Carryl MacLeod
Project Manager, Downstream Business Unit

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

Re: Former Chevron Service Station 90955
1200 Park Street
Alameda, CA
ACEH Site Cleanup Case #RO003230

I have read and acknowledge the content, recommendations and/or conclusions contained in the attached *Second Semiannual 2018 Groundwater Monitoring and Sampling Report* submitted on my behalf to SWRCB's GeoTracker website.

This letter is submitted pursuant to the requirements of California Water Code Section 13267(b)(1) and the regulating implementation entitled Appendix A pertaining thereto.

I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge

Sincerely,

Carryl MacLeod
Project Manager

Attachment: *Second Semiannual 2018 Groundwater Monitoring and Sampling Report*

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

ARCADIS Design & Consultancy for natural and built assets

Chevron Environmental Management Company

SECOND QUARTER 2018 GROUNDWATER MONITORING AND SAMPLING REPORT

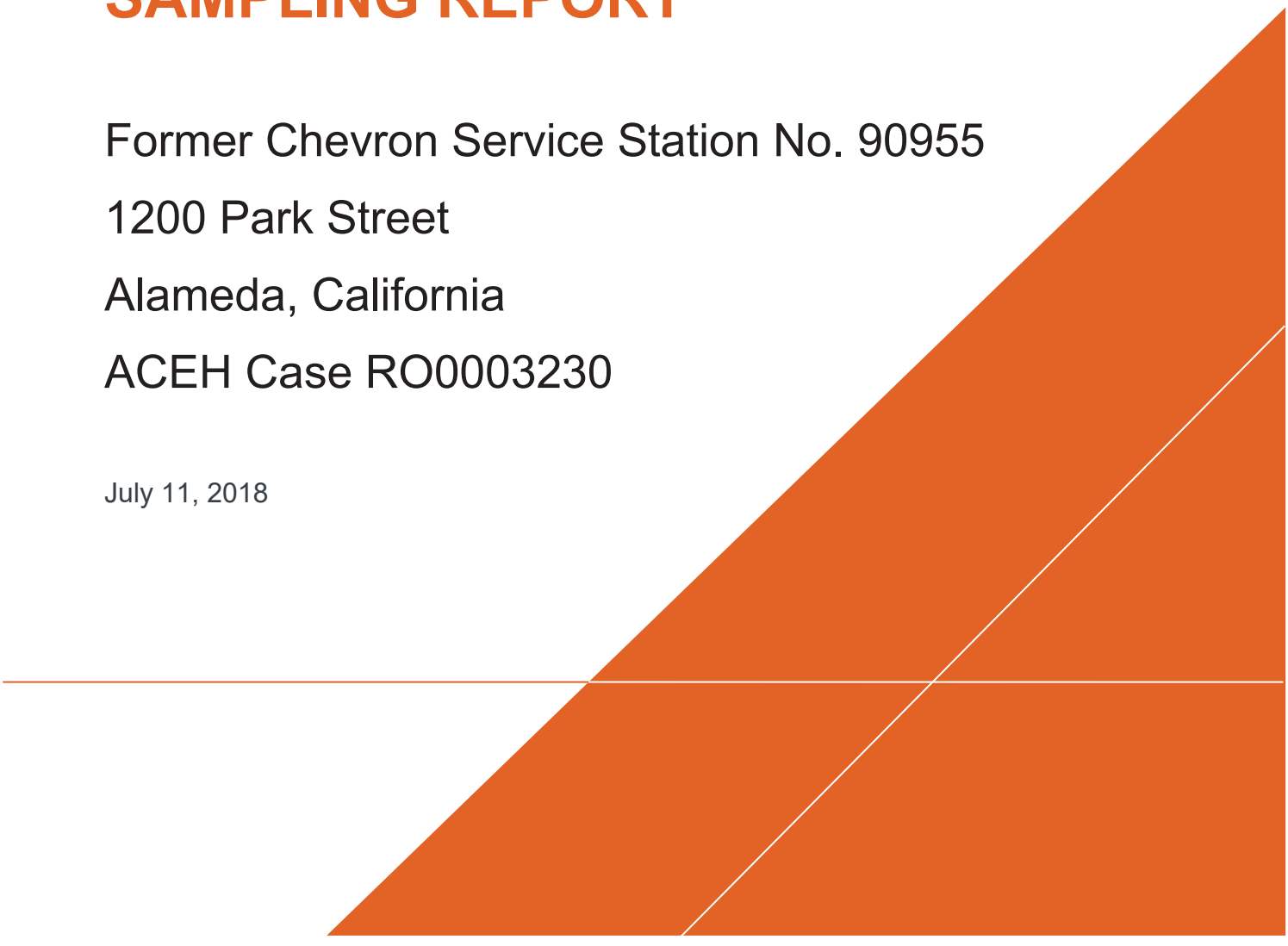
Former Chevron Service Station No. 90955

1200 Park Street

Alameda, California

ACEH Case RO0003230

July 11, 2018



SECOND QUARTER 2018 GROUNDWATER MONITORING AND SAMPLING REPORT

Former Chevron Service Station 206145
1200 Park Street
Alameda, California
ACEH Case RO0003230

Prepared for:

Chevron Environmental Management Company

Prepared by:

Arcadis U.S., Inc.
2300 Clayton Road
Suite 400
Concord
California 94520
Tel 925 274 1100

Our Ref.:

B0090955.GW18

Date:

July 11, 2018

Adrian Jaycox
Environmental Scientist

Katherine Szymanowski, P.G.
Project Manager

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1 INTRODUCTION

On behalf of Chevron Environmental Management Company (CEMC), Arcadis U.S., Inc. (Arcadis) prepared this Second Quarter 2018 Groundwater Monitoring and Sampling Report (Report) for the former Chevron Service Station located at 1200 Park Street, Alameda, California (Site; Figure 1, Figure 2). On March 20 and 21, 2018 four monitoring wells (MW-1, MW-2, MW-3, and MW-4) were installed at the Site (Arcadis, 2018) according to *Work Plan for Additional Site Assessment* (GHD 2017a) and the *Work Plan Addendum* (GHD 2017b). Quarterly monitoring of these wells continued with the sampling event on May 31, 2018 as described in this report.

2 GROUNDWATER MONITORING AND SAMPLING

Groundwater Sampling

On May 31, 2018, MW-1, MW-2, MW-3, and MW-4 were purged and sampled by the methods described in Appendix A. Samples were stored in an ice-chilled cooler for transportation to Eurofins of Lancaster, Pennsylvania (a State-certified analytical laboratory) under standard chain-of-custody protocol. Laboratory analytical data is included in Appendix B. Samples were analyzed for the following compounds of concern (COCs):

- Gasoline Range Organics (TPH-g) by United States Environmental Protection Agency (EPA) Method 8015B;
- Diesel Range Organics both with and without silica gel cleanup (TPH-d w/ Si Gel and TPH-d, respectively) by EPA Method 8015B;
- Motor Oil Range Organics (TPH-m) by EPA Method 8015B; and
- BTEX compounds and naphthalene by EPA Method 8260B.

A Chevron-branded service station operated on-site until 1978. Based on the property history and the results from the Phase 2 investigation, MTBE was not considered a constituent of concern at this Site and therefore not analyzed.

A letter was submitted November 10, 2016 documenting the historical service station operations and tank contents. It has been documented the UST was used for storing gasoline only and diesel was not dispensed at the site. Therefore, no additional groundwater analysis will be conducted for TPH-d due to the documented historical uses of the tanks.

Groundwater Elevation Monitoring

Depth to groundwater in each monitoring well was measured to the nearest 0.01 foot using an electronic water-level meter. Field measurements are tabulated in Table 1 and plotted on Figure 3.

Analytical Results

All analytical data is tabulated in Table 2. TPH-d w/ Si Gel, TPH-g, TPH-m, BTEX compounds, naphthalene, and groundwater elevations are illustrated in Figure 3.

3 DATA INTERPRETATION AND CONCLUSIONS

Groundwater elevation across the site indicate a flow direction of west-northwest, with a gradient of about 0.01 ft/ft. The majority of COC mass in groundwater is encountered in MW-2 and MW-3, with the highest concentrations being of TPH-GRO. COC detections in MW-1 and MW-4 were minor.

Gasoline is the main contaminant of concern (COC) at the Site. There is no record of diesel ever having been dispensed, and maximum site-wide results for TPH-d w/ Si Gel and TPH-mo were low (See Table 2). BTEX compounds and naphthalene were compared to the San Francisco Bay Regional Water Quality Control Board (SWQCB) Environmental Screening Levels (ESLs) for shallow groundwater [Groundwater Vapor Intrusion Human Health Risk Screening Levels for Commercial/Industrial]. All BTEX and naphthalene results from the latest groundwater sampling event are below the ESL's (Table 2). The site meets the Low-Threat Closure Policy Media-Specific Criteria for groundwater.

4 REFERENCES

Gettler-Ryan Inc. 2018. Groundwater Monitoring & Sampling Report Second Quarter Event of May 31, 2018. Former Chevron Service Station 90955, 1200 Park Street, Alameda California. June.

GHD. 2017a. Work Plan for Additional Site Assessment. Former Chevron Service Station 90955, 1200 Park Street, Alameda California. May 10.

GHD 2017b. Work Plan Addendum. Former Chevron Service Station 90955, 1200 Park Street, Alameda California. February 3.

