Carryl MacLeod
Project Manager, Marketing Business Unit

Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

RECEIVED
By Alameda County Environmental Health 9:55 am, May 08, 2017

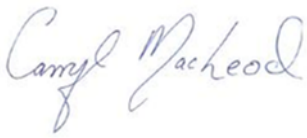
Re: Former Texaco Service Station No. 359766
2700 23rd Avenue
Oakland, California
ACEH Case RO0003098

I have read and acknowledge the content, recommendations and/or conclusions contained in the attached *First Quarter 2017 Groundwater Monitoring and Sampling Report* submitted on my behalf to ACDEH's FTP server and the SWRCB's GeoTracker website.

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,



Carryl MacLeod
Project Manager

Attachment: *First Quarter 2017 Groundwater Monitoring and Sampling Report*

Chevron Environmental Management Company
6001 Bollinger Canyon Road, San Ramon, CA 94583
Tel 925 842 3201
CarrylMacLeod@chevron.com

May 5, 2017 Reference No. 062086

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

Re: First Quarter 2017 Groundwater Monitoring and Sampling Report
Former Texaco Service Station 359766
2700 23rd Avenue
Oakland, California
ACEH Case RO0003098

Dear Ms. Detterman:

GHD is submitting this *First Quarter 2017 Groundwater Monitoring and Sampling Report* for the site referenced above (Figure 1) on behalf of Chevron Environmental Management Company (CEMC). Groundwater monitoring and sampling was performed by Blaine Tech Services (Blaine Tech) of San Jose, California and their *First Quarter 2017 Monitoring Report* is included as Attachment A. Current and historical groundwater monitoring and sampling data are summarized in Table 1 and presented on Figure 2. Eurofins Lancaster Laboratory Environmental, LLCs' of Lancaster, Pennsylvania, *Analytical Results* report is included as Attachment B.

1. Results of First Quarter 2017 Event

On March 7, 2017, Blaine Tech monitored and sampled the site wells per the established schedule. Results of the current monitoring event indicate the following:

- Groundwater Flow Direction — Southwest
- Hydraulic Gradient — 0.09
- Approximate Depth to Water — 3 to 11 feet below grade

GHD
5900 Hollis Street Suite A Emeryville California 94608 USA
T 510 420 0700 **F** 510 420 9170 **W** www.ghd.com

Results of the current sampling event are presented below in Table A.

Table A: Groundwater Analytical Data

Well ID	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
ESLs	100	1	40	30	17	5
MW-1	<100	**4**	0.6J	<1	0.6J	0.9J
MW-2	<100	<1	<1	<1	<1	<1
MW-3	**4,400**	0.5J	0.7J	3	1	<1
MW-4	**16,000**	**1,300**	**220**	**380**	**560**	<10
MW-5	<100	<1	<1	<1	<1	<1

µg/L Micrograms per liter
TPHg Total Petroleum Hydrocarbons as Gasoline
MTBE Methyl Tertiary Butyl Ether
< Indicates constituent was not detected at or above laboratory reporting limit.
J Estimated value
ESL Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Prepared by California Regional Water Quality Control Board San Francisco Bay Region, Interim Final - November 2007, (Revised May 2008), Table F-1a-Groundwater Screening Levels-Current or Potential Drinking Water Resource.
Bold **I**ndicates results above the drinking water environmental screening level (ESL).

2. Conclusions and Recommendations

Results of this first quarter 2017 groundwater monitoring and sampling event are consistent with past events and indicate:

- Dissolved TPHg and BTEX impacts are centered on well MW-4, immediately downgradient of the source area (former USTs and dispensers) and are defined downgradient by well MW-5 and upgradient by MW-1 and MW-2 (Figure 2).
- Concentrations detected in wells MW-3 and MW-4 are within the same order of magnitude as historical concentrations.
- MTBE concentrations are below environmental screening limits and/or laboratory reporting limits in all wells.

3. Anticipated Future Activities

Blaine Tech will monitor and sample site wells per the established schedule and GHD will submit a groundwater monitoring and sampling report.

GHD will submit a Data Gap Work Plan and Updated Site Conceptual Model as requested by the Alameda County Department of Environmental Health letter dated February 10, 2017.

