ARCADIS
Infrastructure · Water · Environment · Buildings

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ARCADIS U.S., Inc.

Mr. Mark Detterman
Alameda County Health Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

ENVIRONMENT

Subject:
Second Semiannual 2015 Groundwater Monitoring Report

Date:
October 6, 2015

Dear Mr. Detterman:

On behalf of Chevron Environmental Management Company, ARCADIS U.S., Inc (ARCADIS) is pleased to submit the enclosed Second Semiannual 2015 Groundwater Monitoring Report for the following facility:

Facility No.	**Case No.**	**Location**
20-6265	*RO0002535*	1520 Powell Street Emeryville, California

If you have any questions, please contact Justin Sobieraj at 415.858.8310.

Contact:
Justin Sobieraj

Phone:
415.858.8310

Email:
Justin.Sobieraj@arcadis-us.com

Our ref:
B0047528.0011

Sincerely,

ARCADIS

Justin Sobieraj, P.G.
Senior Geologist

Copies:
Mark Horne, Chevron Environmental Management Company
Ms. Cherie McCaulou, San Francisco Regional Water Quality Control Board (Region 2)

Mark Horne
Project Manager
Marketing Business Unit

Chevron Environmental Management Company
6101 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 790-3964
MarkHorne@chevron.com

September 29, 2015

Mr. Mark Detterman
Alameda County Health Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

RE: Second Semi-Annual 2015 Groundwater Monitoring Report
Former Chevron Asphalt Plant and Bulk Terminal #20-6265
1520 Powell Street, Emeryville, California
Case Number: *RO0002535*

Dear Mr. Detterman,

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

If you have any questions or need additional information, please contact me at (714) 671-3248.

Sincerely,

Mark E. Horne

Mark Horne
Chevron Environmental Management Company – Project Manager

Attachment
Second Semi-Annual 2015 Groundwater Monitoring Report

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
SEMIANNUAL MONITORING REPORT
SECOND SEMIANNUAL 2015
October 6, 2015

Facility No.: 206265 Address: 1520 Powell Street, Emeryville, California

Consulting Company/Contact Person/Phone No.: ARCADIS / Justin Sobieraj / 415.858.8310

Primary Agency/Contact Person/Regulatory ID No.: Alameda County Environmental Health Department (ACEHD) / Mr. Mark Detterman / Case No. RO0002535

WORK PERFORMED DURING THIS REPORTING PERIOD (Second Semiannual – 2015) :

1. ARCADIS conducted groundwater monitoring and sampling on July 20, 2015. Field data sheets are included as **Attachment 1**. Ten (10) groundwater monitoring wells associated with the site were gauged and nine (9) monitoring wells were purged, and sampled during this monitoring event. One monitoring well (MWX-2) was inaccessible for groundwater sampling due to property access issues.

2. Groundwater samples were analyzed for total petroleum hydrocarbons (TPH) quantified as diesel (TPH-D) and TPH quantified as gasoline range organics (TPH-GRO) by Environmental Protection Agency (EPA) Method 8015B Modified, benzene, toluene, ethylbenzene, and total xylenes (BTEX, collectively), and methyl tertiary butyl ether (MTBE) by EPA Method 8260B, and trichloroethene (TCE), tetrachloroethene (PCE), 1,1-Dichloroethene (1,2-DCE), trans-1,2-Dichloroethene (t-1,2-DCE), 1,1-Dichloroethane (1,1-DCA), 1,1,1-Trichloroethane (1,1,1-TCA), chloroform and vinyl chloride by EPA Method 8260B. The results for these analyses are summarized in **Table 1.**

   In addition, as part of the settlement agreement between Chevron Environmental Management Company (CEMC) and City of Emeryville, CEMC agreed to analyze the groundwater samples for additional analyses to assist City of Emeryville's consultant Erler and Kalinowski, Inc. (EKI) in the bioremediation effort on the adjacent 1525 and 1535 Powell Street sites (collaboratively known as Site B; see **Figure 2**). Groundwater samples were also analyzed for methane, ethane, and ethene by EPA Method RSK-175, iron and manganese by EPA Method 200.7, sulfide by EPA Method SM4500S2-D, bicarbonate including alkalinity by Method SM2320B, total organic carbon (TOC) by EPA Method SM5310C, and sulfate and nitrate nitrogen by EPA Method 300.0. The results for these analyses are summarized in **Table 2**.

   Site B was also sampled on July 20, 2015. Three monitoring wells, EPW01, EPW02, and EPW04, were analyzed for volatile organic compounds (VOCs) Full Scan by USEPA 8260B. Groundwater analytical results for monitoring wells EPW01, EPW02, and EPW04 are included in **Table 2**.

3. A copy of the laboratory analytical report and chain-of-custody documentation is included as **Attachment 2**. The site location map, the site vicinity map and the site map are presented as **Figures 1** through **3**. A groundwater elevation contour map for the site is presented as **Figure 4.** Detected fuel related hydrocarbon compounds in groundwater are presented as **Figure 5,** and detected chlorinated volatile organic compounds in groundwater are presented in **Figure 6.** Current Groundwater Monitoring Data and Analytical Results are summarized in **Table 1**. Current Additional Groundwater Analytical Results are summarized in **Table 2**. Current and Historical Groundwater Monitoring Data and Analytical Results are included as **Attachment 3.** Chlorinated Volatile Organic Compounds Concentration Trends are included as **Attachment 4.**

WORK PROPOSED FOR THE NEXT REPORTING PERIOD (Fourth Quarter – 2015):

1. Conduct air sampling within the onsite building garage area.

Current Phase of Project: Groundwater Monitoring

Site Use: Apartment Complex and City of Emeryville Parking Lot

Frequency of Sampling: TBD

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
SEMIANNUAL MONITORING REPORT
SECOND SEMIANNUAL 2015
October 6, 2015

Facility No.: 206265 Address: 1520 Powell Street, Emeryville, California

Frequency of Monitoring:		TBD
Are Separate-Phase Hydrocarbons (SPH) Present On-Site:		Have not been historically detected
Cumulative SPH Recovered to Date:		None
SPH Recovered This Quarter:		None
Bulk Soil Removed to Date:		40,000 cubic yards
Bulk Soil Removed this Quarter:		None
Water Wells or Surface Waters within a 500' Radius and Their Respective Directions:		None
Groundwater Use Designation:		Shallow groundwater is not a drinking water resource
Current Remediation Techniques:		Enhanced Bioremediation conducted by EKI in 2012
Permits for Discharge (No.):		None
Approximate Depth to Groundwater:		4.26 (MW-19A) – 6.78 (MWX-11A) feet (ft) below top of casing (BTOC) Measured X Estimated
Groundwater Gradient:	(Magnitude) 0.01 foot per foot (ft/ft)	(Direction) West-southwest

DISCUSSION:

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
SEMIANNUAL MONITORING REPORT
SECOND SEMIANNUAL 2015
October 6, 2015

Facility No.: 206265 Address: 1520 Powell Street, Emeryville, California

Concentrations of constituents of concern (COC) in groundwater were compared with San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESL) and the maximum contaminant levels (MCLs; California Department of Public Health 2012[1]) to evaluate the magnitude of site impacts. Preliminary screening levels are agency guidelines for initial evaluation of impacted sites.

San Francisco Bay RWQCB ESLs are presented in the RWQCB technical document titled, *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater,* revised February 2013. Groundwater results were compared to *Table F-1a – Groundwater Screening Levels (groundwater is a current or potential drinking water resource).* However, the groundwater beneath the site is not used as a potable water source.

Groundwater conditions during the second semiannual 2015 groundwater monitoring event remained generally consistent with previous quarters. The maximum dissolved concentrations of c-1,2-DCE (62 micrograms per liter [µg/L]µg/L), and VC (19 µg/L) were detected in samples collected from MWX-3. The maximum dissolved concentration of TPH-DRO (680 µg/L) was detected in the sample collected from MWX-10A. The maximum dissolved concentrations of PCE (8 µg/L) and TCE (24 µg/L) were detected in samples collected from MWX-18. The maximum dissolved concentrations of t-1,2-DCE (2 µg/L) and 1,1-DCA (1 µg/L) were detected in samples collected from MWX-11A. TPH-GRO, benzene, toluene, ethylbenzene, total xylenes, MTBE, 1,1-DCE, t-1,2-DCE, 1,1,1-TCA, 1,1-DCA, and chloroform were not detected above the laboratory reporting limits in any wells during the second semiannual 2015 monitoring and sampling event.

