

Mark Horne Project Manager Marketing Business Unit **Chevron Environmental Management Company** 6001 Bollinger Canyon Road San Ramon, CA 94583 Tel (925) 842-0973 markhorne@chevron.com

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

RECEIVED

By Alameda County Environmental Health 9:00 am, Aug 22, 2016

Re: Former Texaco Service Station No. 359766

2700 23rd Avenue Oakland, CA

I have reviewed the attached report titled Second Quarter 2016 Groundwater Monitoring and Sampling Report

I agree with the conclusions and recommendations presented in the referenced report. 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 Services Inc., 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,

Mark Horne Project Manager

Man E Mary

Attachment: Second Quarter 2016 Groundwater Monitoring and Sampling Report



August 17, 2016 Reference No. 062086

Ms. Karel Detterman Alameda County Environmental Health Services 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577

Re: Second Quarter 2016 Groundwater Monitoring and Sampling Report Former Texaco Service Station 359766
2700 23rd Avenue
Oakland, California
ACEH Case RO0003098

Dear Ms. Detterman:

GHD Services Inc. (GHD) is submitting this Second Quarter 2016 Groundwater Monitoring and Sampling Report for the site referenced above (Figure 1) on behalf of Chevron Environmental Management Company (Chevron). Groundwater monitoring and sampling was performed by Blaine Tech Services (Blaine Tech) of San Jose, California. Blaine Tech's Second Quarter 2016 Groundwater Monitoring data package is included as Attachment A. Current groundwater monitoring and sampling data are presented in Table 1 and current data are shown on Figure 2. Eurofins Lancaster Laboratory Environmental, LLCs' of Lancaster, Pennsylvania Analytical Results report is included as Attachment B.

Please contact Kiersten Hoey (510) 420-3347 if you have any questions or require additional information.

Cordially,

GHD

Branch At Ville

Brandon S. Wilken, PG 7564

KH/tl/10

Kiersten Hoey

Encl.

Figure 1 Vicinity Map

Figure 2 Groundwater Elevation Contour and Hydrocarbon Concentration Map

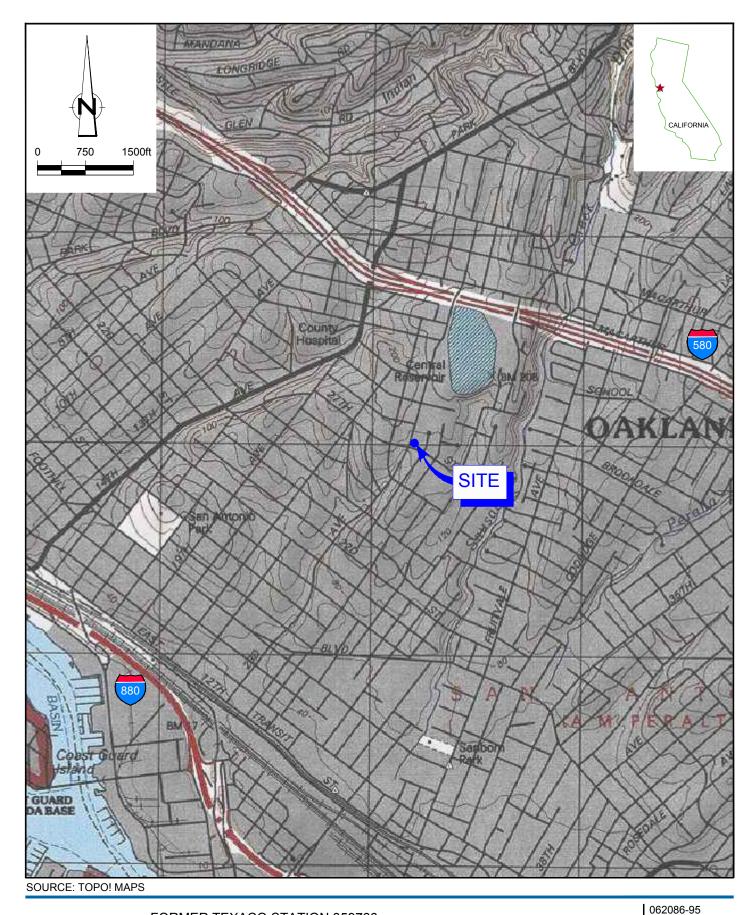
Table 1 Groundwater Monitoring and Sampling Data

Attachment A Monitoring Data Package
Attachment B Laboratory Analytical Report

cc: Mr. Mark Horne, Chevron *(electronic copy)*Pedro and Maria Pulildo, Property Owner