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

Cordially,

GHD

Kiersten Hoey

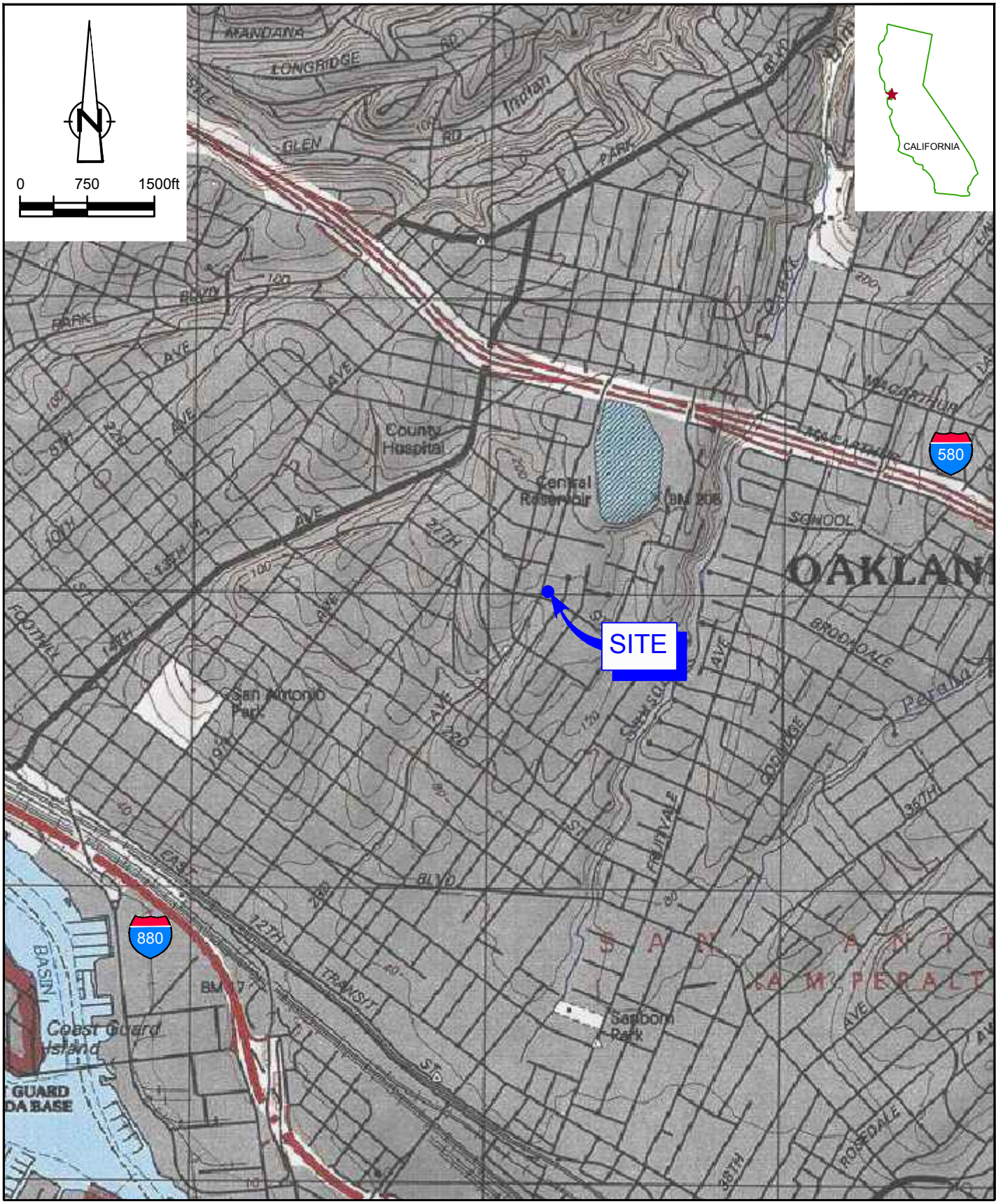
Ana Friel, PG 6452

KH/cw/13
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: Ms. Carryl MacLeod, Chevron EMC *(electronic copy)*
Pedro and Maria Pulildo, Property Owner