Groundwater elevations across the site vary by approximately 2.57 feet, creating a hydraulic gradient of 0.01 ft/ft toward the west-southwest.

CONCLUSIONS AND RECOMMENDATIONS:

- Groundwater flow direction was toward the west-southwest across the site at an approximate horizontal hydraulic gradient of 0.01 ft/ft
- Groundwater elevations were measured between 5.46 feet above mean sea level (AMSL) in monitoring well MWX-9 and 8.03 feet AMSL in monitoring well MW-17
- Concentrations of petroleum hydrocarbon constituents and chlorinated volatile organic compounds detected in groundwater samples were generally consistent with the results of the previous 2012 sampling events. It should be noted that VOC concentrations have decreased significantly since the implementation of the enhanced bioremediation activity conducted by EKI in 2012.
- Concentrations of TPH-D, PCE, TCE, t-1,2-DCE, c-1,2-DCE,1,1-DCA, and vinyl chloride were detected above their respective laboratory reporting limits in groundwater samples collected from the site
- Concentrations of TPH-D, PCE, TCE, c-1,2-DCE, and vinyl chloride were above their respective ESLs and/or MCLs in one or more groundwater samples collected this event.
- t-1,2-DCE and 1,1-DCA were detected above the respective laboratory reporting limits; however, the detected concentrations were not above the respective ESLs and/or MCLs
- No concentrations of TPH-GRO, benzene, toluene, ethylbenzene, total xylenes, MTBE, 1,1-DCE, 1,1,1-TCA, and chloroform were detected above their respective laboratory reporting limits in groundwater samples collected from the site
- SPH were not observed during the second semiannual 2015 monitoring and sampling event, nor have they historically been observed at the site
- ARCADIS submitted a Conceptual Site Model and Closure Request on December 14, 2012. ARCADIS recommends the site be considered for low-risk closure.

[1] California Department of Public Health. 2012. *Chemicals and Contaminants in Drinking Water*. Title 22 of the California Code of Regulations.

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
SEMIANNUAL MONITORING REPORT
SECOND SEMIANNUAL 2015
October 6, 2015

Facility No.: 206265 Address: 1520 Powell Street, Emeryville, California

ATTACHMENTS:

Table 1: Current Groundwater Monitoring Data and Analytical Results
Table 2: Current Additional Groundwater Analytical Results

Figure 1: Site Location Map
Figure 2: Site Vicinity Map
Figure 3: Site Plan
Figure 4: Groundwater Elevation Contour Map, July 20, 2015
Figure 5: Detected Fuel Related Hydrocarbon Compounds in Groundwater
Figure 6: Detected Chlorinated Volatile Organic Compounds in Groundwater

Attachment 1: Groundwater Sampling Sheets
Attachment 2: Laboratory Analytical Report and Chain-of-Custody Documentation
Attachment 3: Current and Historical Groundwater Monitoring Data and Analytical Results
Attachment 4: Chlorinated Volatile Organic Compounds Concentration Trends

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Tables

TABLE 1
CURRENT GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS
Former Chevron Asphalt Plant and Bulk Terminal #206265
1520 Powell Street
Emeryville, California

Well Identification	Date	TOC Elevation (feet amsl)	Depth to Groundwater (feet btoc)	Groundwater Elevation (feet amsl)	TPH-GRO (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	PCE (µg/L)	TCE (µg/L)	1,1-DCE (µg/L)	t-1,2-DCE (µg/L)	c-1,2-DCE (µg/L)	1,1,1-TCA (µg/L)	1,1-DCA (µg/L)	VC (µg/L)	CF (µg/L)
ESL (Table F-1a)					**100**	**100**	**1**	**40**	**30**	**20**	**5**	**5**	**5**	**6**	**10**	**6**	**62**	**5**	**0.5**	**70**
MCL					**NA**	**NA**	**1**	**150**	**300**	**1,800**	**13**	**5**	**5**	**6**	**10**	**6**	**200**	**5**	**0.5**	**70**
MW-17	7/20/2015	13.52	5.49	8.03	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	**4**	**6**	<0.5	<0.5	**1**	<0.5	<0.5	<0.5	<0.5
MW-18	7/20/2015	12.95	4.98	7.97	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	**8**	**24**	<0.5	<0.5	**3**	<0.5	<0.5	<0.5	<0.5
MW-19A	7/20/2015	11.79	4.26	7.53	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	**1**	**0.7**	<0.5	<0.5	**6**	<0.5	**0.7**	**15**	<0.5
MWX-10A	7/20/2015	12.78	5.11	7.67	<50	**680**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**3**	<0.5	<0.5	**1**	<0.5	<0.5	<0.5	<0.5
MWX-11A	7/20/2015	14.18	6.78	7.40	<50	**290**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**14**	<0.5	**2**	**7**	<0.5	**1**	<0.5	<0.5
MWX-2	7/20/2015	12.10	5.10	7.00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MWX-3	7/20/2015	13.45	5.86	7.59	<50	**390**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**2**	<0.5	**1**	**62**	<0.5	<0.5	**19**	<0.5
MWX-6	7/20/2015	11.41	5.91	5.50	<50	**65**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.8**	<0.5	<0.5	<0.5	<0.5
MWX-8	7/20/2015	13.12	5.42	7.70	<50	**65**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.5**	<0.5	<0.5	**0.8**	**1**	<0.5
MWX-9	7/20/2015	11.46	6.00	5.46	<50	**52**	<0.5	<0.5	<0.5	<0.5	<0.5	**5**	**14**	<0.5	**0.8**	**22**	<0.5	<0.5	<0.5	<0.5
EPW01	7/20/2015	10.14	5.21	4.93	n.a.	n.a.	<0.500	<0.500	<0.500	<0.500	n.a.	<0.500	<0.500	<0.500	<0.500	**1.40**	<0.500	<0.500	**0.520**	<0.500
EPW02	7/20/2015	9.97	5.03	4.94	n.a.	n.a.	<0.500	<0.500	<0.500	<0.500	n.a.	<0.500	**0.870**	<0.500	<0.500	**1.79**	<0.500	<0.500	**1.37**	<0.500
EPW04	7/20/2015	11.01	5.89	5.12	n.a.	n.a.	<0.500	<0.500	<0.500	<0.500	n.a.	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
QA-T	7/20/2015	--	--	--	<50	n.a.	<0.5	<0.5	<0.5	<0.5	<0.5	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

Notes:
1. Detected concentrations are in **Bold**.
2. Detected concentrations at or above the MCL or ESL are highlighted in yellow.
3. Wells EPW01, EPW02, and EPW04 were installed by Erler & Kalinowski in 2010 as part of the Site B project area.
-- = not available
[ ] = duplicate sample results
< = not detected at or above the indicated reporting limit
µg/L = micrograms per liter
btoc = below top of casing
ESL = environmental screening level (Table F-1a – Groundwater Screening Levels [groundwater is a current or potential drinking water resource]) (SFRWQCB 2013)
MCL = maximum contaminant level (California Department of Public Health 2012)
TPH-GRO = Total Petroleum Hydrocarbons quantified as Gasoline Range Organics
TPH-D =Total Petroleum Hydrocarbons quantified as Diesel
MTBE = Methyl Tertiary Butyl Ether
TOC = top of casing
1,1-DCE = 1,1-Dichloroethene
t-1,2-DCE = trans-1,2-Dichloroethene
c-1,2-DCE = cis-1,2-Dichloroethene
1,1-DCA = 1,1-Dichloroethane
1,1,1-TCA = 1,1,1-Trichloroethane
TCE = Trichloroethene
PCE = Tetrachloroethene
CF = Chloroform
VC = Vinyl Chloride
n.a. = not analyzed
NS = not sampled due to access issues

