Carryl MacLeod
Project Manager
Marketing Business Unit

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

RECEIVED
By Alameda County Environmental Health 8:16 am, Sep 16, 2016

September 15, 2016

Ms. Karel Detterman
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502 Dear Mr. Awwad:

Attached for your review is the *Third Quarter 2016 Groundwater Monitoring Report* for 670 98th Avenue, Oakland, California 94603 (RO0000379). This report was prepared by Stantec Consulting Services Inc. (Stantec), upon whose assistance and advice I have relied. I declare under penalty of perjury that the information and/or recommendations contained in the attached report are true and correct, to the best of my knowledge.

If you should have any further questions, please do not hesitate to contact me or the Stantec project manager, Travis Flora, at (408) 827-3876 or travis.flora@stantec.com.

Sincerely,

Carryl MacLeod

Carryl MacLeod
Project Manager

Third Quarter 2016
Groundwater
Monitoring Report

Chevron Facility No. 376584
RO0000379
670 98th Avenue,
Oakland, California 94603

Submitted to:
Ms. Karel Detterman
Alameda County Environmental Health Department
1131 Harbor Bay Parkway
Alameda, California 94602

Prepared for:
Chevron Environmental Management Company
6001 Bollinger Canyon Road
San Ramon, California 94583

Prepared by:
Stantec Consulting Services Inc.
15575 Los Gatos Blvd., Building C
Los Gatos, California 95032

September 15, 2016

September 15, 2016

Attention: **Ms. Karel Detterman**
Alameda County Environmental Health Department
1131 Harbor Bay Parkway
Alameda, California 94602

Reference: **Third Quarter 2016 Groundwater Monitoring Report**
670 98th Avenue
Oakland, California 94603

Dear Ms. Detterman:

On behalf of Chevron Environmental Management Company (CEMC), Stantec Consulting Services Inc. (Stantec) is pleased to submit the *Third Quarter 2016 Groundwater Monitoring Report* for 670 98th Avenue, Oakland, California (Site shown on **Figure 1**). This report is presented in three sections: Site Background, Third Quarter 2016 Groundwater Monitoring and Sampling Program, and Conclusions.

SITE BACKGROUND

The Site is located on the northeast corner at the intersection of 98th Avenue and Edes Avenue (**Figure 1**). The site was occupied by Union 76 service station from approximately 1947 through 1983. An old station building and an underground tank that occupied the site were removed in 1966. During that same year, a new station building, two 10,000-gallon underground gasoline tanks, and one 230-gallon waste oil tank were installed at the site. The station building was demolished and the underground storage tanks were removed in 1983.

Immediately adjacent to the Site is a former Richfield service station located, at 692 98th Avenue, which is northeast of the site. This property was occupied by a Richfield service station from approximately 1949 to 1963. In 1970, four 1,000-gallon underground fuel storage tanks were removed; the contents and former tank locations are not known.

THIRD QUARTER 2016 GROUNDWATER MONITORING AND SAMPLING PROGRAM

Gettler-Ryan, Inc. (G-R) performed the well development event on June 17, 2016, and the Third Quarter 2016 groundwater monitoring and sampling event on June 24, 2016. G-R's standard operating procedures (SOPs) and field data sheets are included in **Attachment A**. G-R gauged depth-to-groundwater (DTW) in 6 Site wells (MW-1 through MW-5 and Well-18) prior to collecting groundwater samples for laboratory analysis. Groundwater monitoring wells MW-1 through MW-5 and Well-18 were purged and sampled.

Investigation-derived waste (IDW) generated during the third quarter 2016 groundwater monitoring and sampling event was transported by Clean Harbors Environmental Services to Seaport Environmental in Redwood City, California.

Groundwater Elevation and Gradient

A groundwater elevation contour map (based on Third Quarter 2016 data) is shown on **Figure 2**. The direction of groundwater flow at the time of sampling was west-northwest at an average hydraulic gradient of approximately 0.19 feet per foot (ft/ft).

Schedule of Laboratory Analysis

Groundwater samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline range organics (TPH-GRO), TPH as diesel range organics (TPH-DRO), and TPH-DRO with silica gel cleanup using United States Environmental Protection Agency (US EPA) Method 8015B. Additionally, samples were analyzed for volatile organic compounds (VOCs), including benzene, toluene, ethylbenzene, and total xylenes (BTEX compounds) and methyl *tertiary*-butyl ether (MtBE) by US EPA Method 8260B.

Groundwater Analytical Results

During third quarter 2016, groundwater samples were collected from six Site wells (MW-1 through MW-5 and Well-18). Current groundwater analytical results are included in **Table 1**. A figure showing the latest groundwater analytical data plotted on a Site map is included as **Figure 3**. A TPH-GRO isoconcentration map is shown on **Figure 4**, and a TPH-DRO isoconcentration map is shown on **Figure 5**. Isoconcentration maps for BTEX compounds and MtBE were not created, because there were no detections above laboratory method detection limits (MDL) or environmental screening levels.

Certified laboratory analysis reports and chain-of-custody documents are presented as **Attachment B**. A summary of third quarter 2016 groundwater analytical results follows:

- **TPH-GRO** was detected above the MDL in two Site wells, at concentration of 3,400 (MW-1) and 890 (Well-18) micrograms per liter (µg/L).
- **TPH-DRO** was detected above the MDL in two Site wells, at concentration of 480 (MW-1) and 120 (Well-18) µg/L. TPH-DRO with silica gel cleanup was detected in three Site wells, at concentrations ranging between 95 (MW-5) and 920 (MW-1) µg/L.
- **Benzene** was not detected above the MDL in any of the Site wells sampled.
- **Toluene** was not detected above the MDL in any of the Site wells sampled.
- **Ethylbenzene** was detected above the MDL in two Site wells, at concentration of 0.8 µg/L (MW-1) and 1 µg/L (Well-18).
- **Total Xylenes** were not detected above the MDL in any of the Site wells sampled.
- **MTBE** was not detected above the MDL in any of the Site wells sampled.
- **TBA** was not detected above the MDL in any of the Site wells sampled.

Additional VOCs, including n-butylbenzene, sec-butylbenzene, cis-1,2-eichloroethene, isopropylbenzene, naphthalene, n-propylbenzene, tetrachloroethene, and trichloroethene were also detected in Site wells as noted in **Table 1**. Laboratory notes indicate quality control discrepancies associated with the analysis for TPH-DRO with and without silica gel cleanup for the groundwater sample collected from well MW-1.

CONCLUSIONS AND RECOMMENDATIONS

Maximum concentrations were observed in the wells MW-1 and Well-18. TPH-GRO and TPH-DRO were both reported above their respective ESLs in well MW-1, and TPH-GRO was reported above its ESL in Well-18. BTEX compounds and MtBE were not detected above laboratory MDLs or ESLs.

Alameda County Environmental Health Department requested that a Site Conceptual Model (SCM) and Data Gap Work Plan be submitted in October 2016; however, the current data set is limited to only one round of groundwater sampling, which is insufficient to evaluate the Site and prepare a SCM. In addition, further investigation into Richfield operations is warranted to ensure that there is not a commingled plume. Therefore, Stantec proposes to submit the SCM after the second round of groundwater sampling, which is scheduled to occur First Quarter 2017.

LIMITATIONS

This document entitled *Third Quarter 2016 Groundwater Monitoring Report* was prepared by Stantec Consulting Services Inc. ("Stantec") for the account of Chevron Environmental Management Company (the "Client"). Any reliance on this document by any third party is strictly prohibited. The material in it reflects Stantec's professional judgment in light of the scope, schedule and other limitations stated in the document and in the contract between Stantec and the Client. The opinions in the document are based on conditions and information existing at the time the document was published and do not take into account any subsequent changes. In preparing the document, Stantec did not verify information supplied to it by others. Any use which a third party makes of this document is the responsibility of such third party. Such third party agrees that Stantec shall not be responsible for costs or damages of any kind, if any, suffered by it or any other third party as a result of decisions made or actions taken based on this document.

Prepared by _____
(signature)

Ruthie Chhoeun
Project Scientist

Reviewed by _____
(signature)

Travis L. Flora
Senior Project Manager

Licensed Approver _____
(signature)

PROFESSIONAL GEOLOGIST
JAFFREY S. AUCHTERLONIE
11.30.40
NO. 7816
STATE OF CALIFORNIA

Jaff Auchterlonie, P.G.
Managing Principal Geologist

cc:

Ms. Carryl MacLeod, EMC *(via electronic copy)*
Ms. Linda Hothem, Linda Hothem Trust, 104 Caledonia Street, #C, Sausalito, CA 94965-1952
Ms. Roslyn Danforth, c/o Rocklin Industries, 11120 Queensland St., #H51, Los Angeles, CA 90034
City of Oakland Dept. of Public Works, c/o Mr. Mark Johannes Arniola, 250 Frank H. Ogawa Plaza, Suite 5301, Oakland, CA 94612 (via email)

Attachments:

Table 1 – Current Groundwater Monitoring Data &Analytical Data

Figure 1 – Site Location
Figure 2 – Site Plan and Groundwater Elevation Contour Map – June 24, 2016
Figure 3 – Groundwater Concentration Map – June 24, 2016
Figure 4 – GRO Groundwater Isoconcentration Map - June 24, 2016
Figure 5 – DRO Groundwater with Silica Gel Cleanup Isoconcentration Map - June 24, 2016

Attachment A – Gettler-Ryan Inc.'s *Groundwater Monitoring and Sampling Data Package Well Development Event of June 17, 2016 and First Semi-Annual Event of June 24, 2016.*
Attachment B – Certified Laboratory Analysis Reports and Chain-of-Custody Documents

TABLE

TABLE 1
Current Groundwater Monitoring & Analytical Data
Chevron Facility No. 376584 (Former Union Oil Service Station)
670 98th Avenue, Oakland, California

Well No.	Date	Notes	TOC (ft-MSL)	DTW (ft)	SPH (ft)	GWE (ft-MSL)	TPH-GRO (µg/L)	TPH-DRO (µg/L)	TPH-DRO w/ SG (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	BTBZN (µg/L)	BTBZS (µg/L)	Chloroform (µg/L)	DCE12C (µg/L)	IPBZ (µg/L)	NAPH (µg/L)	PBZN (µg/L)	PCE (µg/L)	TCE (µg/L)	Comments
MW-1	06/17/16	NSP	16.18	8.43	0.00	7.75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Well re-developed
MW-1	06/24/16		16.18	8.48	Sheen	7.70	**3,400**	**480**	**920**	<0.5	<0.5	**0.8**	<0.5	<0.5	<5	**27**	**18**	<0.5	<0.5	**15**	**7**	**55**	<0.5	<0.5	
MW-2	06/17/16	NSP	16.50	8.28	0.00	8.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Well re-developed
MW-2	06/24/16		16.50	8.32	0.00	8.18	<50	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<1	<1	<0.5	<0.5	<1	<1	<1	**2**	**2**	
MW-3	06/17/16	NSP	16.54	8.62	0.00	7.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Well re-developed
MW-3	06/24/16		16.54	8.68	0.00	7.86	<50	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<1	<1	**0.5**	<0.5	<1	<1	<1	**1**	**1**	
MW-4	06/17/16	NSP	18.40	10.18	0.00	8.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Well re-developed
MW-4	06/24/16		18.40	10.25	0.00	8.15	<50	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<1	<1	<0.5	<0.5	<1	<1	<1	**140**	**1**	
MW-5	06/17/16	NSP	17.35	9.08	0.00	8.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Well re-developed
MW-5	06/24/16		17.35	9.12	0.00	8.23	<50	<50	**95**	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<1	<1	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	
Well-18	06/17/16	NSP	15.97	8.03	0.00	7.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Well re-developed
Well-18	06/24/16		15.97	8.05	0.00	7.92	**890**	**120**	**96**	<0.5	<0.5	**1**	<0.5	<0.5	<5	**1**	<1	<0.5	**0.6**	**4**	**5**	**5**	**2**	**2**	
QA	06/24/16		--	--	--	--	<50	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	

