Carryl MacLeod
Project Manager, Marketing Business Unit

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

Re: Second Quarter 2018 Semi-annual Groundwater Monitoring Report
Former Chevron Service Station No. 376584
670 98th Avenue
Oakland, California
ACDEH Case No. RO0379
GeoTracker Global ID: T0600101442

I have read and acknowledge the content, recommendations and/or conclusions contained in the attached document submitted on my behalf to the State Water Board's GeoTracker website.

Sincerely,

Carryl MacLeod
Project Manager

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

Report Title	Sample Period	PDF Report	GEO_MAPS	Sample ID	Matrix	GeO_Z	GEO_XY	GEO_BORE	GEO_WELL	EDF
376584 2018-08-14 2Q18 GWM Report	2018 Q2	X		MW-1	W				X	X
				MW-2	W				X	X
				MW-3	W				X	X
				MW-4	W				X	X
				MW-5	W				X	X
				Well-18	W				X	X

AECOM
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Camarillo, California 93012

(805) 388-3775 tel
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August 14, 2018

Ms. Karel Detterman
Alameda County Environmental Health Department
1131 Harbor Bay Parkway
Alameda, California 94602
(via electronic upload)

Subject: **Second Quarter 2018 Semiannual Groundwater Monitoring Report**
Chevron Site No. 376584 (Former Union Oil Service Station 2720)
670 98th Avenue, Oakland, California
ACEHD Case No. RO0000379

Dear Ms. Detterman:

On behalf of Chevron Environmental Management Company (Chevron), AECOM is pleased to present this second quarter 2018 semiannual groundwater monitoring report for the above-referenced site.

Future Work

The next groundwater monitoring event is scheduled to be conducted during the fourth quarter of 2018, during which all wells will be gauged and sampled.

Remarks/Signatures

The interpretations in this report represent AECOM's professional opinions and are based, in part, on the information supplied by the groundwater monitoring contractor and laboratory. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

If you have any questions regarding this project, please contact Brenda Evans at (805) 233-3988.

Sincerely,

Brenda Evans
Senior Project Manager

Dana Files, PG #8410
Project Geologist

8-14-18

ccs: Carryl MacLeod, Chevron *(via electronic copy)*
Linda Hothem, Linda Hothem Trust *(via email)*
Roslyn Danforth, c/o Rocklin Industries *(via paper copy)*
City of Oakland Department of Public Works, c/o Mark Arniola *(via email)*

Enclosures:

Attachment A - Groundwater Monitoring Summary
Attachment B - Figures
Attachment C - Tables
Attachment D - Hydrographs
Attachment E - Field Procedures and Field Logs
Attachment F - Laboratory Analytical Report and Chain-of-Custody Documentation

ATTACHMENT A

GROUNDWATER MONITORING SUMMARY

Second Quarter 2018 Semiannual Groundwater Monitoring Summary
Chevron Site No. 376584 (Former Union Oil Service Station 2720)
670 98th Avenue, Oakland, California

CURRENT FIELD ACTIVITIES

Groundwater monitoring frequency:	Quarterly
Activity date:	June 29, 2018
Groundwater monitoring subcontractor:	Gettler-Ryan Inc. (G-R)
Number of groundwater wells total:	6
Number of groundwater wells off-site:	4
Number of wells sampled (this period):	6
Number of wells with LNAPL[1] (this period):	0
LNAPL recovered during this period (gallons):	None

SITE HYDROLOGY

Groundwater elevation range (feet above mean sea level) (this period):	7.83 to 8.32
Depth to water range (feet below top of well casings)	7.94 (Well-18) to 10.16 (MW-4)
Approximate groundwater flow direction (this period):	West-southwest
Approximate hydraulic gradient (feet per foot) (this period):	0.002

GROUNDWATER CONDITIONS

Maximum detected TPH-GRO concentration (this period):	300 µg/L (MW-1)
Historical maximum detected TPH-GRO concentration:	2,940,000 µg/L (MW-1) on 10/4/1990
Maximum detected TPH-DRO concentration (this period):	210 µg/L (MW-1)
Historical maximum detected TPH-DRO concentration:	17,000 µg/L (Well-18) on 2/14/1990
Maximum detected TPH-DRO w/SGC concentration (this period):	120 µg/L (MW-1)
Historical maximum detected TPH-DRO w/SGC concentration:	920 µg/L (MW-1) on 6/24/2016
Maximum detected benzene concentration (this period):	Not detected
Historical maximum detected benzene concentration:	7,780 µg/L (MW-1) on 10/4/1990
Maximum detected MTBE concentration (this period):	Not detected
Historical maximum detected MTBE concentration:	Not detected

(1) Light non-aqueous phase liquid

Second Quarter 2018 Semiannual Groundwater Monitoring Summary
Chevron Site No. 376584 (Former Union Oil Service Station 2720)
670 98th Avenue, Oakland, California

GROUNDWATER TRENDS AND OBSERVATIONS

- Groundwater flow direction during the second quarter 2018 monitoring event is to the west-southwest.

- Total petroleum hydrocarbons as gasoline-range organics (TPH-GRO) were detected in two of six groundwater samples collected from the wells sampled during this period. The maximum TPH-GRO concentration (300 µg/L) was in the groundwater sample collected from MW-1.

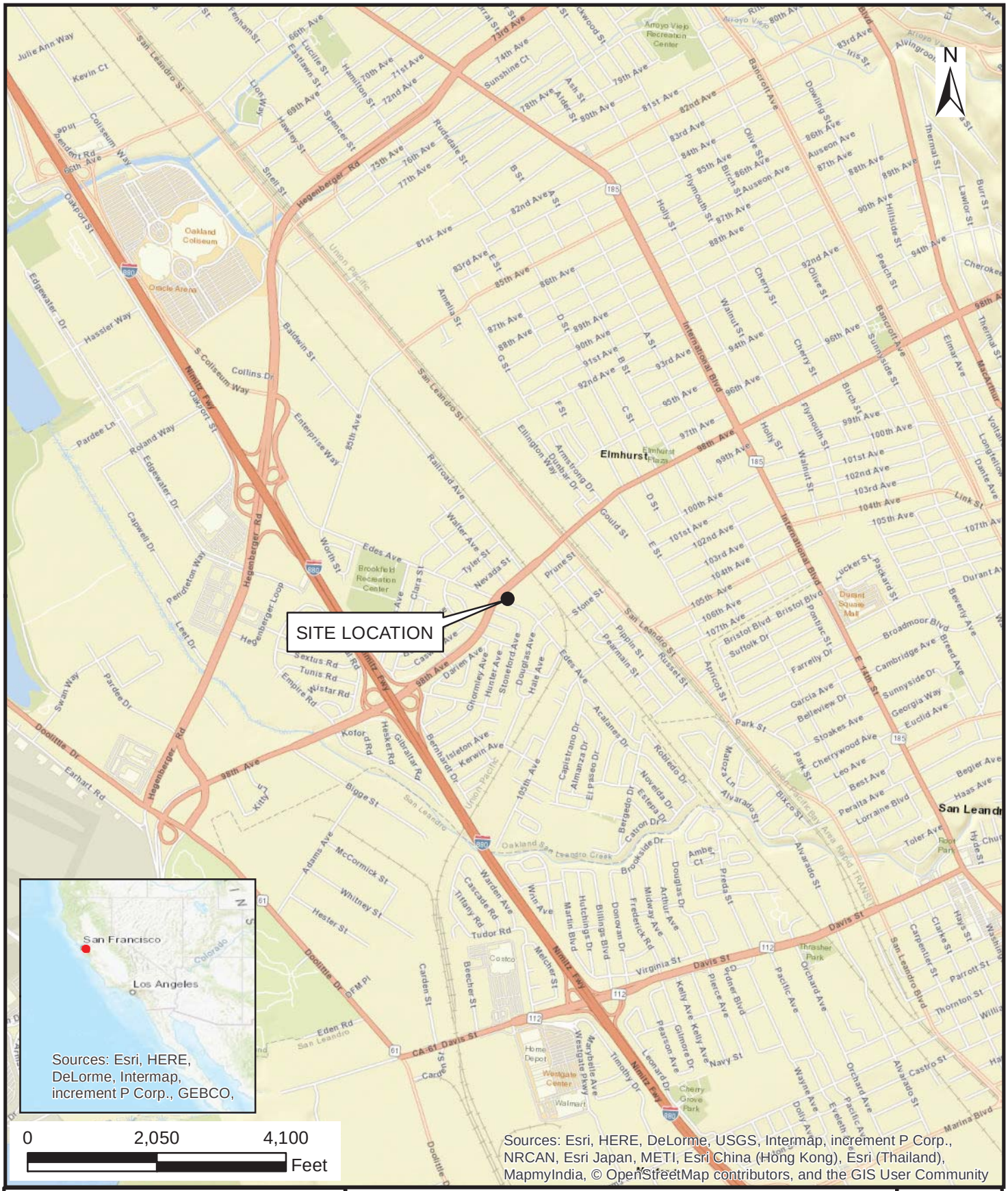
- Total petroleum hydrocarbons-diesel range organics (TPH-DRO) were detected in three of six groundwater samples collected from the wells sampled during this period. The maximum TPH-DRO concentration (210 µg/L) was in the groundwater sample collected from MW-1.

- TPH-DRO with silica gel cleanup was detected in one of six groundwater samples collected from the wells sampled during this period, 120 µg/L from MW-1.

- Benzene, toluene, ethylbenzene, total xylenes, MTBE, and naphthalene concentrations were not detected in groundwater samples collected during this period.

ATTACHMENT B

FIGURES



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WEB: HTTP://WWW.AECOM.COM

SITE LOCATION MAP

Chevron Site No. 376584
(Former Union Oil Service Station 2720)
670 98th Avenue
Oakland, California

FIGURE NUMBER:
1

DRAWN BY:	DATE:	PROJECT NUMBER:	SHEET NUMBER:
T. Quiroz	07/25/2018	60580698	1 of 1

LEGEND

—— - - —— CHEVRON SITE NO. 376584 PROPERTY BOUNDARY

—— - - —— FORMER RICHFIELD SERVICE STATION PROPERTY BOUNDARY (692 98TH AVENUE)

MONITORING WELL (2/9/1990 BY SCI)

NOTE: BASE MAP FROM GOOGLE EARTH PRO

0 60 120

APPROXIMATE SCALE IN FEET

FILENAME: J:\Client-Projects\Chevron-Retail\376584 - Oakland_670 98th Avnue\900-CAD\CADD\376584-2018.dwg

REVISIONS			
NO:	DESCRIPTION:	DATE:	BY:

DESIGNED BY:	DRAWN BY:	CHECKED BY:	APPROVED BY:
TQ	TQ	DF	BE

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SITE PLAN

CHEVRON SITE NO. 376584
(FORMER UNION OIL SERVICE STATION 2720)
670 98th AVENUE
OAKLAND, CALIFORNIA

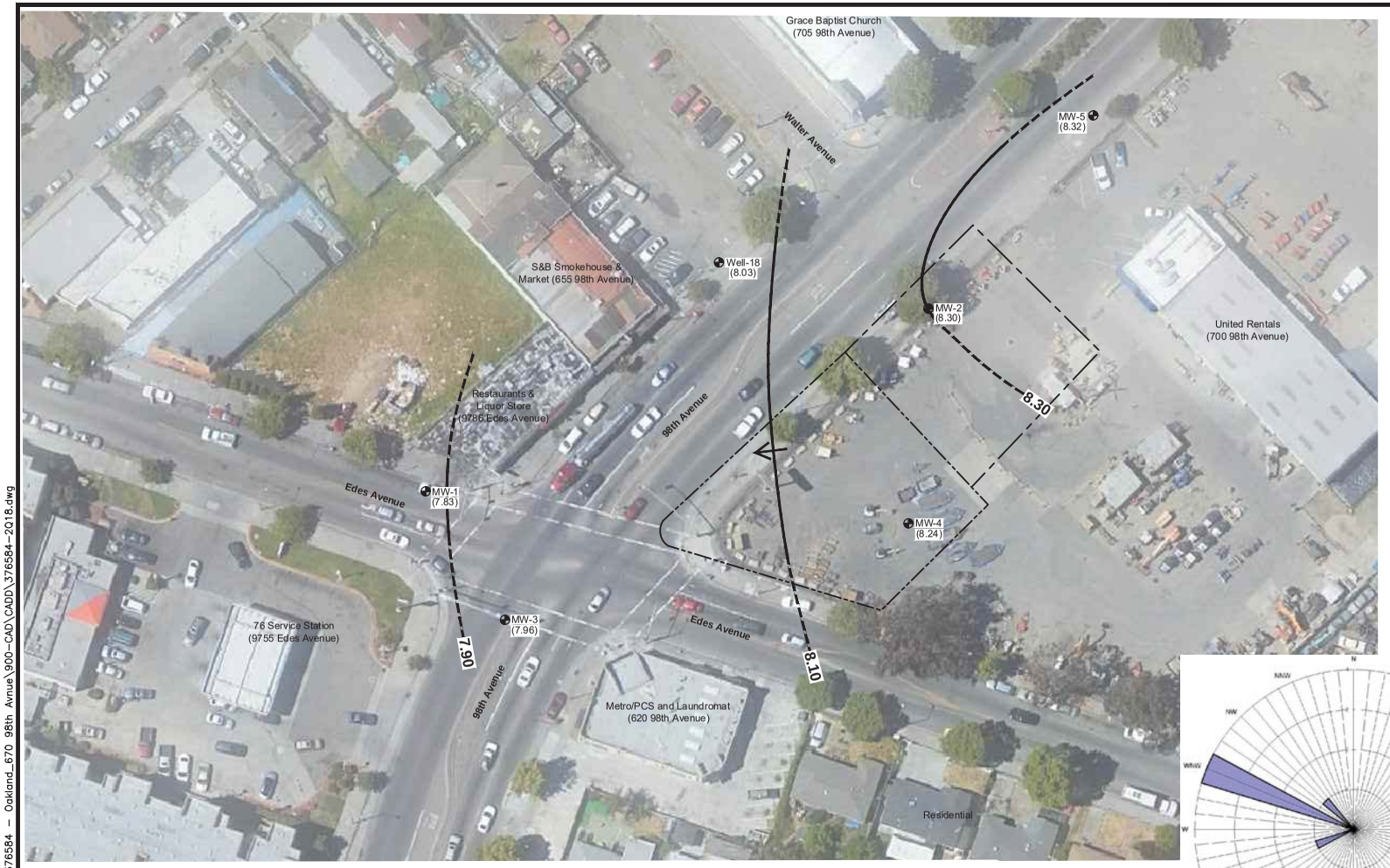
SCALE:	DATE:	PROJECT NUMBER:
1" = 60'	07/30/2018	60580698

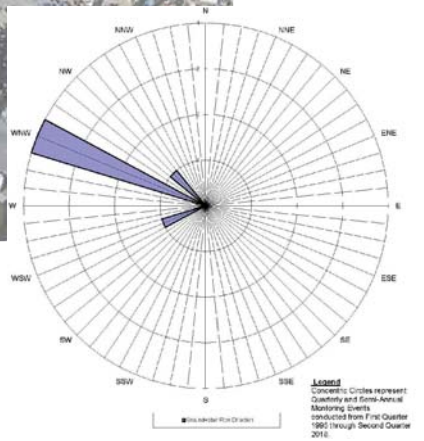
FIGURE NUMBER:

2

SHEET NUMBER:

1 of 1





LEGEND

- CHEVRON SITE NO. 376584 PROPERTY BOUNDARY
- FORMER RICHFIELD SERVICE STATION PROPERTY BOUNDARY (692 98TH AVENUE)
- MONITORING WELL (2/9/1990 BY SCI)
- (#) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- 8.10 CONTOUR OF GROUNDWATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL (DASHED WHERE INFERRED)
- GROUNDWATER FLOW DIRECTION