RWQCB. 2016. Table GW-3. Groundwater Vapor Intrusion Human Health Risk Levels, Environmental Screening Levels for Commercial/Industrial Shallow Groundwater, February (Rev. 3)

SWRCB 2012. Low-Threat Underground Storage Tank Case Closure Policy, August 17, 2012

TABLES

Table 1
Monitoring Well Field Measurements
Former Chevron Service Station 90955
1200 Park Street
Alameda, California

ARCADIS Design & Consultancy for natural and built assets

Monitoring Well ID	Sample Date	TOC (ft)	GWE (ft)	Total Depth (ft)	Depth to Water (ft)	pH	Conductivity (µS/cm)	Temperature °C
MW-1	4/2/2018	27.56	18.69	14.75 [1]	8.87	7.65	512	18.8
	5/31/2018	27.56	18.32	14.75	9.24	6.97	456	18.5
MW-2	4/2/2018	27.32	18.79	14.35 [1]	8.53	7.79	588	18.8
	5/31/2018	27.32	18.24	14.35	9.08	7.33	517	18.8
MW-3	4/2/2018	27.32	19.19	14.92 [1]	8.13	7.77	599	19.0
	5/31/2018	27.32	18.59	14.92	8.73	6.85	557	19.7
MW-4	4/2/2018	26.70	19.07	14.97 [1]	7.63	7.65	574	18.9
	5/31/2018	26.70	18.46	14.97	8.24	6.96	661	18.8

Notes:
TOC = Top of Casing
GWE = Groundwater Elevation
ft = Feet
µS/cm = micro-Siemens per centimeter

[1] Depth to water values updated from initial well install event to first groundwater sampling event.

Table 2
Groundwater Monitoring Sample Data
Former Chevron Service Station 90955
1200 Park Street
Alameda, California

ARCADIS Design & Consultancy for natural and built assets

Well ID	Sample Date	TPH-d 8015 (SGT)	TPH-d	TPH-g	TPH-mo	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Naphthalene
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ESL (Commercial/Industrial)		--	--	--	--	9.7	3,000	110	20	170
MW-1	4/2/2018	**110**	**88***	<50	**83**	<0.5	<0.5	<0.5	<0.5	<1
	5/31/2018	<100	**69**	<100	<120	<1	<1	<1	<1	**2**
MW-2	4/2/2018	**710**	**920 J***	**3,500**	**46 J**	**4**	**4**	**7**	**5**	**150**
	5/31/2018	**480**	**810**	**2,000**	**70**	**2**	**2**	**5**	**2**	**100**
MW-3	4/2/2018	**1500**	**2400 J***	**6,400**	**64 J**	**8**	<3	**100**	**37**	**56**
	5/31/2018	**260**	**710**	**2,800**	**53**	**5**	**1**	**55**	**14**	**47**
MW-4	4/2/2018	<50	**51 J***	<50	<39	<0.5	<0.5	<0.5	<0.5	<1
	5/31/2018	<100	<100	**71**	<120	<1	<1	**2**	<1	**3**

Notes:

*Target analytes were detected in the method blank associated with the samples as noted on the QC Summary.
The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. Results are reported from the re-trial. The following are the results from the original analysis: MW-1 (68 µg/L), MW-2 (1200 J µg/L), MW-3 (2200 J µg/L), and MW-4 (51 J µg/L).

µg/L = Micrograms per liter

Bold = Value exceeds laboratory reporting limits

J = Quantified as approximate based on data validation

TPH-GRO = Gasoline Range Organics by Environmental Protection Agency (EPA) Method 8015B

TPH-DRO = diesel range organics by EPA Method 8015B

TPH-MRO = Motor oil range Organics by EPA Method 8015B

SGT = Silica Gel Treated

Samples analyzed by EPA Method 8260B:

Benzene, toluene, ethylbenzene and total xylenes (collectively BTEX)

ESL = Environmental Screening Levels for shallow groundwater [Groundwater Vapor Intrusion Human Health Risk Screening Levels for commercial/Industrial]

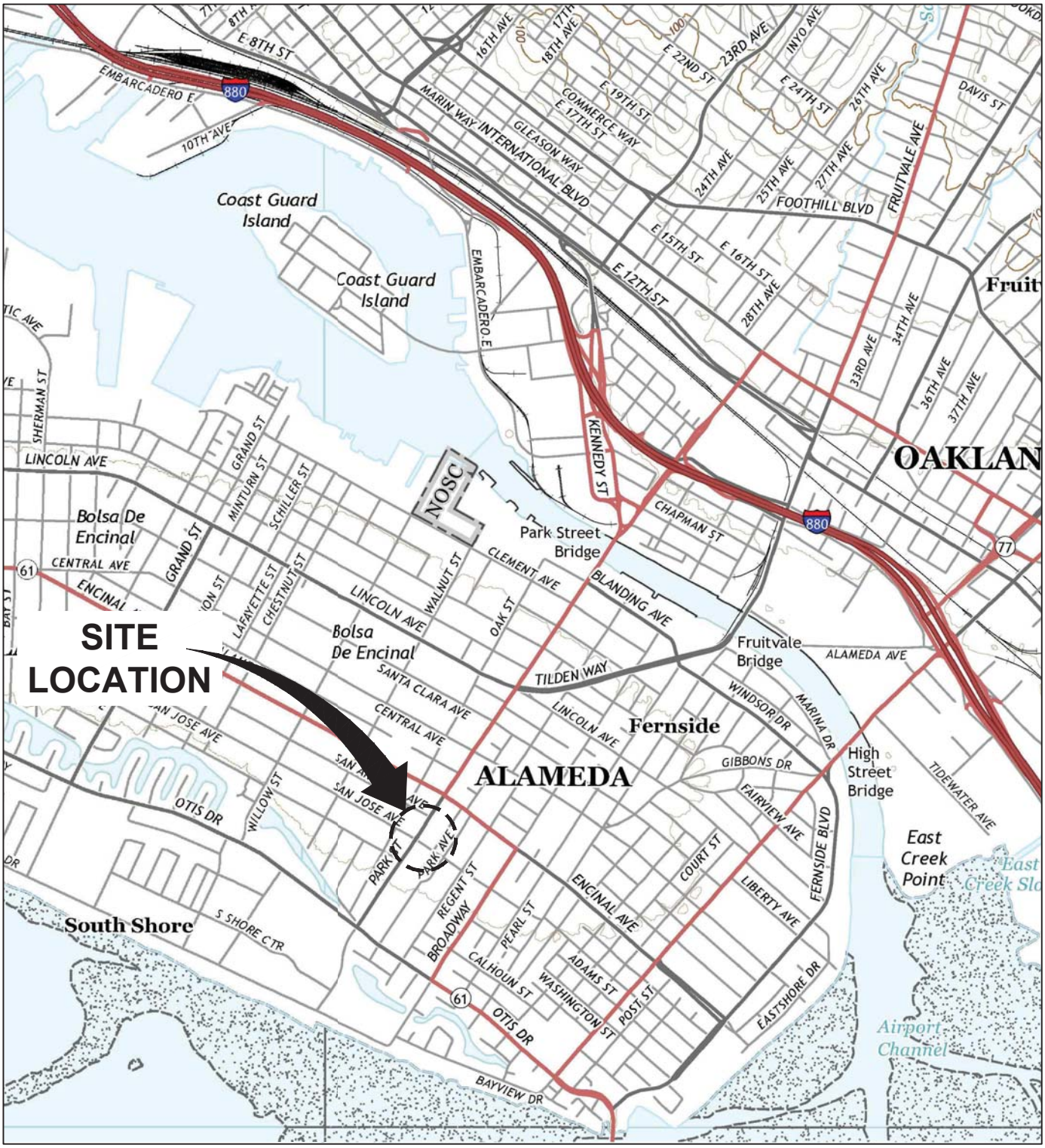
-- = Not applicable

Table 3
Screen Interval Assessment
Former Chevron Service Station No. 90121
3026 Lakeshore Avenue
Oakland, California

Well ID	Date Installed	Well Type	Casing Diameter inches	Top of Casing (TOC) feet above ASL	Construction Well Depth feet BGS	Current Well Depth feet below TOC	Current Depth to Water (DTW) feet BGS	Screened Interval feet BGS	Screen Interval Assessment
MW-1	3/20/2018	Monitoring Well (active)	2	27.56	15	14.75	9.24	5-15	Current DTW is within the screen interval
MW-2	3/20/2018	Monitoring Well (active)	2	27.32	15	14.35	9.08	5-15	Current DTW is within the screen interval
MW-3	3/20/2018	Monitoring Well (active)	2	27.32	15	14.92	8.73	5-15	Current DTW is within the screen interval
MW-4	3/21/2018	Monitoring Well (active)	2	26.70	15	14.97	8.24	5-15	Current DTW is within the screen interval

Notes:
1. Active wells were most recently surveyed on 05/31/2018

FIGURES



REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., OAKLAND EAST AND OAKLAND WEST, CALIFORNIA, 2015.

N

0 2,000' 4,000'

Approximate Scale: 1 in. = 2,000 ft.