062086-RPT10-2Q16

Figures



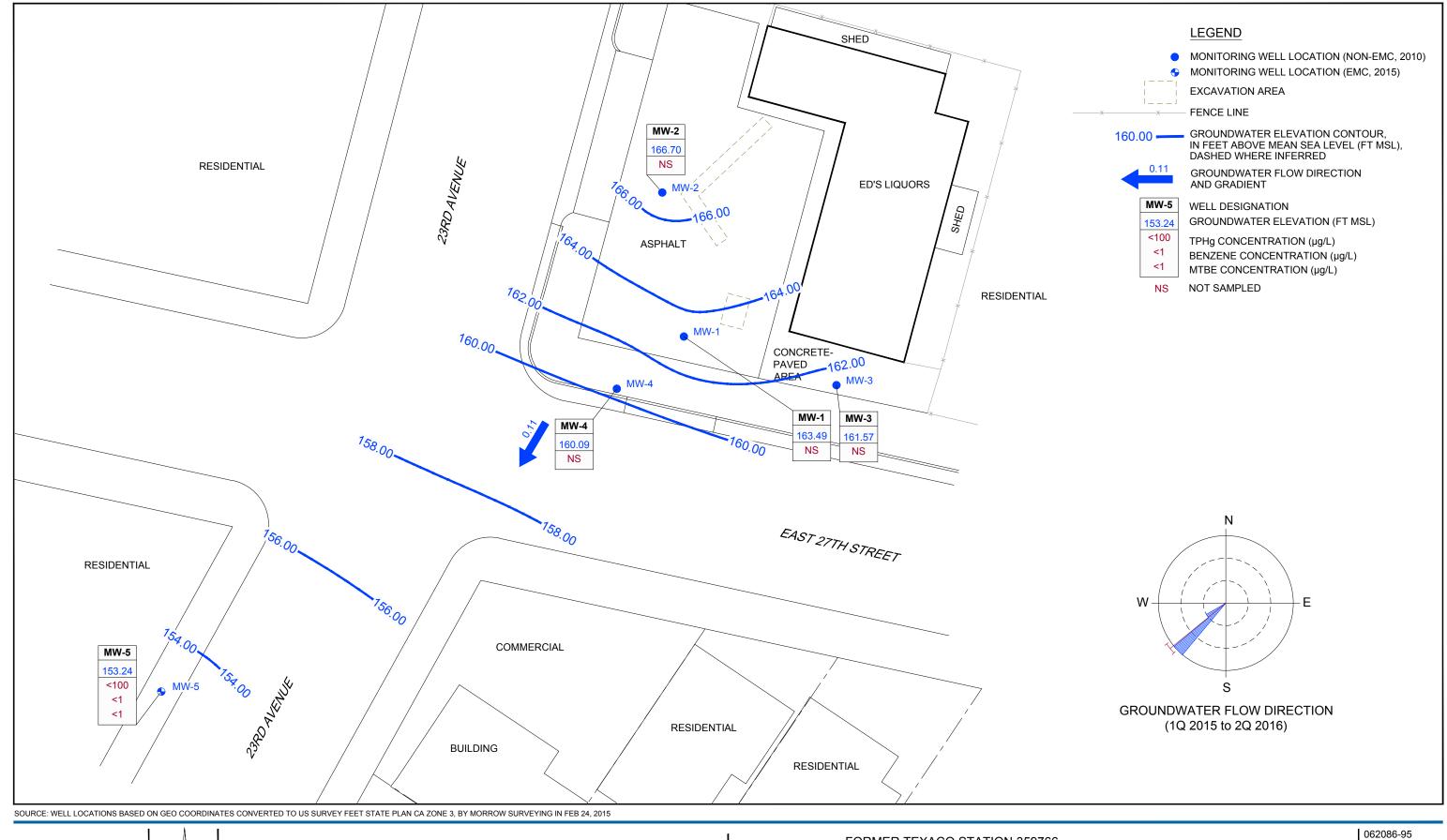


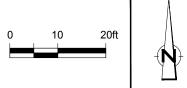
FORMER TEXACO STATION 359766 2700 23rd AVENUE OAKLAND, CALIFORNIA

Jul 29, 2016

VICINITY MAP

FIGURE 1







FORMER TEXACO STATION 359766 2700 23rd AVENUE OAKLAND, CALIFORNIA

GROUNDWATER ELEVATION CONTOUR AND HYDROCARBON CONCENTRATION MAP - JUNE 19, 2016

Aug 4, 2016

Table

Table 1

Groundwater Monitoring and Sampling Data

Former Texaco Service Station 359766 (Ed's Liquors)

2700 23rd Avenue

Oakland, California

					ну	/DROCARBO	ONS	1							/OCS					
					1	S. (OO/INDO														
Location	Date	TOCa	DTW	GWE	трн-мо	TPH-DRO	TPH-GRO	В	т	E	x	MTBE by SW8260	Naphthalene	ТВА	DIPE	ETBE	TAME	1,2-DCA	EDB	ADDITIONAL.
	Units	ft	ft	ft-amsl	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L
																				_
MW-1	11/18/2010 ¹	168.84	7.93	160.91	<250	<50						1.3	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	ND
	02/14/2012 ¹	168.84	7.31	161.53		<50	<50	<0.50	<0.50	<0.50	<0.50	1.2				-				
	03/13/2015	168.90	12.11	156.79			-	-	-					-					-	
	06/19/2015	168.90	11.31	157.59										-						
	09/29/2015	168.90	10.83	158.07																
	12/22/2015	168.90	6.44	162.46		-						-								
	03/28/2016	168.90	6.08	162.82																
	06/19/2016	168.90	5.41	163.49			-	-	-			-	-			-	-	-		-
MW-2	11/18/2010 ¹	170.33	7.52	162.81	<250	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	ND
WW Z	02/14/2012 ¹	170.33	6.37	163.96		<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50								
	03/13/2015	170.41	8.10	162.31																
	06/19/2015	170.41	6.92	163.49																
	09/29/2015	170.41	7.95	162.46																
	12/22/2015	170.41	4.49	165.92																
	03/28/2016	170.41	3.83	166.58																
	06/19/2016	170.41	3.71	166.70				_	_				_				_	_		
	00/13/2010	170.41	5.71	100.10																
MW-3	11/18/2010 ¹	168.67	5.14	161.15	<250	2,100	3,700	<0.5	<0.5	<0.5	0.84	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	$3.0^90.68^d2.0^e2.2^h6.6^f$
	02/14/2012 ¹	168.67	4.98	163.69		<1,500	3,400	< 0.50	< 0.50	1.2	< 0.50	< 0.50								
	03/13/2015	168.71	6.50	162.21																
	06/19/2015	168.71	5.93	162.78																
	09/29/2015	168.71	6.98	161.73										-						
	12/22/2015	168.71	8.01	160.70																
	03/28/2016	168.71	7.04	161.67																
	06/19/2016	168.71	7.14	161.57			-	-	-			-	-			-	-	-		-
MW-4	11/18/2010 ¹	168.40			<250	2,800	26,000	2,800	1,500	550	3,100	<0.5	210	<200	<50	<50	<50	<50	<50	790 ⁱ 210 ^j
	02/14/2012 ¹	168.40	6.45	161.95		<3,000	27,000	1,500	660	520	1,500	<5.0								790 210
	03/13/2015	168.47	10.70	157.77																
	06/19/2015	168.47	9.63	158.84																
	09/29/2015	168.47	11.04	157.43																
	12/22/2015	168.47	10.31	158.16																
	03/28/2016	168.47	9.32	159.15																-
	06/19/2016	168.47	8.38	160.09																_
	00/13/2010	100.77	0.00	100.03																