HYDRAULIC GRADIENT = 0.002 FEET PER FOOT

NOTE: BASE MAP FROM GOOGLE EARTH PRO

0 60 120

APPROXIMATE SCALE IN FEET

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CHECKED BY:	DF
APPROVED BY:	BE

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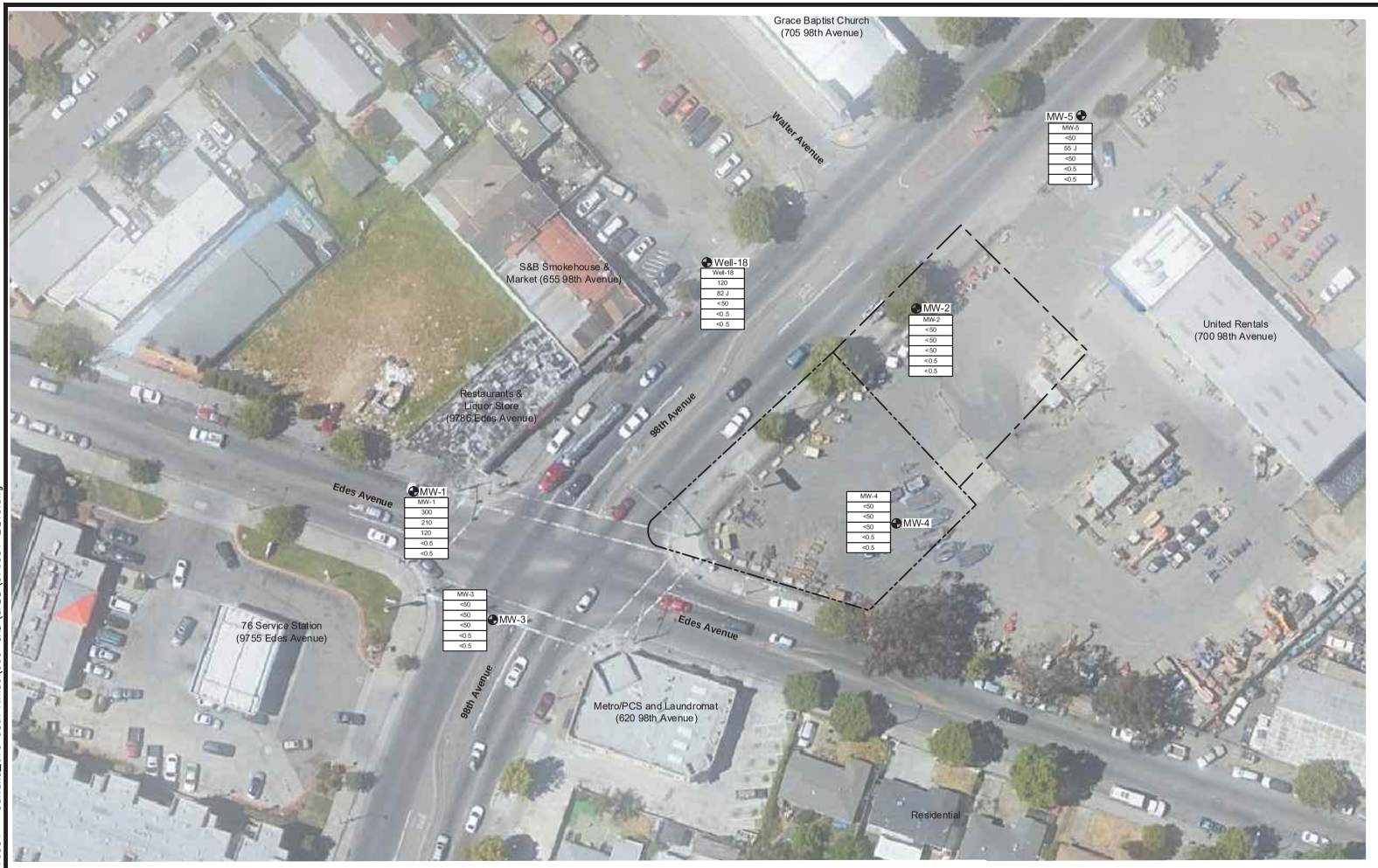
SECOND QUARTER 2018 GROUNDWATER ELEVATION MAP

CHEVRON SITE NO. 376584
(FORMER UNION OIL SERVICE STATION 2720)
670 98th AVENUE
OAKLAND, CALIFORNIA

SCALE:	DATE:	PROJECT NUMBER:
1" = 60'	07/30/2018	60580698

FIGURE NUMBER:
3

SHEET NUMBER:
1 of 1



LEGEND

—— - - —— CHEVRON SITE NO. 376584 PROPERTY BOUNDARY

—— - —— FORMER RICHFIELD SERVICE STATION PROPERTY BOUNDARY (692 98TH AVENUE)

⊕ MONITORING WELL (2/9/1990 BY SCI)

WELL ID
TPH-GRO
TPH-DRO
TPH-DRO w/SGC
BENZENE
MTBE

ID = IDENTIFICATION
TPH-GRO = TOTAL PETROLEUM HYDROCARBONS-GASOLINE RANGE ORGANICS
TPH-DRO = TOTAL PETROLEUM HYDROCARBONS-DIESEL RANGE ORGANICS

SGC = SILICA GEL CLEANUP
J = LABORATORY ESTIMATED VALUE
<# = ANALYTE NOT DETECTED AT OR ABOVE INDICATED LABORATORY DETECTION LIMIT

NOTE: BASE MAP FROM GOOGLE EARTH PRO

0 60 120
APPROXIMATE SCALE IN FEET

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REVISIONS			
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DESIGNED BY:	DRAWN BY:	CHECKED BY:	APPROVED BY:
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SECOND QUARTER 2018 GROUNDWATER ANALYTICAL DATA MAP

CHEVRON SITE NO. 376584
(FORMER UNION OIL SERVICE STATION 2720)
670 98th AVENUE
OAKLAND, CALIFORNIA

SCALE:	DATE:	PROJECT NUMBER:
1" = 60'	07/30/2018	60580698

FIGURE NUMBER:
4

SHEET NUMBER:
1 of 1

LEGEND

- CHEVRON SITE NO. 376584 PROPERTY BOUNDARY
- FORMER RICHFIELD SERVICE STATION PROPERTY BOUNDARY (692 98TH AVENUE)
- MONITORING WELL (2/9/1990 BY SCI)
- TPH-GRO TOTAL PETROLEUM HYDROCARBONS-GASOLINE RANGE ORGANICS
- (#) TPH-GRO CONCENTRATION IN MICROGRAMS PER LITER
- 100 CONTOUR OF TPH-GRO CONCENTRATIONS IN MICROGRAMS PER LITER (DASHED WHERE INFERRED)
- ANALYTE NOT DETECTED AT OR ABOVE INDICATED LABORATORY DETECTION LIMIT

NOTE: BASE MAP FROM GOOGLE EARTH PRO

0 60 120

APPROXIMATE SCALE IN FEET

REVISIONS			
NO:	DESCRIPTION:	DATE:	BY:

DESIGNED BY:	TQ
DRAWN BY:	TQ
CHECKED BY:	DF
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SECOND QUARTER 2018 TPH-GRO CONCENTRATION MAP

CHEVRON SITE NO. 376584
(FORMER UNION OIL SERVICE STATION 2720)
670 98th AVENUE
OAKLAND, CALIFORNIA

SCALE:	DATE:	PROJECT NUMBER:
1" = 60'	07/30/2018	60580698

FIGURE NUMBER:
5

SHEET NUMBER:
1 of 1

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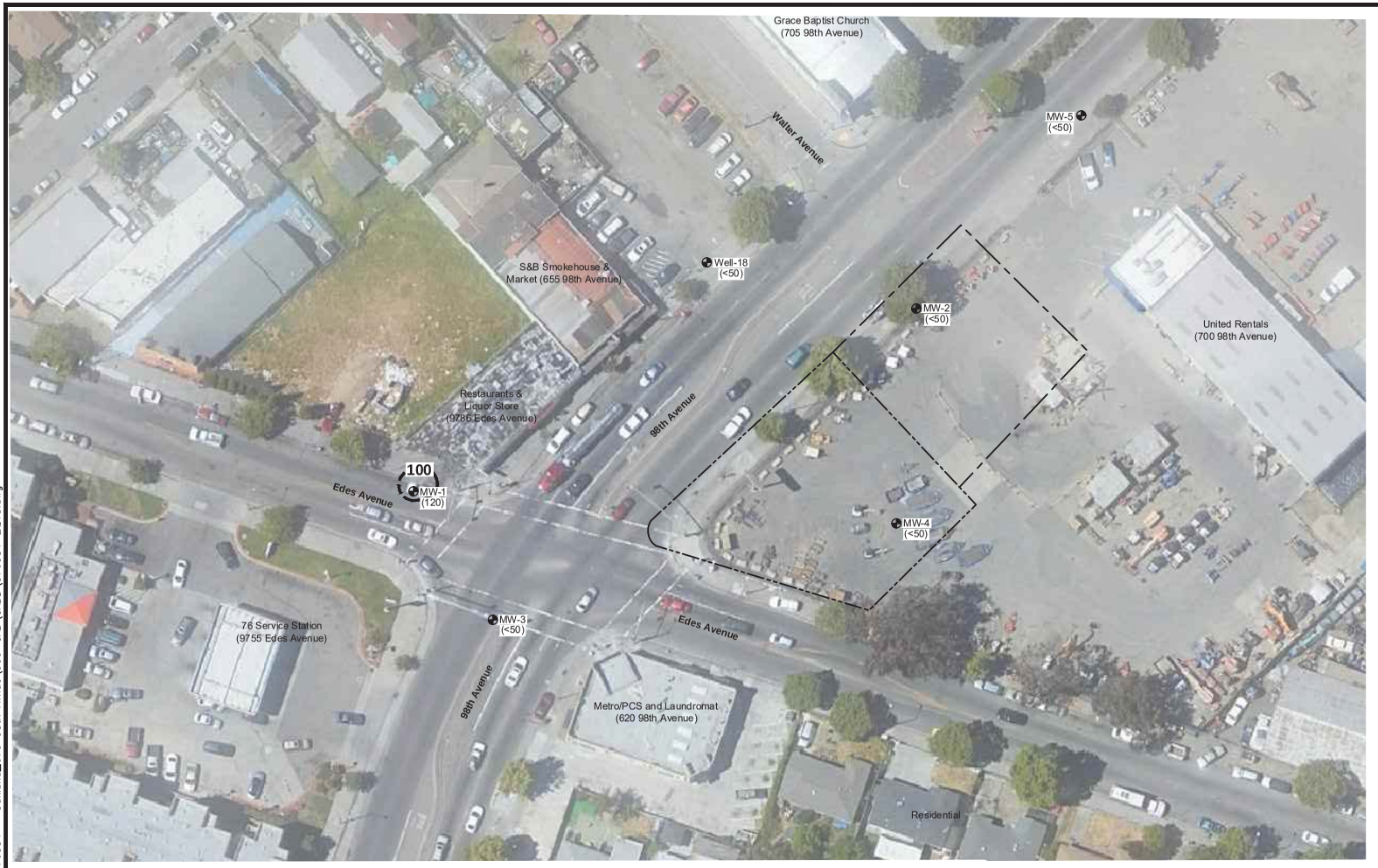

LEGEND

—— - - —— CHEVRON SITE NO. 376584 PROPERTY BOUNDARY

—— - —— FORMER RICHFIELD SERVICE STATION PROPERTY BOUNDARY (692 98TH AVENUE)

◕ MONITORING WELL (2/9/1990 BY SCI)

TPH-DRO W/SGC TOTAL PETROLEUM HYDROCARBONS-DIESEL RANGE ORGANICS WITH SILICA GEL CLEANUP

(#) TPH-DRO W/SGC CONCENTRATION IN MICROGRAMS PER LITER

100 - - - CONTOUR OF TPH-DRO W/SGC CONCENTRATIONS IN MICROGRAMS PER LITER (DASHED WHERE INFERRED)

(<#) ANALYTE NOT DETECTED AT OR ABOVE INDICATED LABORATORY DETECTION LIMIT

NOTE: BASE MAP FROM GOOGLE EARTH PRO

0 60 120

APPROXIMATE SCALE IN FEET

REVISIONS			
NO.	DESCRIPTION	DATE	BY

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
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SECOND QUARTER 2018 TPH-DRO W/SGC CONCENTRATION MAP

CHEVRON SITE NO. 376584
(FORMER UNION OIL SERVICE STATION 2720)
670 98th AVENUE
OAKLAND, CALIFORNIA

SCALE	DATE	PROJECT NUMBER
1" = 60'	07/30/2018	60580698

FIGURE NUMBER: 6

SHEET NUMBER: 1 of 1

FILENAME: J:\Client-Projects\Chevron-Retail\376584 - Oakland_670 98th Avnue\900-CAD\CADD\376584-2018.dwg

ATTACHMENT C

TABLES

Table 1
Summary of Well Construction Details
Chevron Site No. 376584 (Former Union Oil Service Station 2720)
670 98th Avenue
Oakland, California

WELL ID	DATE INSTALLED	TOTAL DEPTH *(ft bgs)*	BOREHOLE DIAMETER *(inches)*	WELL CASING DIAMETER *(inches)*	SCREENED INTERVAL *(ft bgs)*	SLOT SIZE *(inches)*	TOP OF CASING ELEVATION *(ft amsl)*	COMMENTS
MW-1	2/7/1990	19.30	8	2	6-21	0.020	16.18	
MW-2	2/7/1990	27.50	8	2	9-27.5	0.020	16.50	
MW-3	2/8/1990	22.30	8	2	7-22	0.020	16.54	
MW-4	2/8/1990	21.10	8	2	7.5-22.5	0.020	18.40	
MW-5	2/9/1990	22.00	8	2	7.5-22.5	0.020	17.35	
Well-18	2/9/1990	16.55	8	2	6-16	0.020	15.97	

Notes:

Well data were obtained from Subsurface Consultants' borelogs and State Water Resources Control Board's GeoTracker database.

ft bgs = feet below ground surface

ft amsl = feet above mean sea level

ID = Identification

Table 2
Current Groundwater Monitoring Data and Analytical Results
Chevron Site No. 376584 (Former Union Oil Service Station 2720)
670 98th Avenue
Oakland, California

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (µg/L)	TPH-DRO (µg/L)	TPH-DRO w/SGC (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
MW-1	16.18	6/29/2018	8.35	7.83	0	300	210	120	<0.5	<0.5	<0.5	<0.5	
MW-2	16.50	6/29/2018	8.20	8.30	0	<50	<50	<50	<0.5	<0.5	<0.5	<0.5	
MW-3	16.54	6/29/2018	8.58	7.96	0	<50	<50	<50	<0.5	<0.5	<0.5	<0.5	
MW-4	18.40	6/29/2018	10.16	8.24	0	<50	<50	<50	<0.5	<0.5	<0.5	<0.5	
MW-5	17.35	6/29/2018	9.03	8.32	0	<50	55 J	<50	<0.5	<0.5	<0.5	<0.5	
Well-18	15.97	6/29/2018	7.94	8.03	0	120	82 J	<50	<0.5	<0.5	<0.5	<0.5	
QA	--	6/29/2018	--	--	--	<50	--	--	<0.5	<0.5	<0.5	<0.5	

NOTES:

* TOC and GWE are in feet above mean sea level.
BTEX analyzed by Environmental Protection Agency (EPA) Method 8260B
TPH-GRO and TPH-DRO analyzed by EPA Method 8015B
<# = Analyte not detected at or above indicated laboratory detection limit
µg/L = Micrograms per liter
-- = Not available/not sampled
B = Benzene
DTW = Depth to water below TOC
E = Ethylbenzene
ft = Feet
GWE = Groundwater elevation
ID = Identification
J = Laboratory estimated value
LNAPL = Light non-aqueous phase liquid
QA = Quality assurance/trip blank
SGC = Silica gel cleanup
T = Toluene
TOC = Top of casing
TPH-DRO = Total petroleum hydrocarbons-diesel range organics
TPH-GRO = Total petroleum hydrocarbons-gasoline range organics
X = Total xylenes

Table 3
Current Groundwater Analytical Results - Oxygenate Compounds
Chevron Site No. 376584 (Former Union Oil Service Station 2720)
670 98th Avenue
Oakland, California

WELL ID	DATE	MTBE (µg/L)	NAPTHALENE (µg/L)
MW-1	6/29/2018	<0.5	<1
MW-2	6/29/2018	<0.5	<1
MW-3	6/29/2018	<0.5	<1
MW-4	6/29/2018	<0.5	<1
MW-5	6/29/2018	<0.5	<1
Well-18	6/29/2018	<0.5	<1
QA	6/29/2018	<0.5	--

NOTES:

Oxygenate compounds analyzed by Environmental Protection Agency Method 8260B

µg/L = Micrograms per liter

-- = Not available/not sampled

ID = Identification

MTBE = Methyl tertiary butyl ether

<# = Analyte not detected at or above indicated laboratory detection limit

QA = Quality assurance/trip blank

Table 4
Historical Groundwater Monitoring Data and Analytical Results
Chevron Site No. 376584 (Former Union Oil Service Station 2720)
670 98th Avenue
Oakland, California

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (µg/L)	TPH-DRO (µg/L)	TPH-DRO w/SGC (µg/L)	KEROSENE (µg/L)	MOTOR OIL (µg/L)	TOTAL OIL & GREASE (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
MW-1	--	2/12/1990	--	--	--	55.1[1]	100[2]	--	--	--	ND	60.8[3]	11.9[3]	ND[3]	19.9[3]	
	16.19	3/1/1990	8.95	7.24	0	--	--	--	--	--	--	--	--	--	--	
	16.19	3/6/1990	8.55	7.64	0	--	--	--	--	--	--	--	--	--	--	
	16.19	3/23/1990	9.17	7.02	0	--	--	--	--	--	--	--	--	--	--	
	16.19	6/30/1990	9.56	6.63	0	950	<500	--	--	--	--	<0.5	<0.5	<0.5	<0.5	
	16.19	10/4/1990	10.23	5.96	0	2,940,000	<200	--	--	--	--	7,780	26,700	20,000	20,300	
	16.19	4/15/1993	8.47	7.73	0.01	--	--	--	--	--	--	--	--	--	--	
	16.19	5/24/1993	8.93	7.28	0.02	--	--	--	--	--	--	--	--	--	--	
	16.19	6/24/1993	8.85	7.34	0.005	--	--	--	--	--	--	--	--	--	--	
	16.19	3/31/1995	7.47	8.72	0	5,900	--[4]	--	2,300[5]	--	--	67	12	92	500	
	16.19	12/31/1996	6.41	9.78	0	14,000	10,000[6,7]	--	--	--	--	130	<25	470	2,000	
	16.19	9/22/1997	8.86	7.33	0	2,000	<51	--	<51	<51	--	350	<2.5	140	560	
	16.18	6/17/2016	8.43	7.75	0	--	--	--	--	--	--	--	--	--	--	Well re-developed
	16.18	6/24/2016	8.48	7.70	0	3,400	480	920	--	--	--	<0.5	<0.5	0.8	<0.5	Well surveyed
	16.18	12/21/2016**	7.32	8.86	0	2,100	1,100	770	--	--	--	<0.5	<0.5	<0.5	<0.5	
	16.18	**6/29/2018**	**8.35**	**7.83**	**0**	**300**	**210**	**120**	**--**	**--**	**--**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	
MW-2	--	2/13/1990	--	--	--	35.1[1]	100[2]	--	--	--	ND	ND[3]	ND[3]	1.3[3]	4.0[3]	
	16.52	3/1/1990	8.85	7.67	0	--	--	--	--	--	--	--	--	--	--	
	16.52	3/6/1990	8.46	8.06	0	--	--	--	--	--	--	--	--	--	--	
	16.52	3/23/1990	9.02	7.50	0	--	--	--	--	--	--	--	--	--	--	
	16.52	6/30/1990	9.40	7.12	0	<500	<500	--	--	--	--	<0.5	<0.5	<0.5	<0.5	
	16.52	10/4/1990	9.80	6.72	0	52.8	<200	--	--	--	--	<0.5	<0.5	<0.5	<0.5	
	16.52	4/15/1993	8.31	8.21	0	<1,000	<1,000	--	--	--	--	<1	<1	<1	<1	
	16.52	5/24/1993	8.73	7.79	0	--	--	--	--	--	--	--	--	--	--	
	16.52	6/24/1993	8.63	7.89	0	--	--	--	--	--	--	--	--	--	--	
	16.52	3/31/1995	7.35	9.17	0	<50	<50	--	<50	--	--	<0.5	<0.5	<0.5	<0.5	
	16.52	12/31/1996	6.37	10.15	0	<50	200[6,8]	--	--	--	--	<0.5	<0.5	<0.5	<0.5	
	16.52	9/22/1997	8.69	7.83	0	<50	<51	--	<51	<510	--	<0.5	<0.5	<0.5	<0.5	
	16.50	6/17/2016	8.28	8.22	0	--	--	--	--	--	--	--	--	--	--	Well re-developed
	16.50	6/24/2016	8.32	8.18	0	<50	<50	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	Well surveyed
	16.50	12/21/2016**	7.25	9.25	0	<50	<50	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	
	16.50	**6/29/2018**	**8.20**	**8.30**	**0**	**<50**	**<50**	**<50**	**--**	**--**	**--**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	
MW-3	--	2/13/1990	--	--	--	ND[1]	100[2]	--	--	--	ND	ND[3]	ND[3]	ND[3]	2.9[3]	
	16.56	3/1/1990	9.17	7.39	0	--	--	--	--	--	--	--	--	--	--	
	16.56	3/6/1990	8.78	7.78	0	--	--	--	--	--	--	--	--	--	--	
	16.56	3/23/1990	9.35	7.21	0	--	--	--	--	--	--	--	--	--	--	
	16.56	6/30/1990	9.74	6.82	0	2,600	<500	--	--	--	--	<0.5	<0.5	<0.5	44	
	16.56	10/4/1990	10.17	6.39	0	42.9	<200	--	--	--	--	<0.5	<0.5	<0.5	8.5	
	16.56	4/15/1993	8.65	7.91	0	<1,000	<1,000	--	--	--	--	<1	<1	<1	<1	
	16.56	5/24/1993	9.10	7.46	0	--	--	--	--	--	--	--	--	--	--	
	16.56	6/24/1993	9.02	7.54	0	--	--	--	--	--	--	--	--	--	--	
	16.56	3/31/1995	7.67	8.89	0	1,600	--[4]	--	500[5]	--	--	<0.5	<0.5	<0.5	4.1	
	16.56	12/31/1996	6.62	9.94	0	380	620[6,7,9]	--	--	--	--	<0.5	<0.5	<0.5	0.65	
	16.56	9/22/1997	9.08	7.48	0	61	<51	--	<51	<510	--	<0.5	<0.5	<0.5	<0.5	
	16.54	6/17/2016	8.62	7.92	0	--	--	--	--	--	--	--	--	--	--	Well re-developed

Table 4
Historical Groundwater Monitoring Data and Analytical Results
Chevron Site No. 376584 (Former Union Oil Service Station 2720)
670 98th Avenue
Oakland, California

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (µg/L)	TPH-DRO (µg/L)	TPH-DRO w/SGC (µg/L)	KEROSENE (µg/L)	MOTOR OIL (µg/L)	TOTAL OIL & GREASE (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	16.54	6/24/2016	8.68	7.86	0	<50	<50	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	Well surveyed
	16.54	12/21/2016**	7.60	8.94	0	<50	<50	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	
	16.54	**6/29/2018**	**8.58**	**7.96**	**0**	**<50**	**<50**	**<50**	**--**	**--**	**--**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	
MW-4	--	2/13/1990	--	--	--	ND[1]	ND[2]	--	--	--	ND	ND[3]	ND[3]	ND[3]	ND[3]	
	17.71	3/1/1990	9.98	7.73	0	--	--	--	--	--	--	--	--	--	--	
	17.71	3/6/1990	9.60	8.11	0	--	--	--	--	--	--	--	--	--	--	
	17.71	3/23/1990	10.20	7.51	0	--	--	--	--	--	--	--	--	--	--	
	17.71	6/30/1990	10.57	7.14	0	<500	<500	--	--	--	--	<0.5	<0.5	<0.5	<0.5	
	17.71	10/4/1990	10.98	6.73	0	<20	<200	--	--	--	--	<0.5	<0.5	<0.5	<0.5	
	17.71	4/15/1993	--	--	--	--	--	--	--	--	--	--	--	--	--	
	17.71	5/24/1993	9.88	7.83	0	<1,000	<1,000	--	--	--	--	<1	<1	<1	<1	
	17.71	6/24/1993	9.78	7.93	0	--	--	--	--	--	--	--	--	--	--	
	17.71	3/31/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	Well inaccessible
	17.71	12/31/1996	8.15	9.56	0	790	<50	--	--	--	--	<0.5	<0.5	<0.5	<0.5	
	17.71	9/22/1997	10.59	7.12	0	<50	<50	--	<50	<500	--	<0.5	<0.5	<0.5	<0.5	
	18.40	6/17/2016	10.18	8.22	0	--	--	--	--	--	--	--	--	--	--	Well re-developed
	18.40	6/24/2016	10.25	8.15	0	<50	<50	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	Well surveyed
	18.40	12/21/2016**	9.20	9.20	0	51	<50	180	--	--	--	<0.5	<0.5	<0.5	<0.5	
	18.40	**6/29/2018**	**10.16**	**8.24**	**0**	**<50**	**<50**	**<50**	--	--	--	**<0.5**	**<0.5**	**<0.5**	**<0.5**	
	--	2/13/1990	--	--	--	ND[1]	ND[2]	--	--	--	ND	ND[3]	ND[3]	ND[3]	ND[3]	
MW-5	--	3/1/1990	9.61	--	0	--	--	--	--	--	--	--	--	--	--	
	--	3/6/1990	9.23	--	0	--	--	--	--	--	--	--	--	--	--	
	--	3/23/1990	9.80	--	0	--	--	--	--	--	--	--	--	--	--	
	--	6/30/1990	10.17	--	0	<500	<500	--	--	--	--	<0.5	<0.5	<0.5	<0.5	
	--	10/4/1990	10.59	--	0	<20	<200	--	--	--	--	<0.5	<0.5	<0.5	<0.5	
	--	3/31/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	Well inaccessible
	--	12/31/1996	7.18	--	0	<50	<50	--	--	--	--	<0.5	<0.5	<0.5	<0.5	
	--	9/22/1997	9.48	--	0	<50	<51	--	<51	<510	--	<0.5	<0.5	<0.5	<0.5	
	17.35	6/17/2016	9.08	8.27	0	--	--	--	--	--	--	--	--	--	--	Well re-developed
	17.35	6/24/2016	9.12	8.23	0	<50	<50	95	--	--	--	<0.5	<0.5	<0.5	<0.5	Well surveyed
	17.35	12/21/2016**	8.05	9.30	0	<50	<50	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	
	17.35	**6/29/2018**	**9.03**	**8.32**	**0**	**<50**	**55 J**	**<50**	**--**	**--**	**--**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	
	--	2/13/1990	--	--	--	134,000[1]	17,000[2]	--	--	--	120,000	3,730[3]	8,920[3]	5,430[3]	22,500[3]	
Well-18	15.97	3/1/1990	8.53	7.44	0	--	--	--	--	--	--	--	--	--	--	
	15.97	3/6/1990	8.11	7.86	0	--	--	--	--	--	--	--	--	--	--	
	15.97	3/23/1990	8.73	7.24	0	--	--	--	--	--	--	--	--	--	--	
	15.97	6/30/1990	9.11	6.86	0	26,000	2,400	--	--	--	--	660	470	180	2,000	
	15.97	10/4/1990	9.50	6.47	0	4,900	<200	--	--	--	--	82	40	190	635	
	15.97	4/15/1993	8.06	7.91	0	7,000	10,000[5]	--	--	--	--	440	340	180	1,600	
	15.97	5/24/1993	8.49	7.48	0	--	--	--	--	--	--	--	--	--	--	
	15.97	6/24/1993	8.40	7.57	0	--	--	--	--	--	--	--	--	--	--	
	15.97	3/31/1995	7.09	8.88	0	11,000	--[4]	--	1,900	--	--	190	10	350	1,300	
	15.97	12/31/1996	6.01	9.96	0	18,000	<50	--	--	--	--	110[10]	2.3[10]	100[10]	230[10]	
	15.97	9/22/1997	8.45	7.52	0	190	<51	--	<51	<510	--	8.5	<0.5	4.8	7.4	

Table 4
Historical Groundwater Monitoring Data and Analytical Results
Chevron Site No. 376584 (Former Union Oil Service Station 2720)
670 98th Avenue
Oakland, California

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (µg/L)	TPH-DRO (µg/L)	TPH-DRO w/SGC (µg/L)	KEROSENE (µg/L)	MOTOR OIL (µg/L)	TOTAL OIL & GREASE (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	15.97	6/17/2016	8.03	7.94	0	--	--	--	--	--	--	--	--	--	--	Well re-developed
	15.97	6/24/2016	8.05	7.92	0	890	120	96	--	--	--	<0.5	<0.5	1	<0.5	Well surveyed
	15.97	12/21/2016**	6.98	8.99	0	180	66	93	--	--	--	<0.5	<0.5	<0.5	<0.5	
	15.97	**6/29/2018**	**7.94**	**8.03**	**0**	**120**	**82 J**	**<50**	**--**	**--**	**--**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	
WP1-W	--	9/23/1997	--	--	--	<50	<50	--	<50	<500	--	<0.5	<0.5	<0.5	<0.5	Grab sample
WP2-W	--	9/22/1997	--	--	--	<50	<53	--	<53	<530	--	<0.5	<0.5	<0.5	<0.5	Grab sample
WP3-W	--	9/22/1997	--	--	--	<50	<51	--	<51	<510	--	<0.5	<0.5	<0.5	<0.5	Grab sample
WP5-W	--	9/22/1997	--	--	--	76	<54	--	<54	<540	--	<0.5	<0.5	<0.5	<0.5	Grab sample
WP6-W	--	9/22/1997	--	--	--	<50	<54	--	<54	<540	--	<0.5	<0.5	<0.5	<0.5	Grab sample
WP7-W	--	9/24/1997	--	--	--	410	<51	--	<51	<510	--	13	58	13	81	Grab sample
WP8-W	--	9/24/1997	--	--	--	8,600	<51	--	<51	<510	--	3,600	1.4	16	1.8	Grab sample
WP9-W	--	9/23/1997	--	--	--	<50	140[11]	--	<50	<500	--	<0.5	<0.5	<0.5	1	Grab sample
WP10-W	--	9/23/1997	--	--	--	<50	<50	--	<50	<500	--	<0.5	<0.5	<0.5	<0.5	Grab sample
WP11-W	--	9/23/1997	--	--	--	<50	<53	--	<53	<530	--	<0.5	<0.5	<0.5	<0.5	Grab sample
WP12-W	--	9/23/1997	--	--	--	980	<51	--	<51	<510	--	97	110	110	320	Grab sample
WP13-W	--	9/24/1997	--	--	--	<50	<51	--	<51	<510	--	<0.5	<0.5	<0.5	<0.5	Grab sample
WP14-W	--	9/23/1997	--	--	--	<50	<56	--	<56	<560	--	<0.5	<0.5	<0.5	<0.5	Grab sample
QA	--	4/15/1993	--	--	--	<1,000	<1,000	--	--	--	--	<1	<1	<1	<1	
	--	3/31/1995	--	--	--	<50	--	--	--	--	--	<0.5	<0.5	<0.5	<0.5	
	--	9/22/1997	--	--	--	<50	--	--	--	--	--	<0.5	<0.5	<0.5	<0.5	
	--	6/24/2016	--	--	--	<50	--	--	--	--	--	<0.5	<0.5	<0.5	<0.5	
	--	12/21/2016	--	--	--	<50	--	--	--	--	--	<0.5	<0.5	<0.5	<0.5	
	--	**6/29/2018**	**--**	**--**	**--**	**<50**	**--**	**--**	--	--	--	**<0.5**	**<0.5**	**<0.5**	**<0.5**	

