Shelby Lathrop
Project Manager
Downstream Environmental
Management

Chevron Environmental Management Company
6001 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 842-4249
slathrop@chevron.com

November 5, 2018

Ms. Karel Detterman
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502

Dear Ms. Detterman:

Attached for your review is the *Third Quarter 2018 Groundwater Monitoring and Sampling Report* for

Former Chevron Service Station 90955
1200 Park Street
Alameda, CA
ACDEH Case No. RO0003230

I declare under penalty of perjury that the information and/or recommendations contained in the attached report are true and correct, to the best of my knowledge.

If you should have any further questions, please do not hesitate to contact me at (925) 842-4249.

Sincerely,

Shelby Lathrop
Project Manager

ARCADIS Design & Consultancy for natural and built assets

Chevron Environmental Management Company

THIRD QUARTER 2018 GROUNDWATER MONITORING AND SAMPLING REPORT

Former Chevron Service Station No. 90955

1200 Park Street

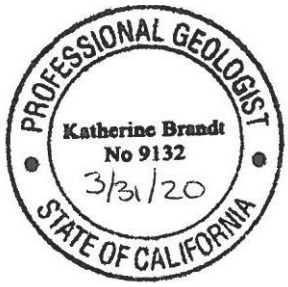
Alameda, California

ACDEH Case RO0003230

November 12, 2018

Colleen Taggart
Environmental Engineer

Katherine Szymanowski, P.G.
Project Manager



THIRD 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:

November 12, 2018

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1 INTRODUCTION

On behalf of Chevron Environmental Management Company (CEMC), Arcadis U.S., Inc. (Arcadis) prepared this Third 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 August 24, 2018 as described in this report.

2 GROUNDWATER MONITORING AND SAMPLING

Groundwater Sampling

On August 24, 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):

- Total Petroleum Hydrocarbons - Gasoline Range Organics (TPH-g) by United States Environmental Protection Agency (USEPA) Method 8015B;
- TPH - Diesel Range Organics both with and without silica gel cleanup (TPH-d w/ Si Gel and TPH-d, respectively) by USEPA Method 8015B;
- TPH - Motor Oil Range Organics (TPH-mo) by USEPA Method 8015B; and
- Benzene, toluene, ethylbenzene, and xylenes (collectively known as BTEX compounds) and naphthalene by USEPA 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, methyl tertiary-butyl ether (MTBE) was not considered a constituent of concern at this Site, and therefore not analyzed.

A letter was submitted by former consultant GHD to Alameda County Department of Environmetnal Health (ACDEH) on November 10, 2016 documenting the historical service station operations and tank contents. It has been documented the underground storage tank was used for storing gasoline only and diesel was not dispensed at the site.

Groundwater Elevation Monitoring

Depth to groundwater in each monitoring well was measured to the nearest 0.01 foot using an electronic water-level meter. Groundwater elevations ranged from 17.41 ft above mean sea level (amsl) (MW-2) to 17.62 ft amsl (MW-3) consistent with previous monitoring events. Field measurements are tabulated in Table 1 and plotted on Figure 3. Well construction details and screen interval assessments are included in Table 2.

Analytical Results

All analytical data is tabulated in Table 3. 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 0.005 ft/ft. The majority of COC mass in groundwater is encountered in MW-2 and MW-3, with the highest concentrations being of TPH-g. COC detections in MW-1 and MW-4 were minor. Isoconcentration contours for TPH-g are included in Figure 4. Concentrations trends from the date of the installation of the monitoring wells for all COCs is included in Appendix C.

Gasoline is the main 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 3).

4 REFERENCES

Gettler-Ryan Inc. 2018. Groundwater Monitoring & Sampling Report Third Quarter Event of August 29, 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.

SWRCB. 2012. Low-Threat Underground Storage Tank Case Closure Policy, August 17, Available at: https://www.waterboards.ca.gov/ust/lt_cls_plcy.html .

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
	8/24/2018	27.56	17.45	14.75	10.11	7.12	265	19.6
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
	8/24/2018	27.32	17.41	14.35	9.91	7.06	357	20.7
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
	8/24/2018	27.32	17.62	14.92	9.70	7.01	335	22.1
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
	8/24/2018	26.70	17.45	14.97	9.25	7.23	363	21.3

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
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	10.11	5-15	Current DTW is within the screen interval
MW-2	3/20/2018	Monitoring Well (active)	2	27.32	15	14.35	9.91	5-15	Current DTW is within the screen interval
MW-3	3/20/2018	Monitoring Well (active)	2	27.32	15	14.92	9.70	5-15	Current DTW is within the screen interval
MW-4	3/21/2018	Monitoring Well (active)	2	26.70	15	14.97	9.25	5-15	Current DTW is within the screen interval

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

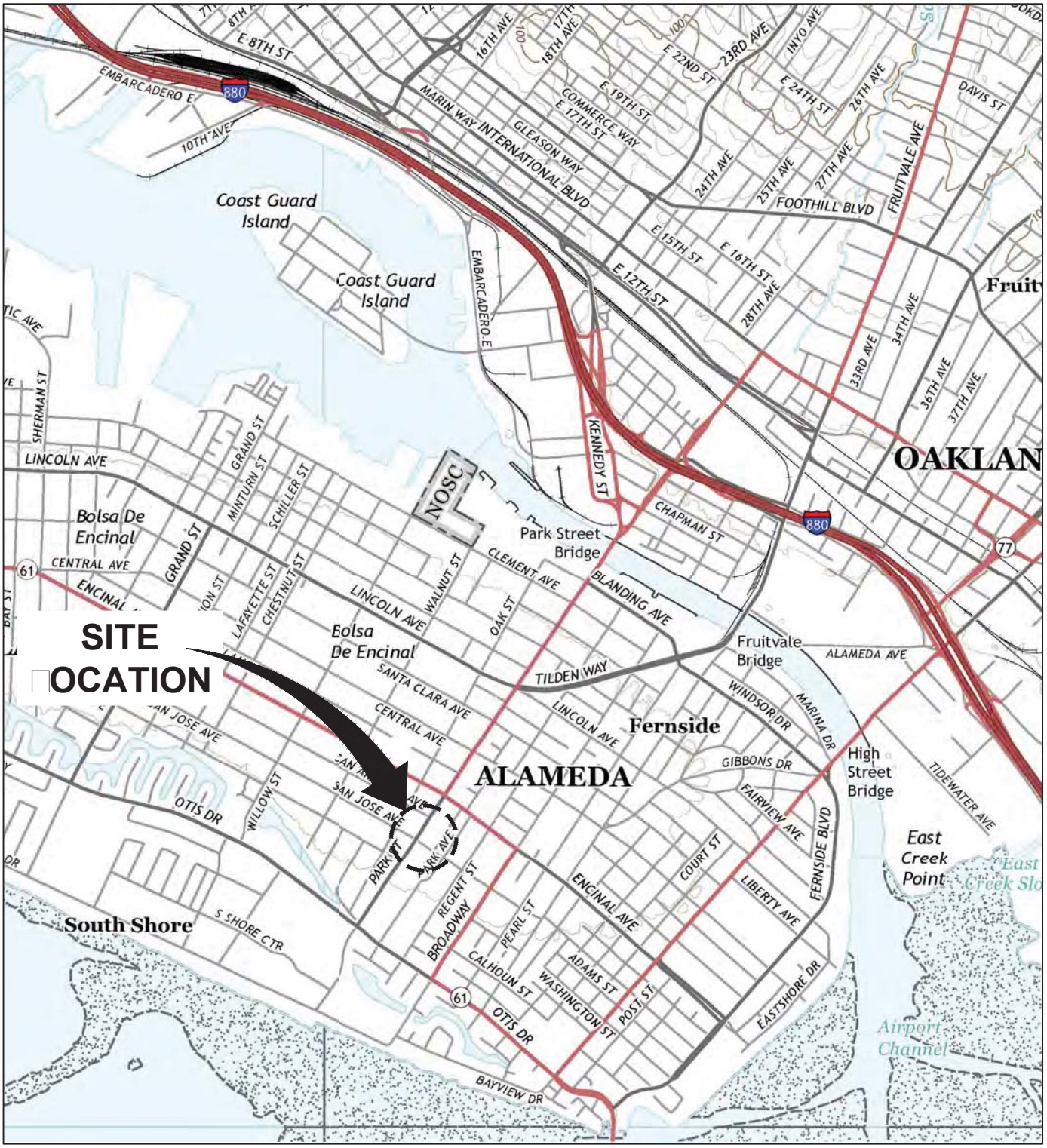
Table 3
Groundwater Monitoring Sample Data
Former Chevron Service Station 90955
1200 Park Street
Alameda, California