Figures



SOURCE: TOPO! MAPS

FORMER TEXACO STATION 359766
2700 23rd AVENUE
OAKLAND, CALIFORNIA

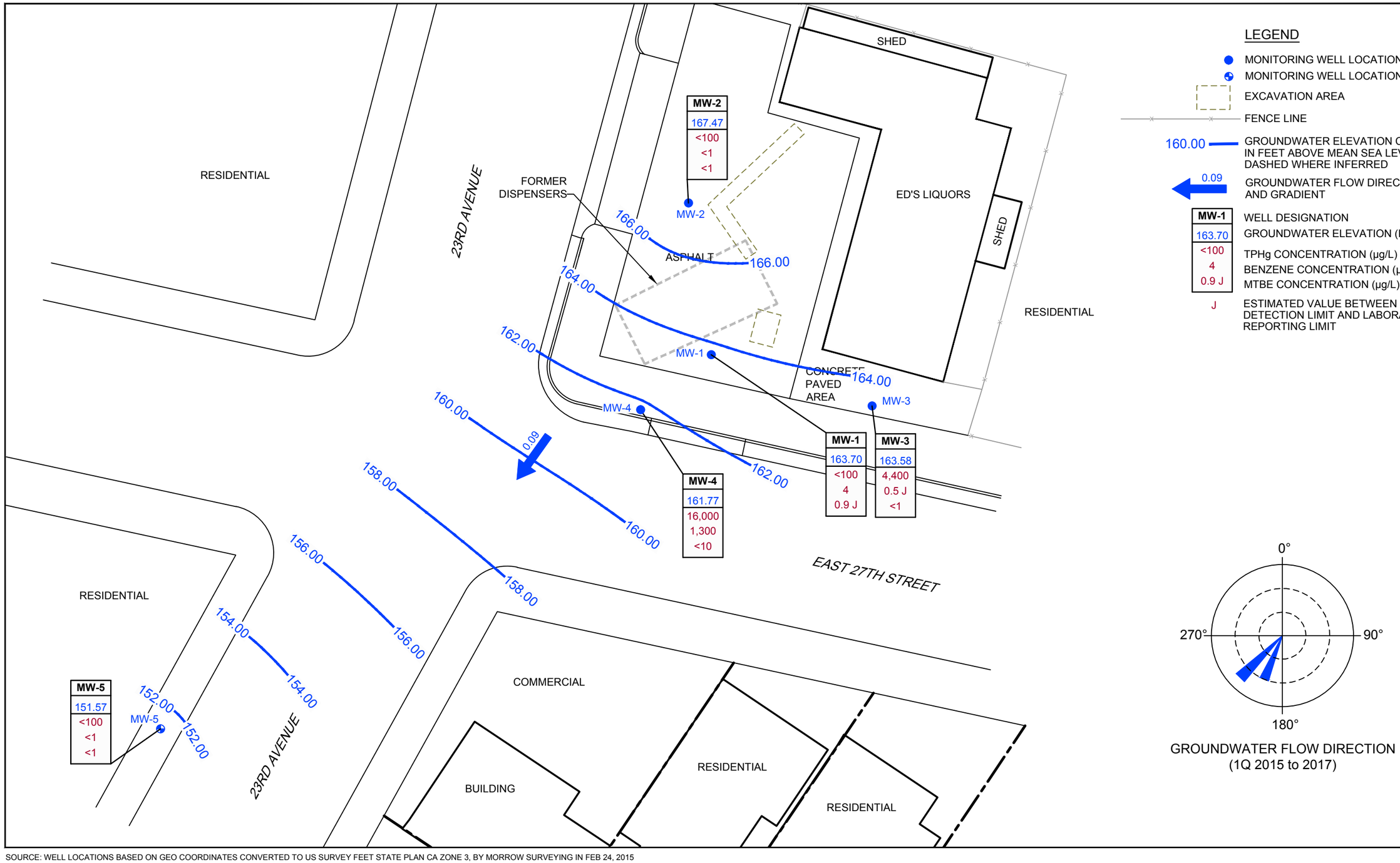
62086-95

Mar 29, 2017

VICINITY MAP

FIGURE 1

CAD File: P:\drawings\62000s\62086\62086-REPORTS\62086-95(013)\62086-95(013)GN\62086-95(013)GN-WA001.DWG



SOURCE: WELL LOCATIONS BASED ON GEO COORDINATES CONVERTED TO US SURVEY FEET STATE PLAN CA ZONE 3, BY MORROW SURVEYING IN FEB 24, 2015

0 10 20ft

FORMER TEXACO STATION 359766
2700 23rd AVENUE
OAKLAND, CALIFORNIA

GROUNDWATER ELEVATION CONTOUR AND HYDROCARBON CONCENTRATION MAP - MARCH 7, 2017

62086-95

Apr 24, 2017

FIGURE 2

CAD File: P:\drawings\62000s\62086\62086-REPORTS\62086-95(013)\62086-95(013)GN\62086-95(013)GN-WA002.DWG

Table

Table 1

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

					HYDROCARBONS			VOCS												
Location	Date	TOC[a]	DTW	GWE	TPH-MO	TPH-DRO	TPH-GRO	B	T	E	X	MTBE by SW8260	Naphthalene	TBA	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/08/2016	168.90	5.79	163.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/16/2016	**168.90**	**7.72**	**161.18**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
	03/07/2017	**168.90**	**5.20**	**163.70**	**--**	**--**	**<100**	**4**	**0.6 J**	**<1**	**0.6 J**	**0.9 J**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
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
	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/08/2016	170.41	4.77	165.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/16/2016	170.41	5.92	164.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/07/2017	**170.41**	**2.94**	**167.47**	**--**	**--**	**<100**	**<1**	**<1**	**<1**	**<1**	**<1**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
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[g] 0.68[d] 2.0[e] 2.2[h] 6.6[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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/08/2016	168.71	9.81	158.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/16/2016	168.71	8.97	159.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/07/2017	**168.71**	**5.13**	**163.58**	**--**	**--**	**4,400**	**0.5 J**	**0.7 J**	**3**	**1**	**<1**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	

Table 1

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

					HYDROCARBONS			VOCS												
Location	Date	TOC[a]	DTW	GWE	TPH-MO	TPH-DRO	TPH-GRO	B	T	E	X	MTBE by SW8260	Naphthalene	TBA	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-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[i]
	02/14/2012[1]	168.40	6.45	161.95	--	<3,000	27,000	1,500	660	520	1,500	<5.0	--	--	--	--	--	--	--	--
	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/08/2016	168.47	8.60	159.87	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/16/2016	168.47	10.21	158.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	03/07/2017	**168.47**	**6.70**	**161.77**	**--**	**--**	**16,000**	**1,300**	**220**	**380**	**560**	**<10**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	02/26/2015[2]	162.42	17.81	144.61	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	03/13/2015	162.42	16.48	145.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/19/2015	162.42	10.92	151.50	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	09/29/2015	162.42	12.29	150.13	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	12/22/2015	162.42	13.46	148.96	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	03/28/2016	162.42	8.22	154.20	--	--	<100	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--
	06/19/2016	162.42	9.18	153.24	--	--	<100	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--
	09/08/2016	162.42	10.78	151.64	--	--	<100	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--
	12/16/2016	162.42	10.99	151.43	--	--	<100	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--
	03/07/2017	**162.42**	**10.85**	**151.57**	**--**	**--**	**<100**	**<1**	**<1**	**<1**	**<1**	**<1**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	

Table 1

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

					HYDROCARBONS			VOCS												
Location	Date	TOC[a]	DTW	GWE	TPH-MO	TPH-DRO	TPH-GRO	B	T	E	X	MTBE by SW8260	Naphthalene	TBA	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

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

BLAINE
TECH SERVICES INC.

GROUNDWATER SAMPLING SPECIALISTS
SINCE 1985

March 14, 2017

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

First Quarter 2017 Monitoring at
Site Number 35-9766
2700 23rd Ave
Oakland, CA

Monitoring performed on March 7, 2017

Blaine Tech Services, Inc. Groundwater Monitoring Event 170307WW-2

This submission covers the routine monitoring of groundwater wells conducted on March 7, 2017 at this location. Five monitoring wells were measured for depth to groundwater (DTW) and presence of separate-phase hydrocarbons (SPH). Five monitoring wells were sampled. All sampling activities were performed in accordance with local, state and federal guidelines.

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 of Lancaster, Pennsylvania, for analysis. Monitoring well purgewater and equipment rinsate water was collected and transported under bill-of-lading to Blaine Tech of San Jose, California.