Table 4
Historical Groundwater Monitoring Data and Analytical Results
Chevron Site No. 376584 (Former Union Oil Service Station 2720)
670 98th Avenue
Oakland, California

NOTES:
* TOC and GWE are in feet above mean sea level.
** = No groundwater monitoring was conducted in 2017 due to access issues with the well owner (City of Oakland).
µg/L = Micrograms per liter
<# = Analyte not detected at or above indicated laboratory detection limit
-- = Not available/not sampled
B = Benzene
bgs = Below ground surface
DTW = Depth to water below TOC
E = Ethylbenzene
ft = Feet
GWE = Groundwater elevation
ID = Identification
J = Laboratory estimated value
LNAPL = Light non-aqueous phase liquid
ND = Not detected (reporting limit not available in source document: "Soil and groundwater contamination assessment, Phase 2," April 10, 1990, by Subsurface Consultants, Inc.)
QA = Quality assurance/trip blank
SGC = Silica gel cleanup
T = Toluene
TOC = Top of casing
TPH-DRO = Total petroleum hydrocarbons-diesel range organics
TPH-GRO = Total petroleum hydrocarbons-gasoline range organics
X = Total xylenes
[1] Total volatile hydrocarbons by EPA Methods 5030/8015M (source: "Soil and Groundwater Contamination Assessment, Phase 2," April 10, 1990, by Subsurface Consultants, Inc.)
[2] Total extractable hydrocarbons by EPA Methods 3550/8015M (source: "Soil and Groundwater Contamination Assessment, Phase 2," April 10, 1990, by Subsurface Consultants, Inc.)
[3] Purgeable aromatics by EPA Methods 5030/8020 (source: "Soil and Groundwater Contamination Assessment, Phase 2," April 10, 1990, by Subsurface Consultants, Inc.)
[4] Diesel range not reported by laboratory due to overlap of hydrocarbon ranges (source: "Report on Groundwater Monitoring," December 22, 1997, by Baseline Environmental Consulting)
[5] Laboratory reports that sample chromatogram does not resemble diesel standard (source: "Report on Groundwater Monitoring," December 22, 1997, by Baseline Environmental Consulting)
[6] Laboratory reports that hydrocarbon reported does not resemble diesel standard (source: "Report on Groundwater Monitoring," December 22, 1997, by Baseline Environmental Consulting)
[7] Laboratory estimated value due to overlapping fuel patterns (source: "Report on Groundwater Monitoring," December 22, 1997, by Baseline Environmental Consulting)
[8] Laboratory reports hydrocarbon is in late diesel range (source: "Report on Groundwater Monitoring," December 22, 1997, by Baseline Environmental Consulting)
[9] Laboratory reports hydrocarbon is in early diesel range (source: "Report on Groundwater Monitoring," December 22, 1997, by Baseline Environmental Consulting)
[10] Surrogate recovery was outside of laboratory QA/QC limits due to sample interference (source: "Report on Groundwater Monitoring," December 22, 1997, by Baseline Environmental Consulting)
[11] Laboratory reports that compound is in the diesel range but its chromatogram does not have a pattern characteristic of petroleum hydrocarbons (source: "Report on Groundwater Monitoring," December 22, 1997, by Baseline Environmental Consulting)

Table 5
Historical Groundwater Analytical Results - Oxygenate Compounds[1]
Chevron Site No. 376584 (Former Union Oil Service Station 2720)
670 98th Avenue
Oakland, California

WELL ID	DATE	MTBE (µg/L)	TBA (µg/L)	n-BUTYL-BENZENE (µg/L)	sec-BUTYL-BENZENE (µg/L)	CHLOROFORM (µg/L)	1,2-DICHLORO ETHANE (µg/L)	ISOPROPYL-BENZENE (µg/L)	NAPTHALENE (µg/L)	n-PROPYL BENZENE (µg/L)	TETRACHLORO ETHENE (µg/L)	TRICHLORO ETHENE (µg/L)
MW-1	2/12/1990	--	--	--	--	ND[2]	--	--	--	--	2.4[2]	11.8[2]
	6/30/1990	--	--	--	--	<1	--	--	--	--	2.8	13
	10/4/1990	--	--	--	--	<2,500	--	--	--	--	<2,500	<2,500
	3/31/1995	--	--	--	--	<10	--	--	--	--	<10	<10
	12/31/1996	--	--	--	--	<2	--	--	--	--	<0.5	0.9
	9/22/1997	--	--	--	--	<3	--	--	--	--	1.8	5.6
	6/24/2016	<0.5	<5	27	18	<0.5	<0.5	15	7	55	<0.5	<0.5
	12/21/2016	<0.5	<5	18	13	<0.5	<0.5	10	5	34	<0.5	<0.5
	6/29/2018	**<0.5**	**--**	**--**	**--**	**--**	**--**	**--**	**<1**	**--**	**--**	**--**
MW-2	2/13/1990	--	--	--	--	ND[2]	--	--	--	--	8.5[2]	25.1[2]
	6/30/1990	--	--	--	--	<1	--	--	--	--	16	35
	10/4/1990	--	--	--	--	<0.5	--	--	--	--	6.8	18.7
	4/15/1993	--	--	--	--	<1	--	--	--	--	<1	14
	3/31/1995	--	--	--	--	<1	--	--	--	--	22	46
	12/31/1996	--	--	--	--	<2	--	--	--	--	3.5	7.6
	9/22/1997	--	--	--	--	<3	--	--	--	--	6.3	12
	6/24/2016	<0.5	<5	<1	<1	<0.5	<0.5	<1	<1	<1	2	2
	12/21/2016	<0.5	<5	<1	<1	<0.5	0.6	<1	<1	<1	3	2
	6/29/2018	**<0.5**	**--**	**--**	**--**	**--**	**--**	**--**	**<1**	**--**	**--**	**--**
MW-3	2/13/1990	--	--	--	--	ND[2]	--	--	--	--	1.6[2]	21.7[2]
	6/30/1990	--	--	--	--	<1	--	--	--	--	6.2	26
	10/4/1990	--	--	--	--	<0.5	--	--	--	--	5.1	24.5
	4/15/1993	--	--	--	--	<1	--	--	--	--	<1	<1
	3/31/1995	--	--	--	--	<1	--	--	--	--	4.1	18
	12/31/1996	--	--	--	--	<2	--	--	--	--	1.5	8.8
	9/22/1997	--	--	--	--	<3	--	--	--	--	2.8	12
	6/24/2016	<0.5	<5	<1	<1	0.5	<0.5	<1	<1	<1	1	1
	12/21/2016	<0.5	<5	<1	<1	0.5	<0.5	<1	<1	<1	1	0.8
	6/29/2018	**<0.5**	**--**	**--**	**--**	**--**	**--**	**--**	**<1**	**--**	**--**	**--**
MW-4	2/13/1990	--	--	--	--	ND[2]	--	--	--	--	67.4[2]	2.4[2]
	6/30/1990	--	--	--	--	<1	--	--	--	--	260	3
	10/4/1990	--	--	--	--	7	--	--	--	--	95.5	2.8
	5/24/1993	--	--	--	--	<1	--	--	--	--	<1	<1
	12/31/1996	--	--	--	--	<2	--	--	--	--	310	0.7
	9/22/1997	--	--	--	--	<3	--	--	--	--	47	0.6
	6/24/2016	<0.5	<5	<1	<1	<0.5	<0.5	<1	<1	<1	140	1

Table 5
Historical Groundwater Analytical Results - Oxygenate Compounds[1]
Chevron Site No. 376584 (Former Union Oil Service Station 2720)
670 98th Avenue
Oakland, California

WELL ID	DATE	MTBE (µg/L)	TBA (µg/L)	n-BUTYL-BENZENE (µg/L)	sec-BUTYL-BENZENE (µg/L)	CHLOROFORM (µg/L)	1,2-DICHLORO ETHANE (µg/L)	ISOPROPYL-BENZENE (µg/L)	NAPTHALENE (µg/L)	n-PROPYL BENZENE (µg/L)	TETRACHLORO ETHENE (µg/L)	TRICHLORO ETHENE (µg/L)
	12/21/2016	<0.5	<5	<1	<1	<0.5	<0.5	<1	<1	<1	140	1
	6/29/2018	**<0.5**	**--**	**--**	**--**	**--**	**--**	**--**	**<1**	**--**	**--**	**--**
MW-5	2/13/1990	--	--	--	--	ND[2]	--	--	--	--	1.4[2]	1[2]
	6/30/1990	--	--	--	--	<1	--	--	--	--	2.1	<1
	10/4/1990	--	--	--	--	<0.5	--	--	--	--	0.7	<0.5
	12/31/1996	--	--	--	--	<2	--	--	--	--	3	<0.5
	9/22/1997	--	--	--	--	<3	--	--	--	--	1.9	<0.5
	6/24/2016	<0.5	<5	<1	<1	<0.5	<0.5	<1	<1	<1	<0.5	<0.5
	12/21/2016	<0.5	<5	<1	<1	<0.5	<0.5	<1	<1	<1	<0.5	<0.5
	6/29/2018	**<0.5**	**--**	**--**	**--**	**--**	**--**	**--**	**<1**	**--**	**--**	**--**
Well-18	2/14/1990	--	--	--	--	ND[2]	--	--	--	--	ND[2]	ND[2]
	6/30/1990	--	--	--	--	<10	--	--	--	--	<10	<10
	10/4/1990	--	--	--	--	<0.5	--	--	--	--	6	9
	4/15/1993	--	--	--	--	<1	--	--	--	--	<1	<1
	3/31/1995	--	--	--	--	<10	--	--	--	--	10	<10
	12/31/1996	--	--	--	--	<2	--	--	--	--	5.6	2.1
	9/22/1997	--	--	--	--	<3	--	--	--	--	11	4.8
	6/24/2016	<0.5	<5	1	<1	<0.5	0.6	4	5	5	2	2
	12/21/2016	<0.5	<5	<1	<1	<0.5	<0.5	<1	2	<1	1	1
	6/29/2018	**<0.5**	**--**	**--**	**--**	**--**	**--**	**--**	**<1**	**--**	**--**	**--**
WP1-W	9/23/1997	--	--	--	--	<3	--	--	--	--	8.1	<0.5
WP2-W	9/22/1997	--	--	--	--	<3	--	--	--	--	11	29[3]
WP3-W	9/22/1997	--	--	--	--	<3	--	--	--	--	29	6.6
WP5-W	9/22/1997	--	--	--	--	<3	--	--	--	--	15	10
WP6-W	9/22/1997	--	--	--	--	<3	--	--	--	--	12	12
WP7-W	9/24/1997	--	--	--	--	<3	--	--	--	--	3.2	3.3
WP8-W	9/24/1997	--	--	--	--	<3	--	--	--	--	<0.5	<0.5
WP9-W	9/23/1997	--	--	--	--	<3	--	--	--	--	<0.5	4

Table 5
Historical Groundwater Analytical Results - Oxygenate Compounds[1]
Chevron Site No. 376584 (Former Union Oil Service Station 2720)
670 98th Avenue
Oakland, California

WELL ID	DATE	MTBE (µg/L)	TBA (µg/L)	n-BUTYL-BENZENE (µg/L)	sec-BUTYL-BENZENE (µg/L)	CHLOROFORM (µg/L)	1,2-DICHLORO ETHANE (µg/L)	ISOPROPYL-BENZENE (µg/L)	NAPTHALENE (µg/L)	n-PROPYL BENZENE (µg/L)	TETRACHLORO ETHENE (µg/L)	TRICHLORO ETHENE (µg/L)
WP10-W	9/23/1997	--	--	--	--	<3	--	--	--	--	2.5	7.7
WP11-W	9/23/1997	--	--	--	--	<3	--	--	--	--	3.9	12
WP12-W	9/23/1997	--	--	--	--	<3	--	--	--	--	2.1	15[3]
WP13-W	9/24/1997	--	--	--	--	<3	--	--	--	--	1.7	7.1
WP14-W	9/23/1997	--	--	--	--	<3	--	--	--	--	2.6	18
QA	3/31/1995	--	--	--	--	<1	--	--	--	--	<1	<1
	9/22/1997[4]	--	--	--	--	7.9	--	--	--	--	<0.5	<0.5
	6/24/2016	<0.5	--	--	--	--	--	--	--	--	--	--
	12/21/2016	<0.5	--	--	--	--	--	--	--	--	--	--
	6/29/2018	**<0.5**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**

NOTES:

µg/L = Micrograms per liter

-- = Not available/not sampled

ID = Identification

MTBE = Methyl tertiary butyl ether

ND = Not detected, reporting limit unknown

<# = Analyte not detected at or above indicated laboratory detection limit

QA = Quality assurance/trip blank

TBA = Tertiary butyl alcohol

[1] Environmental Protection Agency (EPA) Method 8010\601, except where noted (source: "Report on Groundwater Monitoring", December 22, 1997, by Baseline Environmental Consulting)

[2] Purgeable halocarbons by EPA Methods 5030/8010 (source: "Soil and Groundwater Contamination Assessment, Phase 2", April 10, 1990, by Subsurface Consultants, Inc.)