Table 1

Groundwater Monitoring and Sampling Data Former Texaco Service Station 359766 (Ed's Liquors) 2700 23rd Avenue Oakland, California

					HY	DROCARBO	NS							V	ocs					
Location	Date	TOC ^a	DTW	GWE	ТРН-МО	TPH-DRO	TPH-GRO	В	T	E	X	MTBE by SW8260	Naphthalene	ТВА	DIPE	ЕТВЕ	TAME	1,2-DCA	EDB	ADDITIONAL
	Units	ft	ft	ft-amsl	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L
MW-5	02/26/2015 ² 03/13/2015 06/19/2015 09/29/2015 12/22/2015 03/28/2016 06/19/2016	162.42 162.42 162.42 162.42 162.42 162.42	17.81 16.48 10.92 12.29 13.46 8.22 9.18	144.61 145.94 151.50 150.13 148.96 154.20 153.24	 	 	<50 <50 <50 <50 <100 <100	<0.5 <0.5 <0.5 <0.5 <1 <1	<0.5 <0.5 <0.5 <0.5 <1 <1	<0.5 <0.5 <0.5 <0.5 <1 <1	<0.5 <0.5 <0.5 <0.5 <1 <1	<0.5 <0.5 <0.5 <0.5 <1 <1	 	- - - - -						

Abbreviations and Notes:

-- = Not analyzed

<x and ND = Not detected above the method detection limit x.

Total purgeable petroleum hydrocarbons (TPPH) by EPA Method 8260B

Total petroleum hydrocarbons as motor oil (TPHmo), TPH as diesel (TPHd), and TPH as gasoline (TPHg) by modified EPA Method 8015B

Benzene, Toluene, Ethylbenzene, Xylenes by EPA Method 8260B

Methyl tertiary butyl ether (MTBE), di-isopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), 1,2 dichloroethane (1,2-DCA), 1,2-dibromoethane (EDB), tertiary butyl alcohol (TBA), naphthalene by EPA Method 8260B Volatile organic copmounds (VOCs) by EPA Method 8260B

a = Top of casing elevation was surveyed by Morrow Surveying on February 24, 2015; coordinates are California State Plan Zone 3, from GPS observation using CSDS virtual survey network, coordinate datum is NAD 83, reference geoid is GEOID03, and vertical datus is NAVD 88 from GPS observations. Prior to 2015, a survey was completed by licensed surveyor Ty Hawkins on December 20, 2010; based on California Coordinate System NAD 83, Zone III (2002.00), and elevations based on NAVD 88.

- b = n-butyl benzene
- c = 4-isopropyl toluene
- d = Sec-butyl benzene
- e = Isopropylbenzene
- f = n-propyl benzene
- g = 2-butanone
- h = 4-methyl-2-pentanone
- i = 1,2,4-trimethylbenzene
- j = 1,3,5-trimethylbenzene
- 1 = Sampled by previous consultant
- 2 = Well development

Attachment A Monitoring Data Package



July 26, 2016

Chevron Environmental Management Company Mark Horne 6101 Bollinger Canyon Rd. San Ramon, CA 94583

> Second Quarter 2016 Monitoring at Chevron Service Station 359766 2700 23rd Avenue Oakland, CA

Monitoring performed on June 19, 2016

Blaine Tech Services, Inc. Groundwater Monitoring Event 160619-MM1

This submission covers the routine monitoring of groundwater wells conducted on February 26, 2015 at this location. One monitoring well was measured for depth to groundwater (DTW). One monitoring well was sampled. All sampling activities were performed in accordance with local, state and federal quidelines.

Water levels measurements were collected using an electronic slope indicator. All sampled wells were purged using low flow methodology until water temperature, pH, conductivity, dissolved oxygen and oxidation reduction potential were stabilized. Purging was accomplished using Geotech Peri Pumps. Subsequent sample collection and sample handling was performed in accordance with EPA protocols. Alternately, where applicable, wells were sampled utilizing no-purge methodology. All reused equipment was decontaminated in an integrated stainless steel sink with de-ionized water supplied Hotsy pressure washer and Liquinox or equivalent.

Samples were delivered under chain-of-custody to Lancaster Laboratories, for analysis. Monitoring well purgewater and equipment rinsate water was collected and transported under bill-of-lading to Blaine Tech of San Jose, California.

Second Quarter Groundwater Monitoring at Chevron 359766, 2700 23rd Ave., Oakland, CA

Enclosed documentation from this event includes copies of the Well Gauging Sheet, Well Monitoring Data Sheets, and Chain-of-Custody.

Blaine Tech Services, Inc.'s activities at this site consisted of objective data and sample collection only. No interpretation of analytical results, defining of hydrogeologic conditions or formulation of recommendations was performed.

Please call if you have any questions.

Sincerely,

Dustin Becker

Blaine Tech Services, Inc. Senior Project Manager

attachments: SOP

Well Gauging Sheet

Individual Well Monitoring Data Sheets

Wellhead Inspection Form

Bill of Lading Calibration Log

cc: GHD

Attn: Kiersten Hoey 5900 Hollis St., Suite A Emeryville, CA 94608

BLAINE TECH SERVICES, INC. METHODS AND PROCEDURES FOR THE ROUTINE MONITORING OF GROUNDWATER WELLS AT CHEVRON SITES

Blaine Tech Services, Inc. performs environmental sampling and documentation as an independent third party. We specialize in groundwater monitoring assignments and intentionally limit the scope of our services to those centered on the generation of objective information.