Notes:

TPH-GRO = Total petroleum hydrocarbons as gasoline
TPH-DRO = Total petroleum hydrocarbons as diesel
TPH-DRO w/ SG = Total petroleum hydrocarbons as diesel with Silica Gel
B = Benzene
T = Toluene
E = Ethylbenzene
X = Total xylenes
MTBE = Methyl tert-butyl ether
TBA = Tert-butyl alcohol
BTBZN = n-Butylbenzene
BTBZS = sec-Butylbenzene
DCE12C = cis-1,2-Dichloroethene
IPBZ = Isopropylbenzene

FIGURES

LEGEND:

MW-1 GROUNDWATER MONITORING WELL LOCATION

GRADIENT 0.19 APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT (FT/FT)

8.20 GROUNDWATER ELEVATION CONTOUR (FEET ABOVE MEAN SEA LEVEL)

7.70 GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)

N

0 50 100

APPROXIMATE SCALE IN FEET

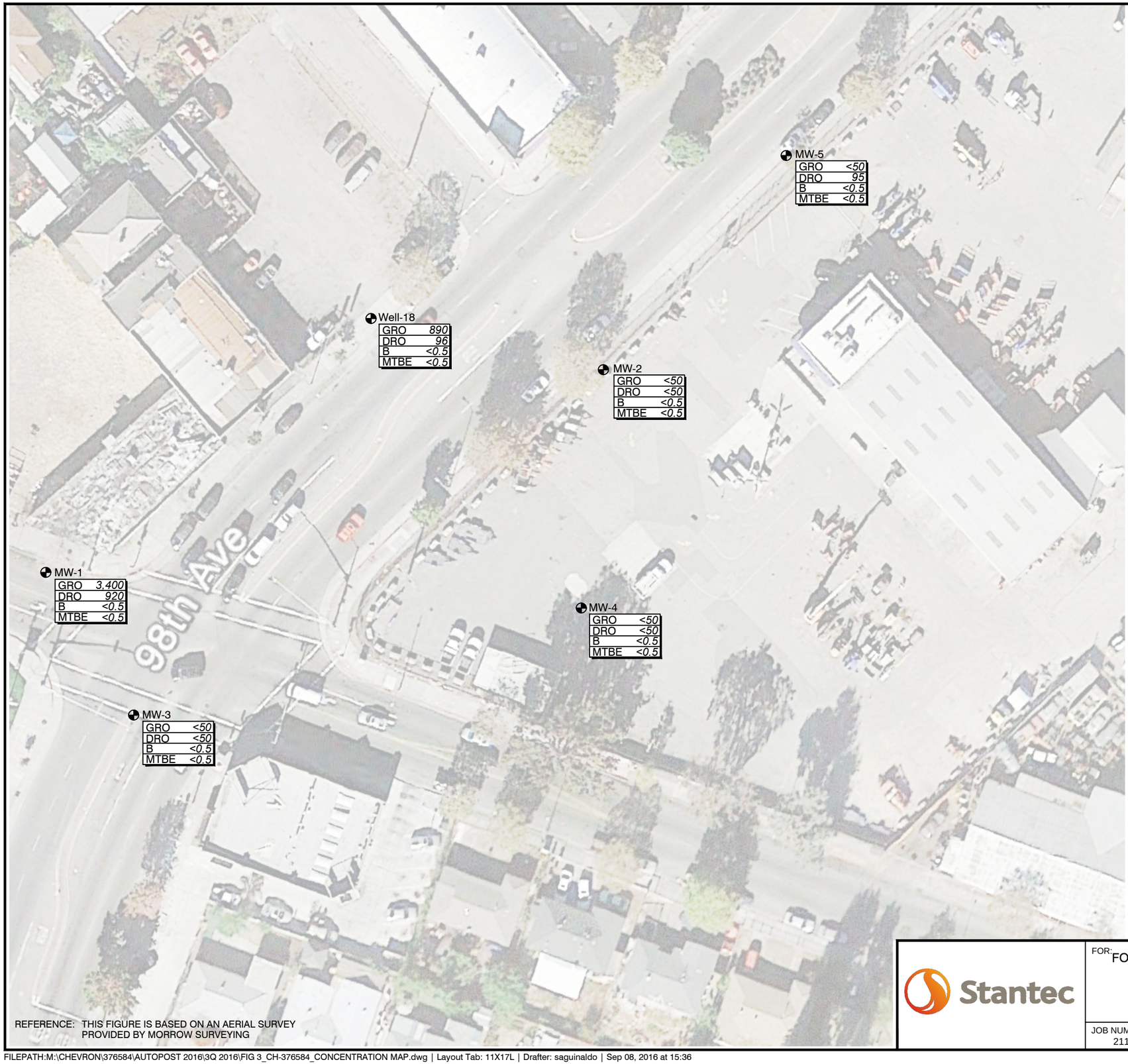
Stantec

FOR: FORMER CHEVRON SERVICE STATION NO. 376854
670 98th AVENUE
OAKLAND, CALIFORNIA

SITE PLAN AND GROUNDWATER ELEVATION CONTOUR MAP JUNE 24, 2016

FIGURE: **2**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
211611069	STA	BR	AP	08/24/16



REFERENCE: THIS FIGURE IS BASED ON AN AERIAL SURVEY PROVIDED BY MORROW SURVEYING

LEGEND:

MW-1 GROUNDWATER MONITORING WELL LOCATION

CHEMICAL ANALYTICAL RESULTS:

ANALYTE

GRO	3.400
DRO	920
B	<0.5
MTBE	<0.5

CONCENTRATION (µg/L)

µg/L — MICROGRAMS PER LITER

ANALYTES:

GRO — GASOLINE RANGE ORGANICS

DRO — DIESEL RANGE ORGANICS WITH SILICA GEL

B — BENZENE

MTBE — METHYL TERTIARY-BUTYL ETHER

N

0 50 100

APPROXIMATE SCALE IN FEET

Stantec

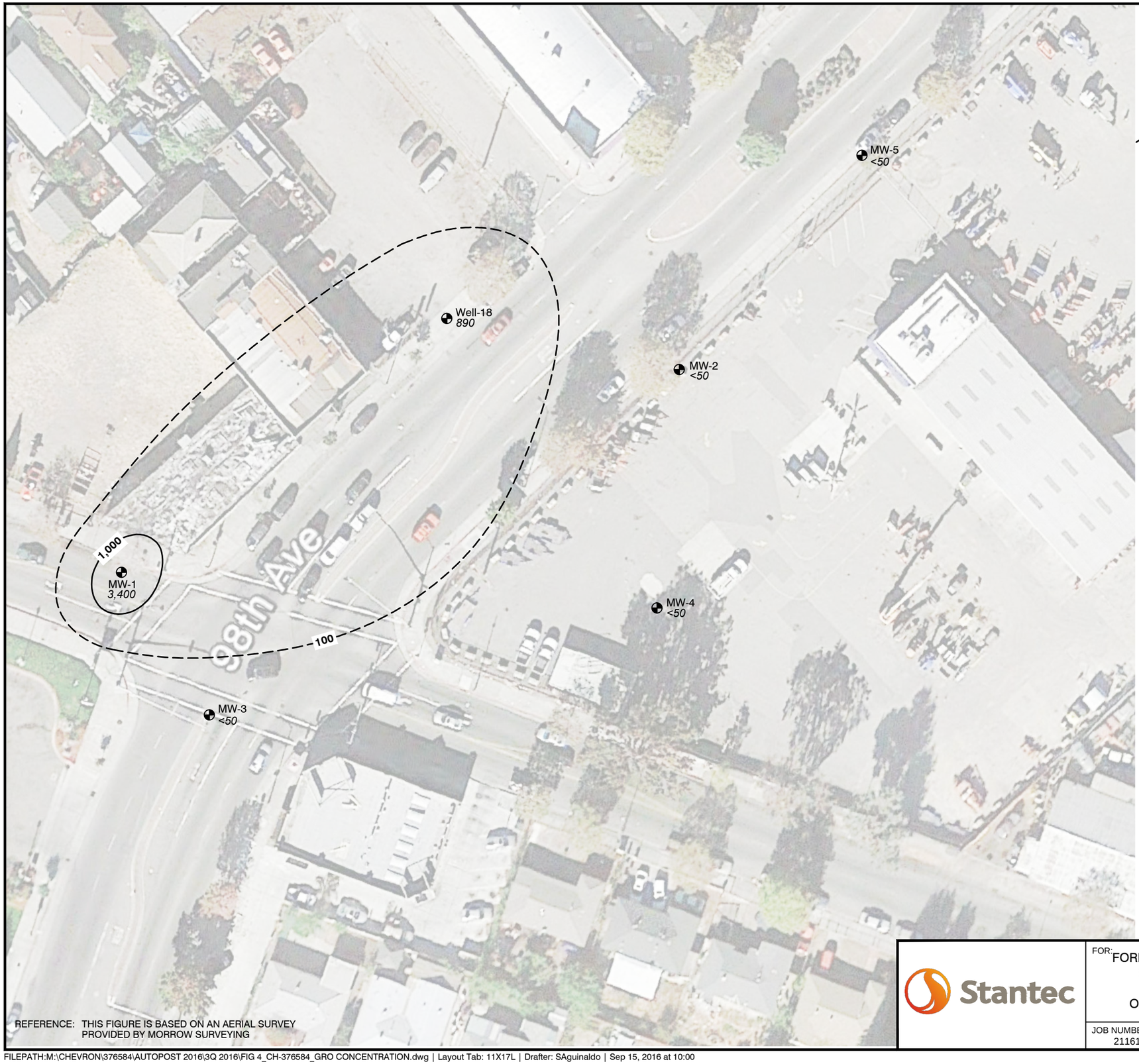
FOR: FORMER CHEVRON SERVICE STATION NO. 376584
670 98th AVENUE
OAKLAND, CALIFORNIA

GROUNDWATER CONCENTRATION MAP
JUNE 24, 2016

FIGURE: **3**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
211611069	STA	RC	BW	08/24/16

FILEPATH:M:\CHEVRON\376584\AUTOPOST 2016\3Q 2016\FIG 3_CH-376584_CONCENTRATION MAP.dwg | Layout Tab: 11X17L | Drafter: saguinaldo | Sep 08, 2016 at 15:36



LEGEND:

MW-1	GROUNDWATER MONITORING WELL LOCATION
GRO	GASOLINE RANGE ORGANICS
100	GRO ISOCONCENTRATION CONTOUR
3,400	GRO CONCENTRATION (µg/L)
µg/L	MICROGRAMS PER LITER

N

0 50 100

APPROXIMATE SCALE IN FEET

REFERENCE: THIS FIGURE IS BASED ON AN AERIAL SURVEY PROVIDED BY MORROW SURVEYING

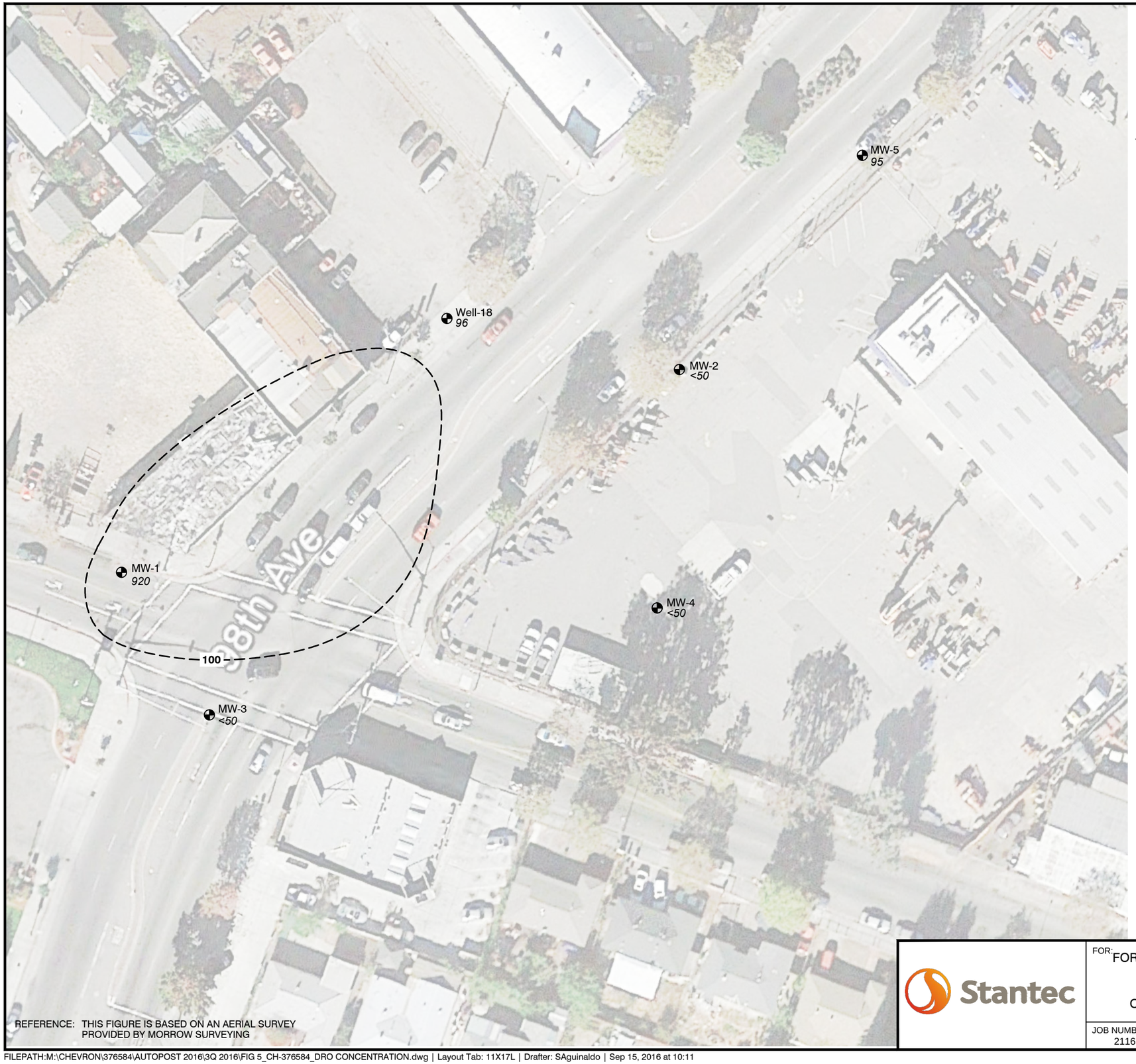
Stantec

FOR: FORMER CHEVRON SERVICE STATION NO. 376584
670 98th AVENUE
OAKLAND, CALIFORNIA

GRO GROUNDWATER ISOCONCENTRATION CONTOUR MAP JUNE 24, 2016

FIGURE: **4**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
211611069	STA	RC	BW	08/24/16



LEGEND:

MW-1	GROUNDWATER MONITORING WELL LOCATION
DRO	DIESEL RANGE ORGANICS
100	DRO ISOCONCENTRATION CONTOUR
3,400	DRO CONCENTRATION WITH SILICA GEL (µg/L)
µg/L	MICROGRAMS PER LITER

N

0 50 100

APPROXIMATE SCALE IN FEET

REFERENCE: THIS FIGURE IS BASED ON AN AERIAL SURVEY PROVIDED BY MORROW SURVEYING

Stantec

FOR: FORMER CHEVRON SERVICE STATION NO. 376584
670 98th AVENUE
OAKLAND, CALIFORNIA

DRO WITH SILICA GEL ISOCONCENTRATION CONTOUR MAP JUNE 24, 2016

FIGURE: **5**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
211611069	STA	RC	BW	08/24/16

FILEPATH:M:\CHEVRON\376584\AUTOPOST 2016\3Q 2016\FIG 5_CH-376584_DRO CONCENTRATION.dwg | Layout Tab: 11X17L | Drafter: SAguinaldo | Sep 15, 2016 at 10:11

ATTACHMENT A
Gettler-Ryan Inc.'s Groundwater Monitoring and Sampling Data Package
Well Development Event of June 17, 2016 and First Semi-Annual Event of June 24, 2016.

GETTLER-RYAN INC.

TRANSMITTAL

July 1, 2016
G-R #385903

TO: Mr. Brian Westhoff
Stantec
3875 Atherton Road
Rocklin, California, 95765

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6805 Sierra Court, Suite G
Dublin, California 94568

RE: Chevron Facility #376584
Former Union Oil Service Station
670 98th Avenue
Oakland, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package **Well Development Event of June 17, 2016 and** **First Semi-Annual Event of June 24, 2016**

COMMENTS:

Pursuant to your request, we are providing you with a copy of the above referenced data for your use.

Please provide us the updated historical data prior to the next monitoring and sampling event for our field use.

Please feel free to contact me if you have any comments/questions.

trans/376584

Chevron # 376584

Event of June 17, 2016

WELL CONDITION STATUS SHEET

Client/
Facility #: **Chevron #376584**
Site Address: **670 98Th Avenue**
City: **Oakland, CA**

Job #: **385903**
Event Date: 6.17.16
Sampler: FT JH

WELL ID	Vault Frame Condition	Gasket/ O-Ring (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Bolt Flanges B=Broken S=Stripped R=Retaped	Apron Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) Inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK (Y) N	REPLACE CAP Y (N)	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Y (N)
MW-1	OK	NA	→	→	OK	→	→	↓	↓	CHRISTY BOX	Y
MW-5	OK	→	→	→	→	→	→	↓	↓	EMCO 12" 12	↓
WELL-1B	OK	NA	→	→	OK	→	→	↓	↓	CHRISTY BOX	↓
MW-4	BROKE	M	M	B	C	OK	SPLIT	↓	↓	12" EMCO	↓
MW-2	OK	N/A	→	→	OK	→	→	↓	↓	CHRISTY	↓
MW-3	OK	N/A	→	→	OK	→	→	↓	↓	↓	↓

Comments MW-4 - steel plate covering bolt - Vault BROKE - Casing SPLIT

STANDARD OPERATING PROCEDURE – WELL DEVELOPMENT
GROUNDWATER SAMPLING

Gettler-Ryan Inc. (GR) field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. All work is performed in accordance with the GR Health & Safety Plan and all client-specific programs. The scope of work and type of analysis to be performed is determined prior to commencing field work.

Prior to well development, each well is monitored for the presence of free-phase hydrocarbons and the depth to water is recorded. Wells are then developed by alternately surging the well with the bailer, then purging the well with a pump to remove accumulated sediments and draw groundwater into the well. Development continues until the groundwater parameters (temperature, pH, and conductivity) have stabilized.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, peristaltic or Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging (additional parameters such as dissolved oxygen, oxidation reduction potential, turbidity may also be measured, depending on specific scope of work.). Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards, as directed by the scope of work. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Chevron Environmental Management Company, the purge water and decontamination water generated during sampling activities is transported by Clean Harbors Environmental Services to Seaport Environmental located in Redwood City, California.

GETTLER-RYAN INC.

WELL MONITORING/DEVELOPMENT FIELD DATA SHEET

Client/Facility#: Chevron #376584 Job Number: 385903
Site Address: 670 98Th Avenue Event Date: 6.17.16 (inclusive)
City: Oakland, CA Sampler: FT

Well ID MW-1 Date Monitored: 6.17.16
Well Diameter 2 in.
Initial Total Depth 19.63 ft.
Final Total Depth 19.69 ft.
Depth to Water 8.43 ft. ☐ Check if water column is less then 0.50 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

11.20 xVF .17 = 1.90 x10 case volume = Estimated Purge Volume: 19.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: —

Purge Equipment:
Disposable Bailer
Stainless Steel Bailer ✓
Stack Pump ✓
Peristaltic Pump
QED Bladder Pump
Other:

Sampling Equipment:
Disposable Bailer
Pressure Bailer
Metal Filters
Peristaltic Pump ✓
QED Bladder Pump
Other:

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): 0927 Weather Conditions: CLOUDY / SUNNY
Sample Time/Date: — / — Water Color: CLEAR Odor: Y / (N)
Approx. Flow Rate: ≈ 2.0 gpm. Sediment Description: NONE
Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: —

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/mS umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0928	1.9	6.70	380	20.2		
0929	3.8	6.69	382	20.3		
0930	5.7	6.69	383	20.3		
0931	7.6	6.70	381	20.2		
0932	9.5	6.71	383	20.3		
0933	11.4	6.72	384	20.3		
0934	13.3	6.71	384	20.2		
0935	15.2	6.72	383	20.2		
0936	17.1	6.73	382	20.3		
0937	19.0	6.73	382	20.3		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES

COMMENTS: INITIAL CGI READING: 0 PPM
DEVELOP ONLY CHEMISTRY BOX OK

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: ✓ Add/Replaced Plug: ✓ (2")

GETTLER-RYAN INC.