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
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**
	8/24/2018	<100	**230**	<100	**190**	<1	<1	<1	<5	<10
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**
	8/24/2018	**880**	**1,700**	**4,200**	**280**	**4 J**	**3 J**	**6**	**3 J**	**100**
MW-3	4/2/2018	**1,500**	**2400 J***	**6,400**	**64 J**	**8**	<3	**100**	**37**	**56**
	5/31/2018	**260**	**710**	**2,800**	**53**	**5**	**1**	**55**	**14**	**47**
	8/24/2018	**1,400**	**1,900**	**3,600**	**200**	**5**	**0.6 J**	**39**	**4 J**	<10
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**
	8/24/2018	<110	**150**	<100	**74 J**	<1	<1	<1	<5	<10

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

FIGURES



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

0 2000' 4000'

Approximate Scale: 1 in. 2000 ft.

FORMER CHEVRON STATION 90955
1200 PARK STREET
ALAMEDA, CALIFORNIA

SITE LOCATION MAP

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FIGURE 1

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

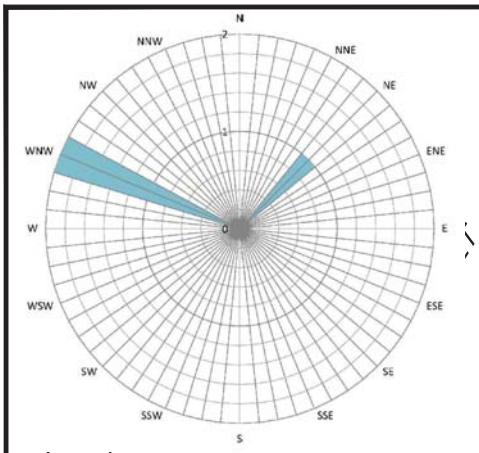
- PROPERTY BOUNDARY
- MONITORING WELL
- APPROXIMATE SOIL BORING
- APPROXIMATE HAND AUGER BORING

FORMER CHEVRON STATION 90955
1200 PARK STREET
ALAMEDA, CALIFORNIA

SITE FEATURES

ARCADIS Design & Consultancy for natural and built assets

FIGURE
2

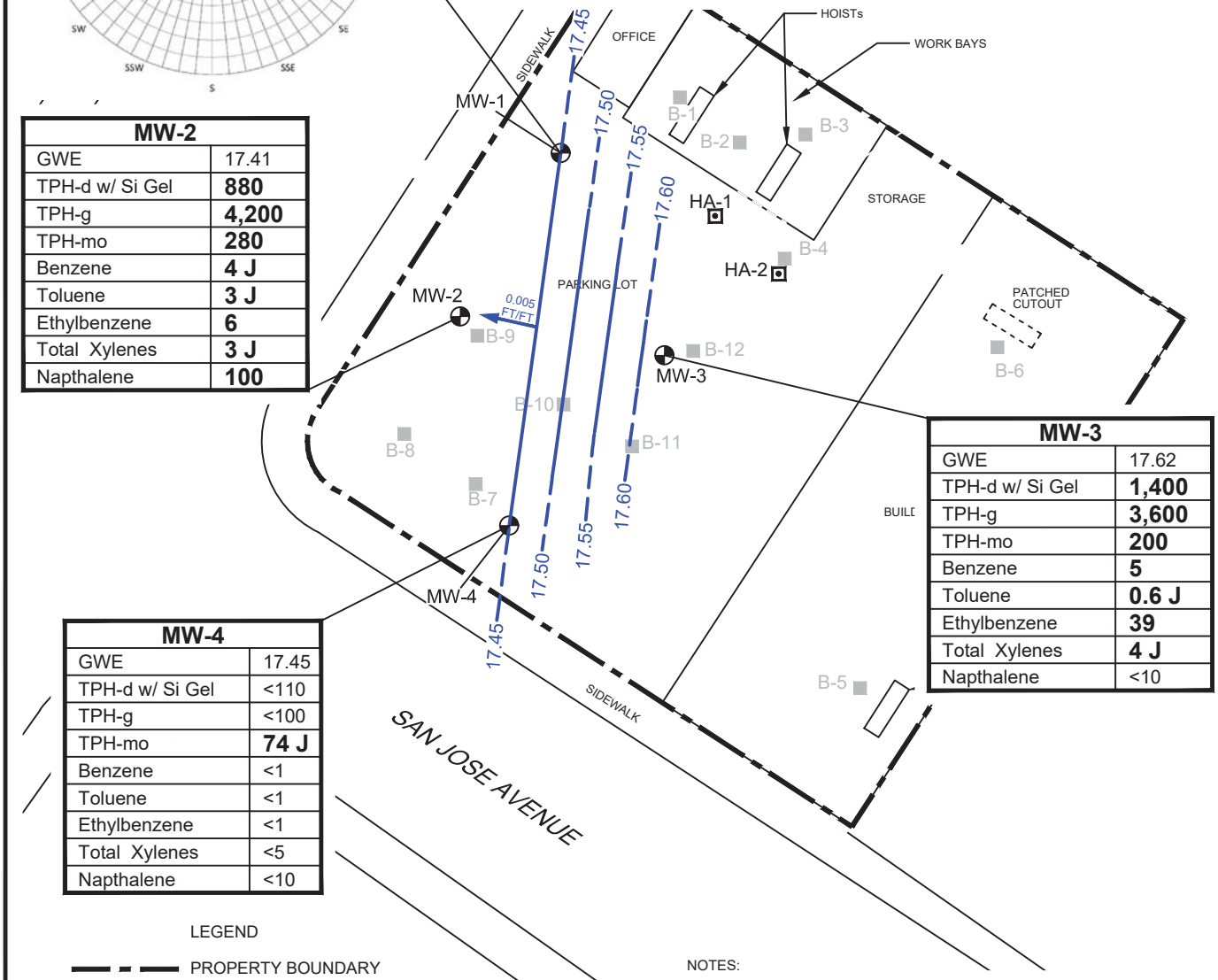


MW-1	
GWE	17.45
TPH-d w/ Si Gel	<100
TPH-g	<100
TPH-mo	**190**
Benzene	<1
Toluene	<1
Ethylbenzene	<1
Total Xylenes	<5
Napthalene	<10