CALIFORNIA

FORMER CHEVRON STATION 90955
1200 PARK STREET
ALAMEDA, CALIFORNIA

SITE LOCATION MAP

ARCADIS Design & Consultancy for natural and built assets

FIGURE 1

CITY: SAN RAFAEL, CA DIV/GROUP: ENVCAD DB: J. HARRIS
C:\Users\PAI01041\OneDrive - ARCADIS\BIM 360 Docs\CHEVRON CORPORATIONINCA_90955 GWR and Surveying\2018\B0090955.GW18\01-DWG\90955 - Fig 1 - SLM.dwg LAYOUT: 1 SAVED: 5/31/2018 3:13 PM ACADVER: 21.0S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ARCADIS.CTB
PLOTTED: 6/20/2018 2:13 PM BY: ANJANEYAKUMAR, PAVAN KUMAR
XREFS: IMAGES: PROJECTNAME: ----
Oakland East 2015.jpg
Oakland West 2015.jpg

NOTES:

1. BASE MAP PROVIDED BY GHD. CITED MAP SOURCE: MOORE TWINING ASSOCIATES, INC. SITE PLAN DATED 5/3/16.
2. MONITORING WELLS SURVEYED BY MUIR CONSULTING, INC. 4/16/18. ALL OTHER FEATURES AND LOCATIONS ARE APPROXIMATE.

0 30' 60'

GRAPHIC SCALE

LEGEND

- PROPERTY BOUNDARY
- MONITORING WELL
- APPROXIMATE SOIL BORING
- APPROXIMATE HAND AUGER BORING

FORMER CHEVRON STATION 90955
1200 PARK STREET
ALAMEDA, CALIFORNIA

SITE FEATURES

ARCADIS Design & Consultancy for natural and built assets

FIGURE
2

CITY: SAN RAFAEL, CA DIV/GROUP: ENVCAD DB: J. HARRIS
C:\Users\PA010411\OneDrive - ARCADIS\BIM 360 Docs\CHEVRON CORPORATIONINCA_90955 GWR and Surveying\2018\B0090955.GW18\01-DWG\90955 - Fig 2 - Site Plan.dwg LAYOUT: 2 SAVED: 5/31/2018 3:31 PM ACADVER: 21.0S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ARCADIS.CTB
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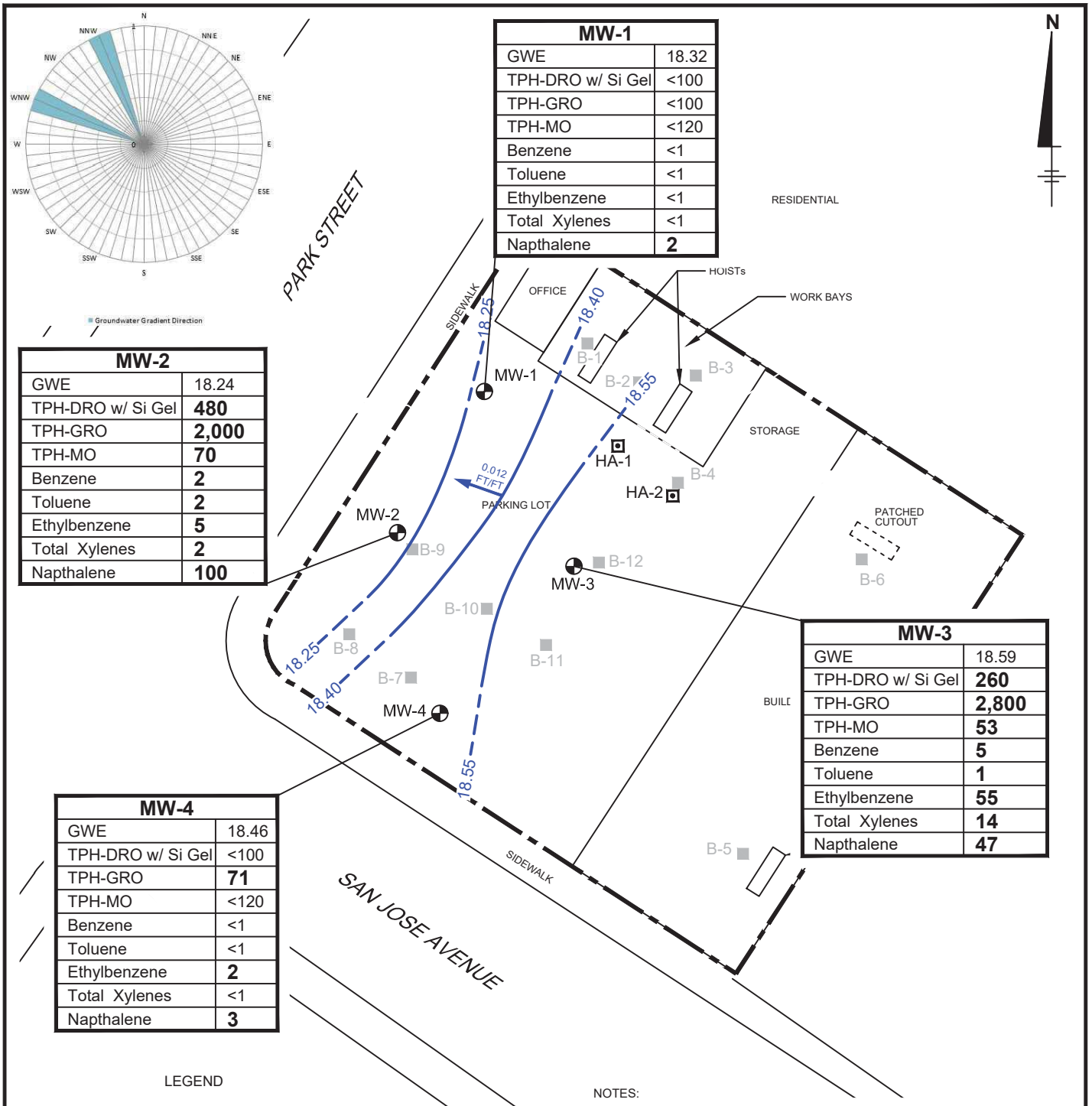
90955 - X-Base



MW-1	
GWE	18.32
TPH-DRO w/ Si Gel	<100
TPH-GRO	<100
TPH-MO	<120
Benzene	<1
Toluene	<1
Ethylbenzene	<1
Total Xylenes	<1
Napthalene	**2**

MW-2	
GWE	18.24
TPH-DRO w/ Si Gel	**480**
TPH-GRO	**2,000**
TPH-MO	**70**
Benzene	**2**
Toluene	**2**
Ethylbenzene	**5**
Total Xylenes	**2**
Napthalene	**100**

MW-3	
GWE	18.59
TPH-DRO w/ Si Gel	**260**
TPH-GRO	**2,800**
TPH-MO	**53**
Benzene	**5**
Toluene	**1**
Ethylbenzene	**55**
Total Xylenes	**14**
Napthalene	**47**

MW-4	
GWE	18.46
TPH-DRO w/ Si Gel	<100
TPH-GRO	**71**
TPH-MO	<120
Benzene	<1
Toluene	<1
Ethylbenzene	**2**
Total Xylenes	<1
Napthalene	**3**

LEGEND

- PROPERTY BOUNDARY
- MONITORING WELL
- APPROXIMATE SOIL BORING
- APPROXIMATE HAND AUGER BORING
- 18.55 GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW
- 0.012 FT/FT APPROXIMATE HYDRAULIC GRADIENT (FEET/FOOT)
- GWE GROUNDWATER ELEVATION (FEET)
- TPH-DRO w/ Si Gel TOTAL PETROLEUM HYDROCARBONS - DIESEL (SILICA GEL TREATMENT)
- TPH-GRO TOTAL PETROLEUM HYDROCARBONS - GASOLINE
- TPH-MO TOTAL PETROLEUM HYDROCARBONS - MOTOR OIL
- **BOLD** VALUE EXCEEDS LABORATORY REPORTING LIMITS
- <50 NOT DETECTED AT OR ABOVE LABORATORY METHOD DETECTION LIMIT

NOTES:

1. BASE MAP PROVIDED BY GHD. CITED MAP SOURCE: MOORE TWINING ASSOCIATES, INC. SITE PLAN DATED 5/3/16.
2. MONITORING WELLS SURVEYED BY MUIR CONSULTING, INC. 4/16/18. ALL OTHER FEATURES AND LOCATIONS ARE APPROXIMATE.