WELL MONITORING/DEVELOPMENT FIELD DATA SHEET

Client/Facility#: Chevron #376584 Job Number: 385903
Site Address: 670 98Th Avenue Event Date: 6/17/16 (inclusive)
City: Oakland, CA Sampler: JW

Well ID MW-2 Date Monitored: 6/17/16
Well Diameter 2 in.
Initial Total Depth 27.54 ft.
Final Total Depth 28.25 ft.
Depth to Water 8.28 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

19.26 xVF .17 = 3.27 x10 case volume = Estimated Purge Volume: 32.74 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.13

Purge Equipment:
Disposable Bailer
Stainless Steel Bailer X
Stack Pump X
Peristaltic Pump
QED Bladder Pump
Other:

Sampling Equipment:
Disposable Bailer
Pressure Bailer
Metal Filters
Peristaltic Pump
QED Bladder Pump
Other:

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): 0650 Weather Conditions: Cloudy
Sample Time/Date: — / — Water Color: Brown Odor: (Y) / N Lt Hydrocarbon
Approx. Flow Rate: 1 gpm. Sediment Description: Lt Brn
Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: —

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0700	3	8.02	540	17.7		
0710	6	8.04	544	17.8		
0715	9	8.07	547	17.9		
0718	12	8.08	552	17.7		
0721	15	8.09	560	17.4		
0724	18	8.05	567	17.3		
0727	21	8.01	573	17.4		
0730	24	7.97	579	17.5		
0733	27	7.94	580	17.6		
0739	33	7.92	589	17.6		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES

COMMENTS: INITIAL CGI READING: 0 ppm
DEVELOP ONLY

Add/Replaced Gasket: Add/Replaced Bolt: Add/Replaced Lock: ✓ Add/Replaced Plug: ✓

GETTLER-RYAN INC.

WELL MONITORING/DEVELOPMENT FIELD DATA SHEET

Client/Facility#: Chevron #376584 | Job Number: 385903
Site Address: 670 98Th Avenue | Event Date: 6/17/16 (inclusive)
City: Oakland, CA | Sampler: JH

Well ID: MW-3 | Date Monitored: 6/17/16
Well Diameter: 2 in.
Initial Total Depth: 22.55 ft.
Final Total Depth: 22.80 ft.
Depth to Water: 8.62 ft. ☐ Check if water column is less then 0.50 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

13.93 xVF .17 = 2.36 x10 case volume = Estimated Purge Volume: 23.60 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.40

Purge Equipment:
Disposable Bailer
Stainless Steel Bailer: X
Stack Pump: X
Peristaltic Pump
QED Bladder Pump
Other:

Sampling Equipment:
Disposable Bailer
Pressure Bailer
Metal Filters
Peristaltic Pump
QED Bladder Pump
Other:

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): 0920 | Weather Conditions: Cloudy
Sample Time/Date: — / — | Water Color: cloudy | Odor: Y / N / Low
Approx. Flow Rate: 1 gpm. | Sediment Description:
Did well de-water? No If yes, Time: Volume: gal. DTW @ Sampling:

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/mS ~~mhos~~/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0925	2	7.55	596	18.6		
0930	4	7.52	593	18.4		
0935	6	7.51	592	18.4		
0937	8	7.49	591	18.5		
0939	10	7.46	587	18.6		
0941	12	7.47	584	18.5		
0943	14	7.42	583	18.4		
0945	16	7.40	580	18.4		
0949	20	7.38	576	18.3		
0953	24	7.33	574	18.4		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES

COMMENTS: INITIAL CGI READING: 0 ppm
DEVELOP ONLY

Add/Replaced Gasket: Add/Replaced Bolt: Add/Replaced Lock: ✓ Add/Replaced Plug: ✓

GETTLER-RYAN INC.

WELL MONITORING/DEVELOPMENT FIELD DATA SHEET

Client/Facility#: Chevron #376584 Job Number: 385903
Site Address: 670 98Th Avenue Event Date: 6/17/16 (inclusive)
City: Oakland, CA Sampler: JH

Well ID MW-4 Date Monitored: 6/17/16
Well Diameter 2 in.
Initial Total Depth 21.10 ft.
Final Total Depth 22.75 ft.
Depth to Water 10.18 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

10.92 xVF .17 = 1.85 x10 case volume = Estimated Purge Volume: 18.56 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: —

Purge Equipment:
Disposable Bailer
Stainless Steel Bailer X
Stack Pump X
Peristaltic Pump
QED Bladder Pump
Other:

Sampling Equipment:
Disposable Bailer
Pressure Bailer
Metal Filters
Peristaltic Pump
QED Bladder Pump
Other:

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: 0 ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): 0815 Weather Conditions: Cloudy
Sample Time/Date: — / — Water Color: Cloudy Odor: (Y) N Light
Approx. Flow Rate: 1 gpm. Sediment Description: Light
Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: —

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS) mS µmhos/cm	Temperature (C) / F	D.O. (mg/L)	ORP (mV)
0825	2	7.39	531	18.8		
0830	4	7.37	534	18.7		
0835	6	7.34	537	18.7		
0837	8	7.31	540	18.6		
0839	10	7.26	541	18.6		
0841	12	7.25	543	18.7		
0843	14	7.22	546	18.6		
0845	16	7.20	545	18.6		
0847	18	7.19	552	18.5		
0850	20	7.14	556	18.4		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES

COMMENTS: INITIAL CGI READING: 0 ppm Well Box Damaged - Frame Broke
DEVELOP ONLY Well Box Lid Missing - Steel plate covers Well - Vault Broke
Casing 50% 18" Down

Add/Replaced Gasket: Add/Replaced Bolt: Add/Replaced Lock: ✓ Add/Replaced Plug: ✓

GETTLER-RYAN INC.

WELL MONITORING/DEVELOPMENT FIELD DATA SHEET

Client/Facility#: Chevron #376584 Job Number: 385903
Site Address: 670 98Th Avenue Event Date: 6.17.16 (inclusive)
City: Oakland, CA Sampler: FT

Well ID MW-5 Date Monitored: 6.17.16
Well Diameter 2 in.
Initial Total Depth 22.11 ft.
Final Total Depth 22.58 ft.
Depth to Water 9.08 ft. ☐ Check if water column is less then 0.50 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

13.03 xVF .17 = 2.21 x10 case volume = Estimated Purge Volume: 22.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: —

Purge Equipment:
Disposable Bailer
Stainless Steel Bailer ✓
Stack Pump ✓
Peristaltic Pump
QED Bladder Pump
Other:

Sampling Equipment:
Disposable Bailer
Pressure Bailer
Metal Filters
Peristaltic Pump ✓
QED Bladder Pump
Other:

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): 0740 Weather Conditions: Cloudy
Sample Time/Date: — / — Water Color: Clear Odor: Y / (N)
Approx. Flow Rate: 2.5 gpm. Sediment Description: None
Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: —

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0741	2.2	6.45	380	19.2		
0742	4.4	6.46	382	19.2		
0743	6.6	6.48	381	19.2		
0744	8.8	6.50	380	19.2		
0745	11.0	6.52	379	19.2		
0746	13.2	6.56	381	19.3		
0747	15.4	6.57	382	19.3		
0748	17.6	6.58	383	19.2		
0749	19.8	6.58	381	19.2		
0750	22.0	6.59	382	19.1		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES

COMMENTS: INITIAL CGI READING: 0 PPM
DEVELOP ONLY EMCO 12V OK

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: ✓ Add/Replaced Plug: ✓ (2")

GETTLER-RYAN INC.

WELL MONITORING/DEVELOPMENT FIELD DATA SHEET

Client/Facility#: Chevron #376584 Job Number: 385903
Site Address: 670 98Th Avenue Event Date: 6.17.16 (inclusive)
City: Oakland, CA Sampler: RT

Well ID: WELL 18 Date Monitored: 6.17.16
Well Diameter: 2 in.
Initial Total Depth: 16.58 ft.
Final Total Depth: 16.69 ft.
Depth to Water: 8.03 ft. ☐ Check if water column is less then 0.50 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

8.55 xVF .17 = 1.45 x10 case volume = Estimated Purge Volume: 14.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: ____

Purge Equipment:
- Disposable Bailer: ____
- Stainless Steel Bailer: ✓
- Stack Pump: ✓
- Peristaltic Pump: ____
- QED Bladder Pump: ____
- Other: ____

Sampling Equipment:
- Disposable Bailer: ____
- Pressure Bailer: ____
- Metal Filters: ____
- Peristaltic Pump: /
- QED Bladder Pump: ____
- Other: ____

Time Started: ____ (2400 hrs)
Time Completed: ____ (2400 hrs)
Depth to Product: ____ ft
Depth to Water: ____ ft
Hydrocarbon Thickness: ____ ft
Visual Confirmation/Description: ____
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ____ ltr
Amt Removed from Well: ____ ltr
Water Removed: ____ ltr

Start Time (purge): 0820 Weather Conditions: CLOUDY
Sample Time/Date: — / — Water Color: CLR. BRN Odor: Y / (N)
Approx. Flow Rate: 1.5 gpm. Sediment Description: S. SILTY
Did well de-water? NO If yes, Time: ____ Volume: ____ gal. DTW @ Sampling: —

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0821	1.5	6.68	423	20.1		
0822	3.0	6.67	421	20.2		
0823	4.5	6.68	432	20.2		
0824	6.0	6.69	424	20.3		
0825	7.5	6.69	423	20.2		
0826	9.0	6.70	424	20.2		
0827	10.5	6.68	425	20.3		
0828	12.0	6.69	423	20.2		
0829	13.5	6.69	424	20.2		
0830	15.0	6.69	424	20.1		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES

COMMENTS: INITIAL CGI READING: 0 PPM
DEVELOP ONLY CHRISTY BOX OK

Add/Replaced Gasket: ____ Add/Replaced Bolt: ____ Add/Replaced Lock: ✓ Add/Replaced Plug: ✓ (2")

Chevron # 376584
Event of June 24, 2016

WELL CONDITION STATUS SHEET

Client/
Facility #: **Chevron #376584** Job #: **385903**

Site Address: **670 98Th Avenue** Event Date: 6.24.16

City: **Oakland, CA** Sampler: FT JH

WELL ID	Vault Frame Condition	Gasket/ O-Ring (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Bolt Flanges B=Broken S=Stripped R=Retaped	Apron Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) Inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y (N)	REPLACE CAP Y (N)	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Y (N)
MW-1	OK	NA	→	→	OK	→	→	↓	↓	CHRISTY BOX	
MW-5	OK	OK	→	→	OK	→	→			EMCO (12" I.D.)	
WELL 18	OK	NA	→	→	OK	→	→			CHRISTY BOX	
MW-2	OK	N/A	→	→	OK	→	→			↓	
MW-3	OK	N/A	→	→	OK	→	→				
MW-4	BROKE	M	M	B	C	?	BROKE			12" EMCO	

Comments: MW-4 L.2 missing - steel plate covers well

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: Chevron #376584 Job Number: 385903
Site Address: 670 98Th Avenue Event Date: 6.29.16 (inclusive)
City: Oakland, CA Sampler: FT

Well ID MW-1 Date Monitored: 6.24.16
Well Diameter 2 in.
Total Depth 19.68 ft.
Depth to Water 8.48 ft. ☐ Check if water column is less then 0.50 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

11.20 xVF .17 = 1.90 x3 case volume = Estimated Purge Volume: 6.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.72

Purge Equipment:		Sampling Equipment:	
Disposable Bailer	✓	Disposable Bailer	✓
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Metal Filters	
Peristaltic Pump		Peristaltic Pump	
QED Bladder Pump		QED Bladder Pump	
Other:		Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): 0805 Weather Conditions: FOG
Sample Time/Date: 0827 / 6.24.16 Water Color: LT. BRN Odor: Ⓨ / N STRONG
Approx. Flow Rate: ✓ gpm. Sediment Description: S. SILTY
Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: 8.51