MW-2	
GWE	17.41
TPH-d w/ Si Gel	**880**
TPH-g	**4,200**
TPH-mo	**280**
Benzene	**4 J**
Toluene	**3 J**
Ethylbenzene	**6**
Total Xylenes	**3 J**
Napthalene	**100**

MW-3	
GWE	17.62
TPH-d w/ Si Gel	**1,400**
TPH-g	**3,600**
TPH-mo	**200**
Benzene	**5**
Toluene	**0.6 J**
Ethylbenzene	**39**
Total Xylenes	**4 J**
Napthalene	<10

MW-4	
GWE	17.45
TPH-d w/ Si Gel	<110
TPH-g	<100
TPH-mo	**74 J**
Benzene	<1
Toluene	<1
Ethylbenzene	<1
Total Xylenes	<5
Napthalene	<10



LEGEND

- PROPERTY BOUNDARY
- MONITORING WELL
- APPROXIMATE SOIL BORING
- APPROXIMATE HAND AUGER BORING
- 17.60 GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW
- 0.005 FT/FT APPROXIMATE HYDRAULIC GRADIENT (FEET/FOOT)
- GWE GROUNDWATER ELEVATION (FEET)
- TPH-d w/ Si Gel TOTAL PETROLEUM HYDROCARBONS - DIESEL (SILICA GEL TREATMENT)
- TPH-g TOTAL PETROLEUM HYDROCARBONS - GASOLINE
- TPH-mo TOTAL PETROLEUM HYDROCARBONS - MOTOR OIL
- **BOLD** VALUE EXCEEDS LABORATORY REPORTING LIMITS
- <10 NOT DETECTED AT OR ABOVE LABORATORY METHOD DETECTION LIMIT
- J ESTIMATED VALUE

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 AUGUST 24, 2018

ARCADIS Design & Consultancy for natural and built assets

FIGURE 3

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)
- (4,200) TPH-g CONCENTRATION IN MICROGRAMS PER LITER (mg/L)
- (<100) NOT DETECTED AT OR ABOVE LABORATORY METHOD DETECTION LIMIT

FORMER CHEVRON STATION 90955
1200 PARK STREET
ALAMEDA, CALIFORNIA

TPH-g ISOCONCENTRATION MAP AUGUST 24, 2018

ARCADIS Design & Consultancy for natural and built assets

FIGURE 4

CITY: SAN RAFAEL, CA DIV/GROUP: ENVCAD DB: J. HARRIS
C:\Users\PAI01041\OneDrive - ARCADIS\BIM 360 Docs\CHEVRON CORPORATION\NCA_90955 GWR and Surveying\2018\B0090955.GW18\01-DWG\90955 - Fig 4 - GW Monitoring Sample Results.dwg LAYOUT: 4 SAVED: 11/6/2018 12:10 PM ACADVER: 21.0S (LMS TECH) PAGESETUP: ---
PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 11/6/2018 12:11 PM BY: ANJANEYAKUMAR, PAVAN KUMAR
XREFS:
90955 - X-Base

ARCADIS Design & Consultancy for natural and built assets

Groundwater Sampling Field Forms

GETTLER-RYAN INC.

TRANSMITTAL

August 29, 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 **Third Quarter Event of August 24, 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 Job #: 17155916

Site Address: 1200 Park Street Event Date: 8-24-18

City: Alameda, CA 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-1	OK	—	—	—	—	—	→	N	N	Emco/8"/2	N
MW-2	OK	—	—	—	—	—	→	↓	↓	↓	↓
MW-3	OK	—	—	—	—	—	—	↓	↓	↓	↓
MW-4	OK	—	—	—	—	—	→	↓	↓	Emco/8"/2	↓

DRUMS PRESENT ONSITE? Y (N) #: — ARE DRUMS PROPERLY LABELED? Y / N — LOCATION OF DRUMS: —

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 #9-0955 Job Number: 17155916
Site Address: 1200 Park Street Event Date: 8-24-18 (inclusive)
City: Alameda, CA Sampler: AW

Well ID MW- 1 Date Monitored: 8-24-18
Well Diameter 2 in.
Total Depth 14.75 ft.
Depth to Water 10.11 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

4.64 xVF — = — x3 case volume = Estimated Purge Volume: — gal.

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

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

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: Cloudy
Sample Time/Date: 0835 / 8-24-18 Water Color: Cloudy Odor: Y / N
Approx. Flow Rate: 200 ml/pm. Sediment Description: Cloudy
Did well de-water? N If yes, Time: — Volume: — ltr. DTW @ Sampling: 10.23

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (mS / µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
0808	3.6	7.08	262	19.5			10.16
0811	4.2	7.11	263	19.6			10.20
0814	4.8	7.12	265	19.6			10.23

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)
	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: ~ 12.5 ft.
* Roots in well.

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: 8/24/18 (inclusive)
City: Alameda, CA Sampler: AW

Well ID MW-2 Date Monitored: 8-24-18
Well Diameter 2 in.
Total Depth 14.35 ft.
Depth to Water 9.91 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.

4.44 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): 0850 Weather Conditions: Cloudy
Sample Time/Date: 0935 / 8-24-18 Water Color: Cloudy Odor (Y) / N / moderate
Approx. Flow Rate: 200 m lpm. Sediment Description: Cloudy
Did well de-water? N If yes, Time: — Volume: — ltr. DTW @ Sampling: 10.00

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
0908	3.6	7.13	368	20.6			9.94
0911	4.2	7.09	362	20.7			4.99
0914	4.8	7.06	357	20.7			10.00

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: ~12.0 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 #9-0955 | Job Number: 17155916
Site Address: 1200 Park Street | Event Date: 8-24-18 (inclusive)
City: Alameda, CA | Sampler: AW

Well ID: MW-3 | Date Monitored: 8-24-18
Well Diameter: 2 in.
Total Depth: 14.92 ft.
Depth to Water: 9.70 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.

5.22 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): 0950 | Weather Conditions: Cloudy
Sample Time/Date: 1040 / 8-24-18 | Water Color: Cloudy | Odor: (Y) / N Slight
Approx. Flow Rate: 200 ml/pm. | Sediment Description: / Cloudy
Did well de-water? N | If yes, Time: — | Volume: — ltr. | DTW @ Sampling: 9.83

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (mS / µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
1008	3.6	6.98	328	22.0	/	/	9.77
1011	4.2	7.00	333	22.1	/	/	9.80
1014	4.8	7.01	335	22.1	/	/	9.83

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)
	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: ~ 120 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 #9-0955 Job Number: 17155916
Site Address: 1200 Park Street Event Date: 8-24-18 (inclusive)
City: Alameda, CA Sampler: AV

Well ID MW-4 Date Monitored: 8-24-18
Well Diameter 2 in.
Total Depth 14.97 ft.
Depth to Water 9.25 ft.