TABLE 2
CURRENT ADDITIONAL GROUNDWATER ANALYTICAL RESULTS
Former Chevron Asphalt Plant and Bulk Terminal #206265
1520 Powell Street
Emeryville, California

Well Identification	Date	Ethane (µg/L)	Ethene (µg/L)	Methane (µg/L)	Nitrate (µg/L)	Sulfate (µg/L)	TOC (µg/L)	Total Alkalinity (µg/L)	Bicarbonate Alkalinity (µg/L)	Sulfide (µg/L)	Iron (µg/L)	Manganese (µg/L)
MW-17	7/20/2015	<1.0	<1.0	3.6	2,000	57,000	2,400	129,000	129,000	<54	<33.3	151
MW-18	7/20/2015	<1.0	<1.0	81	1,700	42,000	960	171,000	171,000	<54	<33.3	295
MW-19A	7/20/2015	3.0	2.0	1,500	<250	21,400	4,500	296,000	296,000	<54	2,550	2,640
MW-10A	7/20/2015	<1.0	<1.0	<3.0	6,800	89,800	7,100	147,000	147,000	<54	47.2	48.4
MW-11A	7/20/2015	<1.0	<1.0	4.1	<250	151,000	9,600	419,000	419,000	<54	863	2,470
MWX-2	7/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MWX-3	7/20/2015	7.1	2.2	15,000	<250	87,500	5,200	739,000	739,000	<54	2,790	6,560
MWX-6	7/20/2015	<1.0	<1.0	240	<250	19,400	3,400	238,000	238,000	<54	336	1,800
MWX-8	7/20/2015	7.6	<1.0	2,600	<250	15,900	3,000	277,000	277,000	<54	4,590	4,780
MWX-9	7/20/2015	<1.0	<1.0	17	<250	19,500	2,600	211,000	211,000	<54	<33.3	216
EPW01	7/20/2015	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
EPW02	7/20/2015	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
EPW04	7/20/2015	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

Notes:
[ ] = duplicate sample results
< = not detected at or above the indicated reporting limit
µg/L = micrograms per liter
TOC = total organic carbon
n.a. = not analyzed
NS = not sampled
1. Wells EPW01, EPW02, and EPW04 were installed by Erler & Kalinowski in 2010 as part of the Site B project area.

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Figures

REFERENCE: BASE MAP USGS 7.5 MIN. QUAD., OAKLAND WEST, CA., 1993.

2000' 0 2000'

Approximate Scale: 1" = 2000'

FORMER CHEVRON ASPHALT TERMINAL 206265
1520 POWELL STREET
EMERYVILLE, CA

SITE LOCATION MAP

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FIGURE
1

10/28/08 SYRACUSE, NY-ENV/141-KLS
B0044664/0001/00002/CDR/44664N01.CDR

CITY: SYRACUSE DIV/GROUP: ENVCAD DB: L. FORAKER LD: PIC: J. VOGELEY PM: J. WAGLER TM: J. WAGLER LYR: ON=*; OFF=*REF*
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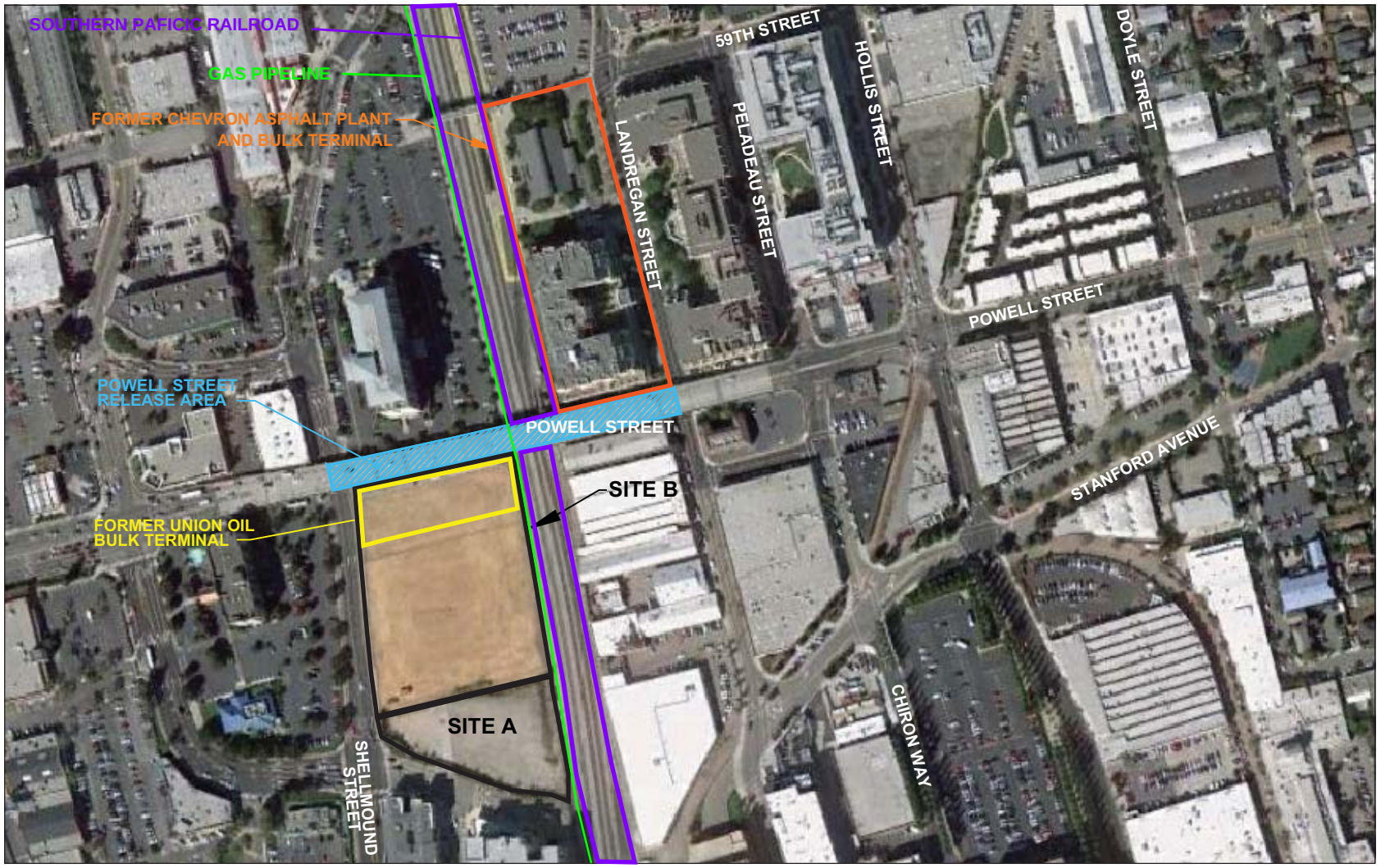

0 400' 800'

GRAPHIC SCALE

NOTE:

AERIAL PHOTOGRAPH OBTAINED FROM GOOGLE EARTH ON AUGUST 4, 2010.