[3] Value taken from EPA Method 8240 (source: "Report on Groundwater Monitoring", December 22, 1997, by Baseline Environmental Consulting)

[4] Laboratory report that trichlorofluormethane (0.0008 mg/L) was detected above laboratory reporting limits (source: "Report on Groundwater Monitoring", December 22, 1997, by Baseline Environmental Consulting)

Table 6
Historical Groundwater Analytical Results - Additional Oxygenate Compounds[1]
Chevron Site No. 376584 (Former Union Oil Service Station 2720)
670 98th Avenue
Oakland, California

WELL ID	DATE	1,1,-DICHLORO ETHENE (µg/L)	1,1-DICHLORO ETHANE (µg/L)	TOTAL 1,2-DICHLORO ETHENE (µg/L)	1,1,1-TRICHLORO ETHANE (µg/L)	DIBROMO CHLORO METHANE (µg/L)	TOTAL CHLORINATED HYDROCARBONS (µg/L)	TOTAL LEAD (µg/L)
MW-1	2/12/1990	ND[2]	ND[2]	ND[2]	5.1[2]	9[2]	--	--
	6/30/1990	<1	4.1	<1	8	<1	--	--
	10/4/1990	<2,500	<2,500	<2,500	<2,500	<2,500	--	--
	3/31/1995	<10	<10	<10	<10	<20	--	14
	12/31/1996	<0.5	1.5	1	<0.5	<0.5	3.4	--
	9/22/1997	<0.5	1.5	1.1	1.9	<0.5	11.9	--
MW-2	2/13/1990	7.1[2]	4.9[2]	ND[2]	11.6[2]	7.9[2]	--	--
	6/30/1990	3.1	5.1	4.8	15	<1	--	--
	10/4/1990	<0.5	2.4	<0.5	6.3	<0.5	--	--
	4/15/1993	<1	<1	<1	<1	<1	--	--
	3/31/1995	1.7	1.1	1.4	5.1	<1	--	4.2
	12/31/1996	--	--	--	--	<2	--	--
	9/22/1997	--	--	--	--	<3	--	--
MW-3	2/13/1990	5.7[2]	ND[2]	ND[2]	17.1[2]	69.2[2]	--	--
	6/30/1990	1.3	2.1	3.5	21	<1	--	--
	10/4/1990	<0.5	<0.5	<0.5	11	<0.5	--	--
	4/15/1993	<1	<1	<1	<1	<1	--	--
	3/31/1995	2.2	<1	<1	18	<2	--	<3
	12/31/1996	<0.5	<0.5	<0.5	5	<0.5	15.3	--
	9/22/1997	<0.5	<0.5	<0.5	5.5	<0.5	20.3	--
MW-4	2/13/1990	ND[2]	ND[2]	ND[2]	1.8[2]	15.3[2]	--	--
	6/30/1990	<1	<1	<1	2.7	<1	--	--
	10/4/1990	<0.5	<0.5	<0.5	1.1	<0.5	--	--
	5/24/1993[3]	<1	<1	<1	<1	<1	--	--
	12/31/1996	<0.5	<0.5	<0.5	1.7	<0.5	312.4	--
	9/22/1997	<0.5	<0.5	<0.5	2.1	<0.5	49.7	--
MW-5	2/13/1990	ND[2]	ND[2]	ND[2]	1.3[2]	ND[2]	--	--
	6/30/1990	<1	<1	<1	1.3	<1	--	--

Table 6
Historical Groundwater Analytical Results - Additional Oxygenate Compounds[1]
Chevron Site No. 376584 (Former Union Oil Service Station 2720)
670 98th Avenue
Oakland, California

WELL ID	DATE	1,1,-DICHLORO ETHENE (µg/L)	1,1-DICHLORO ETHANE (µg/L)	TOTAL 1,2-DICHLORO ETHENE (µg/L)	1,1,1-TRICHLORO ETHANE (µg/L)	DIBROMO CHLORO METHANE (µg/L)	TOTAL CHLORINATED HYDROCARBONS (µg/L)	TOTAL LEAD (µg/L)
	10/4/1990	<0.5	<0.5	<0.5	0.5	<0.5	--	--
	12/31/1996	<0.5	<0.5	<0.5	0.5	<0.5	3.5	--
	9/22/1997	<0.5	<0.5	<0.5	<0.5	<0.5	1.9	--
Well-18	2/14/1990	ND[2]	ND[2]	ND[2]	ND[2]	ND[2]	--	--
	6/30/1990	<10	<10	<10	<10	<10	--	--
	10/4/1990	<5	<5	<5	9	<5	--	--
	4/15/1993	<1	<1	<1	<1	<1	--	--
	3/31/1995	<10	<10	<10	<10	<10	--	16
	12/31/1996	<0.5	<0.5	<0.5	2.1	<0.5	18.7	--
	9/22/1997	0.7	<0.5	<0.5	4.8	<0.5	34.5	--
WP1-W	9/23/1997	<0.5	<0.5	<0.5	1	<0.5	9.1	--
WP2-W	9/22/1997	1	<0.5	<0.5	5.3	<0.5	46.3	--
WP3-W	9/22/1997	<0.5	<0.5	2.6	4.3	<0.5	42.5	--
WP5-W	9/22/1997	<0.5	<0.5	1.9	<0.5	<0.5	26.9	--
WP6-W	9/22/1997	<0.5	<0.5	3.1	0.8	<0.5	27.9	--
WP7-W	9/24/1997	<0.5	0.7	3.7	<0.5	<0.5	10.9	--
WP8-W	9/24/1997	<0.5	1.4	2.2	<0.5	<0.5	3.6	--
WP9-W	9/23/1997	<0.5	0.7	<0.5	1.2	<0.5	5.9	--
WP10-W	9/23/1997	<0.5	<0.5	<0.5	3.3	<0.5	13.5	--
WP11-W	9/23/1997	1.7	<0.5	<0.5	12	<0.5	37.6	--

Table 6
Historical Groundwater Analytical Results - Additional Oxygenate Compounds[1]
Chevron Site No. 376584 (Former Union Oil Service Station 2720)
670 98th Avenue
Oakland, California

WELL ID	DATE	1,1,-DICHLORO ETHENE (µg/L)	1,1-DICHLORO ETHANE (µg/L)	TOTAL 1,2-DICHLORO ETHENE (µg/L)	1,1,1-TRICHLORO ETHANE (µg/L)	DIBROMO CHLORO METHANE (µg/L)	TOTAL CHLORINATED HYDROCARBONS (µg/L)	TOTAL LEAD (µg/L)
WP12-W	9/23/1997	5	1	<0.5	20[4]	<0.5	43.1	--
WP13-W	9/24/1997	<0.5	<0.5	<0.5	2.6	<0.5	11.4	--
WP14-W	9/23/1997	1.2	1.3	<0.5	9.4	<0.5	32.5	--
QA	3/31/1995	<1	<1	<1	<1	<1	34.5	--
	9/22/1997[5]	<0.5	<0.5	<0.5	<0.5	<0.5	7.9	--

NOTES:

µg/L = Micrograms per liter

-- = Not available/not sampled

ID = Identification

MTBE = Methyl tertiary butyl ether

ND = Not detected, reporting limit unknown

<# = Analyte not detected at or above indicated laboratory detection limit

QA = Quality assurance/trip blank

[1] EPA Method 8010/601, except where noted (source: "Report on Groundwater Monitoring," December 22, 1997, by Baseline Environmental Consulting)

[2] Purgeable halocarbons by EPA Methods 5030/8010 (source: "Soil and Groundwater Contamination Assessment, Phase 2," April 10, 1990, by Subsurface Consultants, Inc.)

[3] Surrogate recovery was outside of QA/QC limits due to matrix interference (source: "Report on Groundwater Monitoring," December 22, 1997, by Baseline Environmental Consulting)

[4] Value taken from EPA Method 8240 (source: "Report on Groundwater Monitoring," December 22, 1997, by Baseline Environmental Consulting)

[5] Laboratory reported that trichlorofluoromethane (0.0008 mg/L) was detected above laboratory reporting limits (source: "Report on Groundwater Monitoring," December 22, 1997, by Baseline Environmental Consulting)