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

☐ Check if water column is less then 0.50 ft.

5.72 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): 0655 Weather Conditions: Cloudy
Sample Time/Date: 0740 / 8-24-18 Water Color: Cloudy Odor: Y / (N)
Approx. Flow Rate: 200 ml/min lpm. Sediment Description: Cloudy
Did well de-water? N If yes, Time: — Volume: — ltr. DTW @ Sampling: 9.38

Time (2400 hr)	Volume (Liters)	pH	Conductivity (µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
0713	3.6	7.18	355	21.2			9.29
0716	4.2	7.21	359	21.3			9.33
0719	4.8	7.23	363	21.3			9.38

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)
	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: ~11.5ft.

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

Chevron California Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

IL-544
Q82418-01

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 Global ID#T10000009401 WBS
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 Alex W.

4 Matrix

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

5 Analyses Requested

2 Sample Identification	Soil Depth	Collected Date	Collected Time	3 Grab	Composite	Total Number of Containers	BTEX ☒ MTBE ☐ 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 (8270)	TPH-MO (8015)
QA		180824		X		2	X	X								
mw-1		180824	0835	X		10	X	X	X	X					X	X
mw-2		180824	0955	X		10	X	X	X	X					X	X
mw-3		180824	1040	X		10	X	X	X	X					X	X
mw-4		180824	1140	X		10	X	X	X	X					X	X

6 Remarks

- ☐ 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

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
	180824	1130	Ce. Lofton 24	AUG18	1130
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by Commercial Carrier: UPS ____ FedEx ____ Other ____			Received by	Date	Time

8 Data Package (circle if required)

Type I - Full
Type VI (Raw Data)

EDD (circle if required)

EDFFLAT (default)
Other: _____

Temperature Upon Receipt _____ °C

Custody Seals Intact? Yes No

9

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: September 27, 2018 14:43

Project: 90955

Account #: 11928
Group Number: 1980496
PO Number: 0015269765
Release Number: CMACLEOD
State of Sample Origin: CA

Electronic Copy To	ARCADIS	Attn: Katherine Szymanowski
Electronic Copy To	ARCADIS	Attn: Colleen Taggart

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

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.

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SAMPLE INFORMATION

Client Sample Description	Sample Collection Date/Time	ELLE#
QA-T-180824 NA Water	08/24/2018	9772970
MW-1-W-180824 Grab Groundwater	08/24/2018 08:35	9772971
MW-2-W-180824 Grab Groundwater	08/24/2018 09:35	9772972
MW-3-W-180824 Grab Groundwater	08/24/2018 10:40	9772973
MW-4-W-180824 Grab Groundwater	08/24/2018 07:40	9772974

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

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Analysis Report

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Sample Description: **QA-T-180824 NA Water**
Facility# 90955 Job# 17155916 GRD
1200 Park Street-Alameda T10000009401

Chevron
ELLE Sample #: WW 9772970
ELLE Group #: 1980496
Matrix: Water

Project Name: **90955**

Submittal Date/Time: 08/25/2018 10:05
Collection Date/Time: 08/24/2018

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.	0.2	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.2	1	1
10945	Toluene	108-88-3	N.D.	0.2	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	17	100	1

Sample Comments

CA ELAP Lab Certification No. 2792

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	F182431AA	08/31/2018 13:29	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F182431AA	08/31/2018 13:29	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	18239B20A	08/28/2018 20:01	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	18239B20A	08/28/2018 20:01	Jeremy C Giffin	1

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

REVISED

Sample Description: **MW-1-W-180824 Grab Groundwater**
Facility# 90955 Job# 17155916 GRD
1200 Park Street-Alameda T10000009401

Chevron
ELLE Sample #: WW 9772971
ELLE Group #: 1980496
Matrix: Groundwater

Project Name: **90955**

Submittal Date/Time: 08/25/2018 10:05
Collection Date/Time: 08/24/2018 08:35

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.	0.2	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.2	1	1
10945	Naphthalene	91-20-3	N.D.	4	10	1
10945	Toluene	108-88-3	N.D.	0.2	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	17	100	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
06609	TPH-DRO CA C10-C28	n.a.	230	52	100	1
	Total DRO was detected in the method blank associated with the samples as noted on the QC Summary in the amount of 61 ug/l (LOQ 100; MDL 50).					
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**ug/l**	**ug/l**	**ug/l**	
02500	Total TPH	n.a.	190	38	120	1
02500	TPH Motor Oil C16-C36	n.a.	190	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.	N.D.	50	100	1
	The reverse surrogate, capric acid, is present at <1%.					

Sample Comments

CA ELAP Lab Certification No. 2792

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	F182431AA	08/31/2018 19:45	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F182431AA	08/31/2018 19:45	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	18239B20A	08/28/2018 23:43	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	18239B20A	08/28/2018 23:43	Jeremy C Giffin	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	182390004A	08/30/2018 19:51	Thomas C Wildermuth	1
02500	TPH Fuels by GC (Waters)	SW-846 8015B modified	1	182420022A	09/04/2018 14:32	Timothy M Emrick	1

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

REVISED

Sample Description: **MW-1-W-180824 Grab Groundwater**
Facility# 90955 Job# 17155916 GRD
1200 Park Street-Alameda T10000009401

Chevron
ELLE Sample #: WW 9772971
ELLE Group #: 1980496
Matrix: Groundwater

Project Name: **90955**

Submittal Date/Time: 08/25/2018 10:05
Collection Date/Time: 08/24/2018 08:35

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	182390003A	09/04/2018 18:57	Thomas C Wildermuth	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	182390004A	08/28/2018 02:30	Sherry L Morrow	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	182390003A	08/28/2018 02:30	Sherry L Morrow	1
11191	TPH Fuels Waters Extraction	SW-846 3510C	1	182420022A	08/30/2018 19:00	Ryan J Dowdy	1

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

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Analysis Report

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Sample Description: **MW-2-W-180824 Grab Groundwater**
Facility# 90955 Job# 17155916 GRD
1200 Park Street-Alameda T10000009401

Chevron
ELLE Sample #: WW 9772972
ELLE Group #: 1980496
Matrix: Groundwater

Project Name: **90955**

Submittal Date/Time: 08/25/2018 10:05
Collection Date/Time: 08/24/2018 09:35

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	4 J	1	5	5
10945	Ethylbenzene	100-41-4	6	1	5	5
10945	Naphthalene	91-20-3	100	20	50	5
10945	Toluene	108-88-3	3 J	1	5	5
10945	Xylene (Total)	1330-20-7	3 J	3	25	5
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	4,200	85	500	5
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
06609	TPH-DRO CA C10-C28	n.a.	1,700	52	100	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**ug/l**	**ug/l**	**ug/l**	
02500	Total TPH	n.a.	280	38	110	1
02500	TPH Motor Oil C16-C36	n.a.	280	38	110	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.	880	50	100	1
	The reverse surrogate, capric acid, is present at <1%.					