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

SAN JOSE 1680 ROGERS AVENUE SAN JOSE, CA 95112-1105 (408) 573-0555
SACRAMENTO
LOS ANGELES FAX (408) 573-7771
SAN DIEGO LIC. 746684 www.blainetech.com

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,

Ryan Prevost
Blaine Tech Services, Inc
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 Street , Suite A
Emeryville, CA 94608

SAN JOSE SACRAMENTO LOS ANGELES SAN DIEGO
1680 ROGERS AVENUE SAN JOSE, CA 95112-1105 (408) 573-0555 FAX (408) 573-7771 LIC. 746684 www.blainetech.com

WELL GAUGING DATA

Project # 170307-WW2 Date 3-7-17 Client CHEVRON

Site 2700 23RD AVE, OAKLAND, CA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or (TOC)	Notes
MW-1	1303	2					5.20	19.69		
MW-2	1256	2					2.94	19.64		
MW-3	1315	2	ODOR				5.13	19.70		
MW-4	1314	2	ODOR				6.70	19.62		
MW-5	1322	2	ODOR				10.85	19.79	↓	

LOW FLOW WELL MONITORING DATA SHEET

Project #: 170307-WW2	Client: CHEVRON
Sampler: WW	Start Date: 3-7-17
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 19.69	Depth to Water Pre: 5.20 Post: 5.53
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump | Watterra | (Peristaltic Pump) | Bladder Pump | Other ___

Sampling Method: (Dedicated Tubing) | Disp Bailer | New Tubing | Other ___

Flow Rate: 100 mL/min | Pump Depth: 18'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	DTW / Observations
1456	20.91	7.07	741	50	2.46	-122.3	300	5.33
1459	20.98	6.82	745	46	2.00	-118.4	600	5.42
1502	21.25	6.77	748	43	1.88	-130.4	900	5.53
1505	21.20	6.80	751	47	1.80	-134.1	1200	5.53
1508	21.04	6.79	750	43	1.73	-136.8	1500	5.53

Did well dewater? Yes (No) Amount actually evacuated: 1500 gals. or (mL)

Sampling Time: 1510 Sampling Date: 3-7-17

Sample I.D.: MW-1-W-170307 Laboratory: LANCASTER

Analyzed for: (TPH-G BTEX MTBE) TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 170307-MW2	Client: CHEVRON
Sampler: MW	Start Date: 3-7-17
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 19.64	Depth to Water Pre: 2.94 Post: 3.27
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump | Watterra | (Peristaltic Pump) | Bladder Pump | Other ___

Sampling Method: Dedicated Tubing | Disp Bailer | (New Tubing) | Other ___

Flow Rate: 100 ml/min Pump Depth: 18'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	DTW / Observations
1358	18.89	7.50	715	165	1.94	-129.1	300	3.11
1401	17.80	7.39	723	128	1.70	-136.8	600	3.27
1404	17.97	7.29	722	126	1.53	-132.5	900	3.27
1407	18.04	7.29	722	126	1.50	-132.1	1200	3.27
1410	17.98	7.29	722	118	1.44	-137.2	1500	3.27

Did well dewater? Yes (No) Amount actually evacuated: 1500 gals. or (ml)

Sampling Time: 1415 Sampling Date: 3-7-17

Sample I.D.: MW-2-W-170307 Laboratory: LANCASTER

Analyzed for: (TPH-G BTEX MTBE) TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 170307-MW2	Client: CHEVRON
Sampler: MW	Start Date: 3-7-17
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 19.70	Depth to Water Pre: 5.13 Post: 5.35
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump | Watterra | (Peristaltic Pump) | Bladder Pump | Other ____

Sampling Method: Dedicated Tubing | Disp Bailer | New Tubing | Other ____

Flow Rate: 100 ml/min Pump Depth: 18'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ml)	DTW / Observations
1522	19.62	6.43	568	67	1.37 ~~5.62~~	-130.0	300	5.16
1525	19.69	6.37	574	62	1.23	-133.8	600	5.19
1528	19.51	6.34	584	56	1.04	-145.7	900	5.22
1531	19.42	6.35	585	53	0.95	-148.8	1200	5.29
1534	19.30	6.37	588	51	0.94	-150.3	1500	5.35

Did well dewater? Yes (No) Amount actually evacuated: 1500 gals. or ml

Sampling Time: 1535 Sampling Date: 3-7-17

Sample I.D.: MW-3-W-170307 Laboratory: LANCASTER

Analyzed for: (TPH-G BTEX MTBE) TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 170307-MW2	Client: CHEVRON
Sampler: MW	Start Date: 3-7-17
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 19.62	Depth to Water Pre: 6.70 Post: 7.03
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump | Watterra | (Peristaltic Pump) | Bladder Pump | Other ___

Sampling Method: Dedicated Tubing | Disp Bailer | (New Tubing) | Other ___

Flow Rate: 100 ml/min Pump Depth: 18'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	DTW / Observations
1427	19.84	6.84	1402	~~27~~ 23	1.92	-171.6	300	6.82
1430	19.88	6.70	1405	27	1.95	-170.5	600	6.94
1433	20.52	6.70	1411	25	1.92	-173.0	900	6.99
1436	20.45	6.71	1417	21	1.69	-173.9	1200	7.03
1439	20.28	6.69	1416	19	1.58	-173.1	1500	7.03
1442	20.30	6.70	1416	19	1.53	-175.5	1800	7.03

Did well dewater? Yes (No) Amount actually evacuated: 1800 gals. or ml

Sampling Time: 1445 Sampling Date: 3-7-17

Sample I.D.: MW-4_W-170307 Laboratory: LANCASTER

Analyzed for: (TPH-G BTEX MTBE) TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 170307-MW2	Client: CHEVRON
Sampler: MW	Start Date: 3-7-17
Well I.D.: MW-5	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 19.79	Depth to Water Pre: 10.85 Post: 11.18
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Watterra (Peristaltic Pump) Bladder Pump Other____