FORMER CHEVRON ASPHALT TERMINAL 206265
1520 POWELL STREET
EMERYVILLE, CA

SITE VICINITY MAP

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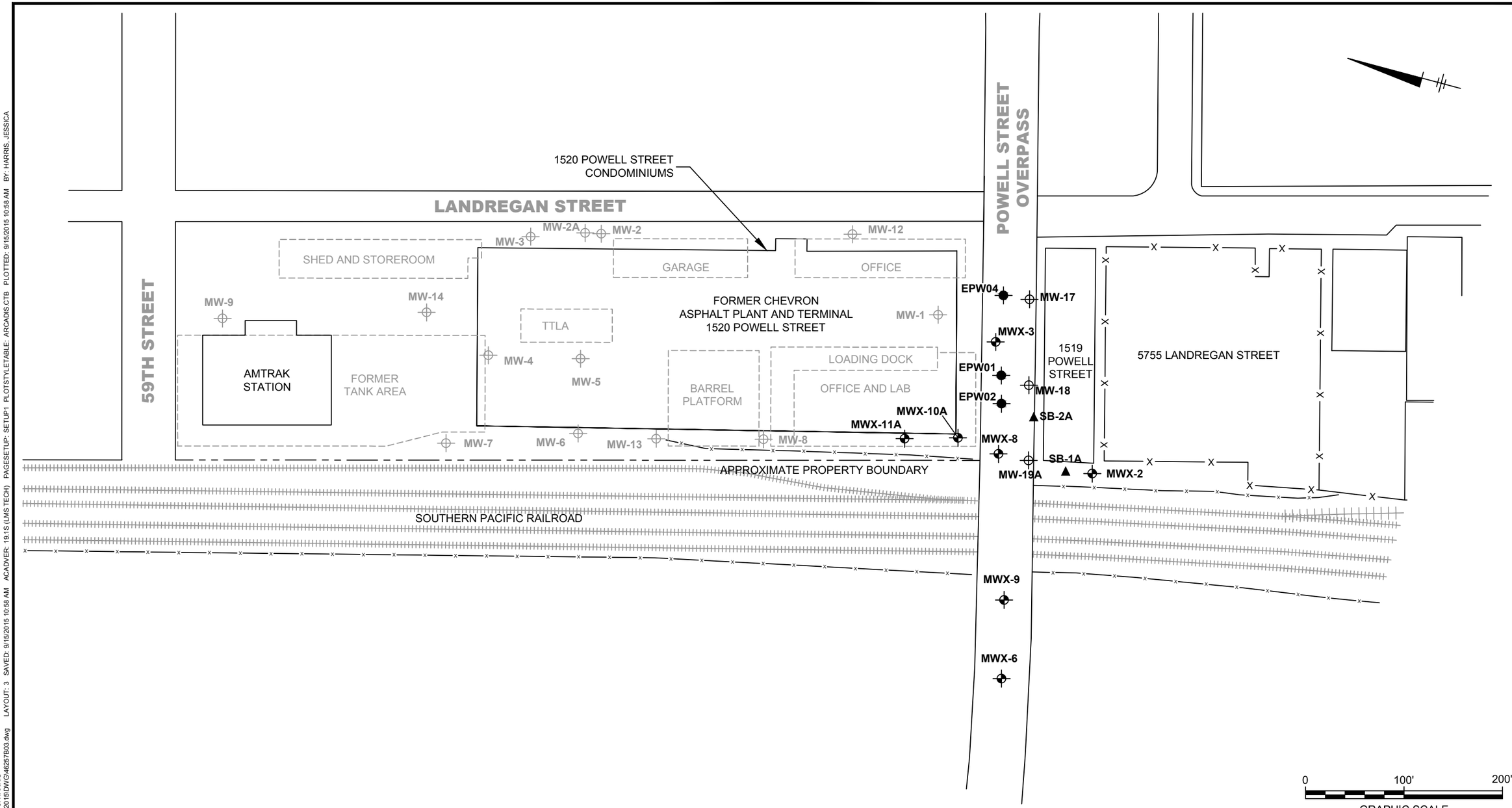
FIGURE
2



LEGEND:

- MONITORING WELL LOCATION (ERLER & KALINOWSKI, INC. 2010)
- MONITORING WELL LOCATION (ARCADIS 2009)
- MONITORING WELL LOCATION (WGR 1990)
- SOIL BORING LOCATION
- DESTROYED WELL LOCATION
- HISTORICAL FEATURE

NOTES:

1. BASE MAP MODIFIED FROM A DRAWING BY GETTLER-RYAN TITLED "SITE PLAN", DATED 07/00, AT A SCALE OF 1" = 100'.
2. ALL LOCATIONS ARE APPROXIMATE.
3. HISTORICAL FEATURE INFORMATION BASED ON A FIGURE BY HARDING LAWSON ASSOCIATES ENTITLED "POTENTIOMETRIC SURFACE MAP, UPPERMOST AQUIFER 8/24/88", BASED ON MCKESSON ENVIRONMENTAL SERVICES GROUNDWATER INVESTIGATION.

FORMER CHEVRON ASPHALT PLANT
AND BULK TERMINAL 20-6265
1520 POWELL STREET
EMERYVILLE, CALIFORNIA

SITE PLAN

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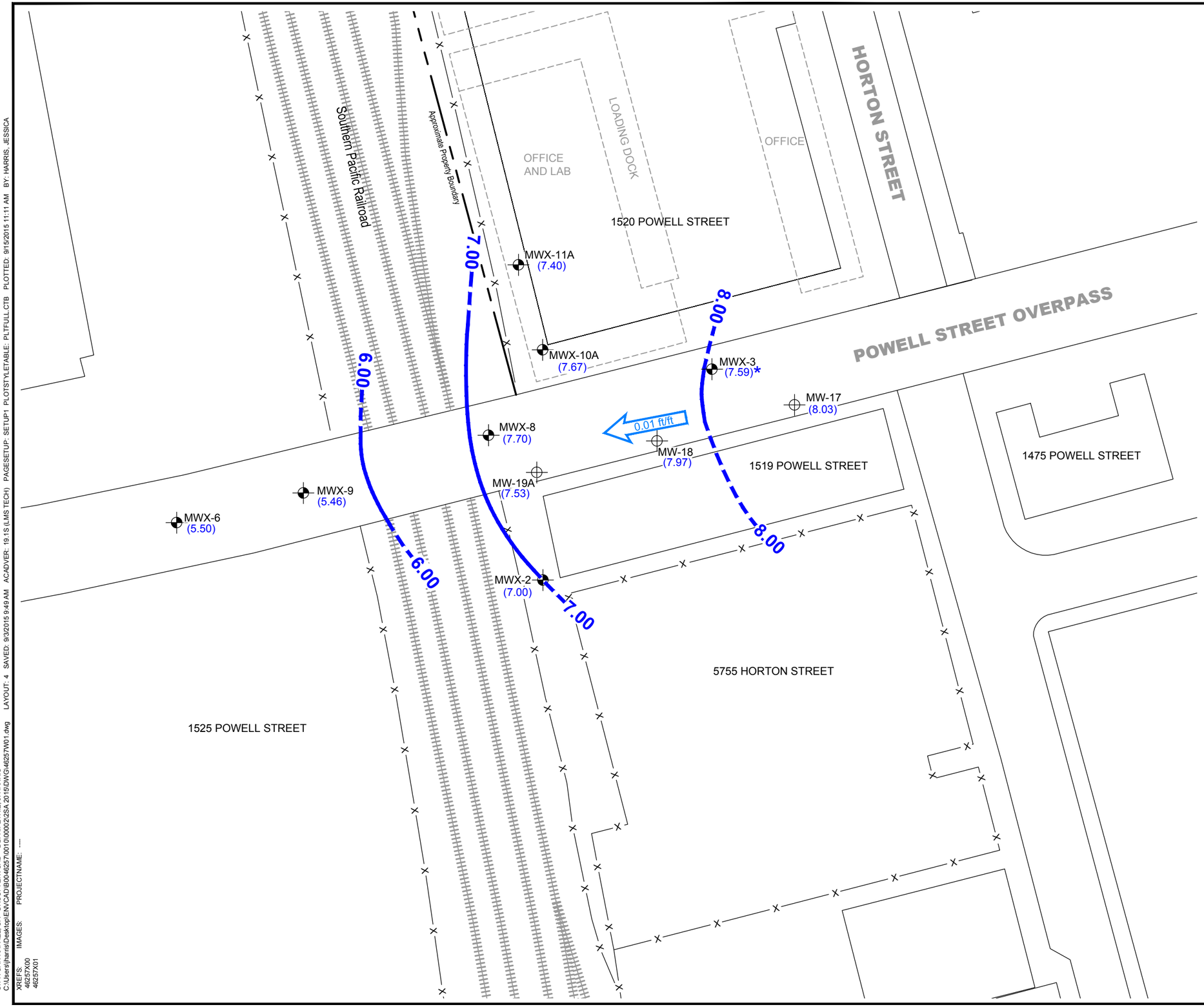
FIGURE
3