Sample Comments

CA ELAP Lab Certification No. 2792

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	F182431AA	08/31/2018 20:07	Daniel H Heller	5
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F182431AA	08/31/2018 20:07	Daniel H Heller	5
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	18242A20A	09/01/2018 01:23	Marie D Beamenderfer	5
01146	GC VOA Water Prep	SW-846 5030B	1	18242A20A	09/01/2018 01:23	Marie D Beamenderfer	5
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	182390004A	08/30/2018 20:13	Thomas C Wildermuth	1
02500	TPH Fuels by GC (Waters)	SW-846 8015B modified	1	182420022A	09/04/2018 13:49	Timothy M Emrick	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	182390003A	09/04/2018 19:19	Thomas C Wildermuth	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	182390004A	08/28/2018 02:30	Sherry L Morrow	1

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

REVISED

Sample Description: **MW-2-W-180824 Grab Groundwater**
Facility# 90955 Job# 17155916 GRD
1200 Park Street-Alameda T10000009401

Chevron
ELLE Sample #: WW 9772972
ELLE Group #: 1980496
Matrix: Groundwater

Project Name: **90955**

Submittal Date/Time: 08/25/2018 10:05
Collection Date/Time: 08/24/2018 09:35

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	182390003A	08/28/2018 02:30	Sherry L Morrow	1
11191	TPH Fuels Waters Extraction	SW-846 3510C	1	182420022A	08/30/2018 19:00	Ryan J Dowdy	1

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

REVISED

Sample Description: **MW-3-W-180824 Grab Groundwater**
Facility# 90955 Job# 17155916 GRD
1200 Park Street-Alameda T10000009401

Chevron
ELLE Sample #: WW 9772973
ELLE Group #: 1980496
Matrix: Groundwater

Project Name: **90955**

Submittal Date/Time: 08/25/2018 10:05
Collection Date/Time: 08/24/2018 10:40

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	0.2	1	1
10945	Ethylbenzene	100-41-4	39	0.2	1	1
10945	Naphthalene	91-20-3	N.D.	4	10	1
10945	Toluene	108-88-3	0.6 J	0.2	1	1
10945	Xylene (Total)	1330-20-7	4 J	0.5	5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	3,600	17	100	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
06609	TPH-DRO CA C10-C28	n.a.	1,900	51	100	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**ug/l**	**ug/l**	**ug/l**	
02500	Total TPH	n.a.	200	38	120	1
02500	TPH Motor Oil C16-C36	n.a.	200	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.	1,400	50	100	1
	The reverse surrogate, capric acid, is present at <1%.					

Sample Comments

CA ELAP Lab Certification No. 2792

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	F182431AA	08/31/2018 20:29	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F182431AA	08/31/2018 20:29	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	18239B20A	08/29/2018 00:39	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	18239B20A	08/29/2018 00:39	Jeremy C Giffin	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	182390004A	08/30/2018 20:34	Thomas C Wildermuth	1
02500	TPH Fuels by GC (Waters)	SW-846 8015B modified	1	182420022A	09/04/2018 14:11	Timothy M Emrick	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	182390003A	09/04/2018 19:41	Thomas C Wildermuth	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	182390004A	08/28/2018 02:30	Sherry L Morrow	1

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

REVISED

Sample Description: **MW-3-W-180824 Grab Groundwater**
Facility# 90955 Job# 17155916 GRD
1200 Park Street-Alameda T10000009401

Chevron
ELLE Sample #: WW 9772973
ELLE Group #: 1980496
Matrix: Groundwater

Project Name: **90955**

Submittal Date/Time: 08/25/2018 10:05
Collection Date/Time: 08/24/2018 10:40

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	182390003A	08/28/2018 02:30	Sherry L Morrow	1
11191	TPH Fuels Waters Extraction	SW-846 3510C	1	182420022A	08/30/2018 19:00	Ryan J Dowdy	1

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

REVISED

Sample Description: **MW-4-W-180824 Grab Groundwater**
Facility# 90955 Job# 17155916 GRD
1200 Park Street-Alameda T10000009401

Chevron
ELLE Sample #: WW 9772974
ELLE Group #: 1980496
Matrix: Groundwater

Project Name: **90955**

Submittal Date/Time: 08/25/2018 10:05
Collection Date/Time: 08/24/2018 07:40

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.		0.2	1	1
10945	Ethylbenzene	100-41-4	N.D.		0.2	1	1
10945	Naphthalene	91-20-3	N.D.		4	10	1
10945	Toluene	108-88-3	N.D.		0.2	1	1
10945	Xylene (Total)	1330-20-7	N.D.		0.5	5	1
GC Volatiles	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.		17	100	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	
06609	TPH-DRO CA C10-C28	n.a.	150		53	110	1
	Total DRO was detected in the method blank associated with the samples as noted on the QC Summary in the amount of 61 ug/l (LOQ 100; MDL 50).						
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**ug/l**		**ug/l**	**ug/l**	
02500	Total TPH	n.a.	74	J	38	110	1
02500	TPH Motor Oil C16-C36	n.a.	74	J	38	110	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	110	1
	The reverse surrogate, capric acid, is present at <1%.						

Sample Comments

CA ELAP Lab Certification No. 2792

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	F182431AA	08/31/2018 20:51	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F182431AA	08/31/2018 20:51	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	18239B20A	08/29/2018 01:06	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	18239B20A	08/29/2018 01:06	Jeremy C Giffin	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	182390004A	08/30/2018 20:56	Thomas C Wildermuth	1
02500	TPH Fuels by GC (Waters)	SW-846 8015B modified	1	182420022A	09/04/2018 13:27	Timothy M Emrick	1

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

REVISED

Sample Description: **MW-4-W-180824 Grab Groundwater**
Facility# 90955 Job# 17155916 GRD
1200 Park Street-Alameda T10000009401

Chevron
ELLE Sample #: WW 9772974
ELLE Group #: 1980496
Matrix: Groundwater

Project Name: **90955**

Submittal Date/Time: 08/25/2018 10:05
Collection Date/Time: 08/24/2018 07:40

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	182390003A	09/04/2018 20:03	Thomas C Wildermuth	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	182390004A	08/28/2018 02:30	Sherry L Morrow	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	182390003A	08/28/2018 02:30	Sherry L Morrow	1
11191	TPH Fuels Waters Extraction	SW-846 3510C	1	182420022A	08/30/2018 19:00	Ryan J Dowdy	1

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

REVISED

Quality Control Summary

Client Name: Chevron
Reported: 09/27/2018 14:43

Group Number: 1980496

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: F182431AA	Sample number(s): 9772970-9772974		
Benzene	N.D.	0.2	1
Ethylbenzene	N.D.	0.2	1
Naphthalene	N.D.	4	10
Toluene	N.D.	0.2	1
Xylene (Total)	N.D.	0.5	5
Batch number: 18239B20A	Sample number(s): 9772970-9772971,9772973-9772974		
TPH-GRO N. CA water C6-C12	N.D.	17	100
Batch number: 18242A20A	Sample number(s): 9772972		
TPH-GRO N. CA water C6-C12	N.D.	17	100
Batch number: 182390004A	Sample number(s): 9772971-9772974		
TPH-DRO CA C10-C28	61 J	50	100
Batch number: 182420022A	Sample number(s): 9772971-9772974		
Total TPH	N.D.	40	120
TPH Motor Oil C16-C36	N.D.	40	120
Batch number: 182390003A	Sample number(s): 9772971-9772974		
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: F182431AA	Sample number(s): 9772970-9772974								
Benzene	20	19.98	20	19.63	100	98	80-120	2	30
Ethylbenzene	20	19.76	20	19.92	99	100	80-120	1	30
Naphthalene	20	18.66	20	18.39	93	92	53-124	1	30
Toluene	20	20.6	20	19.52	103	98	80-120	5	30
Xylene (Total)	60	59.25	60	60.02	99	100	80-120	1	30
	ug/l	ug/l	ug/l	ug/l					
Batch number: 18239B20A	Sample number(s): 9772970-9772971,9772973-9772974								
TPH-GRO N. CA water C6-C12	1100	1086.7	1100	1095.16	99	100	74-120	1	30

*- 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.