To avoid conflicts of interest, Blaine Tech Services, Inc. personnel do not evaluate or interpret the information we collect. As a state licensed contractor (C-57 well drilling –water – 746684) performing strictly technical services, we do not make any professional recommendations and perform no consulting of any kind.

SAMPLING PROCEDURES OVERVIEW

SAFETY

All groundwater monitoring assignments performed for Chevron comply with Chevron's safety guidelines, 29 CFR 1910.120 and SB-198 Injury and Illness Prevention Program (IIPP). All Field Technicians receive the full 40-hour 29CFR 1910.120 OSHA SARA HAZWOPER course, medical clearance and on-the-job training prior to commencing any work on any Chevron site.

INSPECTION AND GAUGING

Wells are inspected prior to evacuation and sampling. The condition of the wellhead is checked and noted according to a wellhead inspection checklist.

Standard measurements include the depth to water (DTW) and the total well depth (TD) obtained with industry standard electronic water level indicators that are graduated in increments of hundredths of a foot.

The water in each well is inspected for the presence of immiscibles. When free product is suspected, its presence is confirmed using an electronic interface probe (e.g. GeoTech). No samples are collected from a well containing product.

TRADITIONAL PURGING & SAMPLING

Evacuation

Depth to water measurements are collected by our personnel prior to purging and minimum purge volumes are calculated anew for each well based on the height of the water column and the diameter of the well. Expected purge volumes are never less than three case volumes and are set at no less than four case volumes in some jurisdictions.

Well purging devices are selected on the basis of the well diameter and the total volume to be evacuated. In most cases the well will be purged using an electric submersible pump (i.e. Grundfos) suspended near (but not touching) the bottom of the well.

Parameter Stabilization

Well purging completion standards include minimum purge volumes, but additionally require stabilization of specific groundwater parameters prior to sample collection. Typical groundwater parameters used to measure stability are electrical conductivity, pH, and temperature. Instrument readings are obtained at regular intervals during the evacuation process (no less than once per case volume).

Stabilization standards for routine quarterly monitoring of fuel sites include the following: Temperature is considered to have stabilized when successive readings do not fluctuate more than +/- 1 degree Celsius. Electrical conductivity is considered stable when successive readings are within 10%. pH is considered to be stable when successive readings remain constant or vary no more than 0.2 of a pH unit.

Sample Collection

All samples are collected using disposable bailers.

Sample Containers

Sample material is decanted directly from the sampling bailer into sample containers provided by the laboratory that will analyze the samples. The transfer of sample material from the bailer to the sample container conforms to specifications contained in the USEPA T.E.G.D. The type of sample container, material of construction, method of closure and filling requirements are specific to the intended analysis. Chemicals needed to preserve the sample material are commonly placed inside the sample containers by the laboratory or glassware vendor prior to delivery of the bottle to our personnel. The laboratory sets the number of replicate containers.

Dewatered Wells

Normal evacuation removes no less than three case volumes of water from the well. However, less water may be removed in cases where the well dewaters and does not immediately recharge.

Measuring Recharge

Upon completion of well purging, a depth to water measurement is collected and notated to ensure that the well has recharged to within 80% of its static, pre-purge level prior to sampling.

Wells that do not immediately show 80% recharge or dewatered wells will be allowed approximately 2 hours to recharge prior to sampling or will be sampled at site departure. All wells requiring off-site traffic control in the public right-of-way, the 80% recharge rule may be disregarded in the interests of Health and Safety. The sample may be collected as soon as there is sufficient water. The water level at time of sampling will be noted.

Dissolved Oxygen Measurements

Dissolved Oxygen readings are taken pre- and/or post-purge using YSI meters (e.g. YSI Model 550) or HACH field test kits.

The YSI meters are able to collect accurate in-situ readings. The probe allows downhole measurements to be taken from wells with diameters as small as two inches. The probe and reel is decontaminated between wells as described above. The meter is calibrated

as per the instructions in the operating manual. The probe is lowered into the water column and the reading is allowed to stabilize prior to collection.

Oxidation Reduction Potential Measurements (ORP)

All readings are obtained with either Corning or Myron-L meters (e.g. Corning ORP-65 or a Myron-L Ultrameter). The meter is cleaned between wells as described above. The meter is calibrated at the start of each day according to the instruction manual.

LOW FLOW SAMPLING USING SAMPLE-PRO BLADDER PUMP

Calibration

Calibrate YSI Flow Cell as per manufacturer's specifications. Thoroughly rinse probe and cup between parameters. Calibration order as follows:

- 1. pH (use 3-point calibration of 7, 4, 10)
- 2. Specific Conductance
- 3. Temperature

Purging & Sampling Collection

- 1. Insert new bladder into Sample-Pro pump housing.
- 2. Remove dedicated PE tubing from the well or start with new PE tubing cut to the required length.
- 3. Attach the PE tubing to the Sample-Pro Bladder Pump.
- 4. Gently lower the Sample-Pro Bladder Pump, and PE tubing into the well, placing the Sample-Pro Bladder Pump intake at the specified screened interval. Take care to minimize disturbance to the water column.
- Direct effluent line into YSI 556 Flow Cell.
- 6. Set Sample-Pro Bladder Pump speed at 100 500 ml/min.
- 7. Collect water quality parameter measurements for temperature, pH, conductivity, turbidity, DO and ORP every 3-5 minutes.
- 8. Monitor drawdown during purging with electronic water level meter. Record water level with each parameter measurement. MAXIMUM DRAWDOWN IS 0.33 FEET.
- 9. Collect parameter measurements until stability is achieved. Stability is defined as three consecutive measurements where:

Temp \pm 1 ° Celsius pH \pm 0.1 Conductivity \pm 3%

- 10. Sample may be collected once one system has been removed and stability readings have been achieved after the system volume has been removed.
- 11. Disconnect effluent line from YSI 556 Flow Cell.
- 12. Sample through effluent line while maintaining constant flow rate.
- 13. Remove Sample-Pro Bladder Pump, and PE tubing from well.
- 14. Detach and reinstall dedicated PE tubing in well.