ATTACHMENT D

HYDROGRAPHS

Chart 1 - Hydrograph for Well MW-1

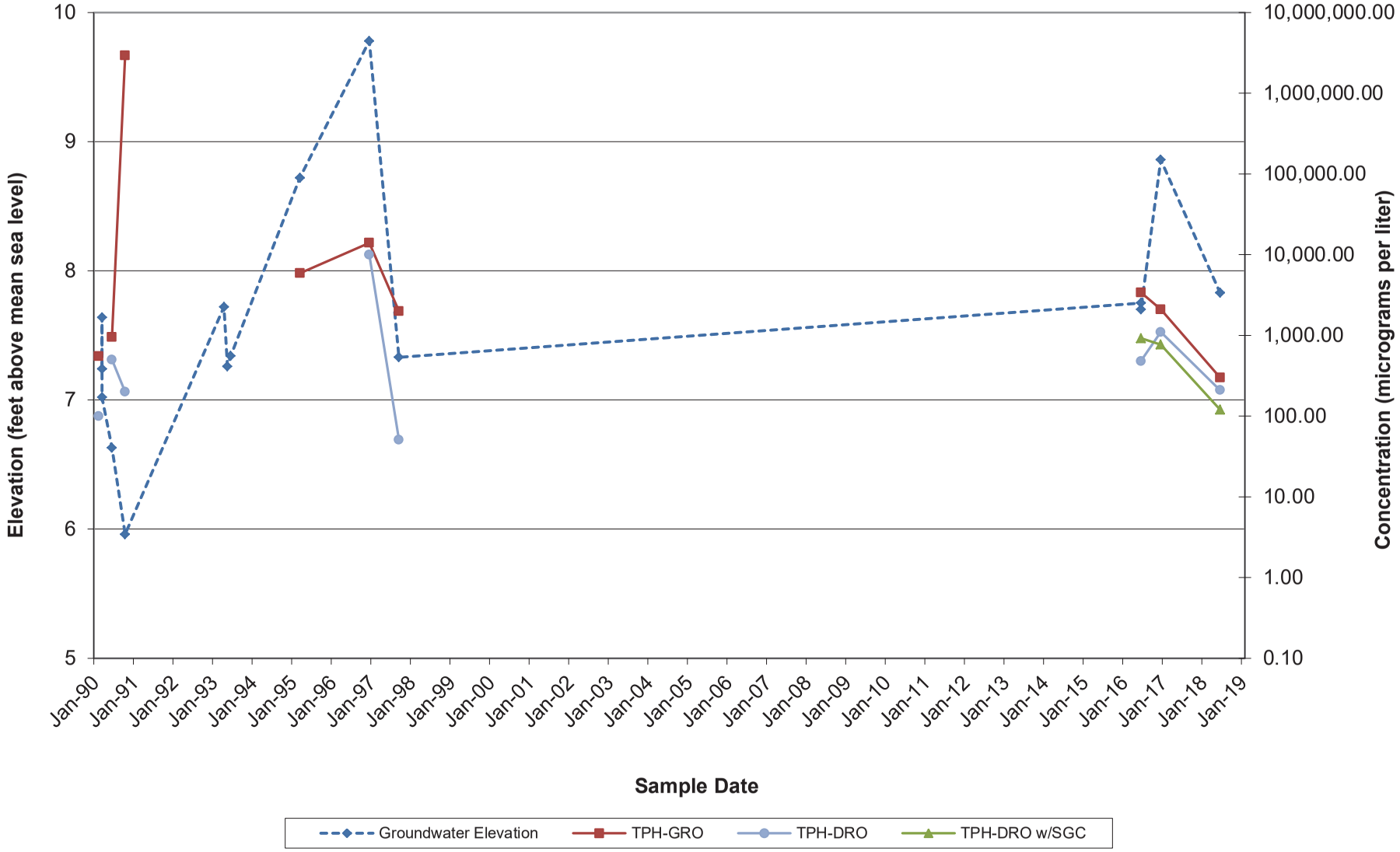


Chart 2 - Hydrograph for Well MW-2

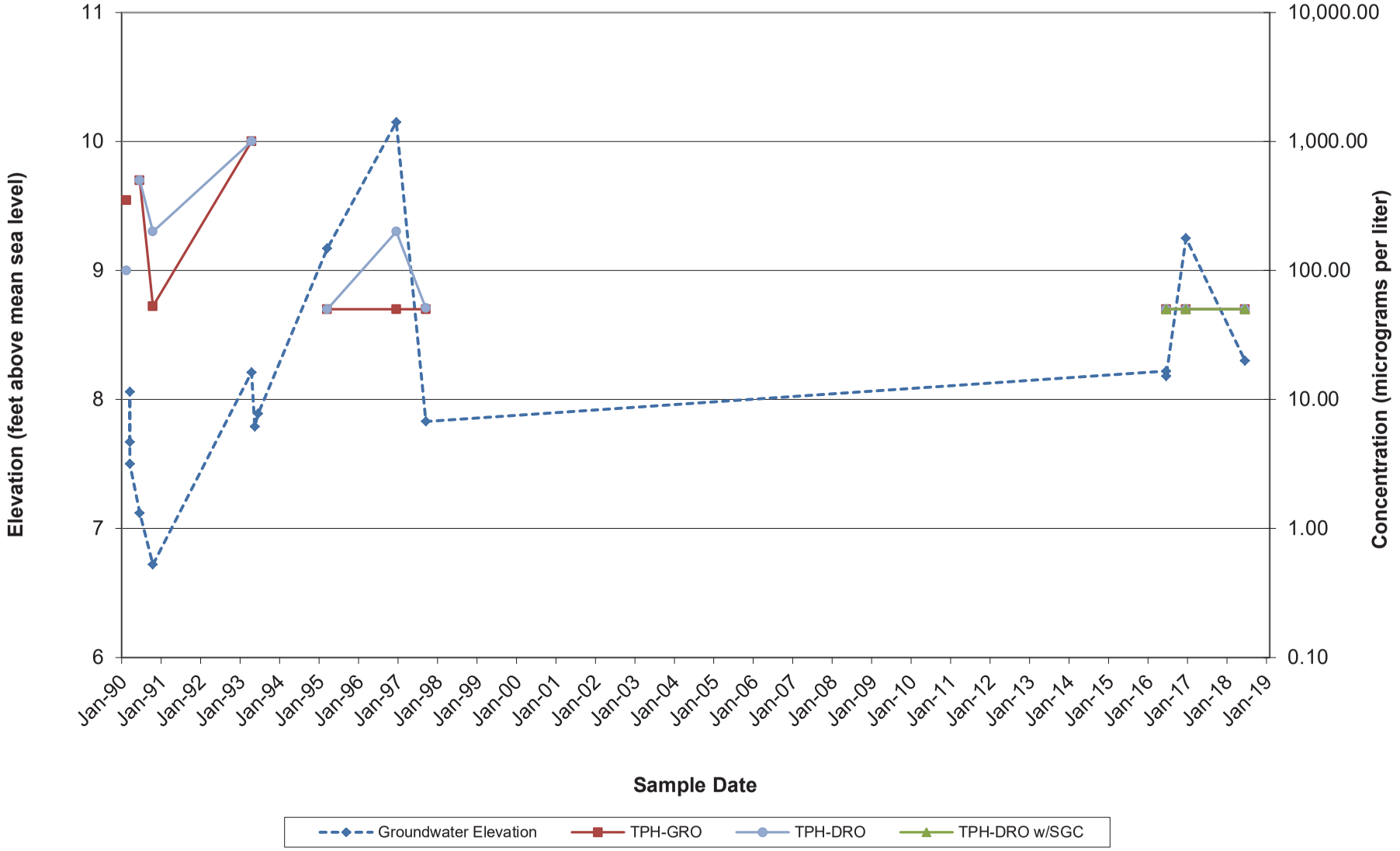


Chart 3 - Hydrograph for Well MW-3

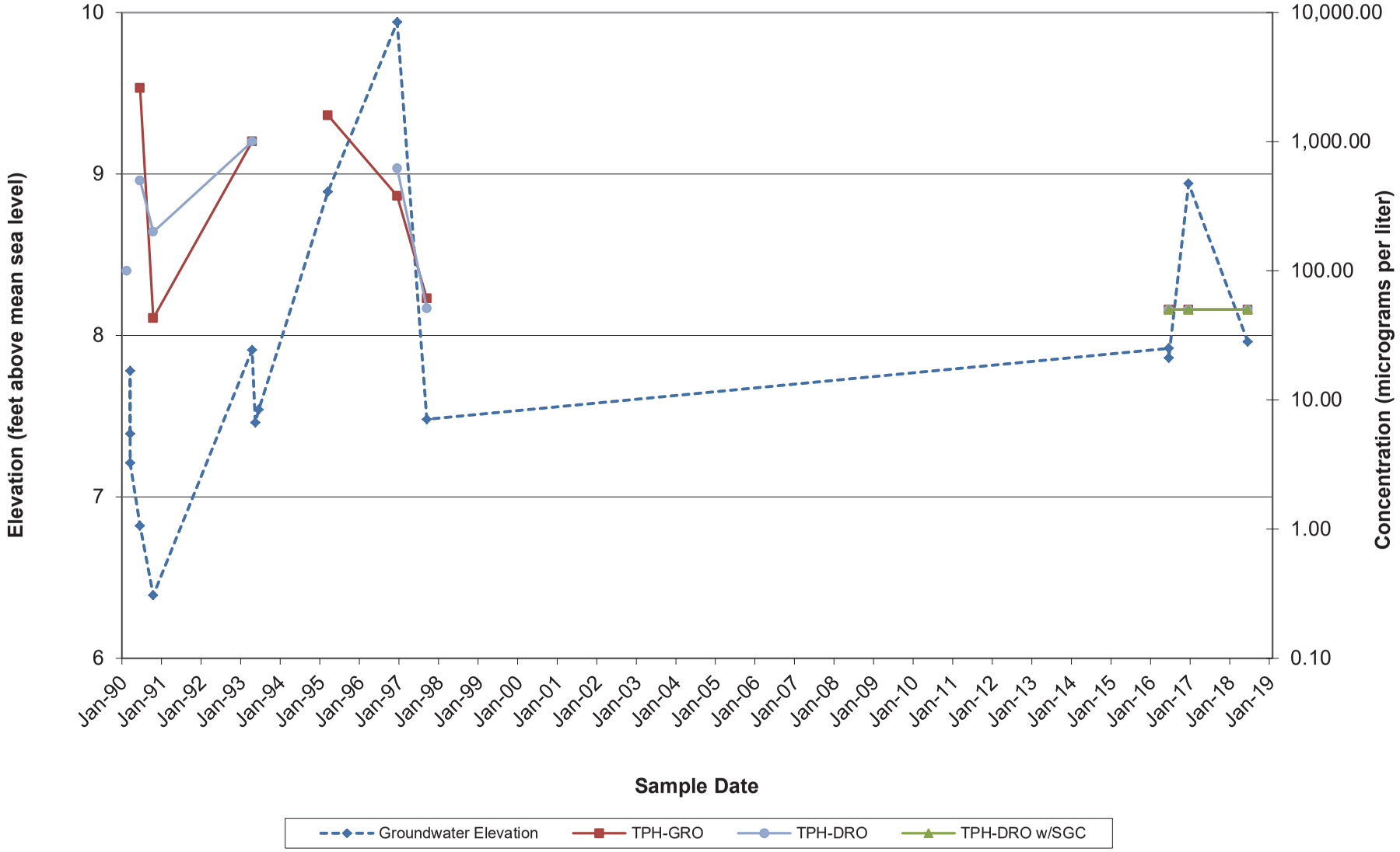


Chart 4 - Hydrograph for Well MW-4

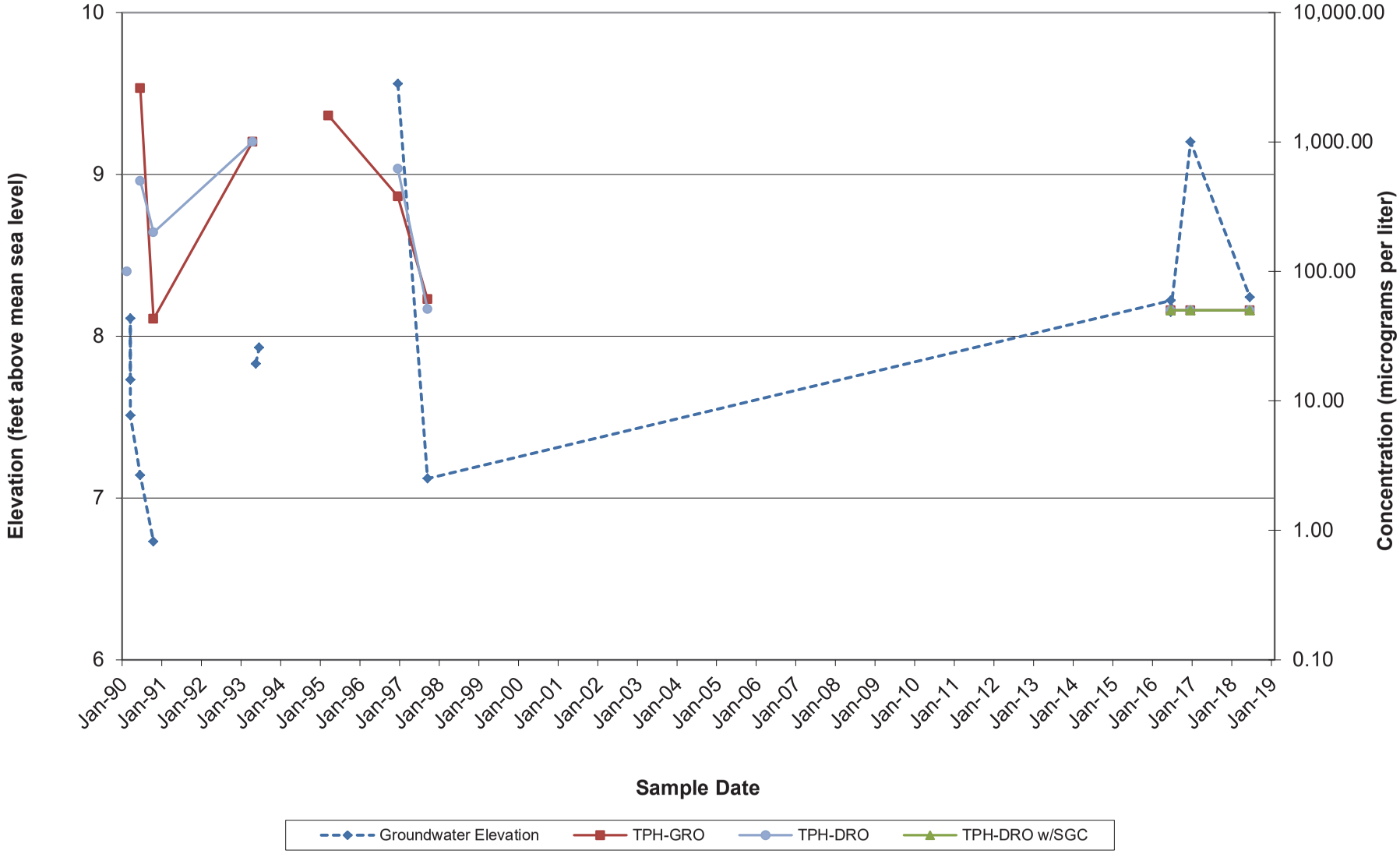


Chart 5 - Hydrograph for Well MW-5

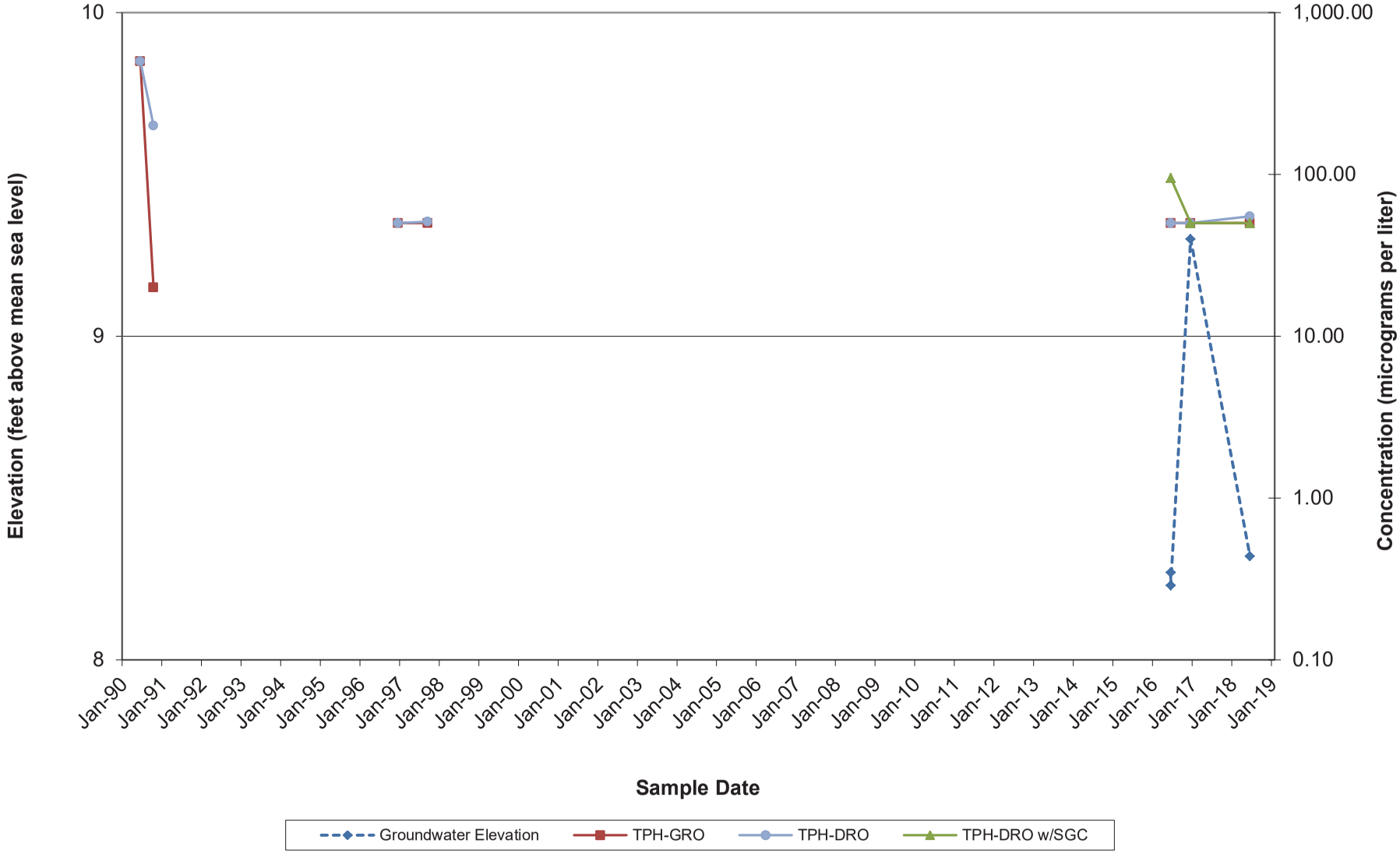
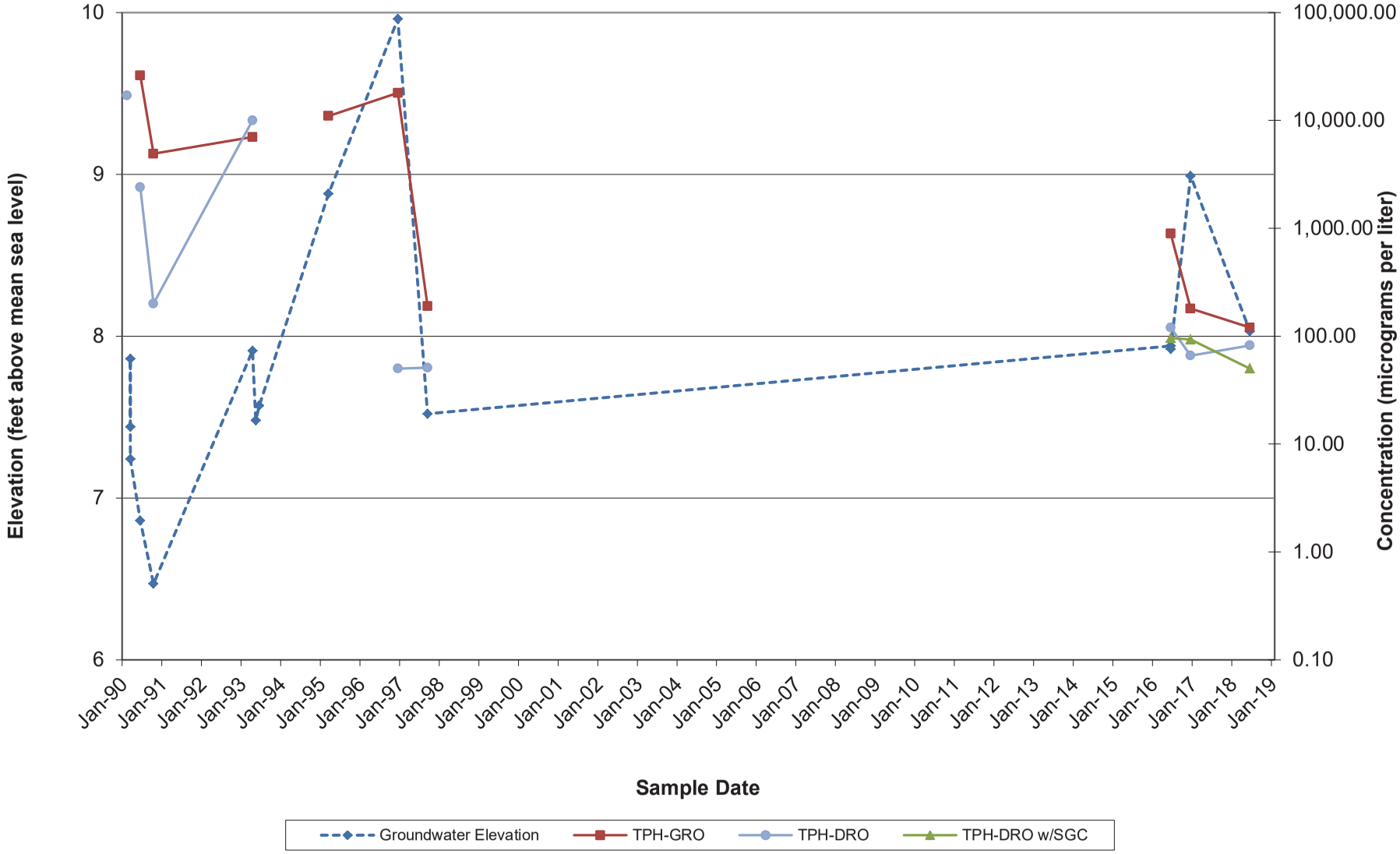


Chart 6 - Hydrograph for Well-18



ATTACHMENT E

FIELD PROCEDURES AND FIELD LOGS

GETTLER-RYAN INC.

TRANSMITTAL

July 6, 2018
G-R #17155903

TO: Ms. Brenda Evans
AECOM
1220 Avenida Acaso
Camarillo, California 93012

FROM: Deanna L. Harding
Project Manager
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 **First Semi Annual Event of June 29, 2018**

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

WELL CONDITION STATUS SHEET

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

Job #: 17155903
Event Date: 6.29.18
Sampler: FF

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 RK=Repair Kit	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-2	OK	NA	→	→	OK	→	→	↓	↓	CHRISTY BOX	
MW-4	DAMAGED *	M	M	BF=2	OK	→	→			EMCO/12"/2	Y
WELL-18	OK	NA	→	→	OK	→	→			CHRISTY BOX	

Comments: MW-4: 2 BF, DAMAGED BOX, & NEEDS NEW COVER. HAS MAKESHIFT WELL COVER. (SEE PHOTOS)

WELL CONDITION STATUS SHEET

Client/
Facility #: Chevron #376584

Site Address: 670 98Th Avenue

City: Oakland, CA

Job #: 17155903

Event Date: 6-29-18

Sampler: AW

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 RK=Repair Kit	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-5	OK	→	→	→	→	→	→	N	N	Emco/12"/2	N
MW-3	OK	→	→	→	→	→	→	↓	↓	Christy	↓
MW-1	OK	→	→	→	→	→	→	↓	↓	↓	↓

Comments

STANDARD OPERATING PROCEDURE, LOW-FLOW PURGING AND SAMPLING

Gettler-Ryan Inc. field personnel adhere to the following Standard Operating Procedure (SOP) for the collection and handling of representative groundwater samples using the Low-Flow (Minimal-Drawdown) Purging technique. This SOP incorporates purging and sampling methods discussed in U.S. EPA, Ground Water Issue, Publication Number EPA/540/S-95/504, April 1996 by Puls, R.W. and M.J. Barcelona - *"Low-Flow (Minimal-Drawdown) Ground-Water Sampling Procedures."*

A QED Well Wizard™ (or equivalent) bladder pump or Peristaltic Pump will be used to purge and sample selected wells as outlined in the scope-of-work. An in-line flow cell or other multi-parameter meter is used to collect water quality indicating parameters during purging.