REVISED

Quality Control Summary

Client Name: Chevron
Reported: 09/27/2018 14:43

Group Number: 1980496

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: 18242A20A	Sample number(s): 9772972								
TPH-GRO N. CA water C6-C12	1100	1069.25	1100	1050.97	97	96	74-120	2	30
	ug/l	**ug/l**	**ug/l**	**ug/l**					
Batch number: 182390004A	Sample number(s): 9772971-9772974								
TPH-DRO CA C10-C28	1605.97	1520.01	1605.97	1418.59	95	88	53-115	7	20
Batch number: 182420022A	Sample number(s): 9772971-9772974								
Total TPH	802.98	615.81	802.98	685.69	77	85	44-115	11	20
	ug/l	**ug/l**	**ug/l**	**ug/l**					
Batch number: 182390003A	Sample number(s): 9772971-9772974								
TPH-DRO CA C10-C28 w/ Si Gel	1605.97	1329.5	1605.97	1158.41	83	72	40-105	14	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: BTEX & Naphthalene 8260B
Batch number: F182431AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9772970	96	96	95	102
9772971	96	97	100	95
9772972	96	96	99	100
9772973	95	97	101	101
9772974	99	96	100	97
Blank	97	99	100	96
LCS	96	102	99	99
LCSD	95	95	96	99
Limits:	80-120	80-120	80-120	80-120

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 18239B20A

	Trifluorotoluene-F
9772970	89
9772971	85
9772973	112
9772974	85
Blank	87
LCS	96

*- 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.

REVISED

Quality Control Summary

Client Name: Chevron
Reported: 09/27/2018 14:43

Group Number: 1980496

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: 18239B20A

	Trifluorotoluene-F
LCSD	98
Limits:	63-135

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 18242A20A

	Trifluorotoluene-F
9772972	95
Blank	88
LCS	101
LCSD	100
Limits:	63-135

Analysis Name: TPH-DRO CA C10-C28 w/ Si Gel
Batch number: 182390003A

	Orthoterphenyl
9772971	65
9772972	66
9772973	68
9772974	57
Blank	75
LCS	85
LCSD	73
Limits:	47-115

Analysis Name: TPH-DRO CA C10-C28
Batch number: 182390004A

	Orthoterphenyl
9772971	82
9772972	95
9772973	93
9772974	80
Blank	95
LCS	99
LCSD	95
Limits:	50-124

Analysis Name: TPH Fuels by GC (Waters)
Batch number: 182420022A

*- 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.

REVISED

Quality Control Summary

Client Name: Chevron
Reported: 09/27/2018 14:43

Group Number: 1980496

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 Fuels by GC (Waters)
Batch number: 182420022A

	Chlorobenzene	Orthoterphenyl
9772971	66	64
9772972	103	84
9772973	109	95
9772974	71	76
Blank	72	85
LCS	69	85
LCSD	76	95
Limits:	43-121	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

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IL-544
Ø82418-Ø1

Acct. # 11928 For Eurofins Lancaster Laboratories use only Group # 498496 Sample # 477970-4
Instructions on reverse side correspond with circled numbers.

1 Client Information

Facility # SS#9-0955-OML G-R#17155916 Global ID#T10000009401 WBS
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 Alex W.

4 Matrix

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

5 Analyses Requested

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	Composite	Total Number of Containers	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	Dissolved Lead	NAPHTHALENE (8260)	TPH-MO (8015)
QA		180824		X		2	X	X								
MW-1		180824	0835	X		10	X	X	X	X					X	X
MW-2		180824	0935	X		10	X	X	X	X					X	X
MW-3		180824	1040	X		10	X	X	X	X					X	X
MW-4		180824	0740	X		10	X	X	X	X					X	X

6 Remarks

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
	180824	1130	A. Szilyan 24	AUG18	1134
Relinquished by	Date	Time	Received by	Date	Time
A. Szilyan 24	AUG18	1636	FX		
Relinquished by Commercial Carrier: UPS ____ FedEx ____ Other ____			Received by	Date	Time
			E Jones	8-25-18	1085
Temperature Upon Receipt 0.7-1.0°C			Custody Seals Intact? (Yes) No		

8 Data Package (circle if required)
Type I - Full
Type VI (Raw Data)

EDD (circle if required)
EDFFLAT (default)
Other: _____

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Sample Administration Receipt Documentation Log

Doc Log ID: 225258

Group Number(s): 1980496

Client: CA Office

Delivery and Receipt Information

Delivery Method:	BASC	Arrival Timestamp:	08/25/2018 10:05
Number of Packages:	2	Number of Projects:	2
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:	Yes
Samples Chilled:	Yes	VOA IDs (≥ 6mm):	See Below
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	2
Samples Intact:	Yes	Trip Blank Type:	HCl
Missing Samples:	No	Air Quality Samples Present:	No
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

VOA Vial IDs (Headspace ≥ 6mm): QA (1 of 2)

Unpacked by Melvin Sanchez (8943) at 11:56 on 08/25/2018

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	DT131	1.0	DT	Wet	Y	Bagged	N
2	DT131	0.7	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425

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

Explanation of Symbols and Abbreviations

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

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.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Data Qualifiers