PURGEWATER CONTAINMENT

All non-hazardous purgewater evacuated from each groundwater monitoring well is captured and contained in on-board storage tanks on the Sampling Vehicle and/or special water hauling trailers. Effluent from the decontamination of reusable apparatus (sounders, electric pumps and hoses etc.), consisting of groundwater combined with deionized water and non-phosphate soap, is also captured and pumped into effluent tanks.

Non-hazardous purgewater is transported under standard Bill of Lading or Non-Hazardous Waste Manifest to a Blaine Tech Services, Inc. facility before being transported to a Chevron approved disposal facility

TRIP BLANKS

Trip Blanks, if requested, are taken to the site and kept inside the sample cooler for the duration of the event. They are turned over to the laboratory for analysis with the samples from that site.

DUPLICATES

Duplicates, if requested, may be collected at a site.

SAMPLE STORAGE

All sample containers are promptly placed in food grade ice chests for storage in the field and transport (direct or via our facility) to the designated analytical laboratory. These ice chests contain quantities of restaurant grade ice as a refrigerant material. The samples are maintained in either an ice chest or a refrigerator until relinquished into the custody of the laboratory or laboratory courier.

DOCUMENTATION CONVENTIONS

A label must be affixed to all sample containers. In most cases these labels are generated by our office personnel and are partially preprinted. Labels can also be hand written by our field personnel. The site is identified with the store number and site address, as is the particular groundwater well from which the sample is drawn (e.g. MW-1, MW-2, S-1 etc.). The time and date of sample collection along with the initials of the person who collects the sample are handwritten onto the label. Field documentation is contemporaneous.

DECONTAMINATION

All equipment is brought to the site in clean and serviceable condition and is cleaned after use in each well and before subsequent use in any other well. Equipment such as hose reels, pumps and bailers is decontaminated before leaving the site.

The primary decontamination device is a commercial steam cleaner. The steam cleaner is detuned to function as a hot pressure washer that is then operated with high quality deionized water that is produced at our facility and stored onboard our sampling vehicle. Cleaning is facilitated by the use of proprietary fixtures and devices included in the patented workstation (U.S. Patent 5,535,775) that is incorporated in each sampling vehicle.

Any sensitive equipment or parts (i.e. Dissolved Oxygen sensor membrane, water level

indicator, etc.) that cannot be washed using the high pressure water, will be sprayed with a non-phosphate soap and deionized water solution and rinsed with deionized water.

FERROUS IRON MEASUREMENTS

All field measurements are collected at time of sampling with a HACH test kit.

Blaine Tech Services, Inc.

WELL GAUGING DATA

Project # 1606/9-MM/	Date <u>6-19-16</u>	Client <u>GAD</u>
Site 2700 23 rd Ave	Oakland CA	

		Well Size	Sheen /	Depth to	Thickness of	Immiscibles		D. d	Survey Point:	
Well ID	Time	(in.)	Odor	Liquid (ft.)			Depth to water (ft.)	bottom (ft.)	TOB or	Notes
MW-1	0817	2.	1.				5.4/	19.69		
MW-Z	0823	2					3.71	19.69 19.68		
MW-3	08/5	2					· · ·	19,73		
MW-4	৩৪৫১	2	oder				<i>6.3</i> 8	19.64		
Mw-5	08/0	2					8.38 9,18	19.64 19.81	1	
· · · · · · · · · · · · · · · · · · ·		····								

							,			

Project #:	Man 619	-MM [_		Client:	7)	•.			
Sampler:		· · · · · · · · · · · · · · · · · · ·		Start Date	: 6-19-	16.			
Well I.D.:				Well Dian			6 8	A	
Total Wel		19 € 1		Depth to V			***************************************	 9.37)_
Depth to F				Thickness				_/:	
Reference		PVC	Grade	Flow Cell					
Purge Methoo Sampling Me Flow Rate: 2	ethod:	2" Grundf Dedicated	Tubing	URCE! 0835	Peristaltic New Tubin Pump Dept	Pump g	Bladder Pump Other		
Time	Temp.	pH [#]	Cond. (mS or(uS)	Turbidity	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)		ΓW / vations
0838	21.4	7.90	1076	3	0,40	-177	600	9,24	clear
0841	21,5	7.74.	1026	2	0.68	-173	1200	9,27	<u> </u>
0844	21.3	7.70	1006	2	6.99	-165	1800	9.30	
0847	21.6	7.66	986	2	1,40	-156	2400	9.33	
0880	21,7	7.64	983	2.	1,33	-/53	3000	9.35	
0853	21.8	7,64	979	7_	1,39	-151		9,3 1	1
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					,				
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id well de	water?	Yes (No		Amount a	actually e	vacuated: 360	/) A	n C-
ampling T	lime: 06			ar med de de la communicación de la communicac	Sampling				
ample I.D.		•	Tanke ilkonoriikkii kabaankiin oo oo oo oo		Laborator	ry: Lance	acter		
nalyzed fo			BTEX MTB	E TPH-D		Other: 50	ester Le coe	4	
	Blank I.I								

BLAINE TECH SERVICES. INC.