0 30' 60'

GRAPHIC SCALE

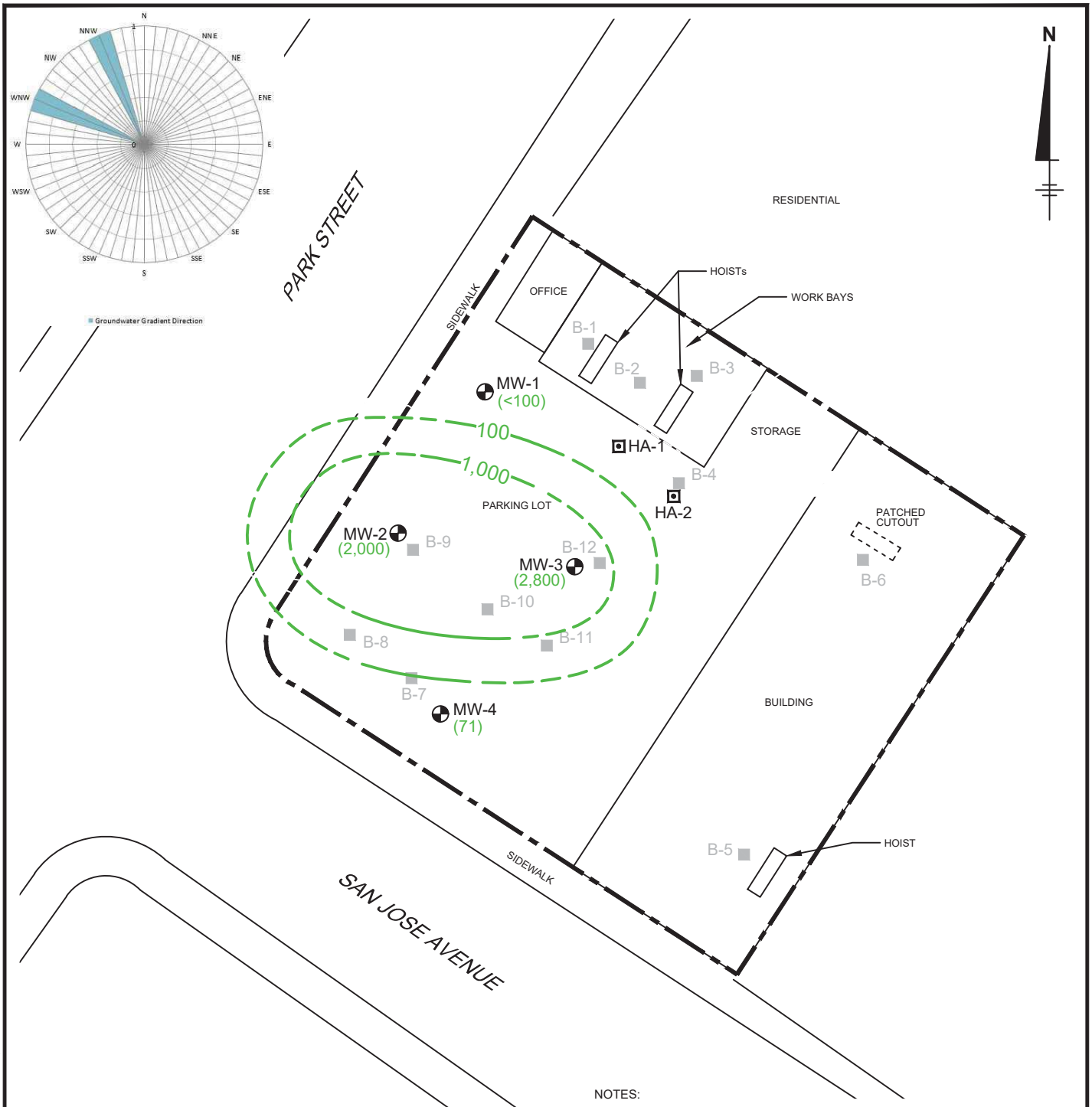
FORMER CHEVRON STATION 90955
1200 PARK STREET
ALAMEDA, CALIFORNIA

GROUNDWATER ANALYTICAL RESULTS MAY 31, 2018

ARCADIS Design & Consultancy for natural and built assets

FIGURE 3

CITY: SAN RAFAEL, CA DIV/GROUP: ENVCAD DB: J. HARRIS
C:\Users\PAI0104\OneDrive - ARCADIS\BIM 360 Docs\CHEVRON CORPORATIONINCA_90955 GWR and Surveying\2018\B0090955.GW18\01-DWG\90955 - Fig 3 - Soil Sample Results.dwg LAYOUT: 3 SAVED: 6/22/2018 4:58 PM ACADVER: 21.0S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 6/22/2018 5:01 PM BY: ANJANEYAKUMAR, PAVAN KUMAR
XREFS: 90955 - X-Base



NOTES:

1. BASE MAP PROVIDED BY GHD. CITED MAP SOURCE: MOORE TWINING ASSOCIATES, INC. SITE PLAN DATED 5/3/16.
2. MONITORING WELLS SURVEYED BY MUIR CONSULTING, INC. 4/16/18. ALL OTHER FEATURES AND LOCATIONS ARE APPROXIMATE.

0 30' 60'

GRAPHIC SCALE

LEGEND

- PROPERTY BOUNDARY
- MONITORING WELL
- APPROXIMATE SOIL BORING
- APPROXIMATE HAND AUGER BORING
- 1,000 — TOTAL PETROLEUM HYDROCARBONS AS GASOLINE (TPH-g) ISOCONCENTRATION CONTOUR (DASHED WHERE INFERRED)
- (2,800) TPH-g CONCENTRATION IN MICROGRAMS PER LITER (mg/L)
- (<50) NOT DETECTED AT OR ABOVE LABORATORY METHOD DETECTION LIMIT

FORMER CHEVRON STATION 90955
1200 PARK STREET
ALAMEDA, CALIFORNIA

TPH-GRO ISOCONCENTRATION MAP MAY 31, 2018

ARCADIS Design & Consultancy for natural and built assets

FIGURE 4

ARCADIS Design & Consultancy for natural and built assets

Groundwater Sampling Field Forms

GETTLER-RYAN INC.

TRANSMITTAL

June 7, 2018
G-R #17155916

TO: Ms. Katherine Szymanowski
Arcadis
2300 Clayton Road, Suite 400
Concord, CA 94520

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

RE: Chevron #9-0955
1200 Park Street
Alameda, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Report **Second Quarter Event of May 31, 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-9-0955

WELL CONDITION STATUS SHEET

Client/
Facility #: Chevron #9-0955

Site Address: 1200 Park Street

City: Alameda, CA

Job #: 17155916

Event Date: 5.31.18

Sampler: FT

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-1	OK									EMCO / 8" / 2	
MW-2	OK										
MW-3	OK										
MW-4	OK										

DRUMS PRESENT ONSITE? (Y) / N #: 5

ARE DRUMS PROPERLY LABELED? (Y) / N

LOCATION OF DRUMS: NORTH EAST SIDE OF LOT NEAR OLD STORAGE AREA.

Comments:

9-0955, Alameda Drums Onsite 05-31-18

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 #9-0955 | Job Number: 17155916
Site Address: 1200 Park Street | Event Date: 5.31.18 (inclusive)
City: Alameda, CA | Sampler: FT

Well ID: MW-1 | Date Monitored: 5.31.18
Well Diameter: 2 in.
Total Depth: 14.75 ft.
Depth to Water: 9.24 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

5.51 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): 1235 | Weather Conditions: Sunny
Sample Time/Date: 1324 / 5.31.18 | Water Color: CLEAR Odor: Y / (N)
Approx. Flow Rate: 200 mL lpm. | Sediment Description: NONE
Did well de-water? NO If yes, Time: Volume: ltr. DTW @ Sampling: 9.41

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
1253	3.6	7.01	445	18.7			9.29
1256	4.2	6.99	451	18.6			9.35
1259	4.8	6.97	456	18.5			9.41

LABORATORY INFORMATION

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

COMMENTS: DEPTH PUMP SET AT: ≈ 11.50'

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 #9-0955 Job Number: 17155916
Site Address: 1200 Park Street Event Date: 5.31.18 (inclusive)
City: Alameda, CA Sampler: FT

Well ID MW-2 Date Monitored: 5.31.18
Well Diameter 2 in.
Total Depth 14.35 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

5.27 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): 1130 Weather Conditions: Sunny
Sample Time/Date: 1219 / 5.31.18 Water Color: CLEAR Odor: Y / (N)
Approx. Flow Rate: 200 ml lpm. Sediment Description: NONE
Did well de-water? NO If yes, Time: Volume: ltr. DTW @ Sampling: 9.19

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS mhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
1148	3.6	7.38	506	19.1			9.11
1151	4.2	7.36	511	19.0			9.14
1154	4.8	7.33	517	18.8			9.19

LABORATORY INFORMATION

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

COMMENTS: DEPTH PUMP SET AT: ≈ 11.00'

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 #9-0955 | Job Number: 17155916
Site Address: 1200 Park Street | Event Date: 5.31.18 (inclusive)
City: Alameda, CA | Sampler: FT

Well ID: MW-3 | Date Monitored: 5.31.18
Well Diameter: 2 in.
Total Depth: 14.92 ft.
Depth to Water: 8.73 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.

6.19 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): 1340 | Weather Conditions: SUNNY
Sample Time/Date: 1430 / 5.31.18 | Water Color: CLEAR Odor: Y / (N)
Approx. Flow Rate: 200 m lpm. | Sediment Description: NONE
Did well de-water? NO If yes, Time: ____ Volume: ____ ltr. DTW @ Sampling: 8.92

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
1358	3.6	6.88	546	20.0			8.79
1401	4.2	6.87	551	19.8			8.85
1404	4.8	6.85	557	19.7			8.92

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	6 x voa vial	YES	HCL	EUROFINS	TPH-GRO(8015)/BTEX(8260)/NAPHTHALENE(8260)
	2 x 500ml ambers	YES	NP	EUROFINS	TPH-DRO(8015)
	2 x 500ml ambers	YES	NP	EUROFINS	TPH-DRO w/sgc(8015)
	2 x 1 liter ambers	YES	NP	EUROFINS	TPH-MO(8015)

COMMENTS: DEPTH PUMP SET AT: ≈ 8.50'

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 #9-0955 | Job Number: 17155916
Site Address: 1200 Park Street | Event Date: 5.31.18 (inclusive)
City: Alameda, CA | Sampler: FT

Well ID: MW-4 | Date Monitored: 5.31.18
Well Diameter: 2 in.
Total Depth: 14.97 ft.
Depth to Water: 8.24 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.