Initial Pump Discharge Test Procedures

The Static Water Level (SWL) is measured in all wells at the site prior to the installation of the pump or tubing and initiation of the test procedures in any well. In addition, the presence or absence of separate-phase hydrocarbons (SPH) is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot. The SWL measurement and SPH thickness, if any, will be recorded on the field data sheet. Total well depths are measured annually.

The bladder pump or suction inlet tubing of the peristaltic pump is then positioned with its inlet located within the screened interval of the well. The in-line flow cell is then connected to the discharge tubing. After pump installation, the SWL is allowed to recover to its original level. The pump is then started at a discharge rate between 100 ml to 300 ml per minute with the in-line flow cell connected. The water level is monitored continuously for any change from the original measurement and the discharge rate is adjusted until an optimum discharge rate (ODR) is determined. The goal for the ODR is to produce a stable drawdown of less than 0.1 meter as allowed by site conditions; however the total drawdown from the initial SWL should not exceed 25% of the distance between pump inlet location and the top of the well screen. Once achieved, the ODR will be confirmed by volumetric discharge measurement and recorded on the field data sheet.

Purging and Water Quality Parameter Measurement

When the ODR has been determined and the SWL drawdown has been established within the acceptable range, and a minimum of one pump system volume (bladder volume and/or discharge tubing volume) has been purged, field measurements for temperature (T), pH, conductivity (Ec), and if required, oxygen reduction potential (ORP) and dissolved oxygen (DO) will be collected and documented on the field data sheet. Measurements should be taken every three to five minutes until parameters stabilize for three consecutive readings. The minimum parameter subset of T (± 10%), pH (± 0.1 unit), and Ec (± 10 uS) are required to stabilize. Additional parameters that may be required are DO (± 0.2 mg/l) and ORP (± 20 mV).

Sample Collection

When water quality parameters have stabilized, and the SWL drawdown remains established within the acceptable range, groundwater sample collection may begin. If used, the in-line flow cell and its tubing are disconnected from the discharge tubing prior to sample collection. Water samples are collected from the discharge tubing into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. 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. 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. 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.

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/SAMPLING
LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #376584 Job Number: 17155903
Site Address: 670 98Th Avenue Event Date: 6/29/18 (inclusive)
City: Oakland, CA Sampler: HW

Well ID MW-1 Date Monitored: 6-29-18
Well Diameter 2 in.
Total Depth 19.67 ft.
Depth to Water 8.35 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.

11.32 xVF — = — x3 case volume = Estimated Purge Volume: — 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

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): 0750 Weather Conditions: Sunny
Sample Time/Date: 0825 / 6-29-18 Water Color: Cloudy Odor: Y / (N)
Approx. Flow Rate: 200 ml lpm. Sediment Description: Cloudy
Did well de-water? _____ If yes, Time: _____ Volume: _____ ltr. DTW @ Sampling: 8.49

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS) / mS µmhos/cm)	Temperature (C) / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
0808	3.6	7.23	409	19.2			8.41
0811	4.2	7.27	400	19.2			8.44
0814	4.8	7.29	394	19.3			8.49

LABORATORY INFORMATION

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

COMMENTS: DEPTH PUMP SET AT: ~ 10.5ft.

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #376584 Job Number: 17155903
Site Address: 670 98Th Avenue Event Date: 6.29.18 (inclusive)
City: Oakland, CA Sampler: FT

Well ID MW-2 Date Monitored: 6.29.18
Well Diameter 2 in.
Total Depth 28.24 ft.
Depth to Water 8.20 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.

20.04 xVF — = — x3 case volume = Estimated Purge Volume: — 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

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): 0825 Weather Conditions: Sunny
Sample Time/Date: 0900 / 6.29.18 Water Color: Clear Odor: Y / (N)
Approx. Flow Rate: 200 ml/m lpm. Sediment Description: NONE
Did well de-water? No If yes, Time: Volume: ltr. DTW @ Sampling: 8.29

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS) mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
0843	3.6	7.04	418	19.4			8.23
0846	4.2	7.06	425	19.2			8.26
0849	4.8	7.08	432	19.1			8.29

LABORATORY INFORMATION

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

COMMENTS: DEPTH PUMP SET AT: ≈ 10.50'

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #376584 Job Number: 17155903
Site Address: 670 98Th Avenue Event Date: 6-29-18 (inclusive)
City: Oakland, CA Sampler: MW

Well ID MW-3 Date Monitored: 6-29-18
Well Diameter 2 in.
Total Depth 22.80 ft.
Depth to Water 8.58 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

14.22 xVF — = — x3 case volume = Estimated Purge Volume: — 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

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): 0610 Weather Conditions: Dawn
Sample Time/Date: 0645 / 6-29-18 Water Color: Cloudy Odor: Y / (N)
Approx. Flow Rate: 200 ml lpm. Sediment Description: Cloudy
Did well de-water? N If yes, Time: — Volume: — ltr. DTW @ Sampling: 8.71

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
0628	3.6	7.18	320	18.4			8.64
0631	4.2	7.24	324	18.5			8.67
0634	4.8	7.27	330	18.5			8.71

LABORATORY INFORMATION

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

COMMENTS: DEPTH PUMP SET AT: ~ 10.5ft.

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #376584 Job Number: 17155903
Site Address: 670 98Th Avenue Event Date: 6.29.18 (inclusive)
City: Oakland, CA Sampler: FT

Well ID MW-4 Date Monitored: 6.29.18
Well Diameter 2 in.
Total Depth 21.73 ft.
Depth to Water 10.16 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

11.57 xVF — = — x3 case volume = Estimated Purge Volume: — 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

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: SUNNY
Sample Time/Date: 0955 / 6.29.18 Water Color: CLEAR Odor: Y / (N)
Approx. Flow Rate: 200 ml pm. Sediment Description: NONE
Did well de-water? NO If yes, Time: Volume: ltr. DTW @ Sampling: 10.18

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS) / mS µmhos/cm)	Temperature (C) / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
0938	3.6	6.86	397	19.5			10.16
0941	4.2	6.88	402	19.4			10.17
0944	4.8	6.90	408	19.3			10.18

LABORATORY INFORMATION

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

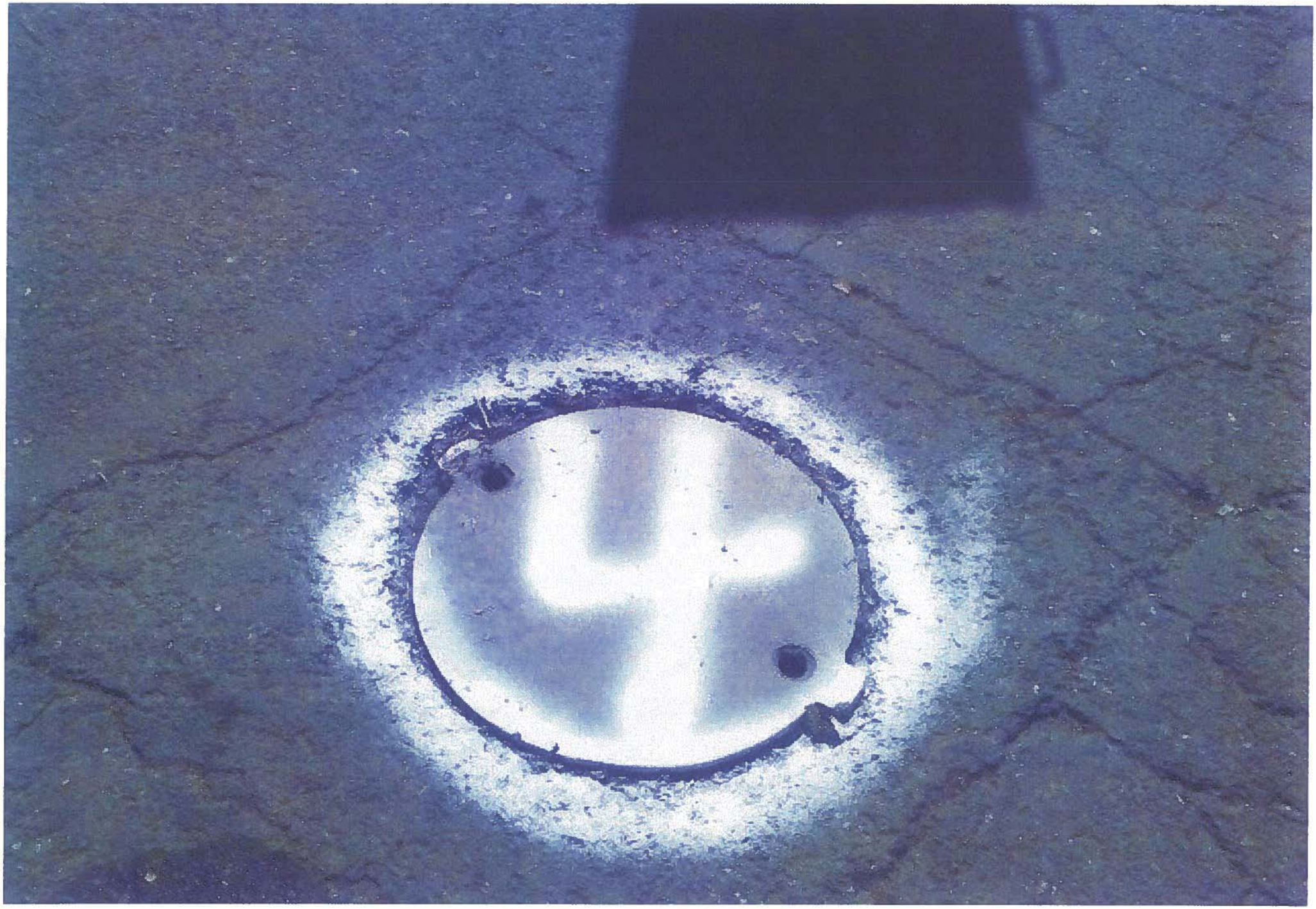
COMMENTS: DEPTH PUMP SET AT: ~ 12.00'
FMLO 12" (2 BF, NEEDS NEW CONEN & NEW BOX)
(SEE PHOTOS)

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

376584 Oakland 6-29-18, well MW-4 damaged box, pic 2

MW-4.jpg

376584 Oakland 6-29-18, well MW-4 damaged box



MW-4 #2.jpg

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #376584 Job Number: 17155903
Site Address: 670 98Th Avenue Event Date: 6/29/18 (inclusive)
City: Oakland, CA Sampler: AW

Well ID MW-5 Date Monitored: 6-29-18
Well Diameter 2 in.
Total Depth 22.56 ft.
Depth to Water 9.03 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.

13.53 xVF — = — x3 case volume = Estimated Purge Volume: — 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

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): 0700 Weather Conditions: Sunny
Sample Time/Date: 0735 / 6-29-18 Water Color: Cloudy Odor: Y / (N)
Approx. Flow Rate: 200 ml lpm. Sediment Description: Cloudy
Did well de-water? N If yes, Time: — Volume: — ltr. DTW @ Sampling: 9.15

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
0718	3.6	7.22	340	18.8			9.09
0721	4.2	7.26	344	18.9			9.10
0724	4.8	7.29	350	18.9			9.15

LABORATORY INFORMATION

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

COMMENTS: DEPTH PUMP SET AT: ~11.0 ft.

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #376584 Job Number: 17155903
Site Address: 670 98Th Avenue Event Date: 6.29.18 (inclusive)
City: Oakland, CA Sampler: FT

Well ID: WELL 18 Date Monitored: 6.29.18
Well Diameter: 2 in.
Total Depth: 16.70 ft.
Depth to Water: 7.94 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.

8.76 xVF — = — x3 case volume = Estimated Purge Volume: — 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

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): 0730 Weather Conditions: SUNNY
Sample Time/Date: 0805 16.29.18 Water Color: CLEAR Odor: Y / (N)
Approx. Flow Rate: 200 ml/min. Sediment Description: NONE
Did well de-water? NO If yes, Time: Volume: ltr. DTW @ Sampling: 8.00

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
0748	3.6	6.96	468	18.9			7.96
0751	4.2	6.99	474	19.1			7.98
0754	4.8	7.01	481	19.3			8.00

LABORATORY INFORMATION

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

COMMENTS: DEPTH PUMP SET AT: ≈10.00'

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

Chevron California Region Analysis Request/Chain of Custody

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For Eurofins Lancaster Laboratories use only
Acct. # ______ Group # ______ Sample # ______
Instructions on reverse side correspond with circled numbers.

SCR #: ______

① Client Information

Facility #: SS#376584-OML G-R#17155903 Global ID#T0600101442

Site Address: 570 98th AVENUE, OAKLAND, CA

Chevron PM: CM AECOMEBR   Lead Consultant: Evans B

Consultant/Office: Getler-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: Fuad T. & ALEX W.

④ Matrix: ☐ Sediment ☒ Ground ☐ Surface ☐ Potable ☐ NPDES ☐ Air ☐ Soil Water ☐ Oil

⑤ Analyses Requested: 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; Oxygenates; Total Lead Method ____; Dissolved Lead Method ____; NAPHTHALENE (8260)

② Sample Identification	Soil Depth	Collected Date	Collected Time	③ Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE	TPH-GRO	TPH-DRO 8015 without Silica Gel Cleanup	TPH-DRO 8015 with Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead	Dissolved Lead	NAPHTHALENE (8260)
QA		18.6.29					W		2	X	X							
MW-1		↓	0825	X			↓		8	X	X	X	X					X
MW-2		↓	0900	X			↓		8	X	X	X	X					X
MW-3		↓	0645	X			↓		8	X	X	X	X					X
MW-4		↓	0955	X			↓		8	X	X	X	X					X
MW-5		↓	0735	X			↓		8	X	X	X	X					X
WELL 18		↓	0805	X			↓		8	X	X	X	X					X

☐ 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

Requesting Chromatograms for TPH-DRO and TPH-GRO range.

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
[signature]	18.6.29		[signature]	6/29/18	2
Relinquished by			Received by		

Relinquished by Commercial Carrier: UPS ____ FedEx ____ Other ______   Received by ______ Date ____ Time ____

Temperature Upon Receipt ______ °C   Custody Seals Intact? Yes No ⑨

ATTACHMENT F

LABORATORY ANALYTICAL REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION

eurofins | Lancaster Laboratories Environmental

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

ANALYSIS REPORT

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: July 13, 2018 10:58

Project: 376584

Account #: 12181
Group Number: 1961301
SDG: CVX30
PO Number: 0015269765
Release Number: CMACLEOD
State of Sample Origin: CA

To view our laboratory's current scopes of accreditation please go to http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ . Historical copies may be requested through your project manager.