SAN JOSE

SACRAMENTO

LOS ANGELES

SAN DIEGO

SEATTLE

www hlainetech com

CHAIN OF CUSTODY FORM

Chevron Site Number: 35-9766	Chevron Consultant: GHD				ANALYSES REQUIRED										
Chevron Site Global ID: T060000004218									111751	.132	3 11		1142	1	Preservation Codes
·····	Address: 2300 Clay		Concord, CA												H=HCL T=
Chevron Site Address: 2700 23rd Ave., Oakland, CA	Consultant Contac						ļ				SE []				Thiosulfale
Chevron PM: Mark Horne	Consultant Phone			НХОСП	EN	l			TIN		REA			-	N =HNO₃ B = NaOH
Chevron PM Phone No.: (925) 790-3964	Consultant Project			1 1	Screen				ALKALINITY		OIL & GREASE				S = H ₂ SO ₄ O = Other
☑ Retail and Terminal Business Unit (RTBU) Job ☑ Construction/Retail Job	Sampling Company: Blaine Tech Services				오			Ü							
Eli Conditation (Acta) Cop	Sampled By (Print):							STLC 🛚	EPA 310.1		413.1				
	Sampler Signature:				ORO			тсп	EPA		EPA				·
Charge Code: NWRTB-0098247-0-OML NWRTB 00SITE NUMBER-0- WBS (WBS ELEMENTS: SITE ASSESSMENT: A1L REMEDIATION IMPLEMENTATION: R5L SITE MONITORING: OML OPERATION MAINTENANCE & MONITORING: M1L THIS IS A LEGAL DOCUMENT. ALL FIELDS MUST BE FILLED OUT	Lancaster Laboratories Lancaster, PA Lab Contact: Amek Carter	Other Lab	Temp. Blank Check Time Temp.	MTBELL OXYGENATESD	D DRO	MTBE []	Mg, Mn, Na			ONDUCTIVITY		76			Special Instructions Must meet lowest detection limits possible for 8260 compounds
CORRECTLY AND COMPLETELY.	2425 New Holland Pike, Lancaster, PA 17601 Phone No: (717)656-2300			A 8260B/GC/MS H-G D BTEX D	5B GRC	EPA 8021B BTEX □	EPA 6010 Ca, Fe, K, Mg, Mn, Na	EPA6010/7000 TITLE 22 METALS	EPA150.1 PH □	SM2510B SPECIFIC CONDUCTIVITY	418.1 TRPH []) ETHANOL			
SAMPLE ID				826 G F	8	A 802	90.1	3010	50.	5.0	418	192	99		
Field Point Name Matrix Top Depth Date (yymmdd)	Sample Time	# of Containers	Container Type	EPA	EPA 8015B	EPA	EPA	EPA(EPA	SMZ	EPA,	EPA 8260	EPA 8015		Notes/Comment s
MW-5 W SHILLIGH	0854	6	VAA HCC												
QA T (144619)	0800	2	4												
Dalland Internal Co.			/		Tur Sta	narou	und T		24 Ho	urs	 	48 h	oursi	D 72	
Relinquished By Company Date/Time: BTS 6-19-16 /1200 Relinquished By Company Date/Time	1/1/ Contral	201 101 -	6-19-16/1 Date/Time/	200		Hou	urs🗆		Oth	er□		le b	on		
	Relinquished To	Company	6 -/9-/6 // Date/Time/	<u> 200</u>		Hou	urs[] mple		Oth	er⊡ (Che			on ar		

WELLHEAD INSPECTION CHECKLIST

Client GAD						····	Date	6-19	-16	<u></u>
Site Address	2700 3	23 0 A	re c	MKK	ind a	-4				
Job Number					······································		nician	MM		······································
Well ID	Well Inspected - No Corrective Action Required	WELL IS SECURABLE BY DESIGN (12"or less)	WELL IS CLEARLY MARKED WITH THE WORDS "MONITORING WELL" (12° or less)	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
MW-1		Yes	Yes							
MUD-Z		Y205	Yes							
MW-3	V	Yes	7e5							
MW4		yes	Y-l5							
Mw-5	· ·	Yes	<u> </u>		*****					
					,					

					MINE W. C.					
					·					
NOTES:	Mul-Z R	usted Lo	CK NON FI	nekon	4/		<u> </u>			
							——————————————————————————————————————			······································

SOURCE RECORD **BILL OF LADING**FOR PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT CHEVRON FACILITIES IN THE STATE OF CALIFORNIA. THE PURGE- WATER WHICH HAS BEEN RECOVERED FROM GROUNDWATER WELLS IS COLLECTED BY THE CONTRACTOR AND HAULED TO THEIR FACILITY IN SAN JOSE, CALIFORNIA FOR TEMPORARILY HOLDING PENDING TRANSPORT BY OTHERS TO FINAL DESTINATION.

The contractor performing this work is BLAINE TECH SERVICES, INC. (BLAINE TECH), 1680 Rogers Ave. San Jose CA (408) 573-0555). BLAINE TECH. is authorized by Chevron Environmental Management Company (CHEVRON EMC) to recover, collect, apportion into loads, and haul the purgewater that is drawn from wells at the CHEVRON EMC facility indicated below and to deliver that purgewater to BLAINE TECH for temporarily holding. Transport routing of the purgewater may be direct from one CHEVRON EMC facility to BLAINE TECH; from one CHEVRON EMC facility to BLAINE TECH via another CHEVRON EMC facility; or any combination thereof. The well purgewater is and remains the property of CHEVRON EMC.