6.73 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): 1445 | Weather Conditions: SUNNY
Sample Time/Date: 1535 / 5.31.18 | 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: 8.49

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
1503	3.6	7.03	652	19.1			8.32
1506	4.2	6.99	656	18.9			8.40
1509	4.8	6.96	661	18.8			8.49

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	6 x voa vial	YES	HCL	EUROFINS	TPH-GRO(8015)/BTEX(8260)/NAPHTHALENE(8260)
	2 x 500ml ambers	YES	NP	EUROFINS	TPH-DRO(8015)
	2 x 500ml ambers	YES	NP	EUROFINS	TPH-DRO w/sgc(8015)
	2 x 1 liter ambers	YES	NP	EUROFINS	TPH-MO(8015)

COMMENTS: DEPTH PUMP SET AT: ≈ 10.50'

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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IL+5∅∅
356∅118-∅2

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

SCR #: ________

1 Client Information

Facility #: SS#9-0955-OML G-R#17155916 WBS Global ID#T10000009166

Site Address: 1200 PARK STREET, ALAMEDA, CA

Chevron PM: CM ARCADISKS Lead Consultant: Szymanowski

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.

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

5 Analyses Requested: BTEX ☒ 8260 ☐ 8021; TPH-GRO ☐ 8260 ☒ 8015; ☒ 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); TPH-MD (8015)

2 Sample Identification	Soil Depth	Collected Date	Collected Time	3 Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX	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)	TPH-MD (8015)
QA		18.5.31					W		2	X	X								
MW-1		↓	1324	X			↓		12	X	X	X	X					X	X
MW-2			1219	X					12	X	X	X	X					X	X
MW-3			1430	X					12	X	X	X	X					X	X
MW-4		↓	1535	X			↓		12	X	X	X	X					X	X

8 Other options (no section number):
☐ 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
BOTTLE COUNT:
FOR-
MW-1 = ~~13~~ 12
MW-2 = ~~13~~ 12
MW-3 = ~~13~~ 12
remains at 12 - DW 6/1

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 1	0800	GR Fridge	18/6/1	0800
[signature]	18/6/1	1145	[signature]	01 JUN 18	1145
Relinquished by Commercial Carrier: UPS ____ FedEx ____ Other ____			Received by	Date	Time

Temperature Upon Receipt ________ °C

Custody Seals Intact? Yes No

ARCADIS Design & Consultancy for natural and built assets

Laboratory Analytical Results

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ANALYSIS REPORT

Prepared by:

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

Prepared for:

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

Report Date: June 15, 2018 17:57

Project: 90955

Account #: 11928
Group Number: 1950458
SDG: CVU39
PO Number: 0015269765
Release Number: CMACLEOD
State of Sample Origin: CA

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our current scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ . To request copies of prior scopes of accreditation, contact your project manager.

Electronic Copy To	ARCADIS	Attn: JP Brandenburg
Electronic Copy To	ARCADIS	Attn: Katherine Szymanowski

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

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SAMPLE INFORMATION

Client Sample Description	Sample Collection Date/Time	ELLE#
QA-T-180531 NA Water	05/31/2018	9640000
MW-1-W-180531 Grab Groundwater	05/31/2018 13:24	9640001
MW-2-W-180531 Grab Groundwater	05/31/2018 12:19	9640002
MW-3-W-180531 Grab Groundwater	05/31/2018 14:30	9640003
MW-4-W-180531 Grab Groundwater	05/31/2018 15:35	9640004

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-180531 NA Water**
Facility# 90955 Job# 17155916 GRD
1200 Park Street-Alameda T10000009401

Chevron
ELLE Sample #: WW 9640000
ELLE Group #: 1950458
Matrix: Water

Project Name: **90955**

Submittal Date/Time: 06/02/2018 10:15
Collection Date/Time: 05/31/2018
SDG#: CVU39-01TB

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	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 8260B Water	SW-846 8260B	1	Z181612AA	06/10/2018 22:55	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z181612AA	06/10/2018 22:55	Hu Yang	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	18155B20A	06/05/2018 05:27	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	18155B20A	06/05/2018 05:27	Marie D Beamenderfer	1

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

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Analysis Report

Sample Description: **MW-1-W-180531 Grab Groundwater**
Facility# 90955 Job# 17155916 GRD
1200 Park Street-Alameda T10000009401

Chevron
ELLE Sample #: WW 9640001
ELLE Group #: 1950458
Matrix: Groundwater

Project Name: **90955**

Submittal Date/Time: 06/02/2018 10:15
Collection Date/Time: 05/31/2018 13:24
SDG#: CVU39-02

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	Naphthalene	91-20-3	2	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.	69	50	100	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**ug/l**	**ug/l**	**ug/l**	
02500	Total TPH	n.a.	N.D.	39	120	1
02500	TPH Motor Oil C16-C36	n.a.	N.D.	39	120	1
	TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons.					
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	BTEX & Naphthalene 8260B	SW-846 8260B	1	D181631AA	06/12/2018 15:37	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D181631AA	06/12/2018 15:37	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	18158A53A	06/07/2018 15:56	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	18158A53A	06/07/2018 15:56	Jeremy C Giffin	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	181550019A	06/06/2018 05:18	Thomas C Wildermuth	1

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

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Sample Description: **MW-1-W-180531 Grab Groundwater**
Facility# 90955 Job# 17155916 GRD
1200 Park Street-Alameda T10000009401

Chevron
ELLE Sample #: WW 9640001
ELLE Group #: 1950458
Matrix: Groundwater

Project Name: **90955**

Submittal Date/Time: 06/02/2018 10:15
Collection Date/Time: 05/31/2018 13:24
SDG#: CVU39-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02500	TPH Fuels by GC (Waters)	SW-846 8015B modified	1	181550021A	06/07/2018 04:15	Timothy M Emrick	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	181550020A	06/06/2018 20:56	Thomas C Wildermuth	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	181550019A	06/04/2018 15:28	Christine E Gleim	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	181550020A	06/04/2018 15:28	Christine E Gleim	1
11191	TPH Fuels Waters Extraction	SW-846 3510C	1	181550021A	06/04/2018 15:28	Christine E Gleim	1

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

Sample Description: **MW-2-W-180531 Grab Groundwater**
Facility# 90955 Job# 17155916 GRD
1200 Park Street-Alameda T10000009401

Chevron
ELLE Sample #: WW 9640002
ELLE Group #: 1950458
Matrix: Groundwater

Project Name: **90955**

Submittal Date/Time: 06/02/2018 10:15
Collection Date/Time: 05/31/2018 12:19
SDG#: CVU39-03

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	2	0.5	1	1
10945	Ethylbenzene	100-41-4	5	0.5	1	1
10945	Naphthalene	91-20-3	100	1	4	1
10945	Toluene	108-88-3	2	0.5	1	1
10945	Xylene (Total)	1330-20-7	2	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.	2,000	50	100	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
06609	TPH-DRO CA C10-C28	n.a.	810	50	100	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**ug/l**	**ug/l**	**ug/l**	
02500	Total TPH	n.a.	70	39	120	1
02500	TPH Motor Oil C16-C36	n.a.	70	39	120	1
	TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons.					
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.	480	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	BTEX & Naphthalene 8260B	SW-846 8260B	1	D181631AA	06/12/2018 16:01	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D181631AA	06/12/2018 16:01	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	18158A53A	06/07/2018 16:24	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	18158A53A	06/07/2018 16:24	Jeremy C Giffin	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	181550019A	06/06/2018 04:12	Thomas C Wildermuth	1

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

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Sample Description: **MW-2-W-180531 Grab Groundwater**
Facility# 90955 Job# 17155916 GRD
1200 Park Street-Alameda T10000009401

Chevron
ELLE Sample #: WW 9640002
ELLE Group #: 1950458
Matrix: Groundwater

Project Name: **90955**

Submittal Date/Time: 06/02/2018 10:15
Collection Date/Time: 05/31/2018 12:19
SDG#: CVU39-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02500	TPH Fuels by GC (Waters)	SW-846 8015B modified	1	181550021A	06/07/2018 04:37	Timothy M Emrick	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	181550020A	06/06/2018 21:18	Thomas C Wildermuth	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	181550019A	06/04/2018 15:28	Christine E Gleim	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	181550020A	06/04/2018 15:28	Christine E Gleim	1
11191	TPH Fuels Waters Extraction	SW-846 3510C	1	181550021A	06/04/2018 15:28	Christine E Gleim	1

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

Sample Description: **MW-3-W-180531 Grab Groundwater**
Facility# 90955 Job# 17155916 GRD
1200 Park Street-Alameda T10000009401

Chevron
ELLE Sample #: WW 9640003
ELLE Group #: 1950458
Matrix: Groundwater

Project Name: **90955**

Submittal Date/Time: 06/02/2018 10:15
Collection Date/Time: 05/31/2018 14:30
SDG#: CVU39-04

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	5	0.5	1	1
10945	Ethylbenzene	100-41-4	55	0.5	1	1
10945	Naphthalene	91-20-3	47	1	4	1
10945	Toluene	108-88-3	1	0.5	1	1
10945	Xylene (Total)	1330-20-7	14	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.	2,800	50	100	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
06609	TPH-DRO CA C10-C28	n.a.	710	50	110	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**ug/l**	**ug/l**	**ug/l**	
02500	Total TPH	n.a.	53	38	120	1
02500	TPH Motor Oil C16-C36	n.a.	53	38	120	1
	TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons.					
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.	260	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	BTEX & Naphthalene 8260B	SW-846 8260B	1	D181631AA	06/12/2018 17:13	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D181631AA	06/12/2018 17:13	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	18158A53A	06/07/2018 16:52	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	18158A53A	06/07/2018 16:52	Jeremy C Giffin	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	181550019A	06/06/2018 04:34	Thomas C Wildermuth	1

