113	78-113

Analysis Name: BTEX/MTBE  
Batch number: F151432AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7892054	97	100	97	88
Blank	99	102	97	88
LCS	97	103	97	94
MS	98	106	98	95
MSD	97	103	97	95
Limits:	80-116	77-113	80-113	78-113

\*- 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: 06/03/2015 16:15

Group Number: 1561841

### Surrogate Quality Control

Analysis Name: TPH-GRO N. CA water C6-C12  
Batch number: 15138A53A  
Trifluorotoluene-F

---

7892054	96
7892056	97
7892057	134
Blank	98
LCS	111
MS	108
MSD	109

---

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**

051515-02 Acct. # 10880 Group # 1561841 Sample # 7892054-57

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>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="3" style="text-align: center;"><b>Preservation Codes</b></td> </tr> <tr> <td><input type="checkbox"/> Sediment</td> <td><input checked="" type="checkbox"/> Ground</td> <td><input type="checkbox"/> Surface</td> </tr> <tr> <td><input type="checkbox"/> Potable</td> <td><input type="checkbox"/> NPDES</td> <td><input type="checkbox"/> Other:</td> </tr> <tr> <td><input type="checkbox"/> Soil</td> <td><input type="checkbox"/> Water</td> <td><input type="checkbox"/> Other:</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>			<b>Preservation Codes</b>			<input type="checkbox"/> Sediment	<input checked="" type="checkbox"/> Ground	<input type="checkbox"/> Surface	<input type="checkbox"/> Potable	<input type="checkbox"/> NPDES	<input type="checkbox"/> Other:	<input type="checkbox"/> Soil	<input type="checkbox"/> Water	<input type="checkbox"/> Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>Preservation Codes</b>			SF #: _____		
<b>Preservation Codes</b>																											
<input type="checkbox"/> Sediment	<input checked="" type="checkbox"/> Ground	<input type="checkbox"/> Surface																									
<input type="checkbox"/> Potable	<input type="checkbox"/> NPDES	<input type="checkbox"/> Other:																									
<input type="checkbox"/> Soil	<input type="checkbox"/> Water	<input type="checkbox"/> Other:																									
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																									
Project Manager: <u>Judy Gilbert</u>		P.O. #: <u>Direct Bill To Chevron</u>		<b>Total # of Containers</b>			SCR #: _____																				
Sampler: <u>Darrell Smolko</u>		PWSID #:					TPH-g by 8015M	BTEX by 8260	MTBE by 8260	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="3" style="text-align: center;">Preservation Codes</th> </tr> <tr> <td>H = HCl</td> <td colspan="2">T = Thiosulfate</td> </tr> <tr> <td>N = HNO<sub>3</sub></td> <td colspan="2">B = NaOH</td> </tr> <tr> <td>S = H<sub>2</sub>SO<sub>4</sub></td> <td colspan="2">P = H<sub>3</sub>PO<sub>4</sub></td> </tr> <tr> <td colspan="3">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		
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																											
Phone #: <u>925 334 8617</u>		Quote #:		<b>Collection</b>			<b>Remarks</b>																				
State where sample(s) were collected: <u>GWE Effluent MID1 MID2 INF</u>																											
Sample Identification			Date	Time	Grab	Composite	Total # of Containers	TPH-g by 8015M	BTEX by 8260	MTBE by 8260	Other	Other															
EFF-1	<u>5/14/15</u>	<u>1200</u>											6	X	X	X											
MID-2	↓	<u>1220</u>					6	X	X	X		HOLD MID-2, SAMPLE ONLY IF MID-1 > N.D. 24 TAT on MID-1															
MID-1		<u>1220</u>					6	X	X	X																	
INF-1		<u>1230</u>					6	X	X	X																	
<b>Turnaround Time Requested (TAT)</b> (please check): Standard <input checked="" type="checkbox"/> Rush <input checked="" type="checkbox"/> (Rush TAT is subject to laboratory approval and surcharges.)												Relinquished by: <u>Darrell Smolko</u>		Date: <u>5.15.15</u>	Time: <u>0530</u>	Received by: <u>Judy Gilbert</u>	Date: <u>5/15/15</u>	Time: <u>10-</u>									
Date results are needed: <u>MID-1 24 TAT</u>												Relinquished by: <u>Judy Gilbert</u>		Date: <u>15 MAY 15</u>	Time: <u>1630</u>	Received by: <u>FX</u>	Date:	Time:									
Rush results requested by (please check): E-Mail <input type="checkbox"/> Phone <input type="checkbox"/>												Relinquished by: <u>Judy Gilbert</u>		Date:	Time:	Received by:	Date:	Time:									
E-mail Address: <u>jgilbert@croworld.com</u> <u>dsmolko@croworld.com</u>												Relinquished by: <u>Judy Gilbert</u>		Date:	Time:	Received by:	Date:	Time:									
Phone:												Relinquished by: <u>Judy Gilbert</u>		Date:	Time:	Received by:	Date:	Time:									
<b>Data Package Options</b> (please check if required)												Relinquished by: <u>Judy Gilbert</u>		Date:	Time:	Received by:	Date:	Time:									
Type I (Validation/non-CLP)	<input type="checkbox"/>	MA MCP	<input type="checkbox"/>	Relinquished by: <u>Judy Gilbert</u>		Date:	Time:	Received by:	Date:	Time:																	
Type III (Reduced non-CLP)	<input type="checkbox"/>	CT RCP	<input type="checkbox"/>	Relinquished by: <u>Judy Gilbert</u>		Date:	Time:	Received by:	Date: <u>5/16/15</u>	Time: <u>1025</u>																	
Type IV (CLP SOW)	<input type="checkbox"/>	TX TRRP-13	<input type="checkbox"/>	Relinquished by: <u>Judy Gilbert</u>		Date:	Time:	Received by:																			
Type VI (Raw Data Only)	<input type="checkbox"/>			Relinquished by Commercial Carrier:		Temperature upon receipt: <u>1.2</u> °C																					
EDD Required? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, format: <u>Zip File</u>												UPS <input type="checkbox"/> FedEx <input checked="" type="checkbox"/> Other <input type="checkbox"/>															

# 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>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than		
<b>&gt;</b>	greater than		
<b>ppm</b>	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.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	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.		

## Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value  $\geq$  the Method Detection Limit (MDL or DL) and the  $<$  Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column  $>40\%$ . The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column  $>100\%$ . The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

## Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) 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.

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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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