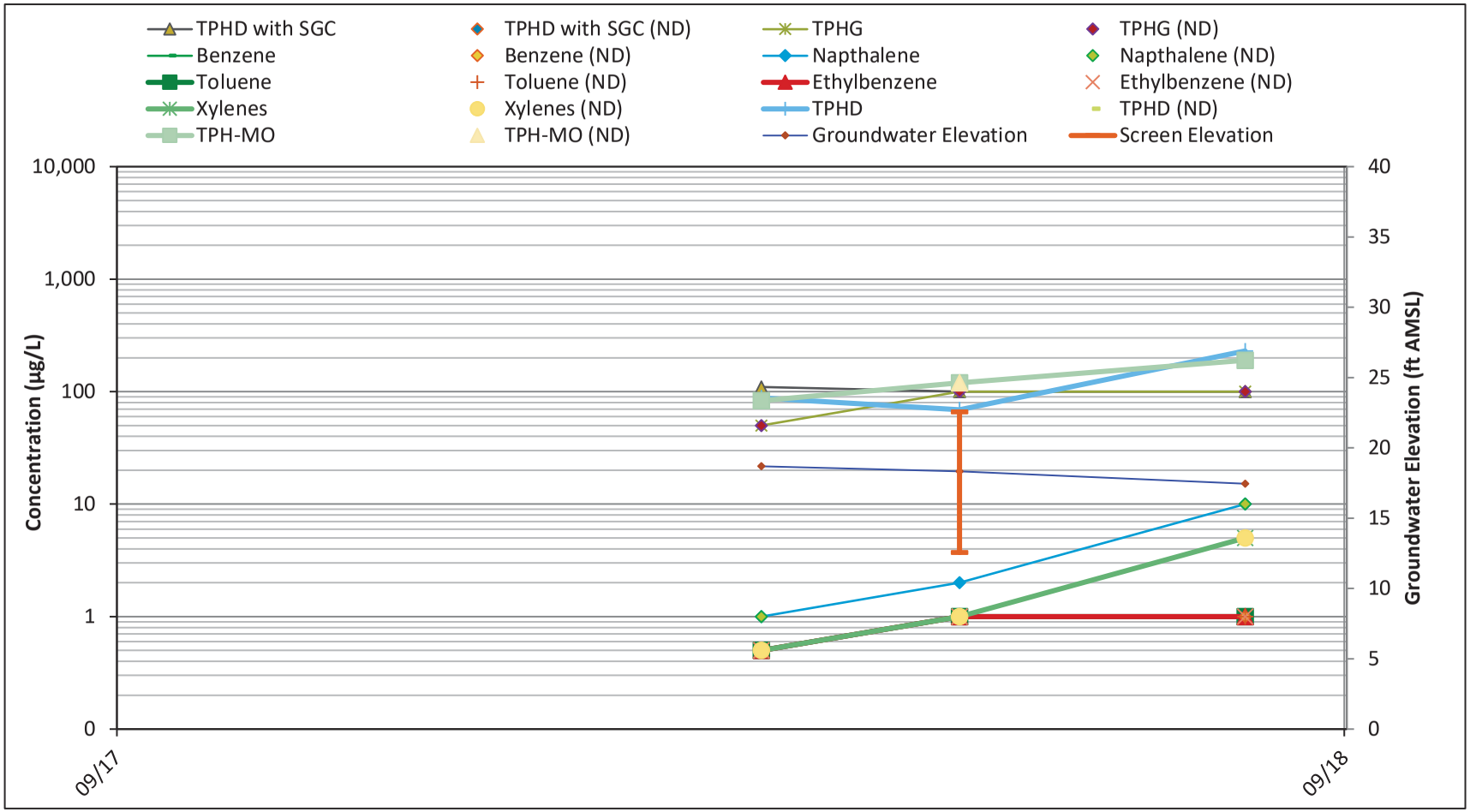
Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the 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.
P^	Concentration difference between the primary and confirmation column > 40%. The higher 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.

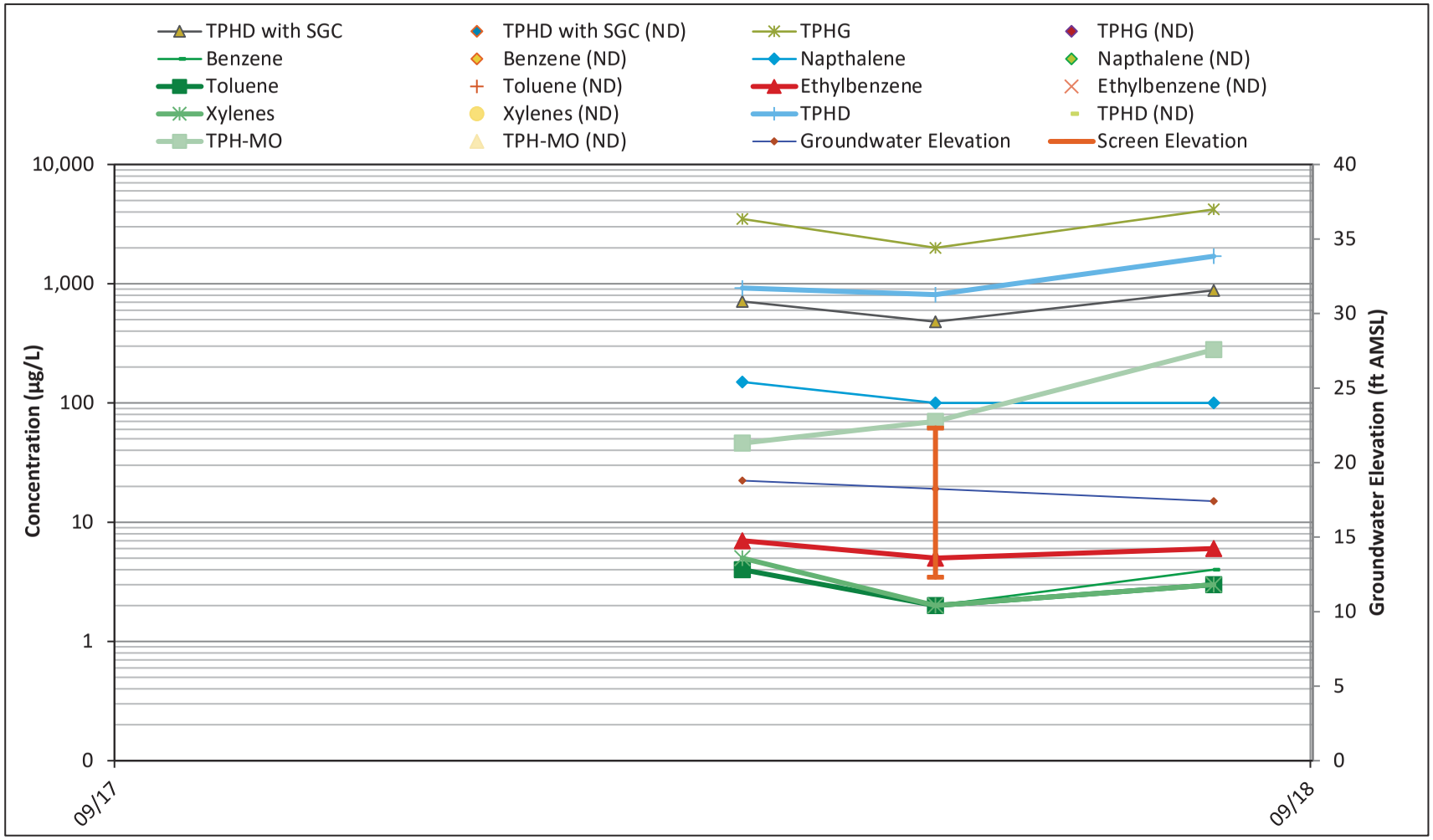
ARCADIS Design & Consultancy for natural and built assets