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (Ⓒ / F)	D.O. (mg/L)	ORP (mV)
0809	2.0	6.74	391	19.9		
0813	4.0	6.77	397	19.6		
0817	6.0	6.79	402	19.4	✓	✓

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)/ FULL SCAN(8260)/NAPHTHALENE(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc/TPH-DRO(8015)

COMMENTS: SHEEN PRESENT IN H2O

Add/Replaced Gasket: Add/Replaced Bolt: Add/Replaced Lock: Add/Replaced Plug:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #376584 Job Number: 385903
Site Address: 670 98Th Avenue Event Date: 6/24/16 (inclusive)
City: Oakland, CA Sampler: JH

Well ID MW-2 Date Monitored: 6/24/16
Well Diameter 2 in.
Total Depth 28.23 ft.
Depth to Water 8.32 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

19.91 xVF .17 = 3.38 x3 case volume = Estimated Purge Volume: 10.15 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.30

Purge Equipment:		Sampling Equipment:	
Disposable Bailer		Disposable Bailer	X
Stainless Steel Bailer		Pressure Bailer	
Stack Pump	X	Metal Filters	
Peristaltic Pump		Peristaltic Pump	
QED Bladder Pump		QED Bladder Pump	
Other:		Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): 0640 Weather Conditions: Foggy
Sample Time/Date: 0710 / 6/24/16 Water Color: Brown Odor: Y / (N)
Approx. Flow Rate: 1 gpm. Sediment Description: Clear L. silt
Did well de-water? No If yes, Time: Volume: gal. DTW @ Sampling: 9.76

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0643	3	7.55	638	17.6		
0646	6	7.48	631	17.5		
0650	10	7.39	626	17.5		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-2	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)/ FULL SCAN(8260)/NAPHTHALENE(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc/TPH-DRO(8015)

COMMENTS: Christy Box

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: _____ Add/Replaced Plug: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: Chevron #376584 Job Number: 385903
Site Address: 670 98Th Avenue Event Date: 6/24/16 (inclusive)
City: Oakland, CA Sampler: JH

Well ID MW-3 Date Monitored: 6/24/16
Well Diameter 2 in.
Total Depth 22.39 ft.
Depth to Water 8.68 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

13.71 xVF .17 = 2.33 x3 case volume = Estimated Purge Volume: 6.99 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.42

Purge Equipment:		Sampling Equipment:	
Disposable Bailer	X	Disposable Bailer	X
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Metal Filters	
Peristaltic Pump		Peristaltic Pump	
QED Bladder Pump		QED Bladder Pump	
Other:		Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): 0800 Weather Conditions: Cloudy
Sample Time/Date: 0830 / 6/24/16 Water Color: Cloudy Odor: (Y) / N Strong
Approx. Flow Rate: — gpm. Sediment Description: Low
Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 10.70

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0805	2	6.92	599	18.9		
0810	4	6.81	617	18.8		
0817	7	6.65	625	18.4		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)/ FULL SCAN(8260)/NAPHTHALENE(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc/TPH-DRO(8015)

COMMENTS:

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: _____ Add/Replaced Plug: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #376584 Job Number: 385903
Site Address: 670 98Th Avenue Event Date: 6/24/16 (inclusive)
City: Oakland, CA Sampler: JH

Well ID MW-4 Date Monitored: 6/24/16
Well Diameter 2 in.
Total Depth 21.70 ft.
Depth to Water 10.25 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

11.45 xVF .17 = 1.99 x3 case volume = Estimated Purge Volume: 5.83 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.54

Purge Equipment:

Disposable Bailer	✓
Stainless Steel Bailer	
Stack Pump	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	X
Pressure Bailer	
Metal Filters	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): 0845 Weather Conditions: Cloudy
Sample Time/Date: 0915 / 6/24/16 Water Color: Cloudy Odor: (Ø) N Slight
Approx. Flow Rate: — gpm. Sediment Description: Light
Did well de-water? No If yes, Time: Volume: gal. DTW @ Sampling:

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS) mS (µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0850	2	7.32	531	18.2		
0855	4	7.30	540	18.1		
0900	6	7.24	547	18.0		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)/ FULL SCAN(8260)/NAPHTHALENE(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc/TPH-DRO(8015)

COMMENTS:

Add/Replaced Gasket: Add/Replaced Bolt: Add/Replaced Lock: Add/Replaced Plug:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #376584 Job Number: 385903
Site Address: 670 98Th Avenue Event Date: 6.24.16 (inclusive)
City: Oakland, CA Sampler: FT

Well ID MW-5 Date Monitored: 6.24.16
Well Diameter 2 in.
Total Depth 22.58 ft.
Depth to Water 9.12 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

13.46 xVF .17 = 2.28 x3 case volume = Estimated Purge Volume: 7.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.81

Purge Equipment:		Sampling Equipment:	
Disposable Bailer	✓	Disposable Bailer	✓
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Metal Filters	
Peristaltic Pump		Peristaltic Pump	
QED Bladder Pump		QED Bladder Pump	
Other:		Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): 0645 Weather Conditions: FOG
Sample Time/Date: 0710 / 6.24.16 Water Color: BRN. Odor: Y / N
Approx. Flow Rate: — gpm. Sediment Description: SILTY
Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: 9.16

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0650	2.5	6.64	394	18.8		
0655	5.0	6.68	399	18.3		
0659	7.0	6.71	405	18.2		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-5	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)/ FULL SCAN(8260)/NAPHTHALENE(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc/TPH-DRO(8015)

COMMENTS:

Add/Replaced Gasket: Add/Replaced Bolt: Add/Replaced Lock: Add/Replaced Plug:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #376584 Job Number: 385903
Site Address: 670 98Th Avenue Event Date: 6.24.16 (inclusive)
City: Oakland, CA Sampler: FT

Well ID WELL 18 Date Monitored: 6.24.16
Well Diameter 2 in.
Total Depth 16.68 ft.
Depth to Water 8.05 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

8.63 xVF .17 = 1.46 x3 case volume = Estimated Purge Volume: 4.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.77

Purge Equipment:		Sampling Equipment:	
Disposable Bailer	✓	Disposable Bailer	✓
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Metal Filters	
Peristaltic Pump		Peristaltic Pump	
QED Bladder Pump		QED Bladder Pump	
Other:		Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): 0727 Weather Conditions: FOG
Sample Time/Date: 0746/6.24.16 Water Color: LT. BRN Odor: Y / (N)
Approx. Flow Rate: / gpm. Sediment Description: S. SILTY
Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: 8.10

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0730	1.5	6.62	422	19.6		
0733	3.0	6.67	426	19.3		
0736	4.0	6.70	431	19.1		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
WELL 18	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)/ FULL SCAN(8260)/NAPHTHALENE(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc/TPH-DRO(8015)

COMMENTS:

Add/Replaced Gasket: Add/Replaced Bolt: Add/Replaced Lock: Add/Replaced Plug:

Chevron California Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

$62416-$2 5$$

For Eurofins Lancaster Laboratories use only

Acct. # _____ Group # _____ Sample # _____

Instructions on reverse side correspond with circled numbers.

(1) Client Information

Facility # SS#376584-OML G-R#385903 Global WBS ID#T0600101442

Site Address 670 96th AVENUE, OAKLAND, CA

Chevron PM CW Lead Consultant STANTECWB Westhoff

Consultant/Office Getter-Ryan Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568

Consultant Project Mgr Deanna L. Harding, deanna@grinc.com

Consultant Phone # (923) 551-7444 x180

Sampler Jim Herrew

SCR #: _____

(2) Sample Identification	Soil Depth	Collected Date	Collected Time	(3) Grab	(3) Composite	(4) Matrix: Soil	Sediment	Potable Water	Ground Water	NPDES	Surface Water	Air	Oil	Total Number of Containers	(5) Analyses Requested: BTEX + MTBE 8260	BTEX + MTBE 8021	TPH-GRO 8260	TPH-GRO 8015	TPH-DRO 8015 without Silica Gel Cleanup	TPH-DRO 8015 with Silica Gel Cleanup	8260 Full Scan / Naphthalene (8260)	Oxygenates	Total Lead Method	Dissolved Lead Method
QA		160624		X				X					2	X		X								
MW-1			0827										8											
MW-2			0710																					
MW-3			0830																					
MW-4			0915																					
MW-5			0710																					
Well-18			0746																					

(6) Remarks

Amended COC - analysis added

JHH 6/24/16

(7) Turnaround Time Requested (TAT) (please circle)

Standard 5 day 4 day

72 hour 48 hour 24 hour EDF/EDD

(8) Data Package (circle if required)

Type I - Full

Type VI (Raw Data)

EDD (circle if required)

EDFFLAT (default)

Other: _____

Relinquished by	Date	Time	Received by	Date	Time
	6/24/16	0945		6.24.16	0945
	6.24.16	1825		24 JUN 16	1825
Relinquished by Commercial Carrier: UPS ____ FedEx ____ Other ____			Received by	Date	Time

Temperature Upon Receipt _____ °C

Custody Seals Intact? Yes No

(9)

Results in Dry Weight

J value reporting needed

Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation

Confirm highest hit by 8260

Confirm all hits by 8260

Run _____ oxy's on highest hit

Run _____ oxy's on all hits

ATTACHMENT B
Certified Laboratory Analysis Reports and Chain-of-Custody Documents

eurofins | Lancaster Laboratories Environmental

Analysis Report

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

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: August 02, 2016

Project: 376584

Submittal Date: 06/25/2016
Group Number: 1676196
PO Number: 0015188594
Release Number: CMACLEOD

State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LL) #
QA-T-160624 NA Water	8445594
MW-1-W-160624 Grab Groundwater	8445595
MW-2-W-160624 Grab Groundwater	8445596
MW-3-W-160624 Grab Groundwater	8445597
MW-4-W-160624 Grab Groundwater	8445598
MW-5-W-160624 Grab Groundwater	8445599
Well-18-W-160624 Grab Groundwater	8445600

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	Stantec	Attn: Brian Westhoff
Electronic Copy To	Stantec	Attn: Laura Viesselman
Electronic Copy To	Gettler-Ryan Inc.	Attn: Gettler Ryan

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

Sample Description: QA-T-160624 NA Water
Facility# 376584 Job# 385903 GRD
670 98th Avenue-Oakland T0600101442

LL Sample # WW 8445594
LL Group # 1676196
Account # 10906

Project Name: 376584

Collected: 06/24/2016

Submitted: 06/25/2016 09:30
Reported: 08/02/2016 13:13

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

98OQA

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	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	F161891AA	07/07/2016 11:27	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F161891AA	07/07/2016 11:27	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16182A20A	06/30/2016 13:32	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	16182A20A	06/30/2016 13:32	Jeremy C Giffin	1

Sample Description: MW-1-W-160624 Grab Groundwater
Facility# 376584 Job# 385903 GRD
670 98th Avenue-Oakland T0600101442