LEGEND:

- MONITORING WELL LOCATION (ARCADIS 2009)
- MONITORING WELL LOCATION (WGR 1990)
- HISTORICAL FEATURE
- (7.97) GROUNDWATER ELEVATION
- 7.00 GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- 0.01 ft/ft GROUNDWATER GRADIENT IN FOOT PER FOOT (ft/ft)
- * NOT USED IN CONTOURING

NOTES:

1. BASE MAP MODIFIED FROM A DRAWING BY GETTLER-RYAN TITLED "SITE PLAN", DATED JULY 2000, ORIGINAL DRAWING SCALE 1" = 100'.
2. HISTORICAL FEATURE INFORMATION BASED ON A FIGURE BY HARDING LAWSON ASSOCIATES ENTITLED "POTENTIOMETRIC SURFACE MAP, UPPERMOST AQUIFER 8/24/88", BASED ON MCKESSON ENVIRONMENTAL SERVICES GROUNDWATER INVESTIGATION.
3. GROUNDWATER ELEVATIONS LISTED IN FEET ABOVE MEAN SEA LEVEL.

0 60' 120'

GRAPHIC SCALE

FORMER CHEVRON ASPHALT PLANT
AND BULK TERMINAL 20-6265
1520 POWELL STREET
EMERYVILLE, CALIFORNIA

GROUNDWATER ELEVATION CONTOUR MAP JULY 20, 2015

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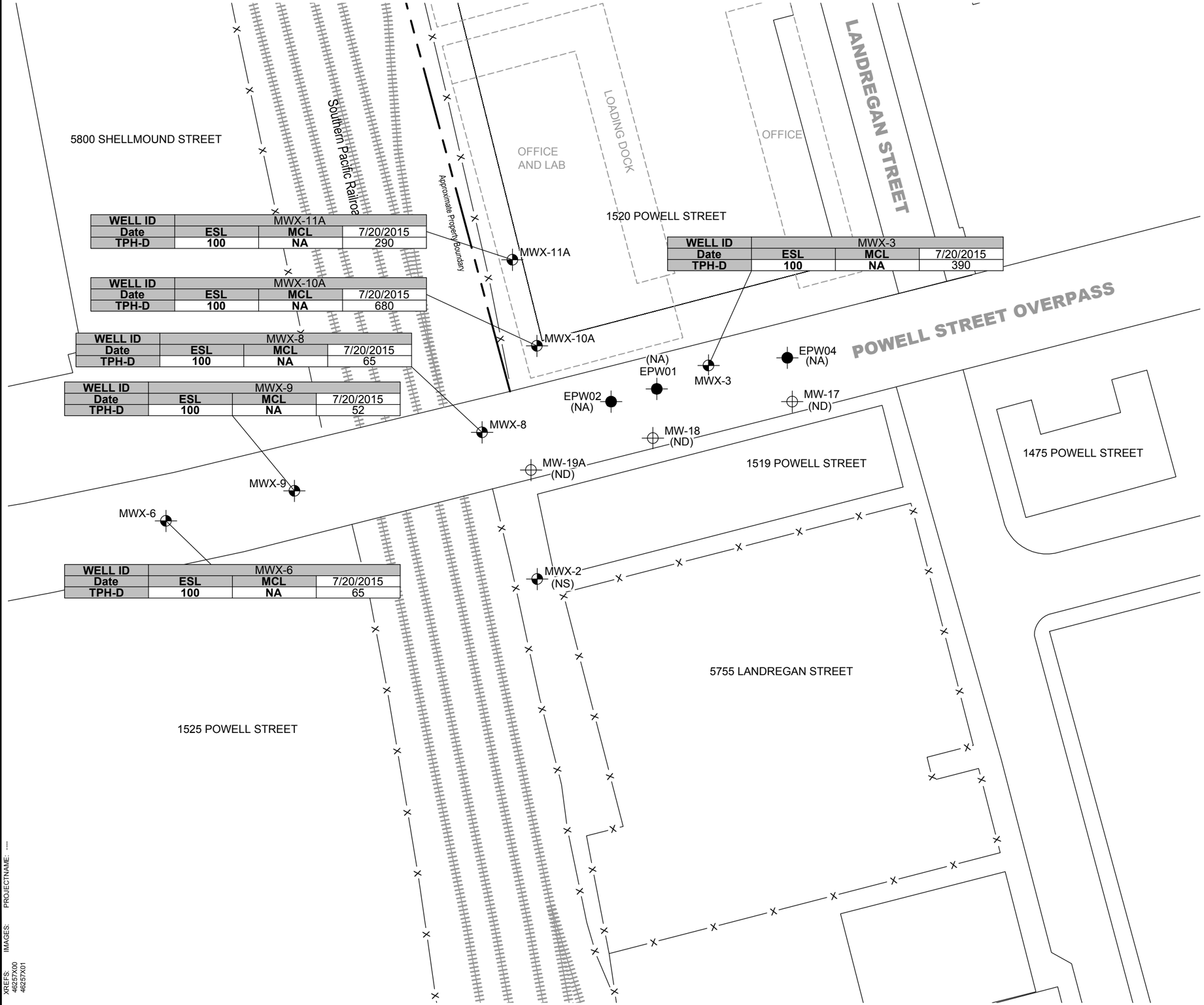
FIGURE 4

CITY: SAN RAFAEL, CA GROUP: ENVCAD DB: R.PETRIE, J. HARRIS
C:\Users\jharris\Desktop\ENVCAD\B0046257\0010\000022SA 2015\DWG\46257W01.dwg LAYOUT: 4 SAVED: 9/3/2015 9:49 AM ACADVER: 19.1S (LMS TECH) PAGESETUP: SETUP1 PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/15/2015 11:11 AM BY: HARRIS, JESSICA
XREFS: 46257X00 46257X01
IMAGES: PROJECTNAME: ---



WELL ID	MWX-11A		
Date	ESL	MCL	7/20/2015
TPH-D	100	NA	290

WELL ID	MWX-10A		
Date	ESL	MCL	7/20/2015
TPH-D	100	NA	680

WELL ID	MWX-8		
Date	ESL	MCL	7/20/2015
TPH-D	100	NA	65

WELL ID	MWX-9		
Date	ESL	MCL	7/20/2015
TPH-D	100	NA	52

WELL ID	MWX-6		
Date	ESL	MCL	7/20/2015
TPH-D	100	NA	65

WELL ID	MWX-3		
Date	ESL	MCL	7/20/2015
TPH-D	100	NA	390

LEGEND:

- MONITORING WELL LOCATION (ERLER & KALINOWSKI, INC. 2010)
- MONITORING WELL LOCATION (ARCADIS 2009)
- MONITORING WELL LOCATION (WGR 1990)
- HISTORICAL FEATURE

TPH-D - TOTAL PETROLEUM HYDROCARBONS QUANTIFIED AS DIESEL

MCL - MAXIMUM CONTAMINANT LEVEL (CALIFORNIA DEPARTMENT OF PUBLIC HEALTH 2012)

ESL - ENVIRONMENTAL SCREENING LEVEL (SFRWQCB 2013)

NA - NOT ANALYZED

ND - NOT DETECTED AT OR ABOVE THE LABORATORY REPORTING LIMIT

NS - NOT SAMPLED

NOTES:

1. BASE MAP MODIFIED FROM A DRAWING BY GETTLER-RYAN TITLED "SITE PLAN", DATED 07/00, AT A SCALE OF 1" = 100'.
2. ALL LOCATIONS ARE APPROXIMATE.
3. HISTORICAL FEATURE INFORMATION BASED ON A FIGURE BY HARDING LAWSON ASSOCIATES ENTITLED "POTENTIOMETRIC SURFACE MAP, UPPERMOST AQUIFER 8/24/88", BASED ON MCKESSON ENVIRONMENTAL SERVICES GROUNDWATER INVESTIGATION.
4. CONCENTRATIONS ARE IN MICROGRAMS PER LITER (µg/L).