Electronic Copy To	AECOM	Attn: Brenda Evans
Electronic Copy To	AECOM	Attn: Tony Quiroz
Electronic Copy To	Gettler-Ryan Inc.	Attn: Gettler Ryan

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

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SAMPLE INFORMATION

Client Sample Description	Sample Collection Date/Time	ELLE#
QA-T-180629 NA Water	06/29/2018	9685617
MW-1-W-180629 Grab Groundwater	06/29/2018 08:25	9685618
MW-2-W-180629 Grab Groundwater	06/29/2018 09:00	9685619
MW-3-W-180629 Grab Groundwater	06/29/2018 06:45	9685620
MW-4-W-180629 Grab Groundwater	06/29/2018 09:55	9685621
MW-5-W-180629 Grab Groundwater	06/29/2018 07:35	9685622
WELL_18-W-180629 Grab Groundwater	06/29/2018 08:05	9685623

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

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Analysis Report

Sample Description: **QA-T-180629 NA Water**
Facility# 376584 Job# 17155903 GRD
670 98th Avenue-Oakland T0600101442

Chevron
ELLE Sample #: WW 9685617
ELLE Group #: 1961301
Matrix: Water

Project Name: **376584**

Submittal Date/Time: 06/30/2018 12:40
Collection Date/Time: 06/29/2018
SDG#: CVX30-01TB

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

Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/MTBE	SW-846 8260B	1	D181922AA	07/11/2018 19:31	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D181922AA	07/11/2018 19:31	Hu Yang	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	18182B20A	07/02/2018 21:12	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	18182B20A	07/02/2018 21:12	Jeremy C Giffin	1

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

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Analysis Report

Sample Description: MW-1-W-180629 Grab Groundwater
Facility# 376584 Job# 17155903 GRD
670 98th Avenue-Oakland T0600101442

Project Name: 376584

Submittal Date/Time: 06/30/2018 12:40
Collection Date/Time: 06/29/2018 08:25
SDG#: CVX30-02

Chevron
ELLE Sample #: WW 9685618
ELLE Group #: 1961301
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
10945	Naphthalene	91-20-3	N.D.	1	4	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	300	50	100	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
06609	TPH-DRO CA C10-C28	n.a.	210	50	100	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	120	50	100	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.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	UST VOCs + GRO by 8260B-Water	SW-846 8260B	1	D181922AA	07/12/2018 02:20	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D181922AA	07/12/2018 02:20	Hu Yang	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	18182B20A	07/02/2018 21:40	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	18182B20A	07/02/2018 21:40	Jeremy C Giffin	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	181830015A	07/04/2018 00:43	Thomas C Wildermuth	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	181830016A	07/11/2018 18:06	Thomas C Wildermuth	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	181830015A	07/02/2018 16:50	Christine E Gleim	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	181830016A	07/02/2018 16:50	Christine E Gleim	1

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

Sample Description: **MW-2-W-180629 Grab Groundwater**
Facility# 376584 Job# 17155903 GRD
670 98th Avenue-Oakland T0600101442

Chevron
ELLE Sample #: WW 9685619
ELLE Group #: 1961301
Matrix: Groundwater

Project Name: **376584**

Submittal Date/Time: 06/30/2018 12:40
Collection Date/Time: 06/29/2018 09:00
SDG#: CVX30-03

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
10945	Naphthalene	91-20-3	N.D.	1	4	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
	The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. Since the recovery is high and no target analytes were detected, the data is reported.					
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
06609	TPH-DRO CA C10-C28	n.a.	N.D.	50	110	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	110	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.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	UST VOCs + GRO by 8260B-Water	SW-846 8260B	1	D181922AA	07/12/2018 02:44	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D181922AA	07/12/2018 02:44	Hu Yang	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	18182B20A	07/02/2018 22:08	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	18182B20A	07/02/2018 22:08	Jeremy C Giffin	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	181830015A	07/03/2018 22:54	Thomas C Wildermuth	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	181830016A	07/11/2018 18:28	Thomas C Wildermuth	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	181830015A	07/02/2018 16:50	Christine E Gleim	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	181830016A	07/02/2018 16:50	Christine E Gleim	1

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

Sample Description: **MW-3-W-180629 Grab Groundwater**
Facility# 376584 Job# 17155903 GRD
670 98th Avenue-Oakland T0600101442

Chevron
ELLE Sample #: WW 9685620
ELLE Group #: 1961301
Matrix: Groundwater

Project Name: **376584**

Submittal Date/Time: 06/30/2018 12:40
Collection Date/Time: 06/29/2018 06:45
SDG#: CVX30-04

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
10945	Naphthalene	91-20-3	N.D.	1	4	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
06609	TPH-DRO CA C10-C28	n.a.	N.D.	50	100	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	100	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.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	UST VOCs + GRO by 8260B-Water	SW-846 8260B	1	D181922AA	07/12/2018 03:08	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D181922AA	07/12/2018 03:08	Hu Yang	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	18182B20A	07/02/2018 22:35	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	18182B20A	07/02/2018 22:35	Jeremy C Giffin	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	181830015A	07/03/2018 23:16	Thomas C Wildermuth	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	181830016A	07/11/2018 18:50	Thomas C Wildermuth	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	181830015A	07/02/2018 16:50	Christine E Gleim	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	181830016A	07/02/2018 16:50	Christine E Gleim	1

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

Sample Description: **MW-4-W-180629 Grab Groundwater**
Facility# 376584 Job# 17155903 GRD
670 98th Avenue-Oakland T0600101442

Chevron
ELLE Sample #: WW 9685621
ELLE Group #: 1961301
Matrix: Groundwater

Project Name: **376584**

Submittal Date/Time: 06/30/2018 12:40
Collection Date/Time: 06/29/2018 09:55
SDG#: CVX30-05

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
10945	Naphthalene	91-20-3	N.D.	1	4	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
06609	TPH-DRO CA C10-C28	n.a.	N.D.	50	110	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	110	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.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	UST VOCs + GRO by 8260B-Water	SW-846 8260B	1	D181922AA	07/12/2018 03:32	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D181922AA	07/12/2018 03:32	Hu Yang	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	18182B20A	07/02/2018 23:03	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	18182B20A	07/02/2018 23:03	Jeremy C Giffin	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	181830015A	07/03/2018 23:38	Thomas C Wildermuth	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	181830016A	07/11/2018 19:12	Thomas C Wildermuth	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	181830015A	07/02/2018 16:50	Christine E Gleim	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	181830016A	07/02/2018 16:50	Christine E Gleim	1

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

Sample Description: **MW-5-W-180629 Grab Groundwater**
Facility# 376584 Job# 17155903 GRD
670 98th Avenue-Oakland T0600101442

Chevron
ELLE Sample #: WW 9685622
ELLE Group #: 1961301
Matrix: Groundwater

Project Name: **376584**

Submittal Date/Time: 06/30/2018 12:40
Collection Date/Time: 06/29/2018 07:35
SDG#: CVX30-06

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
10945	Naphthalene	91-20-3	N.D.	1	4	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
06609	TPH-DRO CA C10-C28	n.a.	55 J	50	100	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	100	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.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	UST VOCs + GRO by 8260B-Water	SW-846 8260B	1	D181922AA	07/12/2018 03:56	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D181922AA	07/12/2018 03:56	Hu Yang	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	18182B20A	07/02/2018 23:31	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	18182B20A	07/02/2018 23:31	Jeremy C Giffin	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	181830015A	07/03/2018 23:59	Thomas C Wildermuth	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	181830016A	07/11/2018 19:33	Thomas C Wildermuth	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	181830015A	07/02/2018 16:50	Christine E Gleim	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	181830016A	07/02/2018 16:50	Christine E Gleim	1

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

Sample Description: **WELL_18-W-180629 Grab Groundwater**
Facility# 376584 Job# 17155903 GRD
670 98th Avenue-Oakland T0600101442

Chevron
ELLE Sample #: WW 9685623
ELLE Group #: 1961301
Matrix: Groundwater

Project Name: **376584**

Submittal Date/Time: 06/30/2018 12:40
Collection Date/Time: 06/29/2018 08:05
SDG#: CVX30-07

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.		0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.		0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1	1
10945	Naphthalene	91-20-3	N.D.		1	4	1
10945	Toluene	108-88-3	N.D.		0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.		0.5	1	1
GC Volatiles	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	120		50	100	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	
06609	TPH-DRO CA C10-C28	n.a.	82	J	50	110	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.		50	110	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.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	UST VOCs + GRO by 8260B-Water	SW-846 8260B	1	D181922AA	07/12/2018 04:20	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D181922AA	07/12/2018 04:20	Hu Yang	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	18182B20A	07/02/2018 23:58	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	18182B20A	07/02/2018 23:58	Jeremy C Giffin	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	181830015A	07/04/2018 00:21	Thomas C Wildermuth	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	181830016A	07/11/2018 19:55	Thomas C Wildermuth	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	181830015A	07/02/2018 16:50	Christine E Gleim	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	181830016A	07/02/2018 16:50	Christine E Gleim	1

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

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Quality Control Summary

Client Name: Chevron
Reported: 07/13/2018 10:58

Group Number: 1961301

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

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

Method Blank

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
Batch number: D181922AA	Sample number(s): 9685617-9685623		
Benzene	N.D.	0.5	1
Ethylbenzene	N.D.	0.5	1
Methyl Tertiary Butyl Ether	N.D.	0.5	1
Naphthalene	N.D.	1	4
Toluene	N.D.	0.5	1
Xylene (Total)	N.D.	0.5	1
Batch number: 18182B20A	Sample number(s): 9685617-9685623		
TPH-GRO N. CA water C6-C12	N.D.	50	100
Batch number: 181830015A	Sample number(s): 9685618-9685623		
TPH-DRO CA C10-C28	N.D.	50	100
Batch number: 181830016A	Sample number(s): 9685618-9685623		
TPH-DRO CA C10-C28 w/ Si Gel	N.D.	50	100

LCS/LCSD

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: D181922AA	Sample number(s): 9685617-9685623								
Benzene	20	17.25			86		80-120		
Ethylbenzene	20	18.61			93		80-120		
Methyl Tertiary Butyl Ether	20	18.17			91		75-120		
Naphthalene	20	16.75			84		59-120		
Toluene	20	20.1			101		80-120		
Xylene (Total)	60	58.04			97		80-120		
	ug/l	ug/l	ug/l	ug/l					
Batch number: 18182B20A	Sample number(s): 9685617-9685623								
TPH-GRO N. CA water C6-C12	1100	1183.81	1100	1191.97	108	108	80-120	1	30
	ug/l	ug/l	ug/l	ug/l					
Batch number: 181830015A	Sample number(s): 9685618-9685623								
TPH-DRO CA C10-C28	1600	1134.41	1600	1091.66	71	68	53-115	4	20

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

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Quality Control Summary

Client Name: Chevron
Reported: 07/13/2018 10:58

Group Number: 1961301

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 181830016A	Sample number(s): 9685618-9685623								
TPH-DRO CA C10-C28 w/ Si Gel	1600	866.26	1600	926.26	54	58	40-105	7	20

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: UST VOCs + GRO by 8260B-Water
Batch number: D181922AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9685617	103	103	100	93
9685618	102	101	101	94
9685619	124*	116	100	93
9685620	106	104	117	93
9685621	105	101	98	93
9685622	103	102	102	95
9685623	106	103	102	96
Blank	106	102	99	92
LCS	99	99	111	102
Limits:	80-120	80-120	80-120	80-120

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 18182B20A

	Trifluorotoluene-F
9685617	87
9685618	89
9685619	84
9685620	89
9685621	82
9685622	88
9685623	81
Blank	80
LCS	99
LCSD	91
Limits:	63-135

Analysis Name: TPH-DRO CA C10-C28
Batch number: 181830015A

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

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Quality Control Summary

Client Name: Chevron
Group Number: 1961301
Reported: 07/13/2018 10:58

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.

Analysis Name: TPH-DRO CA C10-C28
Batch number: 181830015A

	Orthoterphenyl
9685618	82
9685619	85
9685620	85
9685621	85
9685622	116
9685623	85
Blank	79
LCS	89
LCSD	87
Limits:	50-124

Analysis Name: TPH-DRO CA C10-C28 w/ Si Gel
Batch number: 181830016A

	Orthoterphenyl
9685618	70
9685619	80
9685620	76
9685621	79
9685622	79
9685623	75
Blank	79
LCS	74
LCSD	80
Limits:	42-126

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

Chevron California Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories 062918-02 500ml

Acct. # 12181 | For Eurofins Lancaster Laboratories use only Group # 1961301 Sample # 96855617-23

Instructions on reverse side correspond with circled numbers.

1 of 1

1 Client Information

Facility # SS#376584-OML G-R#17155903 WBS Global ID#T0600101442

Site Address 670 98th AVENUE, OAKLAND, CA

Chevron PM CM | Lead Consultant AECOMEBR Evans B

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 Frank T. & ALEX W.

4 Matrix

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

3 Grab | Composite

5 Analyses Requested

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 | Oxygenates _____ | Total Lead Method _____ | Dissolved Lead Method _____ | NAPHTHALENE (8260)

2 Sample Identification	Soil Depth	Collected Date	Collected Time	Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE 8260	TPH-GRO 8260	TPH-DRO 8015 without Silica Gel Cleanup	TPH-DRO 8015 with Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead	Dissolved Lead	NAPHTHALENE (8260)
QA		18.6.29					W		2	X	X							
MW-1			0825	X					8	X	X	X	X					X
MW-2			0900	X					8	X	X	X	X					X
MW-3			0645	X					8	X	X	X	X					X
MW-4			0955	X					8	X	X	X	X					X
MW-5			0735	X					8	X	X	X	X					X
WELL 18			0805	X					8	X	X	X	X					X

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

Requesting Chromatograms for TPH-DRO and TPH-GRO range.

7 Turnaround Time Requested (TAT) (please circle)

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

Relinquished by	Date	Time	Received by	Date	Time (9)
[signature]	18.6.29		[signature]	6/29/18	1210
[signature] 29 JUN 18		1638	FX		6/30/18

8 Data Package (circle if required)

Type I - Full | Type VI (Raw Data)

EDD (circle if required)

EDFFLAT (default) | Other: _____

Relinquished by Commercial Carrier: UPS _____ FedEx X Other _____

Received by Felix Gonzalez | Date 6/30/18 | Time 1240

Temperature Upon Receipt 1.1 °C

Custody Seals Intact? (Yes) No

eurofins | Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID: 220657

Group Number(s): 1961301

Client: CA Office

Delivery and Receipt Information

Delivery Method:	BASC	Arrival Timestamp:	06/30/2018 12:40
Number of Packages:	1	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:	2
Paperwork Enclosed:	Yes	Trip Blank Type:	HCl
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Felix Gonzalez (13783) at 13:13 on 06/30/2018

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	DT42-01	1.1	DT	Wet	Y	Bagged	N

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Lancaster, PA 17605-2425
T | 717-656-2300
F | 717-656-2681
www.LancasterLabs.com

Explanation of Symbols and Abbreviations

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

BMQL	Below Minimum Quantitation Level	**mL**	milliliter(s)
C	degrees Celsius	**MPN**	Most Probable Number
cfu	colony forming units	**N.D.**	non-detect
CP Units	cobalt-chloroplatinate units	**ng**	nanogram(s)
F	degrees Fahrenheit	**NTU**	nephelometric turbidity units
g	gram(s)	**pg/L**	picogram/liter
IU	International Units	**RL**	Reporting Limit
kg	kilogram(s)	**TNTC**	Too Numerous To Count
L	liter(s)	**µg**	microgram(s)
lb.	pound(s)	**µL**	microliter(s)
m3	cubic meter(s)	**umhos/cm**	micromhos/cm
meq	milliequivalents	**MCL**	Maximum Contamination Limit
mg	milligram(s)		

<	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.

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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Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
J (or G, I, X)	Estimated value >= the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

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.