LL Sample # WW 8445595
LL Group # 1676196
Account # 10906

Project Name: 376584

Collected: 06/24/2016 08:27 by JH

Submitted: 06/25/2016 09:30
Reported: 08/02/2016 13:13

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

98O01

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	N.D.	6	1
10335	t-Amyl methyl ether	994-05-8	N.D.	0.5	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	t-Butyl alcohol	75-65-0	N.D.	5	1
10335	n-Butylbenzene	104-51-8	27	1	1
10335	sec-Butylbenzene	135-98-8	18	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethanol	64-17-5	N.D.	50	1
10335	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	0.8	0.5	1
10335	Freon 113	76-13-1	N.D.	2	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	di-Isopropyl ether	108-20-3	N.D.	0.5	1

Sample Description: MW-1-W-160624 Grab Groundwater
Facility# 376584 Job# 385903 GRD
670 98th Avenue-Oakland T0600101442

LL Sample # WW 8445595
LL Group # 1676196
Account # 10906

Project Name: 376584

Collected: 06/24/2016 08:27 by JH

Submitted: 06/25/2016 09:30
Reported: 08/02/2016 13:13

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

98O01

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Isopropylbenzene	98-82-8	15	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	7	1	1
10335	n-Propylbenzene	103-65-1	55	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	3,400	250	5
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
06609	TPH-DRO CA C10-C28	n.a.	480	50	1
	The response for a target analyte(s) in the continuing calibration verification standard is outside the QC acceptance limits. Sufficient sample was not available to repeat the analysis. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the continuing calibration verification standards bracketing the sample on the second trial are within method limits. The first trial result is reported. The re-extracted result is 2,200 ug/l.				
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	920	50	1

Sample Description: MW-1-W-160624 Grab Groundwater
Facility# 376584 Job# 385903 GRD
670 98th Avenue-Oakland T0600101442

LL Sample # WW 8445595
LL Group # 1676196
Account # 10906

Project Name: 376584

Collected: 06/24/2016 08:27 by JH

Submitted: 06/25/2016 09:30
Reported: 08/02/2016 13:13

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

98O01

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	

The reverse surrogate, capric acid, is present at <1%.
The silica gel sample extract has extraneous peaks that were not present in the non-silica gelled extract. The sample was re-extracted outside method holding time and the extraneous peaks were not seen. Similar sample patterns were seen in both trials. The DRO result is reported from the first trial. The re-extracted silica gel DRO result is 1,800 ug/l.

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
10335	8260 Full List w/ Sep. Xylenes	SW-846 8260B	1	N161891AA	07/07/2016 10:11	Nicole S Lamoreaux	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N161891AA	07/07/2016 10:11	Nicole S Lamoreaux	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16182A20A	06/30/2016 22:18	Jeremy C Giffin	5
01146	GC VOA Water Prep	SW-846 5030B	1	16182A20A	06/30/2016 22:18	Jeremy C Giffin	5
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	161780012A	06/30/2016 04:08	Christine E Dolman	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	161780013A	06/29/2016 19:24	Thomas C Wildermuth	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	161780012A	06/28/2016 20:35	Karen L Beyer	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	161780013A	06/28/2016 20:35	Karen L Beyer	1

Sample Description: MW-2-W-160624 Grab Groundwater
Facility# 376584 Job# 385903 GRD
670 98th Avenue-Oakland T0600101442

LL Sample # WW 8445596
LL Group # 1676196
Account # 10906

Project Name: 376584

Collected: 06/24/2016 07:10 by JH

Submitted: 06/25/2016 09:30
Reported: 08/02/2016 13:13

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

98O02

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

Sample Description: MW-2-W-160624 Grab Groundwater
Facility# 376584 Job# 385903 GRD
670 98th Avenue-Oakland T0600101442

LL Sample # WW 8445596
LL Group # 1676196
Account # 10906

Project Name: 376584

Collected: 06/24/2016 07:10 by JH

Submitted: 06/25/2016 09:30
Reported: 08/02/2016 13:13

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

98O02

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	2	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	2	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
06609	TPH-DRO CA C10-C28	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	1
	The reverse surrogate, capric acid, is present at <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.

Sample Description: MW-2-W-160624 Grab Groundwater
Facility# 376584 Job# 385903 GRD
670 98th Avenue-Oakland T0600101442

LL Sample # WW 8445596
LL Group # 1676196
Account # 10906

Project Name: 376584

Collected: 06/24/2016 07:10 by JH

Submitted: 06/25/2016 09:30
Reported: 08/02/2016 13:13

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

98O02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Full List w/ Sep. Xylenes	SW-846 8260B	1	N161891AA	07/07/2016 10:34	Nicole S Lamoreaux	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N161891AA	07/07/2016 10:34	Nicole S Lamoreaux	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16182A20A	06/30/2016 21:51	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	16182A20A	06/30/2016 21:51	Jeremy C Giffin	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	161780012A	06/30/2016 19:21	Christine E Dolman	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	161780013A	06/29/2016 19:45	Thomas C Wildermuth	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	161780012A	06/28/2016 20:35	Karen L Beyer	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	161780013A	06/28/2016 20:35	Karen L Beyer	1

Sample Description: MW-3-W-160624 Grab Groundwater
Facility# 376584 Job# 385903 GRD
670 98th Avenue-Oakland T0600101442

LL Sample # WW 8445597
LL Group # 1676196
Account # 10906

Project Name: 376584

Collected: 06/24/2016 08:30 by JH

Submitted: 06/25/2016 09:30
Reported: 08/02/2016 13:13

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

98003

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

Sample Description: MW-3-W-160624 Grab Groundwater
Facility# 376584 Job# 385903 GRD
670 98th Avenue-Oakland T0600101442

LL Sample # WW 8445597
LL Group # 1676196
Account # 10906

Project Name: 376584

Collected: 06/24/2016 08:30 by JH

Submitted: 06/25/2016 09:30
Reported: 08/02/2016 13:13

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

98O03

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	1	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	1	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
06609	TPH-DRO CA C10-C28	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	1
	The reverse surrogate, capric acid, is present at <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.

Sample Description: MW-3-W-160624 Grab Groundwater
Facility# 376584 Job# 385903 GRD
670 98th Avenue-Oakland T0600101442

LL Sample # WW 8445597
LL Group # 1676196
Account # 10906

Project Name: 376584

Collected: 06/24/2016 08:30 by JH

Submitted: 06/25/2016 09:30
Reported: 08/02/2016 13:13

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

98O03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Full List w/ Sep. Xylenes	SW-846 8260B	1	N161891AA	07/07/2016 10:57	Nicole S Lamoreaux	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N161891AA	07/07/2016 10:57	Nicole S Lamoreaux	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16185A20A	07/08/2016 00:26	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	16185A20A	07/08/2016 00:26	Jeremy C Giffin	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	161780012A	06/30/2016 19:43	Christine E Dolman	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	161780013A	06/29/2016 20:07	Thomas C Wildermuth	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	161780012A	06/28/2016 20:35	Karen L Beyer	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	161780013A	06/28/2016 20:35	Karen L Beyer	1

Sample Description: MW-4-W-160624 Grab Groundwater
Facility# 376584 Job# 385903 GRD
670 98th Avenue-Oakland T0600101442

LL Sample # WW 8445598
LL Group # 1676196
Account # 10906

Project Name: 376584

Collected: 06/24/2016 09:15 by JH

Submitted: 06/25/2016 09:30
Reported: 08/02/2016 13:13

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

98O04

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

Sample Description: MW-4-W-160624 Grab Groundwater
Facility# 376584 Job# 385903 GRD
670 98th Avenue-Oakland T0600101442

LL Sample # WW 8445598
LL Group # 1676196
Account # 10906

Project Name: 376584

Collected: 06/24/2016 09:15 by JH

Submitted: 06/25/2016 09:30
Reported: 08/02/2016 13:13

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

98O04

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	140	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	1	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
06609	TPH-DRO CA C10-C28	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	1
	The reverse surrogate, capric acid, is present at <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.

Sample Description: MW-4-W-160624 Grab Groundwater
Facility# 376584 Job# 385903 GRD
670 98th Avenue-Oakland T0600101442

LL Sample # WW 8445598
LL Group # 1676196
Account # 10906

Project Name: 376584

Collected: 06/24/2016 09:15 by JH

Submitted: 06/25/2016 09:30
Reported: 08/02/2016 13:13

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

98O04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Full List w/ Sep. Xylenes	SW-846 8260B	1	N161891AA	07/07/2016 11:21	Nicole S Lamoreaux	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N161891AA	07/07/2016 11:21	Nicole S Lamoreaux	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16185A20A	07/08/2016 00:54	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	16185A20A	07/08/2016 00:54	Jeremy C Giffin	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	161780012A	06/30/2016 20:48	Christine E Dolman	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	2	161780013A	07/27/2016 11:01	Christine E Dolman	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	161780012A	06/28/2016 20:35	Karen L Beyer	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	161780013A	06/28/2016 20:35	Karen L Beyer	1

Sample Description: MW-5-W-160624 Grab Groundwater
Facility# 376584 Job# 385903 GRD
670 98th Avenue-Oakland T0600101442

LL Sample # WW 8445599
LL Group # 1676196
Account # 10906

Project Name: 376584

Collected: 06/24/2016 07:10 by JH

Submitted: 06/25/2016 09:30
Reported: 08/02/2016 13:13

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

98005

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

Sample Description: MW-5-W-160624 Grab Groundwater
Facility# 376584 Job# 385903 GRD
670 98th Avenue-Oakland T0600101442

LL Sample # WW 8445599
LL Group # 1676196
Account # 10906

Project Name: 376584

Collected: 06/24/2016 07:10 by JH

Submitted: 06/25/2016 09:30
Reported: 08/02/2016 13:13

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

98005

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
06609	TPH-DRO CA C10-C28	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	95	50	1
	The reverse surrogate, capric acid, is present at <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.

Sample Description: MW-5-W-160624 Grab Groundwater
Facility# 376584 Job# 385903 GRD
670 98th Avenue-Oakland T0600101442

LL Sample # WW 8445599
LL Group # 1676196
Account # 10906

Project Name: 376584

Collected: 06/24/2016 07:10 by JH

Submitted: 06/25/2016 09:30
Reported: 08/02/2016 13:13

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

98O05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Full List w/ Sep. Xylenes	SW-846 8260B	1	N161891AA	07/07/2016 11:44	Nicole S Lamoreaux	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N161891AA	07/07/2016 11:44	Nicole S Lamoreaux	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16185A20A	07/08/2016 01:21	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	16185A20A	07/08/2016 01:21	Jeremy C Giffin	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	161780012A	06/30/2016 20:04	Christine E Dolman	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	161780013A	06/29/2016 20:51	Thomas C Wildermuth	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	161780012A	06/28/2016 20:35	Karen L Beyer	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	161780013A	06/28/2016 20:35	Karen L Beyer	1

Sample Description: Well-18-W-160624 Grab Groundwater
Facility# 376584 Job# 385903 GRD
670 98th Avenue-Oakland T0600101442

LL Sample # WW 8445600
LL Group # 1676196
Account # 10906

Project Name: 376584

Collected: 06/24/2016 07:46 by JH

Submitted: 06/25/2016 09:30
Reported: 08/02/2016 13:13

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

98O18

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	9	6	1
10335	t-Amyl methyl ether	994-05-8	N.D.	0.5	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	t-Butyl alcohol	75-65-0	N.D.	5	1
10335	n-Butylbenzene	104-51-8	1	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	0.6	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethanol	64-17-5	N.D.	50	1
10335	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	1	0.5	1
10335	Freon 113	76-13-1	N.D.	2	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	di-Isopropyl ether	108-20-3	N.D.	0.5	1

Sample Description: Well-18-W-160624 Grab Groundwater
Facility# 376584 Job# 385903 GRD
670 98th Avenue-Oakland T0600101442

LL Sample # WW 8445600
LL Group # 1676196
Account # 10906

Project Name: 376584

Collected: 06/24/2016 07:46 by JH

Submitted: 06/25/2016 09:30
Reported: 08/02/2016 13:13

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

98O18

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Isopropylbenzene	98-82-8	4	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	5	1	1
10335	n-Propylbenzene	103-65-1	5	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	2	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	2	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC/DoD Standards. The following analytes are accepted based on this allowance: Acetone				
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	890	50	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
06609	TPH-DRO CA C10-C28	n.a.	120	50	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	96	50	1
	The reverse surrogate, capric acid, is present at <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.