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

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Sample Description: **MW-3-W-180531 Grab Groundwater**
Facility# 90955 Job# 17155916 GRD
1200 Park Street-Alameda T10000009401

Chevron
ELLE Sample #: WW 9640003
ELLE Group #: 1950458
Matrix: Groundwater

Project Name: **90955**

Submittal Date/Time: 06/02/2018 10:15
Collection Date/Time: 05/31/2018 14:30
SDG#: CVU39-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02500	TPH Fuels by GC (Waters)	SW-846 8015B modified	1	181550021A	06/07/2018 04:58	Timothy M Emrick	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	181550020A	06/06/2018 21:40	Thomas C Wildermuth	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	181550019A	06/04/2018 15:28	Christine E Gleim	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	181550020A	06/04/2018 15:28	Christine E Gleim	1
11191	TPH Fuels Waters Extraction	SW-846 3510C	1	181550021A	06/04/2018 15:28	Christine E Gleim	1

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

Sample Description: **MW-4-W-180531 Grab Groundwater**
Facility# 90955 Job# 17155916 GRD
1200 Park Street-Alameda T10000009401

Chevron
ELLE Sample #: WW 9640004
ELLE Group #: 1950458
Matrix: Groundwater

Project Name: **90955**

Submittal Date/Time: 06/02/2018 10:15
Collection Date/Time: 05/31/2018 15:35
SDG#: CVU39-05

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	2	0.5	1	1
10945	Naphthalene	91-20-3	3	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.	71	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	**SW-846 8015B modified**		**ug/l**	**ug/l**	**ug/l**	
02500	Total TPH	n.a.	N.D.	39	120	1
02500	TPH Motor Oil C16-C36	n.a.	N.D.	39	120	1
	TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons.					
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	BTEX & Naphthalene 8260B	SW-846 8260B	1	D181631AA	06/12/2018 17:37	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D181631AA	06/12/2018 17:37	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	18159A53A	06/08/2018 20:26	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	18159A53A	06/08/2018 20:26	Jeremy C Giffin	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	181550019A	06/06/2018 04:56	Thomas C Wildermuth	1

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

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Sample Description: **MW-4-W-180531 Grab Groundwater**
Facility# 90955 Job# 17155916 GRD
1200 Park Street-Alameda T10000009401

Chevron
ELLE Sample #: WW 9640004
ELLE Group #: 1950458
Matrix: Groundwater

Project Name: **90955**

Submittal Date/Time: 06/02/2018 10:15
Collection Date/Time: 05/31/2018 15:35
SDG#: CVU39-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02500	TPH Fuels by GC (Waters)	SW-846 8015B modified	1	181550021A	06/07/2018 05:20	Timothy M Emrick	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	181550020A	06/06/2018 22:45	Thomas C Wildermuth	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	181550019A	06/04/2018 15:28	Christine E Gleim	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	181550020A	06/04/2018 15:28	Christine E Gleim	1
11191	TPH Fuels Waters Extraction	SW-846 3510C	1	181550021A	06/04/2018 15:28	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: 06/15/2018 17:57

Group Number: 1950458

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: D181631AA	Sample number(s): 9640001-9640004		
Benzene	N.D.	0.5	1
Ethylbenzene	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: Z181612AA	Sample number(s): 9640000		
Benzene	N.D.	0.5	1
Ethylbenzene	N.D.	0.5	1
Toluene	N.D.	0.5	1
Xylene (Total)	N.D.	0.5	1
Batch number: 18155B20A	Sample number(s): 9640000		
TPH-GRO N. CA water C6-C12	N.D.	50	100
Batch number: 18158A53A	Sample number(s): 9640001-9640003		
TPH-GRO N. CA water C6-C12	N.D.	50	100
Batch number: 18159A53A	Sample number(s): 9640004		
TPH-GRO N. CA water C6-C12	N.D.	50	100
Batch number: 181550019A	Sample number(s): 9640001-9640004		
TPH-DRO CA C10-C28	N.D.	50	100
Batch number: 181550021A	Sample number(s): 9640001-9640004		
Total TPH	N.D.	40	120
TPH Motor Oil C16-C36	N.D.	40	120
Batch number: 181550020A	Sample number(s): 9640001-9640004		
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: D181631AA	Sample number(s): 9640001-9640004								
Benzene	20	18.12			91		80-120		
Ethylbenzene	20	19.35			97		80-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Chevron
Reported: 06/15/2018 17:57

Group Number: 1950458

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
Naphthalene	20	21.13			106		59-120		
Toluene	20	19.82			99		80-120		
Xylene (Total)	60	59.05			98		80-120		
Batch number: Z181612AA	Sample number(s): 9640000								
Benzene	20	19.26			96		80-120		
Ethylbenzene	20	19.34			97		80-120		
Toluene	20	19.74			99		80-120		
Xylene (Total)	60	59.41			99		80-120		
	ug/l	ug/l	ug/l	ug/l					
Batch number: 18155B20A	Sample number(s): 9640000								
TPH-GRO N. CA water C6-C12	1100	1107.87	1100	1067.08	101	97	80-120	4	30
Batch number: 18158A53A	Sample number(s): 9640001-9640003								
TPH-GRO N. CA water C6-C12	1100	1047.43	1100	1074.16	95	98	80-120	3	30
Batch number: 18159A53A	Sample number(s): 9640004								
TPH-GRO N. CA water C6-C12	1100	1043.34	1100	1083.51	95	99	80-120	4	30
	ug/l	ug/l	ug/l	ug/l					
Batch number: 181550019A	Sample number(s): 9640001-9640004								
TPH-DRO CA C10-C28	1610	1309.85	1610	1257.66	81	78	53-115	4	20
Batch number: 181550021A	Sample number(s): 9640001-9640004								
Total TPH	800	486.08	800	527.3	61	66	44-115	8	20
	ug/l	ug/l	ug/l	ug/l					
Batch number: 181550020A	Sample number(s): 9640001-9640004								
TPH-DRO CA C10-C28 w/ Si Gel	1610	1195.01	1610	1028.66	74	64	40-105	15	20

MS/MSD

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

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: D181631AA	Sample number(s): 9640001-9640004 UNSPK: 9640002									
Benzene	1.80	20	21.26	20	21.29	97	97	80-120	0	30
Ethylbenzene	5.47	20	26.79	20	26.68	107	106	80-120	0	30
Naphthalene	101.97	20	129.25	20	130.8	136 (2)	144 (2)	59-120	1	30
Toluene	2.11	20	22.6	20	22.66	102	103	80-120	0	30

*- Outside of specification
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(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.

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Quality Control Summary

Client Name: Chevron
Reported: 06/15/2018 17:57

Group Number: 1950458

MS/MSD (continued)

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

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Xylene (Total)	2.06	60	65.01	60	64.74	105	104	80-120	0	30
Batch number: Z181612AA	Sample number(s): 9640000 UNSPK: P639608									
Benzene	N.D.	20	19.86	20	19.59	99	98	80-120	1	30
Ethylbenzene	1.46	20	21.32	20	20.84	99	97	80-120	2	30
Toluene	N.D.	20	20.12	20	19.81	101	99	80-120	2	30
Xylene (Total)	N.D.	60	59.28	60	57.84	99	96	80-120	2	30

Surrogate Quality Control

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

Analysis Name: BTEX & Naphthalene 8260B
Batch number: D181631AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9640001	106	100	105	96
9640002	104	100	105	101
9640003	102	99	107	103
9640004	105	103	105	95
Blank	105	100	105	94
LCS	101	101	105	100
MS	102	104	105	102
MSD	103	102	106	99
Limits:	80-120	80-120	80-120	80-120

Analysis Name: BTEX 8260B Water
Batch number: Z181612AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9640000	103	99	101	97
Blank	103	99	101	97
LCS	101	99	102	100
MS	101	101	101	102
MSD	101	99	101	101
Limits:	80-120	80-120	80-120	80-120

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 18155B20A

*- Outside of specification
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Quality Control Summary

Client Name: Chevron
Reported: 06/15/2018 17:57

Group Number: 1950458

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-GRO N. CA water C6-C12
Batch number: 18155B20A

	Trifluorotoluene-F
9640000	85
Blank	90
LCS	99
LCSD	98
Limits:	63-135

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 18158A53A

	Trifluorotoluene-F
9640001	86
9640002	140*
9640003	127
Blank	100
LCS	100
LCSD	102
Limits:	63-135

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 18159A53A

	Trifluorotoluene-F
9640004	85
Blank	104
LCS	100
LCSD	103
Limits:	63-135

Analysis Name: TPH-DRO CA C10-C28
Batch number: 181550019A

	Orthoterphenyl
9640001	68
9640002	78
9640003	85
9640004	68
Blank	73
LCS	89
LCSD	86
Limits:	50-124

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

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Quality Control Summary

Client Name: Chevron
Group Number: 1950458
Reported: 06/15/2018 17:57

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 w/ Si Gel
Batch number: 181550020A

	Orthoterphenyl
9640001	77
9640002	84
9640003	78
9640004	77
Blank	81
LCS	88
LCSD	76
Limits:	42-126

Analysis Name: TPH Fuels by GC (Waters)
Batch number: 181550021A

	Chlorobenzene	Orthoterphenyl
9640001	73	78
9640002	63	81
9640003	98	83
9640004	69	73
Blank	79	82
LCS	75	85
LCSD	79	87
Limits:	35-135	48-122

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Chevron California Region Analysis Request/Chain of Custody

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LT5Ø4 Ø6Ø118-Ø2

Acct. # 11928 For Eurofins Lancaster Laboratories use only Group # 1930458 Sample # 960000-01

Instructions on reverse side correspond with circled numbers.