Sampling Method: (Dedicated Tubing) Disp Bailer New Tubing Other____

Flow Rate: 100 mL/min Pump Depth: 18'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	DTW / Observations
1328	18.89	7.64	1034	65	2.71	-164.2	300	11.02
1331	18.62	7.53	1037	58	2.17	-174.2	600	11.18
1334	18.81	7.50	1027	47	1.76	-175.0	900	11.18
1337	18.88	7.47	1037	44	1.67	-177.1	1200	11.18
1340	18.82	7.45	1037	44	1.65	-182.8	1500	11.18

Did well dewater? Yes (No) Amount actually evacuated: 1500 gals. or (mL)

Sampling Time: 1345 Sampling Date: 3-7-17

Sample I.D.: MW-5-W-170307 Laboratory: LANCASTER

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

QA-W-170307 ~~QAC1235~~ @ C 1235

030817-05

CHAIN OF CUSTODY FORM

Chevron Environmental Management Company ■ 6111 Bollinger Canyon Rd.■ San Ramon, CA 94583 COC 1 of 1

Chevron Site Number: 359766

Chevron Site Global ID: T0600000004218

Chevron Site Address: 2700 23rd Ave., Oakland, CA

Chevron PM: Mark Horne

Chevron PM Phone No.: (925) 790-3964

☒ Retail and Terminal Business Unit (RTBU) Job
☒ Construction/Retail Job

Chevron Consultant: GHD

Address: 5900 Hollis St., Suite A, Emeryville, CA

Consultant Contact: Kiersten Hoey

Consultant Phone No. 510-420-3347

Consultant Project No. 170307-mw1

Sampling Company: Blaine Tech Services

Sampled By (Print): William Wong

Sampler Signature: [signature]

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 CORRECTLY AND COMPLETELY.

Lancaster Laboratories

☒ Lancaster, PA
Lab Contact: Nicole Maljovec

2425 New Holland Pike,
Lancaster, PA 17601
Phone No:
(717)656-2300

Other Lab

Temp. Blank Check

Time	Temp.
1235	1°c
1435	1°c
	2°c

ANALYSES REQUIRED

SAMPLE ID							EPA 8260B/GC/MS TPH-G☐ BTEX☒ MTBE☒ OXYGENATES☐ HVOC☐	EPA 8015B GRO☒ DRO☐ ORO☐ HC SCREEN☐	EPA 8021B BTEX☐ MTBE☐	EPA 6010 Ca, Fe, K, Mg, Mn, Na	EPA6010/7000 TITLE 22 METALS☐ TTLC☐ STLC☐	EPA150.1 PH☐	EPA 310.1 ALKALINITY☐	SM2510B SPECIFIC CONDUCTIVITY	EPA 418.1 TRPH☐	EPA 413.1 OIL & GREASE☐ EPA 8260 ETHANOL	EPA 8015 TPH-D☐	Preservation Codes	Notes/Comments
Field Point Name	Matrix	Top Depth	Date (yymmdd)	Sample Time	# of Containers	Container Type												H=HCL T=Thiosulfate N=HNO_3 B=NaOH S=H_2SO_4 O=Other	Special Instructions: Must meet lowest detection limits poss for 8260 cmpounds.
mw-1-w-170307	W		170307	1510	6	HCL voas	X	X											
mw-2-w-170307				1415	6		X	X											
mw-3-w-170307				1535	6		X	X											
mw-4-w-170307				1445	6		X	X											
mw-5-w-170307				1345	6		X	X											
QA-w-170307				1235	2		X	X											

Relinquished By	Company	Date/Time	Relinquished To	Company	Date/Time
[signature]	Blaine Tech Services	3-7-17 1709	[signature]	Blaine Tech Services	3-7-17 1709
[signature]	BTS	3/8/17 1230	[signature]	ELLE	3/8/17 1230
A. Salazar	ELLE	3/8/17 1636	FX		

Mi Smith Enviro Fix 3/9/17 9:40

Turnaround Time:
Standard☒ 24 Hours☐ 48 hours☐ 72 Hours☐ Other☐

Sample Integrity: (Check by lab on arrival)
Intact: X On Ice: X Temp: 0.6-4.2°C

COC #

WELLHEAD INSPECTION CHECKLIST

Client CHEVRON Date 3-7-17

Site Address 2700 23RD AVE, OAKLAND, CA

Job Number 170307-MW2 Technician MW

Well ID	Well Inspected - No Corrective Action Required	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	X	X						
MW-2		X						
MW-3	X	X						
MW-4	X							
MW-5	X							

NOTES:

CHEVRON-NORTHERN CALIFORNIA TYPE **A** BILL OF LADING BILL OF LADING No._____

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 GROUND-WATER 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 KIERSTEN MOEY
CHEVRON # Chevron Engineer

2700 23RD AVE, OAKLAND, CA C
street number street name city state

WELL I.D.	GALS.	WELL I.D.	GALS.
MW-1	0.4		
MW-2	0.4		
MW-3	0.4		
MW-4	0.5		
MW-5	0.4		
added equip. rinse water	2.9	any other adjustments	

TOTAL GALS. RECOVERED 5

loaded onto BTS vehicle # 99

BTS event # 170307-MW2 time 1600 date 3/7/17

Transporter signature

****

REC'D AT BTS-SJ time 1655 date 3/7/17

Unloaded/received by signature

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME CHEVRON 2700 33RD AVE, OAKLAND, CA				PROJECT NUMBER 170307-MW2			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
YSI 556	05K1408AC	3-7-17 1300	pH: 4.7.10 cond: 3900 us	pH: 7.00; 10.00 4.00 cond: 3900 us	yes	13.20 °C	MW
"	"	"	ORP: 247 mV DO: 10 mg/L @100%	ORP: 247 mV DO: 10.02 mg/L @100%	yes	13.20 °C	MW

Blaine Tech Services, Inc.