Sample Description: **Well-18-W-160624 Grab Groundwater**
Facility# 376584 Job# 385903 GRD
670 98th Avenue-Oakland T0600101442

LL Sample # WW 8445600
LL Group # 1676196
Account # 10906

Project Name: 376584

Collected: 06/24/2016 07:46 by JH

Submitted: 06/25/2016 09:30
Reported: 08/02/2016 13:13

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

98O18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Full List w/ Sep. Xylenes	SW-846 8260B	1	N161891AA	07/07/2016 12:07	Nicole S Lamoreaux	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N161891AA	07/07/2016 12:07	Nicole S Lamoreaux	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16185A20A	07/08/2016 01:49	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	16185A20A	07/08/2016 01:49	Jeremy C Giffin	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	161780012A	06/30/2016 20:26	Christine E Dolman	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	161780013A	06/29/2016 21:13	Thomas C Wildermuth	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	161780012A	06/28/2016 20:35	Karen L Beyer	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	161780013A	06/28/2016 20:35	Karen L Beyer	1

Quality Control Summary

Client Name: Chevron
Reported: 08/02/2016 13:13

Group Number: 1676196

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
	ug/l	ug/l
Batch number: F161891AA	Sample number(s): 8445594	
Benzene	N.D.	0.5
Ethylbenzene	N.D.	0.5
Methyl Tertiary Butyl Ether	N.D.	0.5
Toluene	N.D.	0.5
Xylene (Total)	N.D.	0.5
Batch number: N161891AA	Sample number(s): 8445595-8445600	
Acetone	N.D.	6
t-Amyl methyl ether	N.D.	0.5
Benzene	N.D.	0.5
Bromobenzene	N.D.	1
Bromochloromethane	N.D.	1
Bromodichloromethane	N.D.	0.5
Bromoform	N.D.	0.5
Bromomethane	N.D.	0.5
2-Butanone	N.D.	3
t-Butyl alcohol	N.D.	5
n-Butylbenzene	N.D.	1
sec-Butylbenzene	N.D.	1
tert-Butylbenzene	N.D.	1
Carbon Disulfide	N.D.	1
Carbon Tetrachloride	N.D.	0.5
Chlorobenzene	N.D.	0.5
Chloroethane	N.D.	0.5
2-Chloroethyl Vinyl Ether	N.D.	2
Chloroform	N.D.	0.5
Chloromethane	N.D.	0.5
2-Chlorotoluene	N.D.	1
4-Chlorotoluene	N.D.	1
1,2-Dibromo-3-chloropropane	N.D.	2
Dibromochloromethane	N.D.	0.5
1,2-Dibromoethane	N.D.	0.5
Dibromomethane	N.D.	0.5
1,2-Dichlorobenzene	N.D.	1
1,3-Dichlorobenzene	N.D.	1
1,4-Dichlorobenzene	N.D.	1
Dichlorodifluoromethane	N.D.	0.5
1,1-Dichloroethane	N.D.	0.5
1,2-Dichloroethane	N.D.	0.5
1,1-Dichloroethene	N.D.	0.5
cis-1,2-Dichloroethene	N.D.	0.5
trans-1,2-Dichloroethene	N.D.	0.5
1,2-Dichloropropane	N.D.	0.5

*- Outside of specification
(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: 08/02/2016 13:13

Group Number: 1676196

Method Blank (continued)

Analysis Name	Result	MDL
	ug/l	ug/l
1,3-Dichloropropane	N.D.	0.5
2,2-Dichloropropane	N.D.	0.5
1,1-Dichloropropene	N.D.	1
cis-1,3-Dichloropropene	N.D.	0.5
trans-1,3-Dichloropropene	N.D.	0.5
Ethanol	N.D.	50
Ethyl t-butyl ether	N.D.	0.5
Ethylbenzene	N.D.	0.5
Freon 113	N.D.	2
Hexachlorobutadiene	N.D.	2
2-Hexanone	N.D.	3
di-Isopropyl ether	N.D.	0.5
Isopropylbenzene	N.D.	1
p-Isopropyltoluene	N.D.	1
Methyl Tertiary Butyl Ether	N.D.	0.5
4-Methyl-2-pentanone	N.D.	3
Methylene Chloride	N.D.	2
Naphthalene	N.D.	1
n-Propylbenzene	N.D.	1
Styrene	N.D.	1
1,1,1,2-Tetrachloroethane	N.D.	0.5
1,1,2,2-Tetrachloroethane	N.D.	0.5
Tetrachloroethene	N.D.	0.5
Toluene	N.D.	0.5
1,2,3-Trichlorobenzene	N.D.	1
1,2,4-Trichlorobenzene	N.D.	1
1,1,1-Trichloroethane	N.D.	0.5
1,1,2-Trichloroethane	N.D.	0.5
Trichloroethene	N.D.	0.5
Trichlorofluoromethane	N.D.	0.5
1,2,3-Trichloropropane	N.D.	1
1,2,4-Trimethylbenzene	N.D.	1
1,3,5-Trimethylbenzene	N.D.	1
Vinyl Chloride	N.D.	0.5
m+p-Xylene	N.D.	0.5
o-Xylene	N.D.	0.5
Batch number: 16182A20A	Sample number(s): 8445594-8445596	
TPH-GRO N. CA water C6-C12	N.D.	50
Batch number: 16185A20A	Sample number(s): 8445597-8445600	
TPH-GRO N. CA water C6-C12	N.D.	50
Batch number: 161780012A	Sample number(s): 8445595-8445600	
TPH-DRO CA C10-C28	N.D.	50
Batch number: 161780013A	Sample number(s): 8445595-8445600	
TPH-DRO CA C10-C28 w/ Si Gel	N.D.	50

*- Outside of specification
(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: 08/02/2016 13:13

Group Number: 1676196

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: F161891AA	Sample number(s): 8445594								
Benzene	20	18.41	20	18.66	92	93	78-120	1	30
Ethylbenzene	20	18.22	20	18.65	91	93	78-120	2	30
Methyl Tertiary Butyl Ether	20	19.44	20	19.17	97	96	75-120	1	30
Toluene	20	18.32	20	18.67	92	93	80-120	2	30
Xylene (Total)	60	54.77	60	55.8	91	93	80-120	2	30
Batch number: N161891AA	Sample number(s): 8445595-8445600								
Acetone	150	169.18	150	214.37	113	143*	58-138	24	30
t-Amyl methyl ether	20	18.19	20	18.04	91	90	75-120	1	30
Benzene	20	22.59	20	22.62	113	113	78-120	0	30
Bromobenzene	20	18.69	20	18.57	93	93	80-120	1	30
Bromochloromethane	20	22.87	20	22.69	114	113	80-125	1	30
Bromodichloromethane	20	20.47	20	20.45	102	102	80-120	0	30
Bromoform	20	18.24	20	18.09	91	90	67-120	1	30
Bromomethane	20	17.33	20	16.84	87	84	53-130	3	30
2-Butanone	150	139.75	150	154.4	93	103	62-131	10	30
t-Butyl alcohol	200	183.46	200	185.67	92	93	78-121	1	30
n-Butylbenzene	20	18.32	20	18.4	92	92	68-120	0	30
sec-Butylbenzene	20	18.69	20	18.67	93	93	68-124	0	30
tert-Butylbenzene	20	18.05	20	18.75	90	94	74-121	4	30
Carbon Disulfide	20	20.51	20	20.48	103	102	58-120	0	30
Carbon Tetrachloride	20	22.2	20	21.87	111	109	74-130	1	30
Chlorobenzene	20	20.68	20	20.58	103	103	80-120	0	30
Chloroethane	20	16.91	20	16.82	85	84	56-120	1	30
2-Chloroethyl Vinyl Ether	20	17.17	20	17.69	86	88	65-120	3	30
Chloroform	20	21	20	21.07	105	105	80-120	0	30
Chloromethane	20	19.12	20	19.47	96	97	65-129	2	30
2-Chlorotoluene	20	18.56	20	18.98	93	95	80-120	2	30
4-Chlorotoluene	20	18.99	20	18.91	95	95	78-120	0	30
1,2-Dibromo-3-chloropropane	20	13.51	20	13.43	68	67	59-120	1	30
Dibromochloromethane	20	19.42	20	19.56	97	98	78-120	1	30
1,2-Dibromoethane	20	19.23	20	19.27	96	96	80-120	0	30
Dibromomethane	20	21.57	20	21.52	108	108	80-120	0	30
1,2-Dichlorobenzene	20	18.85	20	18.76	94	94	80-120	0	30
1,3-Dichlorobenzene	20	18.87	20	18.69	94	93	80-120	1	30
1,4-Dichlorobenzene	20	19.22	20	19.1	96	96	80-120	1	30
Dichlorodifluoromethane	20	19.73	20	19.73	99	99	49-127	0	30
1,1-Dichloroethane	20	22.12	20	21.84	111	109	80-120	1	30
1,2-Dichloroethane	20	20.06	20	20.03	100	100	72-127	0	30
1,1-Dichloroethene	20	21.69	20	21.35	108	107	76-124	2	30
cis-1,2-Dichloroethene	20	21.44	20	21.54	107	108	80-120	0	30
trans-1,2-Dichloroethene	20	22.19	20	22.05	111	110	80-120	1	30
1,2-Dichloropropane	20	22.2	20	22.08	111	110	80-120	1	30
1,3-Dichloropropane	20	19.13	20	18.98	96	95	80-120	1	30
2,2-Dichloropropane	20	19.26	20	19.24	96	96	48-159	0	30
1,1-Dichloropropene	20	20.14	20	20.44	101	102	80-126	1	30
cis-1,3-Dichloropropene	20	19.22	20	19.2	96	96	80-120	0	30
trans-1,3-Dichloropropene	20	16.71	20	16.79	84	84	76-120	1	30
Ethanol	500	601.65	500	624.66	120	125	47-155	4	30
Ethyl t-butyl ether	20	17.29	20	17.14	86	86	69-120	1	30

*- Outside of specification
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(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: 08/02/2016 13:13

Group Number: 1676196

LCS/LCSD (continued)