1 of 1

1 Client Information

Facility # SS#9-0955-OML G-R#17155916 WBS Global ID#T10000009166

Site Address 1200 PARK STREET, ALAMEDA, CA

Chevron PM CM ARCADISKS Lead Consultant Szymanowski

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.

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

2 Sample Identification	Soil Depth	Collected Date	Collected Time	3 Grab	3 Composite	4 Matrix: Soil	Water	Sediment	Oil	Air	Ground	Potable	Surface	NPDES	Total Number of Containers	5 Analyses Requested: BTEX 8260	TPH-GRO 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)	TPH-MO (8015)
QA		18.5.31					W			2	X	X													
MW-1		↓	1324	X			↓			12	X	X	X	X								X	X		
MW-2			1219	X						12	X	X	X	X								X	X		
MW-3			1430	X						12	X	X	X	X								X	X		
MW-4		↓	1535	X			↓			12	X	X	X	X								X	X		

6 Remarks

BOTTLE COUNT:
FOR-
MW-1 = ~~13~~ 12
MW-2 = ~~13~~ 12
MW-3 = ~~13~~ 12
remains at 12-DW 6/1

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]	18.6.1	~~1~~0800	GR Fridge	18/6/1	0800
[signature]	18/6/1	1145	[signature]	JUN 18	1145
Relinquished by ~~Commercial Carrier~~: UPS ____ FedEx ____ Other ____			[signature]	JUN 18	1636 FX

Temperature Upon Receipt 5.3/2.2 °C 0.8

Custody Seals Intact? (Yes) No

9

Relix Gonzalez 6/2/18 10:15

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Sample Administration Receipt Documentation Log

Doc Log ID: 218068

Group Number(s): 1950458

Client: CA Office

Delivery and Receipt Information

Delivery Method:	BASC	Arrival Timestamp:	06/02/2018 10:15
Number of Packages:	3	Number of Projects:	3
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 10:58 on 06/02/2018

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	5.3	DT	Wet	Y	Bagged	N
2	DT42-01	2.2	DT	Wet	Y	Bagged	N
3	DT42-01	0.8	DT	Wet	Y	Bagged	N

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Explanation of Symbols and Abbreviations

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

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

<	less than
>	greater than
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

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.

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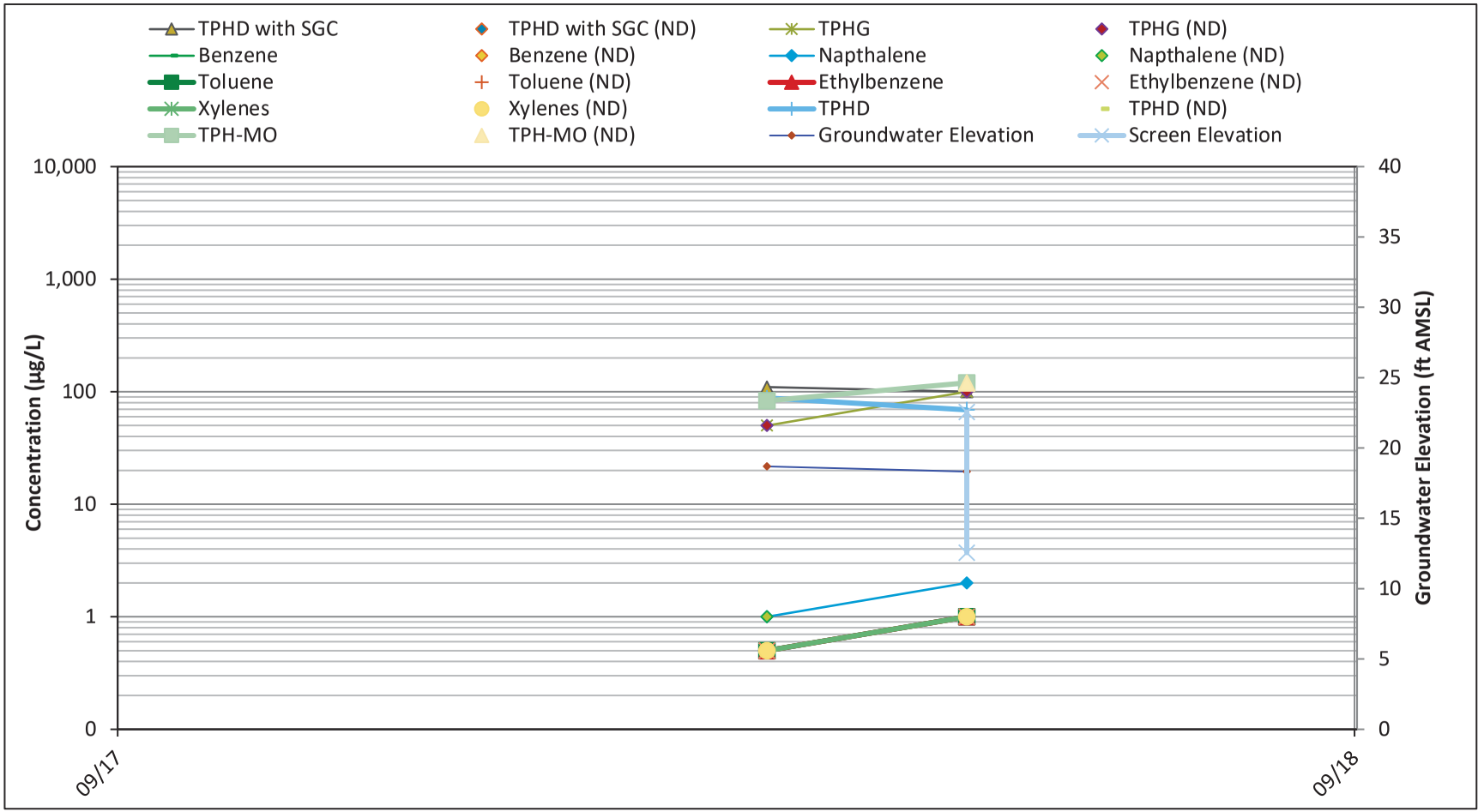
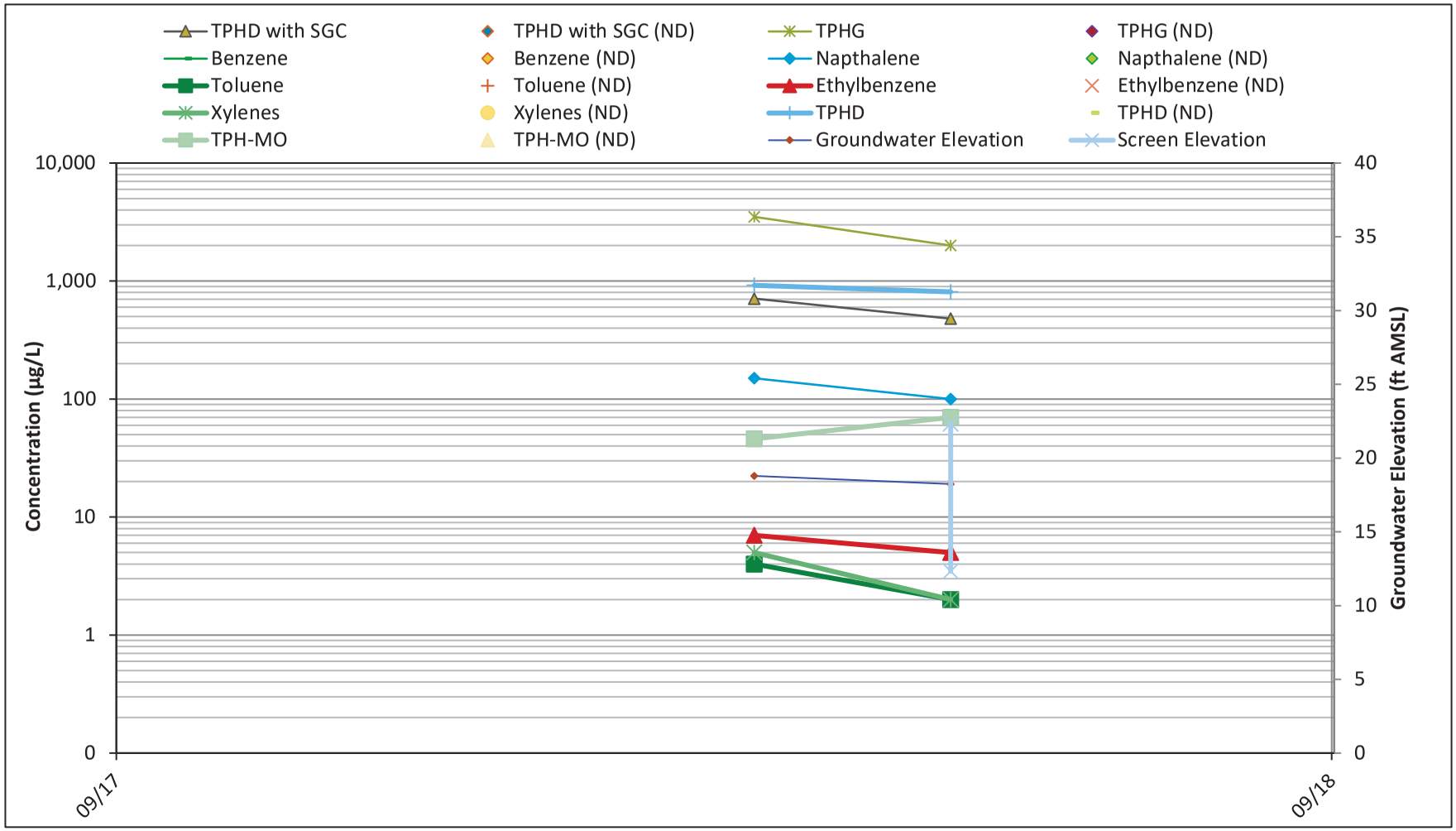
Trend Graphs