This **Source Record BILL OF LADING** was initiated to cover the recovery of Non-Hazardous Well Purgewater from wells at the Chevron facility described below:

35-9766			
CHEVRON#		Chevron Engine	er
2700 Z3rd A1	L	Oakland	CA
	street name	city	state

WELL I.D. GALS.	WELL I.D. GALS.
mw-5 1 1	
	,
added equip. / rinse water /	
TOTAL GALS. RECOVERED	loaded onto BTS vehicle #
	time date
**************************************	* * * * * * * * * * * * * * * * * * *
Unloaded/received by signature	

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAI	ME 27.00 Z3	nd Ave		PROJECT NUM	MBER 1606/9-MM	11	
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
YSI PRC PLUS	14A 102848	6-19-16 6630	PA 7.00	PH 7.00 10.00 4/0	Y		mm
)	Cond, 3900	cord 39rr	Y		un
J				ORP 236.2 mm DO 110,8 1/2	Y	20 °€	un
		:					
			`				

Attachment B Laboratory Analytical Report



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

ANALYTICAL RESULTS

Prepared by:

Prepared for:

Eurofins Lancaster Laboratories Environmental 2425 New Holland Pike Lancaster, PA 17601 Chevron 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

Report Date: July 01, 2016

Project: 359766

Submittal Date: 06/23/2016 Group Number: 1675165 PO Number: 0015195463 Release Number: HORNE State of Sample Origin: CA

> Lancaster Labs (LL) # 8440740 8440741

<u>Client Sample Description</u> MW-5-W-160619 NA Water QA-T-160619 NA Water

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 Copy To GHD Attn: Kiersten Hoey
Electronic Copy To Chevron Attn: Anna Avina
Electronic Copy To Blaine Tech Services, Inc. Attn: Dustin Becker
Electronic Copy To Chevron Attn: Report Contact

Respectfully Submitted,

Amek Carter Specialist

(717) 556-7252



Analysis Report

Account

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: MW-5-W-160619 NA Water

Facility# 359766 BTST

2700 23rd Ave-Oakland T10000004218

LL Sample # WW 8440740 LL Group # 1675165

10991

Project Name: 359766

Collected: 06/19/2016 08:54 by MM Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

Submitted: 06/23/2016 09:20 Reported: 07/01/2016 16:32

230M5

CAT No.	Analysis Name		CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846	8260B	ug/l	ug/l	ug/l	
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 But	yl 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
GC Vol	latiles	SW-846	8015B	ug/l	ug/l	ug/l	
01728	TPH-GRO N. CA water	C6-C12	n.a.	N.D.	50	100	1

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	Z161812AA	06/29/2016 12:55	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z161812AA	06/29/2016 12:55	Brett W Kenyon	1
01728	TPH-GRO N. CA water	SW-846 8015B	1	16178C20A	06/28/2016 18:01	Jeremy C Giffin	1
	C6-C12						
01146	GC VOA Water Prep	SW-846 5030B	1	16178C20A	06/28/2016 18:01	Jeremy C Giffin	1

^{*=}This limit was used in the evaluation of the final result



Analysis Report

Account

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax; 717-656-2681 • www.LancasterLabs.com

Sample Description: QA-T-160619 NA Water

Facility# 359766 BTST

2700 23rd Ave-Oakland T10000004218

LL Sample # WW 8440741 LL Group # 1675165

10991

Project Name: 359766

Collected: 06/19/2016 08:00 Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

Submitted: 06/23/2016 09:20 Reported: 07/01/2016 16:32

230QA

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS	Volatiles SW-84	6 8260B	ug/l	ug/l	ug/l	
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
GC Vol	Latiles SW-84	6 8015B	ug/l	ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1

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	Z161812AA	06/29/2016 12	2:31	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z161812AA	06/29/2016 12	2:31	Brett W Kenyon	1
01728	TPH-GRO N. CA water	SW-846 8015B	1	16178C20A	06/28/2016 18	3:29	Jeremy C Giffin	1
	C6-C12							
01146	GC VOA Water Prep	SW-846 5030B	1	16178C20A	06/28/2016 18	3:29	Jeremy C Giffin	1

^{*=}This limit was used in the evaluation of the final result

Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Quality Control Summary

Client Name: Chevron Group Number: 1675165

Reported: 07/01/2016 16:32

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.

Method Blank

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
Batch number: Z161812AA	Sample number(s):	8440740-8440741	
Benzene	N.D.	0.5	1
Ethylbenzene	N.D.	0.5	1
Methyl Tertiary Butyl Ether	N.D.	0.5	1
Toluene	N.D.	0.5	1
Xylene (Total)	N.D.	0.5	1
Batch number: 16178C20A	Sample number(s):	8440740-8440741	
TPH-GRO N. CA water C6-C12	N.D.	50	100

LCS/LCSD

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: Z161812AA	Sample numbe								
Benzene	20	19.46			97		78-120		
Ethylbenzene	20	19.54			98		78-120		
Methyl Tertiary Butyl Ether	20	22.67			113		75-120		
Toluene	20	20.05			100		80-120		
Xylene (Total)	60	59.9			100		80-120		
	ug/l	ug/l	ug/l	ug/l					
Batch number: 16178C20A	Sample numbe	r(s): 8440	740-8440741						
TPH-GRO N. CA water C6-C12	1100	967.25	1100	966.96	88	88	77-120	0	30

MS/MSD

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

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: Z161812AA	Sample numb	er(s): 8440	740-8440	741 UNSPK:	8440740					
Benzene	N.D.	20	22.68	20	20.29	113	101	78-120	11	30
Ethylbenzene	N.D.	20	20.05	20	20.23	100	101	78-120	1	30
Methyl Tertiary Butyl Ether	N.D.	20	18.74	20	18.08	94	90	75-120	4	30

^{*-} Outside of specification

P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

^{**-}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.



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Quality Control Summary

Client Name: Chevron Group Number: 1675165

Reported: 07/01/2016 16:32

MS/MSD (continued)

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

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Toluene	N.D.	20	20.05	20	19.04	100	95	80-120	5	30
Xvlene (Total)	N.D.	60	59.59	60	63.09	99	105	80-120	6	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: Z161812AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8440740	81	102	92	120*
8440741	109	120*	104	94
Blank	102	109	80	92
LCS	90	100	101	100
MS	106	96	96	84
MSD	90	103	91	93
Limits	80-116	77-113	80-113	78-113

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

Batch number: 16178C20A

	Trifluorotoluene-F
8440740	92
8440741	88
Blank	88
LCS	103
LCSD	94

Limits: 63-135

P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

^{*-} Outside of specification

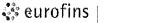
^{**-}This limit was used in the evaluation of the final result for the blank

⁽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.