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l					
Ethylbenzene	20	19.56	20	19.72	98	99	78-120	1	30
Freon 113	20	22.61	20	22.55	113	113	64-136	0	30
Hexachlorobutadiene	20	17	20	16.09	85	80	61-127	6	30
2-Hexanone	100	80.43	100	83.3	80	83	35-138	4	30
di-Isopropyl ether	20	18.47	20	18.51	92	93	70-124	0	30
Isopropylbenzene	20	19.4	20	19.38	97	97	80-120	0	30
p-Isopropyltoluene	20	18.31	20	18.21	92	91	76-120	1	30
Methyl Tertiary Butyl Ether	20	19.68	20	19.45	98	97	75-120	1	30
4-Methyl-2-pentanone	100	87.99	100	89.16	88	89	47-133	1	30
Methylene Chloride	20	21.72	20	21.58	109	108	77-121	1	30
Naphthalene	20	15.45	20	14.6	77	73	59-120	6	30
n-Propylbenzene	20	18.89	20	19.04	94	95	75-130	1	30
Styrene	20	18.08	20	18.14	90	91	80-120	0	30
1,1,1,2-Tetrachloroethane	20	18.78	20	18.68	94	93	80-120	1	30
1,1,2,2-Tetrachloroethane	20	17.06	20	16.98	85	85	72-120	1	30
Tetrachloroethene	20	20.97	20	20.93	105	105	80-129	0	30
Toluene	20	20.11	20	20.1	101	101	80-120	0	30
1,2,3-Trichlorobenzene	20	16.25	20	15.38	81	77	69-120	6	30
1,2,4-Trichlorobenzene	20	16.27	20	15.99	81	80	66-120	2	30
1,1,1-Trichloroethane	20	20.89	20	20.9	104	105	66-126	0	30
1,1,2-Trichloroethane	20	18.59	20	18.99	93	95	80-120	2	30
Trichloroethene	20	22.06	20	22.17	110	111	80-120	1	30
Trichlorofluoromethane	20	22.39	20	22.5	112	112	67-129	0	30
1,2,3-Trichloropropane	20	18.35	20	18.23	92	91	76-120	1	30
1,2,4-Trimethylbenzene	20	18.29	20	18.44	91	92	75-120	1	30
1,3,5-Trimethylbenzene	20	18.42	20	18.32	92	92	75-120	1	30
Vinyl Chloride	20	20.43	20	20.45	102	102	69-120	0	30
m+p-Xylene	40	40.15	40	40.07	100	100	80-120	0	30
o-Xylene	20	18.86	20	19	94	95	80-120	1	30
	ug/l	ug/l	ug/l	ug/l					
Batch number: 16182A20A	Sample number(s): 8445594-8445596								
TPH-GRO N. CA water C6-C12	1100	1014.48	1100	996.56	92	91	77-120	2	30
Batch number: 16185A20A	Sample number(s): 8445597-8445600								
TPH-GRO N. CA water C6-C12	1100	1158.76	1100	1100.62	105	100	77-120	5	30
	ug/l	ug/l	ug/l	ug/l					
Batch number: 161780012A	Sample number(s): 8445595-8445600								
TPH-DRO CA C10-C28	1600	1286.55	1600	1343.91	80	84	53-115	4	20
	ug/l	ug/l	ug/l	ug/l					
Batch number: 161780013A	Sample number(s): 8445595-8445600								
TPH-DRO CA C10-C28 w/ Si Gel	1600	1143.02	1600	1370.52	71	86	40-105	18	20

*- Outside of specification
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(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: 08/02/2016 13:13

Group Number: 1676196

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: F161891AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8445594	98	98	99	98
Blank	97	99	100	97
LCS	98	101	100	100
LCSD	96	100	101	101
Limits:	80-116	77-113	80-113	78-113

Analysis Name: 8260 Full List w/ Sep. Xylenes
Batch number: N161891AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8445595	103	104	94	98
8445596	108	108	92	95
8445597	108	106	92	95
8445598	109	107	92	93
8445599	109	107	92	93
8445600	106	106	93	99
Blank	106	108	92	95
LCS	105	105	96	100
LCSD	103	104	97	100
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 16182A20A

	Trifluorotoluene-F
8445594	89
8445595	87
8445596	78
Blank	86
LCS	97
LCSD	96
Limits:	63-135

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 16185A20A

	Trifluorotoluene-F
8445597	92
8445598	91
8445599	92
8445600	96
Blank	92
LCS	100
LCSD	100

*- Outside of specification
(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: 08/02/2016 13:13

Group Number: 1676196

Surrogate Quality Control (continued)

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

Limits: 63-135

Analysis Name: TPH-DRO CA C10-C28
Batch number: 161780012A

	Orthoterphenyl
8445595	109
8445596	105
8445597	104
8445598	103
8445599	92
8445600	95
Blank	104
LCS	103
LCSD	111

Limits: 50-124

Analysis Name: TPH-DRO CA C10-C28 w/ Si Gel
Batch number: 161780013A

	Orthoterphenyl
8445595	102
8445596	89
8445597	102
8445598	91
8445599	78
8445600	87
Blank	102
LCS	95
LCSD	104

Limits: 42-126

*- Outside of specification
(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.

Chevron California Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

606 / 606416-602

Acct. # 10906 For Eurofins Lancaster Laboratories use only Group # 1676196 Sample # 8445594-600

Instructions on reverse side correspond with circled numbers.

(1) Client Information

Facility # SS#376584-OML G-R#385903 Global ID#T0600101442 WBS

Site Address 670 98th AVENUE, OAKLAND, CA

Chevron PM CM STANTECWB Lead Consultant Westhoff

Consultant/Office Getter-Ryan Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568

Consultant Project Mgr. Deanna L. Harding, deanna@grinc.com

Consultant Phone # (925) 551-7444 x180

Sampler Jim Herrew

(4) Matrix

Soil ☐ Sediment ☐ Potable ☒ Ground ☐ NPDES ☐ Surface ☐ Air ☐ Soil ☐ Water ☐ Oil ☐

(3) Grab / Composite

(5) Analyses Requested

(2) Sample Identification	Soil Depth	Collected Date	Collected Time	Grab	Composite	Total Number of Containers	BTEX + MTBE 8021 ☐ 8260 ☒	TPH-GRO 8015 ☐ 8260 ☒	TPH-DRO 8015 without Silica Gel Cleanup ☒	TPH-DRO 8015 with Silica Gel Cleanup ☒	8260 Full Scan (Naphthalene)	Oxygenates	Total Lead Method	Dissolved Lead Method
QA		160624		X		2	X	X	X	X	X			
MW-1			0827											
MW-2			0710											
MW-3			0830											
MW-4			0915											
MW-5			0710											
Well-18			0746											

SCR #: _____

- ☐ Results in Dry Weight
- ☐ J value reporting needed
- ☒ Must meet lowest detection limits possible for 8260 compounds
- ☐ 8021 MTBE Confirmation
- ☐ Confirm highest hit by 8260
- ☐ Confirm all hits by 8260
- ☐ Run _____ oxy's on highest hit
- ☐ Run _____ oxy's on all hits

(6) Remarks

Amended COC... Analysis added

JM 6/24/16

(7) Turnaround Time Requested (TAT) (please circle)

Standard 5 day 4 day

72 hour 48 hour 24 hour EDF/EDD

(8) Data Package (circle if required)

Type I - Full

Type VI (Raw Data)

EDD (circle if required)

EDFFLAT (default)

Other: _____

Relinquished by	Date	Time	Received by	Date	Time (9)
	6/24/16	0945		6.24.16	0945
Relinquished by	Date	Time	Received by	Date	Time
	6.24.16	1825	24	JUN16	1825
Relinquished by Commercial Carrier: UPS ____ FedEx ____ Other ____			Received by	Date	Time
				6/25/16	(TB)

Temperature Upon Receipt _____ °C

Custody Seals Intact? Yes No

Chevron California Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

$62416-$2 5$$

For Eurofins Lancaster Laboratories use only
Acct. # 10906 Group # 1676196 Sample # 8445594-600
Instructions on reverse side correspond with circled numbers.

(1) Client Information

Facility # SS#376584-OML G-R#385903 Global ID#T0600101442 WBS
Site Address 670 98th AVENUE, OAKLAND, CA
Chevron PM CM Lead Consultant Westhoff
Consultant/Office Getter-Ryan Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568
Consultant Project Mgr Deanna L. Harding, deanna@grinc.com
Consultant Phone # (925) 551-7444 x180
Sampler Jim Herren

(4) Matrix

Soil ☐ Sediment ☐ Water ☒ Ground ☐ Potable ☐ Surface ☐ NPDES ☐ Oil ☐ Air ☐

(3) Grab / Composite

(2) Sample Identification | Soil Depth | Collected Date | Time | Grab | Composite | Soil | Water | Oil | Total Number of Containers

Sample Identification	Soil Depth	Date	Time	Grab	Composite	Soil	Water	Oil	Total Containers
QA		160624		X			X		2
MW-1			0827						8
MW-2			0710						
MW-3			0830						
MW-4			0915						
MW-5			0710						
Well-18			0746						

(5) Analyses Requested

BTEX + MTBE 8021	BTEX + MTBE 8260	TPH-GRO 8015	TPH-GRO 8260	TPH-DRO 8015 without Silica Gel Cleanup	TPH-DRO 8015 with Silica Gel Cleanup	8260 Full Scan (Naphthalene)	Oxygenates	Total Lead Method	Dissolved Lead Method
☐	☒	☐	☒	☒	☒				

SCR #:

- ☐ Results in Dry Weight
- ☐ J value reporting needed
- ☒ Must meet lowest detection limits possible for 8260 compounds
- ☐ 8021 MTBE Confirmation
- ☐ Confirm highest hit by 8260
- ☐ Confirm all hits by 8260
- ☐ Run _____ oxy's on highest hit
- ☐ Run _____ oxy's on all hits

(6) Remarks

(7) Turnaround Time Requested (TAT) (please circle)

Standard | 5 day | 4 day | 72 hour | 48 hour | 24 hour | EDF/EDD

(8) Data Package (circle if required)

Type I - Full
Type VI (Raw Data)

EDD (circle if required)

EDFFLAT (default)
Other: _____

Relinquished by	Date	Time	Received by	Date	Time
	6/24/16	0945		6.24.16	0945
	6.24.16	1825		24JUN16	1825
Relinquished by Commercial Carrier: UPS ____ FedEx ____ Other ____	24JUN16	1630			
				6/25/16	0930

Temperature Upon Receipt 0.6 °C

Custody Seals Intact? Yes / No

(9)

Sample Administration Receipt Documentation Log

Doc Log ID: 151679

Group Number(s): 1676196

Client: Chevron

Delivery and Receipt Information

Delivery Method:	BASC	Arrival Timestamp:	06/25/2016 9:30
Number of Packages:	2	Number of Projects:	1
State/Province of Origin:	CA		

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:	No
Samples Chilled:	Yes	Total Trip Blank Qty:	4
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:	No		

Unpacked by Karen Diem (3060) at 12:13 on 06/25/2016

Samples Chilled Details

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	DT131	0.6	DT	Wet	Y	Bagged	N
2	DT131	0.9	DT	Wet	Y	Bagged	N

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:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	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)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	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 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:

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.

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

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