Permit To Work

for Chevron EMC Sites

Client: CHEVRON Date 3-7-17

Site Address: 2700 23RD AVE, OAKLAND, CA

Job Number: 170307-HW2 Technician(s): HW

Pre-Job Safety Review

1. JMP reviewed, site restrictions and parking/access issues addressed. Reviewed: ☑

2. Special Permit Required Task Review

Are there any conditions or tasks that would require:

	Yes	No
Confined space entry	☐	☑
Working at height	☐	☑
Lock-out/Tag-out	☐	☑
Excavations greater than 4 feet deep	☐	☑
Excavations within 3 feet of a buried active electrical line or product piping or within 10 feet of a high pressure gas line.	☐	☑
Use of overhead equipment within 15 feet of an overhead electrical power line or pole supporting one	☐	☑
Hot work	☐	☑

If "Yes" was the answer to any of the Special Permit Required Tasks above, the Project Manager will contact the client and arrange to modify the Scope of Work so that the Special Permit Required Tasks are not required to be performed by Blaine Tech Services employees.

3. Is a Traffic Control Permit required for today's work?	Yes	No
	☐	☑
If so is it in the folder?	☐	☐
Is it current?	☐	☐
Do you understand the Traffic Control Plan and what equipment you will need?	☐	☐

On site Pre-Job Safety Review

1. Reviewed and signed the site specific HASP.	☑
2. Route to hospital understood.	☑
3. Reviewed "Groundwater Monitoring Well Sampling General Job Safety Analysis included in the HASP.	☑
4. Exceptional circumstances today that are not covered by the HASP, JSA or JMP have been addressed and mitigated.	☐
5. Understands procedure to follow, if site circumstances change, to address new site hazards.	☑
6. There are no unexpected conditions which would make your task a Special Permit Required Task. If there is, contact your Project Manager.	☑
7. All site hazards have been communicated to all necessary onsite personnel during tailgate safety meeting.	☑
8. After lunch tailgate safety meeting refresher conducted.	☑

If Checklist Task cannot be completed, explain:

Permit To Work Authority: FRED THIE V.P. 3-7-17 0600

Name Title Date Time

Attachment B
Laboratory Analytical Report

eurofins | Lancaster Laboratories Environmental

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

Analysis Report

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Report Date: March 21, 2017

Project: 359766

Submittal Date: 03/09/2017
Group Number: 1775377
PO Number: 0015229871
Release Number: HORNE
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LL) #
MW-1-W-170307 NA Water	8877874
MW-2-W-170307 NA Water	8877875
MW-3-W-170307 NA Water	8877876
MW-4-W-170307 NA Water	8877877
MW-5-W-170307 NA Water	8877878
QA-T-170307 NA Water	8877879

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 current scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ . To request copies of prior scopes of accreditation, contact your project manager.

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

Sample Description: MW-1-W-170307 NA Water
Facility# 359766 BTST
2700 23rd Ave-Oakland T10000004218

LL Sample # WW 8877874
LL Group # 1775377
Account # 10991

Project Name: 359766

Collected: 03/07/2017 15:10 by WW

Submitted: 03/09/2017 09:40
Reported: 03/21/2017 16:52

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

23OM1

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	4		0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.		0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	0.9	J	0.5	1	1
10945	Toluene	108-88-3	0.6	J	0.5	1	1
10945	Xylene (Total)	1330-20-7	0.6	J	0.5	1	1
GC Volatiles	**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	Z170761AA	03/17/2017 17:26	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z170761AA	03/17/2017 17:26	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17074B20A	03/15/2017 21:50	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	17074B20A	03/15/2017 21:50	Marie D Beamenderfer	1

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

Sample Description: MW-2-W-170307 NA Water
Facility# 359766 BTST
2700 23rd Ave-Oakland T10000004218

LL Sample # WW 8877875
LL Group # 1775377
Account # 10991

Project Name: 359766

Collected: 03/07/2017 14:15 by WW

Submitted: 03/09/2017 09:40
Reported: 03/21/2017 16:52

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

23OM2

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 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 Volatiles	**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	Z170761AA	03/17/2017 18:38	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z170761AA	03/17/2017 18:38	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17075B20A	03/16/2017 14:09	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	17075B20A	03/16/2017 14:09	Brett W Kenyon	1

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

Sample Description: MW-3-W-170307 NA Water
Facility# 359766 BTST
2700 23rd Ave-Oakland T10000004218

LL Sample # WW 8877876
LL Group # 1775377
Account # 10991

Project Name: 359766

Collected: 03/07/2017 15:35 by WW

Submitted: 03/09/2017 09:40
Reported: 03/21/2017 16:52

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

23OM3

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	0.5	J	0.5	1	1
10945	Ethylbenzene	100-41-4	3		0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1	1
10945	Toluene	108-88-3	0.7	J	0.5	1	1
10945	Xylene (Total)	1330-20-7	1		0.5	1	1
GC Volatiles	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	4,400		250	500	5

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	Z170762AA	03/17/2017 17:38	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z170762AA	03/17/2017 17:38	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17075B20A	03/16/2017 20:03	Brett W Kenyon	5
01146	GC VOA Water Prep	SW-846 5030B	1	17075B20A	03/16/2017 20:03	Brett W Kenyon	5