0 60' 120'

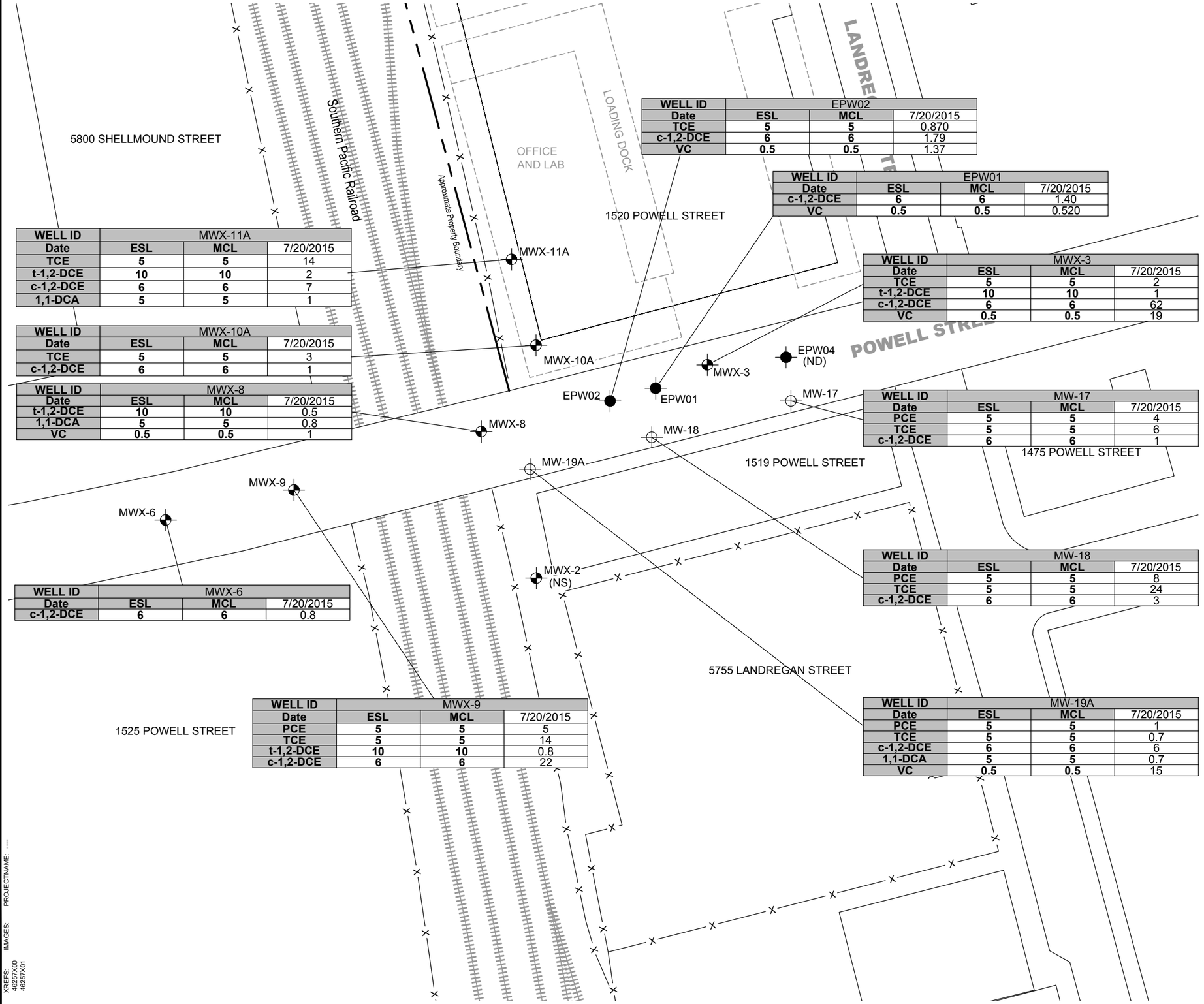
GRAPHIC SCALE

FORMER CHEVRON ASPHALT PLANT
AND BULK TERMINAL 20-6265
1520 POWELL STREET
EMERYVILLE, CALIFORNIA

DETECTED FUEL RELATED HYDROCARBON COMPOUNDS IN GROUNDWATER

ARCADIS

FIGURE 5



WELL ID	MWX-11A		
Date	ESL	MCL	7/20/2015
TCE	5	5	14
t-1,2-DCE	10	10	2
c-1,2-DCE	6	6	7
1,1-DCA	5	5	1

WELL ID	MWX-10A		
Date	ESL	MCL	7/20/2015
TCE	5	5	3
c-1,2-DCE	6	6	1

WELL ID	MWX-8		
Date	ESL	MCL	7/20/2015
t-1,2-DCE	10	10	0.5
1,1-DCA	5	5	0.8
VC	0.5	0.5	1

WELL ID	MWX-6		
Date	ESL	MCL	7/20/2015
c-1,2-DCE	6	6	0.8

WELL ID	MWX-9		
Date	ESL	MCL	7/20/2015
PCE	5	5	5
TCE	5	5	14
t-1,2-DCE	10	10	0.8
c-1,2-DCE	6	6	22

WELL ID	EPW02		
Date	ESL	MCL	7/20/2015
TCE	5	5	0.870
c-1,2-DCE	6	6	1.79
VC	0.5	0.5	1.37

WELL ID	EPW01		
Date	ESL	MCL	7/20/2015
c-1,2-DCE	6	6	1.40
VC	0.5	0.5	0.520

WELL ID	MWX-3		
Date	ESL	MCL	7/20/2015
TCE	5	5	2
t-1,2-DCE	10	10	1
c-1,2-DCE	6	6	62
VC	0.5	0.5	19

WELL ID	MW-17		
Date	ESL	MCL	7/20/2015
PCE	5	5	4
TCE	5	5	6
c-1,2-DCE	6	6	1

WELL ID	MW-18		
Date	ESL	MCL	7/20/2015
PCE	5	5	8
TCE	5	5	24
c-1,2-DCE	6	6	3

WELL ID	MW-19A		
Date	ESL	MCL	7/20/2015
PCE	5	5	1
TCE	5	5	0.7
c-1,2-DCE	6	6	6
1,1-DCA	5	5	0.7
VC	0.5	0.5	15

LEGEND:

- MONITORING WELL LOCATION (ERLER & KALINOWSKI, INC. 2010)
- MONITORING WELL LOCATION (ARCADIS 2009)
- MONITORING WELL LOCATION (WGR 1990)
- HISTORICAL FEATURE
- 1,1-DCA - 1,1-DICHLOROETHANE
- c-1,2-DCE - cis-1,2-DICHLOROETHENE
- t-1,2-DCE - TRANS-1,2-DICHLOROETHENE
- PCE - TETRACHLOROETHENE
- TCE - TRICHLOROETHENE
- VC - VINYL CHLORIDE
- MCL - MAXIMUM CONTAMINANT LEVEL (CALIFORNIA DEPARTMENT OF PUBLIC HEALTH 2012)
- ESL - ENVIRONMENTAL SCREENING LEVEL (SFRWQCB 2013)
- ND - NOT DETECTED AT OR ABOVE THE LABORATORY REPORTING LIMIT
- NS - NOT SAMPLED

NOTES:

1. BASE MAP MODIFIED FROM A DRAWING BY GETTLER-RYAN TITLED "SITE PLAN", DATED 07/00, AT A SCALE OF 1" = 100'.
2. ALL LOCATIONS ARE APPROXIMATE.
3. HISTORICAL FEATURE INFORMATION BASED ON A FIGURE BY HARDING LAWSON ASSOCIATES ENTITLED "POTENTIOMETRIC SURFACE MAP, UPPERMOST AQUIFER 8/24/88", BASED ON MCKESSON ENVIRONMENTAL SERVICES GROUNDWATER INVESTIGATION.
4. CONCENTRATIONS ARE IN MICROGRAMS PER LITER (µg/L).