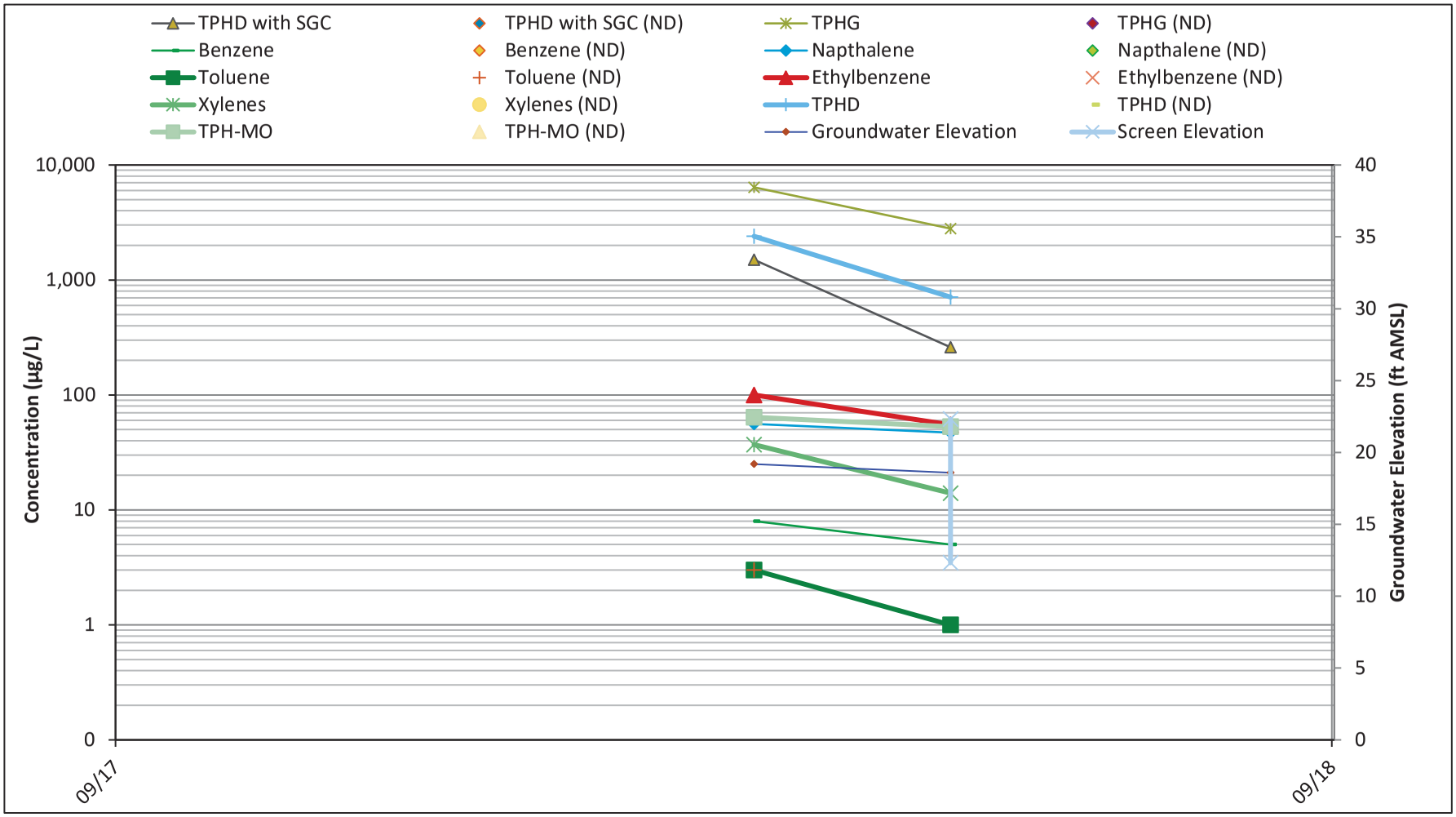
Appendix C
MW-1 Trend Graph
Former Chevron Service Station 90955
1200 Park Street
Alameda, California



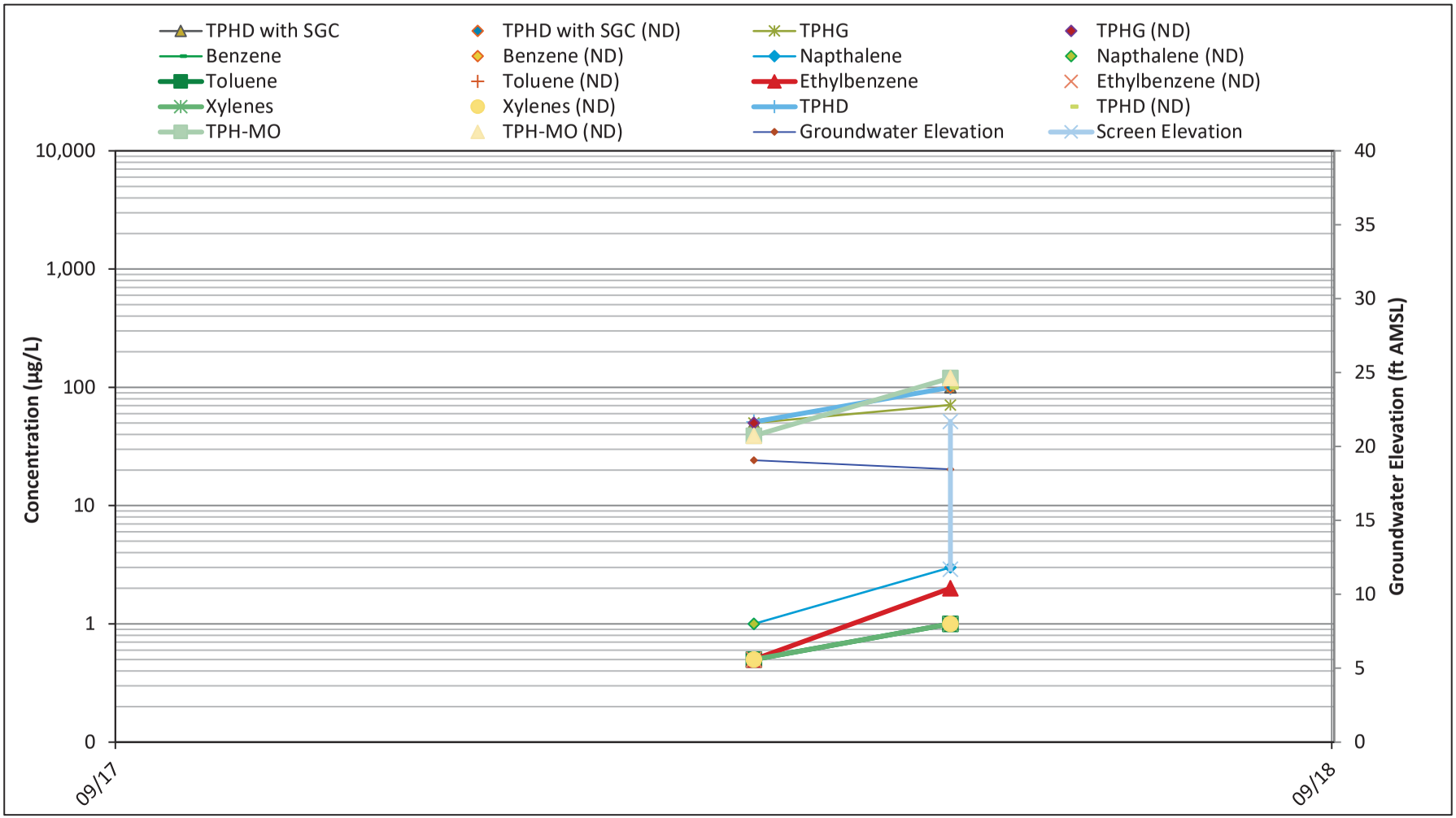
Appendix C
MW-2 Trend Graph
Former Chevron Service Station 90955
1200 Park Street
Alameda, California



Appendix C
MW-3 Trend Graph
Former Chevron Service Station 90955
1200 Park Street
Alameda, California



Appendix C
MW-4 Trend Graph
Former Chevron Service Station 90955
1200 Park Street
Alameda, California



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