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

Sample Description: MW-4-W-170307 NA Water
Facility# 359766 BTST
2700 23rd Ave-Oakland T10000004218

LL Sample # WW 8877877
LL Group # 1775377
Account # 10991

Project Name: 359766

Collected: 03/07/2017 14:45 by WW

Submitted: 03/09/2017 09:40
Reported: 03/21/2017 16:52

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

23OM4

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	1,300	5	10	10
10945	Ethylbenzene	100-41-4	380	5	10	10
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	5	10	10
10945	Toluene	108-88-3	220	5	10	10
10945	Xylene (Total)	1330-20-7	560	5	10	10
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	16,000	1,000	2,000	20

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	Z170762AA	03/17/2017 18:50	Daniel H Heller	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z170762AA	03/17/2017 18:50	Daniel H Heller	10
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17075B20A	03/16/2017 20:30	Brett W Kenyon	20
01146	GC VOA Water Prep	SW-846 5030B	1	17075B20A	03/16/2017 20:30	Brett W Kenyon	20

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

Sample Description: MW-5-W-170307 NA Water
Facility# 359766 BTST
2700 23rd Ave-Oakland T10000004218

LL Sample # WW 8877878
LL Group # 1775377
Account # 10991

Project Name: 359766

Collected: 03/07/2017 13:45 by WW

Submitted: 03/09/2017 09:40
Reported: 03/21/2017 16:52

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

23OM5

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 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 Volatiles	**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	Z170762AA	03/17/2017 19:14	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z170762AA	03/17/2017 19:14	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17075B20A	03/16/2017 14:36	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	17075B20A	03/16/2017 14:36	Brett W Kenyon	1

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

Sample Description: QA-T-170307 NA Water
Facility# 359766 BTST
2700 23rd Ave-Oakland T10000004218

LL Sample # WW 8877879
LL Group # 1775377
Account # 10991

Project Name: 359766

Collected: 03/07/2017 12:35

Submitted: 03/09/2017 09:40
Reported: 03/21/2017 16:52

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

23OQA

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 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 Volatiles	**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	Z170762AA	03/17/2017 17:13	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z170762AA	03/17/2017 17:13	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17075B20A	03/16/2017 12:20	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	17075B20A	03/16/2017 12:20	Brett W Kenyon	1

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

Quality Control Summary

Client Name: Chevron
Reported: 03/21/2017 16:52

Group Number: 1775377

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: Z170761AA	Sample number(s): 8877874-8877875		
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: Z170762AA	Sample number(s): 8877876-8877879		
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: 17074B20A	Sample number(s): 8877874		
TPH-GRO N. CA water C6-C12	N.D.	50	100
Batch number: 17075B20A	Sample number(s): 8877875-8877879		
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: Z170761AA	Sample number(s): 8877874-8877875								
Benzene	20	18.75			94		78-120		
Ethylbenzene	20	19.17			96		78-120		
Methyl Tertiary Butyl Ether	20	19.03			95		75-120		
Toluene	20	18.88			94		80-120		
Xylene (Total)	60	58.33			97		80-120		
Batch number: Z170762AA	Sample number(s): 8877876-8877879								
Benzene	20	19.04			95		78-120		
Ethylbenzene	20	19.56			98		78-120		
Methyl Tertiary Butyl Ether	20	19.24			96		75-120		
Toluene	20	19.21			96		80-120		
Xylene (Total)	60	58.89			98		80-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
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.

Quality Control Summary

Client Name: Chevron
Reported: 03/21/2017 16:52

Group Number: 1775377

LCS/LCSD (continued)

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: 17074B20A	Sample number(s): 8877874								
TPH-GRO N. CA water C6-C12	1100	1081.2	1100	1078.63	98	98	80-120	0	30
Batch number: 17075B20A	Sample number(s): 8877875-8877879								
TPH-GRO N. CA water C6-C12	1100	1089.55	1100	1068.25	99	97	80-120	2	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: Z170761AA	Sample number(s): 8877874-8877875 UNSPK: 8877874									
Benzene	3.77	20	22.04	20	21.3	91	88	78-120	3	30
Ethylbenzene	N.D.	20	18.55	20	17.31	93	87	78-120	7	30
Methyl Tertiary Butyl Ether	0.865	20	19.04	20	18.08	91	86	75-120	5	30
Toluene	0.619	20	18.84	20	17.59	91	85	80-120	7	30
Xylene (Total)	0.616	60	55.83	60	52.18	92	86	80-120	7	30
Batch number: Z170762AA	Sample number(s): 8877876-8877879 UNSPK: 8877876									
Benzene	0.522	20	20.61	20	21.02	100	103	78-120	2	30
Ethylbenzene	3.40	20	24.4	20	24.73	105	107	78-120	1	30
Methyl Tertiary Butyl Ether	N.D.	20	18.84	20	19.11	94	96	75-120	1	30
Toluene	0.738	20	21.4	20	21.85	103	106	80-120	2	30
Xylene (Total)	1.47	60	64.92	60	65.63	106	107	80-120	1	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: Z170761AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8877874	101	96	101	98
8877875	99	95	102	96
Blank	102	99	100	96
LCS	99	99	101	101
MS	98	98	101	101
MSD	99	97	102	101

*- 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.
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.

Quality Control Summary

Client Name: Chevron
Reported: 03/21/2017 16:52

Group Number: 1775377

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: Z170761AA

Limits:	80-116	77-113	80-113	78-113

Analysis Name: BTEX/MTBE
Batch number: Z170762AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8877876	101	94	101	102
8877877	98	94	102	100
8877878	100	96	100	100
8877879	102	96	101	101
Blank	102	96	100	102
LCS	98	100	101	103
MS	99	96	101	104
MSD	98	97	103	104
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 17074B20A

	Trifluorotoluene-F
8877874	82
Blank	84
LCS	100
LCSD	95
Limits:	63-135

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 17075B20A

	Trifluorotoluene-F
8877875	89
8877876	98
8877877	98
8877878	91
8877879	91
Blank	87
LCS	99
LCSD	99
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.
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.