0 60' 120'

GRAPHIC SCALE

FORMER CHEVRON ASPHALT PLANT
AND BULK TERMINAL 20-6265
1520 POWELL STREET
EMERYVILLE, CALIFORNIA

DETECTED CHLORINATED VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER

ARCADIS

FIGURE 6

CITY: SAN RAFAEL, CA GROUP: ENVCAD DB: R.PETRIE, J. HARRIS
C:\Users\jharris\Desktop\ENVCAD\B0046257\0010\0000212SA 2015\DWG\46257C06.dwg LAYOUT: 6 SAVED: 9/9/2015 3:53 PM ACADVER: 19.1S (LMS TECH) PAGESETUP: SETUP1 PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/15/2015 11:32 AM BY: HARRIS, JESSICA
XREFS: 46257X00 46257X01
IMAGES: PROJECTNAME: ---

ARCADIS

Attachment 1

Groundwater Sampling Sheets

GETTLER-RYAN INC.

TRANSMITTAL

Revised August 3, 2015
July 30, 2015
G-R #385161

TO: Mr. Justin Sobieraj
Arcadis
100 Smith Ranch Road, Suite 329
San Rafel, CA 94903

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

RE: Former Chevron Asphalt Plant
Terminal #206265 (100-1067)
Powell @ Landregan
Emeryville, California
MTI: 61H-1953

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Report **Third Quarter Event of July 20, 2015**

COMMENTS:

Pursuant to your request, we are providing you with copies 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.

6805 Sierra Court, Suite G • Dublin, CA 94568 • (925) 551-7555 • Fax (925) 551-7888
1050 Riverside Parkway, Suite 115, West Sacramento, CA 95605 • (916) 851-1830 • Fax (916) 851-1536

WELL CONDITION STATUS SHEET

Client/
Facility #: Chevron #206265

Site Address: Powell @ Landregan

City: Emeryville, CA

Job #: 385161

Event Date: 7/20/16

Sampler: JW

WELL ID	Vault Frame Condition	Gasket/ O-Ring (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Bolt Flanges B=Broken S=Stripped R=Retaped	Apron Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) Inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y/N	REPLACE CAP Y/N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Y/N
MW-2	ok	→	→	2xR	ok	→	→	Y	Y 2"	8" Emco	Y
MW-19A	Broken	M	M	3xB	G	?	ok	Y	Y 2"	Lid Missing Flange/skirt Broken	Y
MW-8	ok	→	→	→	→	→	→	Y	Y 2"	8" Morrison	Y
MW-10A	ok	→	→	→	→	→	→	Y	Y 2"	↓	Y
MW-11A	ok	→	→	→	→	→	→	Y	Y 2"	↓	Y

Comments

WELL CONDITION STATUS SHEET

Client/
Facility #: **Chevron #206265**
Site Address: **Powell @ Landregan**
City: **Emeryville, CA**

Job #: **385161**
Event Date: 7.20.15
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	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-17	OK	→	→	S2 2	OK	→	→	Y	Y	Morrison | 8" | 2	
MW-18	OK	→	→	B2 1	OK	→	→			Ember | 12" | 2	Y
MW-3	OK	→	→			→	→			Ember | 8" | 2	
MW-6	OK	→	→			→	→			Ember | 8" | 2	Y
MW-9	OK	→	→			→	→	↓	↓	Ember | 8" | 2	Y

Comments MW-18 DAMAGED LID (SEE PHOTO)
MW-6 & MW-9 BOTH HAVE NO LIDS (SEE PHOTO)

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.

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 #206265 Job Number: 385161
Site Address: Powell @ Landregan Event Date: 7.20.15 (inclusive)
City: Emeryville, CA Sampler: FT

Well ID MW-17 Date Monitored: 7.20.15
Well Diameter 2 in.
Total Depth 11.88 ft.
Depth to Water 5.49 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.

6.39 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): 1105 Weather Conditions: SUNNY
Sample Time/Date: 1150 / 7.20.15 Water Color: CLEAR Odor: Y / (N)
Approx. Flow Rate: 200 ml pm. Sediment Description: NONE
Did well de-water? NO If yes, Time: Volume: ltr. DTW @ Sampling: 5.52

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS) mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY	Gauge DTW as parameters are recorded
1123	3.6	6.42	527	19.7 PRE:	1.8	155	36.59	5.51
1126	4.2	6.40	525	19.7				5.51
1129	4.8	6.39	522	19.8				5.52

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-17	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/FULL SCAN(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO(8015M)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc(8015)
	1 x 250ml clear glass	YES	NaOH & ZnAc	LANCASTER	SULFIDE(SM20 4500 S2D)
	2 x amber voas	YES	H3PO4	LANCASTER	TOTAL ORGANIC CARBON TOC(SM20 5310C)
	3 x voa vial	YES	HCL	LANCASTER	METHANE/ETHANE/THENE(RSK-175)
	1 x 250ml polt	YES	HNO3	LANCASTER	DISSOLVED METALS(200.7)
	x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED METALS(200.7)
	1 x 250ml poly	YES	NP	LANCASTER	ALKALINITY BICARBONATE(pH 4.5 & 8.3)(SM20 2320)
	2 x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE/NITROGEN(EPA 300.0)

COMMENTS: DEPTH PUMP SET AT: 8'

NOTE: DO, ORP & TURBIDITY READINGS ARE PRE PURGE READINGS

MONUMENT 8" (2SE)

Add/Replaced Gasket: Add/Replaced Bolt: Add/Replaced Lock: ✓ Add/Replaced Plug: 2

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #206265 Job Number: 385161
Site Address: Powell @ Landregan Event Date: 7.20.15 (inclusive)
City: Emeryville, CA Sampler: FT

Well ID MW-18 Date Monitored: 7.20.15
Well Diameter 2 in.
Total Depth 10.72 ft.
Depth to Water 4.98 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.

5.74 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): 1210 Weather Conditions: SUNNY
Sample Time/Date: 1255 / 7.20.15 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: 5.01

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY	Gauge DTW as parameters are recorded
1228	3.6	6.35	502	19.6	1.4	184	0.00	4.99
1231	4.2	6.34	505	19.6				4.99
1234	4.8	6.33	507	19.5				5.01

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-18	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/FULL SCAN(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO(8015M)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc(8015)
	x 250ml clear glass	YES	NaOH & ZnAc	LANCASTER	SULFIDE(SM20 4500 S2D)
	2 x amber voas	YES	H3PO4	LANCASTER	TOTAL ORGANIC CARBON TOC(SM20 5310C)
	3 x voa vial	YES	HCL	LANCASTER	METHANE/ETHANE/THENE(RSK-175)
	1 x 250ml polt	YES	HNO3	LANCASTER	DISSOLVED METALS(200.7)
	x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED METALS(200.7)
	1 x 250ml poly	YES	NP	LANCASTER	ALKALINITY BICARBONATE(pH 4.5 & 8.3)(SM20 2320)
	2 x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE/NITROGEN(EPA 300.0)

COMMENTS: DEPTH PUMP SET AT: 7'
NOTE: DO, ORP & TURBIDITY READINGS ARE PRE PURGE READINGS
EMCO 12" (1BF) DAMAGED LID (SEE PHOTO)

Add/Replaced Gasket: Add/Replaced Bolt: Add/Replaced Lock: Y Add/Replaced Plug: 2"

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #206265 Job Number: 385161
Site Address: Powell @ Landregan Event Date: 7/20/15 (inclusive)
City: Emeryville, CA Sampler: JH

Well ID MW-19A Date Monitored: 7/20/15
Well Diameter 2 in.
Total Depth 14.78 ft.
Depth to Water 4.26 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

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

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.36

Purge Equipment:		Sampling Equipment:	
Disposable Bailer		Disposable Bailer	
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Metal Filters	X
Peristaltic Pump	X	Peristaltic Pump	X
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): 1040 Weather Conditions: Cloudy
Sample Time/Date: 1130 / 7/20/15 Water Color: Cloudy Odor: Y / (N)
Approx. Flow Rate: 200 ml lpm. Sediment Description: Silty
Did well de-water? No If yes, Time: Volume: ltr. DTW @ Sampling: 4.55