Trend Graphs

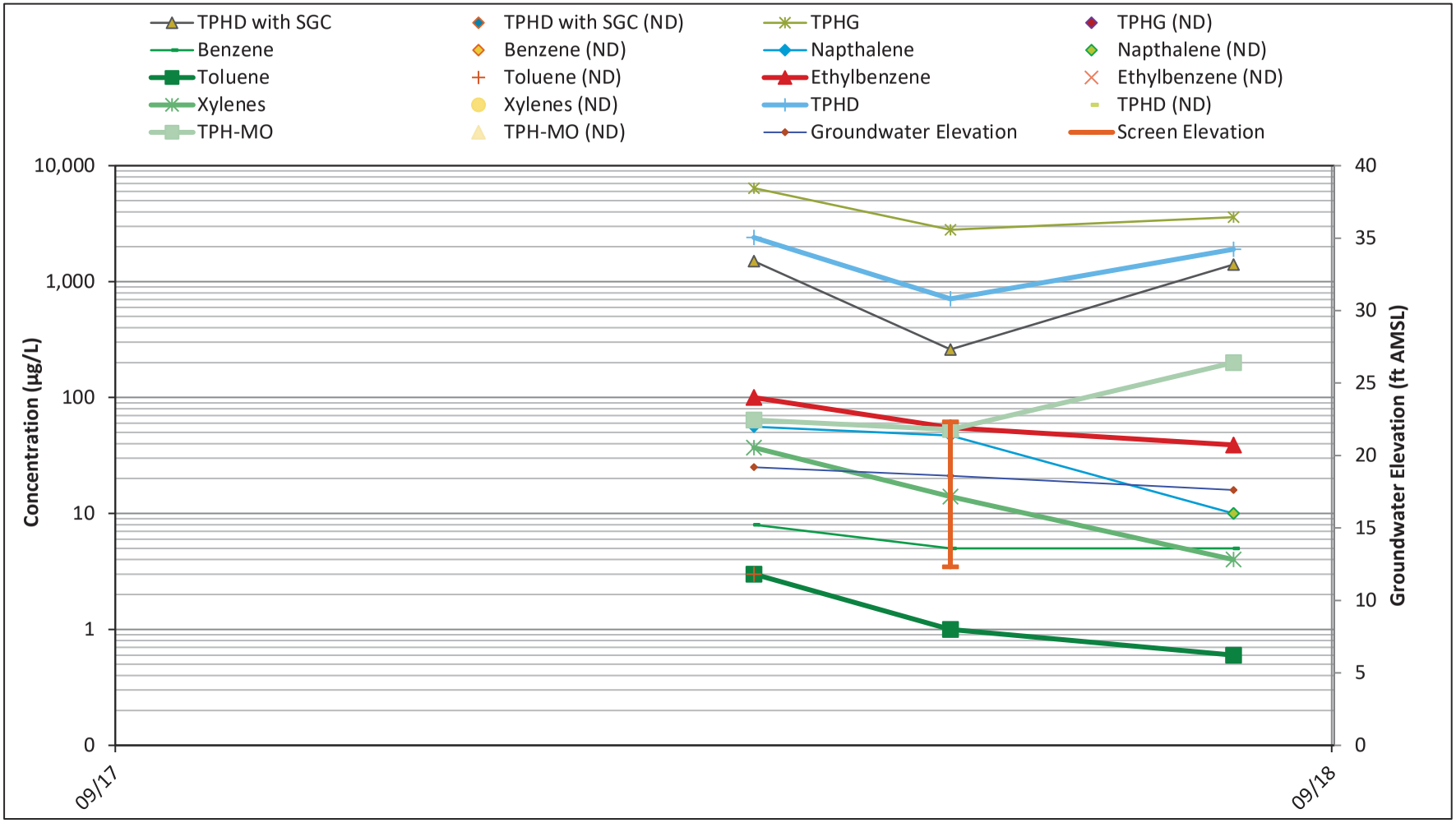
Appendix C
MW-1 Trend Graph
Former Chevron Service Station 90955
1200 Park Street
Alameda, California



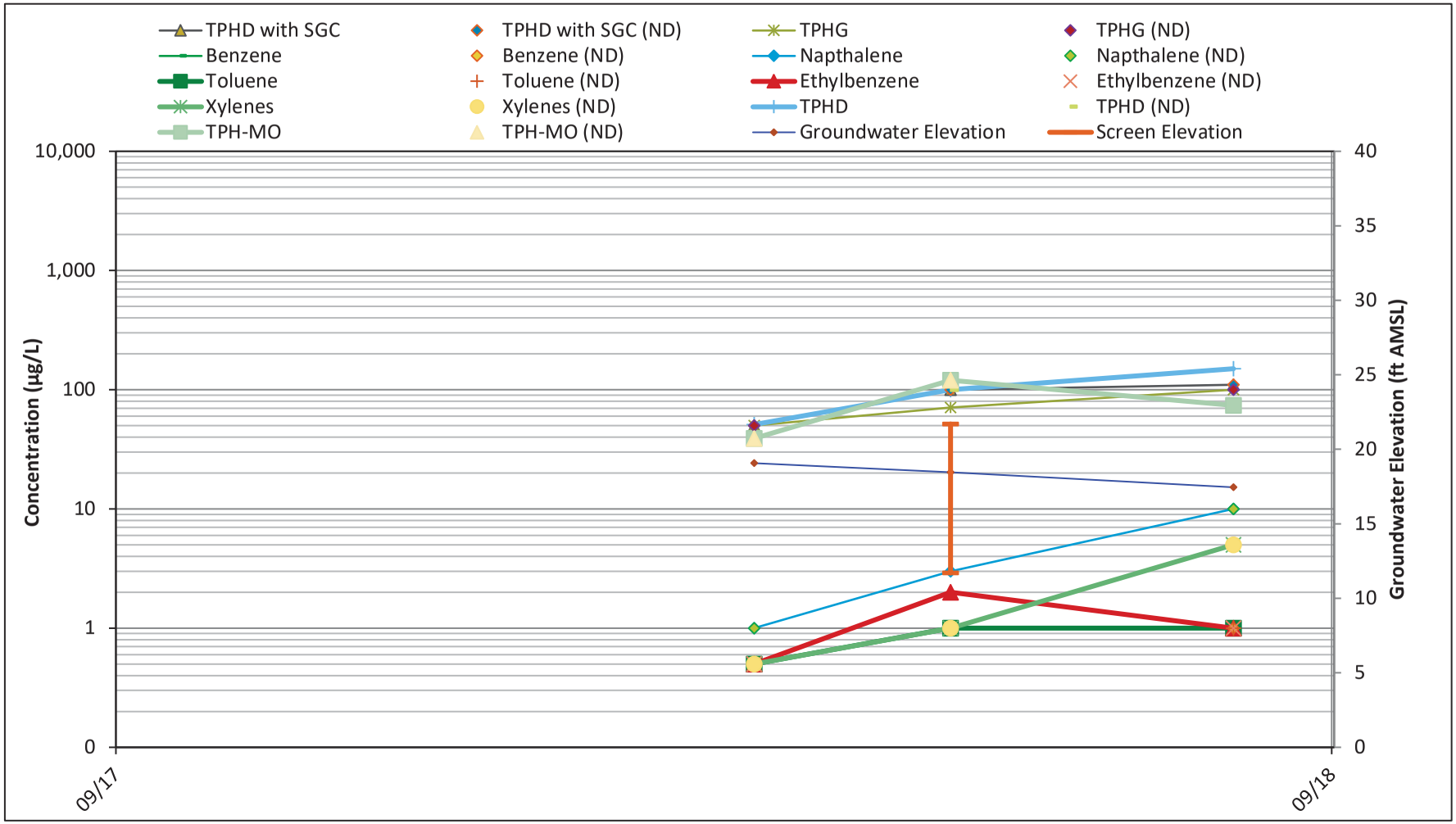
Appendix C
MW-2 Trend Graph
Former Chevron Service Station 90955
1200 Park Street
Alameda, California



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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