030817-05

CHAIN OF CUSTODY FORM

Chevron Environmental Management Company ■ 6111 Bollinger Canyon Rd.■ San Ramon, CA 94583 COC 1 of 1

Chevron Site Number: 359766
Chevron Site Global ID: T060000004218
Chevron Site Address: 2700 23rd Ave., Oakland, CA
Chevron PM: Mark Horne
Chevron PM Phone No.: (925) 790-3964
☒ Retail and Terminal Business Unit (RTBU) Job
☒ Construction/Retail Job

Chevron Consultant: GHD
Address: 5900 Hollis St., Suite A, Emeryville, CA
Consultant Contact: Kiersten Hoey
Consultant Phone No. 510-420-3347
Consultant Project No. 170307-WW1
Sampling Company: Blaine Tech Services
Sampled By (Print): William Wong
Sampler Signature: [signature]

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 CORRECTLY AND COMPLETELY.

Lancaster Laboratories
☒ Lancaster, PA
Lab Contact: Nicole Maljovec
2425 New Holland Pike, Lancaster, PA 17601
Phone No: (717)656-2300

Other Lab

Temp. Blank Check Time	Temp.
1235	1°C
1435	1°C
	2°C

ANALYSES REQUIRED

Preservation Codes: H =HCL T= Thiosulfate; N =HNO_3 B = NaOH; S = H_2SO_4 O = Other

10991
1775377
8877874-79

Special Instructions: Must meet lowest detection limits poss for 8260 cmpounds.

Analysis columns: EPA 8260B/GC/MS TPH-G☐ BTEX☒ MTBE☒ OXYGENATES☐ HVOC☐ (H); EPA 8015B GRO☒ DRO☐ ORO☐ HC SCREEN☐ (H); EPA 8021B BTEX☐ MTBE☐; EPA 6010 Ca, Fe, K, Mg, Mn, Na; EPA6010/7000 TITLE 22 METALS☐ TTLC☐ STLC☐; EPA150.1 PH☐; EPA 310.1 ALKALINITY☐; SM2510B SPECIFIC CONDUCTIVITY; EPA 418.1 TRPH☐; EPA 413.1 OIL & GREASE☐; EPA 8260 ETHANOL; EPA 8015 TPH-D☐

Field Point Name	Matrix	Top Depth	Date (yymmdd)	Sample Time	# of Containers	Container Type	EPA 8260B	EPA 8015B	EPA 8021B	EPA 6010	EPA6010/7000	EPA150.1	SM2510B	EPA 418.1	EPA 8260 Ethanol	EPA 8015 TPH-D		Notes/Comments
MW-1-W-170307	W		170307	1510	6	HCL VOAS	X	X										
MW-2-W-170307	↓		↓	1415	6	↓	X	X										
MW-3-W-170307				1535	6		X	X										
MW-4-W-170307				1445	6		X	X										
MW-5-W-170307				1345	6		X	X										
QA-W-170307				1235	2		X	X										

Relinquished By	Company	Date/Time	Relinquished To	Company	Date/Time
[signature]	Blaine Tech Services	3-7-17 1709	[signature]	Blaine Tech Services	3-7-17 1709
[signature]	BTS	3/8/17 1230	[signature]	ELLE	3/8/17 1230
[signature]	ELLE	08MAR17 1636	FX		

Turnaround Time: Standard☒ 24 Hours☐ 48 hours☐ 72 Hours☐ Other☐

Sample Integrity: (Check by lab on arrival)
Intact: X On Ice: X Temp: 0.6-4.2°C
COC #

[signature] Env.Fin 3/9/17 9:40

COC 35-9766, 12/09/16

eurofins | Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID: 177630

Group Number(s): 1775377

Client: CA Office

359766

Delivery and Receipt Information

Delivery Method:	BASC	Arrival Timestamp:	03/09/2017 9:40
Number of Packages:	6	Number of Projects:	12

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	No
Custody Seal Intact:	Yes	VOA Vial Headspace ≥ 6mm:	No
Samples Chilled:	Yes	Total Trip Blank Qty:	2
Paperwork Enclosed:	Yes	Trip Blank Type:	HCl
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	Yes		

Unpacked by Nia Smith (12375) at 18:01 on 03/09/2017

Samples Chilled Details: 359766

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT146	0.8	DT	Wet	Y	Bagged	N
2	DT146	2.2	DT	Wet	Y	Bagged	N
3	32170023	4.0	IR	Wet	Y	Bagged	N
4	32170023	1.9	IR	Wet	Y	Bagged	N
5	DT146	1.2	DT	Wet	Y	Bagged	N
6	DT146	0.6	DT	Wet	Y	Bagged	N

Container Quantity Discrepancy Details: 359766

Sample ID on COC	Container Qty. Received	Container Qty. on COC	Comments
MW-4-W-170307	5	6	
MW-3-W-170307	7	6	

Sample Date/Time Discrepancy Details: 359766

Sample ID on COC	Date/Time on Label		Comments
MW-4-W-170307	3/07/2017 --	1 vial	
MW-3-W-170307	3/07/2017 --	1 vial	

2425 New Holland Pike
Lancaster, PA 17605-2425

T 717-656-2300
F 717-656-2681
www.LancasterLabs.com

Explanation of Symbols and Abbreviations

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

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

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

Laboratory Data Qualifiers:

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…
W - The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.

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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