CHAIN OF CUSTODY FORM

Ch	nevron	Environi	nental Mana	gement Compan	y ■ 6111 Bol	linger Canyon	Rd. 	Sai	ı Ra	amo	n, (CA	945	83		CC	C_	<u>/</u> of <u>/</u>
Chevron Site Number:				Chevron Consulta	nt: <u>GHD</u>		H			T		ANAL	YSE	SRE	QUI	RED		Preservation Codes
Chevron Site Global ID	: <u>T060000</u>	0004218		Address: 2300 Clay	rton Rd., Ste. 920, C	Concord, CA	T											
Chevron Site Address:	2700 23°	d Ave., Oaklan	d, CA	Consultant Contac	t: Nathan Lee	Kiersten Hoey		_										H =HCL T= Thiosulfate
Chevron PM: Mark Hor	ne			Consultant Phone			НХОСП	SCREEN				ALKALINITY		GREASE				N =HNO ₃ B = NaOH
Chevron PM Phone No		00 3064		Consultant Project	No. 160	619-MM1		CREE				ALII		& GF				S = H ₂ SO ₄ O =
				Sampling Compan							r-1			Ö				Other
☒ Retail and Terminal☒ Construction/Retail		Onit (RTBU)	Job	Sampling Company Sampled By (Print			OXYGENATES				STLC	310.1		413.1				10991
							EN	ORO				EPA 3		EPA 4				1675165
				Sampler Signature			KYG	P.			TTLC []	ü		E				8440740-
Charge Code: NWR	TB-0098	247-0-OML JMBER-0-WI	00	Lancaster	Other Lab	Temp. Blank Check Time Temp.	6	Ш										Special Instructions
(WBS ELEMENTS:				Laboratories		0600 200	E E	DRO		Na	Ls 🗆		ΥLIV					Must meet lowest detection limits possible
SITE ASSESSMENT: A1L SITE MONITORING: OML	REMEDIATION	ON IMPLEMENTAT MAINTENANCE 8	ION: R5L MONITORING: M1L	☑ Lancaster, PA Lab Contact: Amek		202 0000	MTBEM		MTBE	Mn,	METALS		UCTI					for 8260 compounds
THIS IS A LEGAL DOCL				Carter				Ø	1	K, Mg, Mn,	52		CONDUCTIVITY		ᆼ			
		COMPLETE		0405 New Helland Dike			SC/MS BTEX 🖾	GRO 🖪		Ϋ́,	Ę		ပ္ပ		ETHANOL			
				2425 New Holland Pike, Lancaster, PA 17601			8260B/GC/MS		BTEX	a, Fe,	00 T	무	ECIF	RPH	ㅁ	TPH-D		
				Phone No: (717)656-2300			90B/(5B		.6010 Ca, I	0//0	17.	BSF	11.	0	5		
	SAMPI	_E ID	r			826	EPA 8015B	EPA 8015B EPA 8021B	, 601	EPA6010/7000 TITLE	EPA150.1 PH□	SM2510B SPECIFIC	EPA 418.1 TRPH	EPA 8260	8015			
Field Point Name	Matrix	Top Depth	Date (yymmdd)	Sample Time	# of Containers	Container Type	EPA 826 TPH-G	EPA	EPA	EPA	EPA	EPA	SMZ	EPA	EPA	EPA		Notes/Comment s
MU-5-11-161906	3		949 (1606)	0854	6	VOA 4CC	X	X										mu-5-U-161906
QA-W-161906	7		(1406/9)	0800	2	1	1	X										
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Relinguished By	Com	pany [Date/Time: /	Relinguished To	Company	Date/Time /		L	Tui	naro	und T	ime:	<u></u>					
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Relinquished By			19-16 /1200 Date/Time	Relinquished To	Company	Date/Time					Integ	rity:		ck by	lab	on ar	rival)
			116/1500	Commence					Inta	act: 🎍	/	On I	ce:	/	Te	mp:	B.O	
Relinquished By	Com		Date/Time	Relinguished To	Company	Date/Time		-		<u>.</u>				(coc	# 5	828	21
· 1 - U.S. and Anthony and Ant					ELLE	C13W/97	U		<u> </u>									



Sample Administration Receipt Documentation Log

Doc Log ID:

151343

Group Number(s): (675165

Client: Chevron

Clayton Rd.

Delivery and Receipt Information

Delivery Method:

<u>UPS</u>

Arrival Timestamp:

06/23/2016 9:20

Number of Packages:

1

Number of Projects:

2

Arrival Condition Summary

Shipping Container Sealed:

Yes

Sample IDs on COC match Containers:

Yes

Custody Seal Present:

Yes

Sample Date/Times match COC:

Yes

Custody Seal Intact:

Yes

VOA Vial Headspace ≥ 6mm:

N/A

Samples Chilled:

Yes

Total Trip Blank Qty:

0

Paperwork Enclosed:

Yes

Air Quality Samples Present:

No

Samples Intact:

Yes

Missing Samples:

No

Extra Samples:

No

Discrepancy in Container Qty on COC:

No

Unpacked by Timothy Cubberley (6520) at 09:29 on 06/23/2016

Samples Chilled Details: Clayton Rd.

Thermometer Types:

DT = Digital (Temp. Bottle)

IR = Infrared (Surface Temp)

All Temperatures in °C.

Cooler # Thermometer ID

1 DT131

Corrected Temp

Therm, Type

Ice Type | Ice Present?

Ice Container

Elevated Temp?

1 DT131

8.0

DT

Wet

Υ

Bagged

N



Explanation of Symbols and Abbreviations

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

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

< less than

> 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 basisResults 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 ≥ 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, and ISO 17025) 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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