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY NTU	Gauge DTW as parameters are recorded
Pre-	—	—	—	—	1.1	80	234	—
1058	3.6	7.26	877	18.5				4.48
1101	4.2	7.20	864	18.4				4.71
1104	4.8	7.05	851	18.2				4.95

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-19A	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/FULL SCAN(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO(8015M)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc(8015)
	1 x 250ml clear glass	YES	NaOH & ZnAc	LANCASTER	SULFIDE(SM20 4500 S2D)
	2 x amber voas	YES	H3PO4	LANCASTER	TOTAL ORGANIC CARBON TOC(SM20 5310C)
	3 x voa vial	YES	HCL	LANCASTER	METHANE/ETHANE/THENE(RSK-175)
	1 x 250ml polt	YES	HNO3	LANCASTER	DISSOLVED METALS(200.7)
	~~x 500ml poly~~	YES	HNO3	LANCASTER	DISSOLVED METALS(200.7)
	1 x 250ml poly	YES	NP	LANCASTER	ALKALINITY BICARBONATE(pH 4.5 & 8.3)(SM20 2320)
	2 x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE/NITROGEN(EPA 300.0)

COMMENTS: DEPTH PUMP SET AT: 6.50
NOTE: DO, ORP & TURBIDITY READINGS ARE PRE PURGE READINGS

Add/Replaced Gasket: Add/Replaced Bolt: Add/Replaced Lock: X Add/Replaced Plug: X 24

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #206265 Job Number: 385161
Site Address: Powell @ Landregan Event Date: 7/20/15 (inclusive)
City: Emeryville, CA Sampler: JH

Well ID: MWX-2 Date Monitored: 7/20/15
Well Diameter: 2 in.
Total Depth: 13.18 ft.
Depth to Water: 5.10 ft. ☐ Check if water column is less then 0.50 ft.
8.08 xVF — = — x3 case volume = Estimated Purge Volume: — gal.
Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.71

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

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

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:

Start Time (purge): ____ Weather Conditions: ____
Sample Time/Date: ____ / ____ Water Color: ____ Odor: Y / N
Approx. Flow Rate: ____ lpm. Sediment Description: ____
Did well de-water? ____ If yes, Time: ____ Volume: ____ ltr. DTW @ Sampling: ____

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY	Gauge DTW as parameters are recorded

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MWX-2	x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/FULL SCAN(8260)
	x 500ml ambers	YES	NP	LANCASTER	TPH-DRO(8015M)
	x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc(8015)
	x 250ml clear glass	YES	NaOH & ZnAc	LANCASTER	SULFIDE(SM20 4500 S2D)
	x amber voas	YES	H3PO4	LANCASTER	TOTAL ORGANIC CARBON TOC(SM20 5310C)
	x voa vial	YES	HCL	LANCASTER	METHANE/ETHANE/THENE(RSK-175)
	x 250ml polt	YES	HNO3	LANCASTER	DISSOLVED METALS(200.7)
	x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED METALS(200.7)
	x 250ml poly	YES	NP	LANCASTER	ALKALINITY BICARBONATE(pH 4.5 & 8.3)(SM20 2320)
	x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE/NITROGEN(EPA 300.0)

COMMENTS: DEPTH PUMP SET AT: M/O Per Arcadis No access agreement
NOTE: DO, ORP & TURBIDITY READINGS ARE PRE PURGE READINGS
8" Emco Re-tap Rusty Flange

Add/Replaced Gasket: ____ Add/Replaced Bolt: ____ Add/Replaced Lock: X Add/Replaced Plug: X 2"

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #206265 Job Number: 385161
Site Address: Powell @ Landregan Event Date: 7.20.15 (inclusive)
City: Emeryville, CA Sampler: FT

Well ID MWX-3 Date Monitored: 7.20.15
Well Diameter 2 in.
Total Depth 13.08 ft.
Depth to Water 5.86 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

7.22 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): 1315 Weather Conditions: SUNNY / CLOUDY
Sample Time/Date: 1358 / 7.20.15 Water Color: CLEAR Odor: Y / (N)
Approx. Flow Rate: 200 ml/pm. Sediment Description: NONE
Did well de-water? No If yes, Time: Volume: ltr. DTW @ Sampling: 7.02

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY	Gauge DTW as parameters are recorded
1333	3.6	6.62	1545	18.3	PRE: 1.3	177	0.00	5.92
1336	4.2	6.60	1524	18.3				6.10
1339	4.8	6.61	1493	18.4				7.02

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MWX-3	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/FULL SCAN(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO(8015M)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc(8015)
	1 x 250ml clear glass	YES	NaOH & ZnAc	LANCASTER	SULFIDE(SM20 4500 S2D)
	2 x amber voas	YES	H3PO4	LANCASTER	TOTAL ORGANIC CARBON TOC(SM20 5310C)
	3 x voa vial	YES	HCL	LANCASTER	METHANE/ETHANE/THENE(RSK-175)
	1 x 250ml polt	YES	HNO3	LANCASTER	DISSOLVED METALS(200.7)
	x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED METALS(200.7)
	1 x 250ml poly	YES	NP	LANCASTER	ALKALINITY BICARBONATE(pH 4.5 & 8.3)(SM20 2320)
	2 x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE/NITROGEN(EPA 300.0)

COMMENTS: DEPTH PUMP SET AT: 8'
NOTE: DO, ORP & TURBIDITY READINGS ARE PRE PURGE READINGS
Emco 8" -OK

Add/Replaced Gasket: Add/Replaced Bolt: Add/Replaced Lock: Y Add/Replaced Plug: 2"

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #206265 Job Number: 385161
Site Address: Powell @ Landregan Event Date: 7.20.15 (inclusive)
City: Emeryville, CA Sampler: FT

Well ID MWX-6 Date Monitored: 7.20.15
Well Diameter 2 in.
Total Depth 13.68 ft.
Depth to Water 5.91 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

7.77 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): 1000 Weather Conditions: SUNNY
Sample Time/Date: 1045 / 7.20.15 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: 6.05

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY	Gauge DTW as parameters are recorded
[redacted] 1018	3.6	6.69	585	19.1	PRE: 1.6	181	0.00	5.95
1021	4.2	6.71	581	19.2				5.99
1024	4.8	6.74	577	19.3				6.05

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MWX-6	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/FULL SCAN(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO(8015M)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc(8015)
	1 x 250ml clear glass	YES	NaOH & ZnAc	LANCASTER	SULFIDE(SM20 4500 S2D)
	2 x amber voas	YES	H3PO4	LANCASTER	TOTAL ORGANIC CARBON TOC(SM20 5310C)
	3 x voa vial	YES	HCL	LANCASTER	METHANE/ETHANE/THENE(RSK-175)
	1 x 250ml polt	YES	HNO3	LANCASTER	DISSOLVED METALS(200.7)
	x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED METALS(200.7)
	1 x 250ml poly	YES	NP	LANCASTER	ALKALINITY BICARBONATE(pH 4.5 & 8.3)(SM20 2320)
	2 x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE/NITROGEN(EPA 300.0)

COMMENTS: DEPTH PUMP SET AT: 8'
NOTE: DO, ORP & TURBIDITY READINGS ARE PRE PURGE READINGS
EMCO 8" NO LID (SEE PHOTO)

Add/Replaced Gasket: ___ Add/Replaced Bolt: ___ Add/Replaced Lock: X Add/Replaced Plug: 2"

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #206265 Job Number: 385161
Site Address: Powell @ Landregan Event Date: 7/20/15 (inclusive)
City: Emeryville, CA Sampler: SH

Well ID MWX-8 Date Monitored: 7/20/15
Well Diameter 2 in.
Total Depth 12.38 ft.
Depth to Water 5.42 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

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

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.81

Purge Equipment:		Sampling Equipment:	
Disposable Bailer		Disposable Bailer	
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Metal Filters	X
Peristaltic Pump	X	Peristaltic Pump	X
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): 0815 Weather Conditions: Clear
Sample Time/Date: 0900 / 7/20/15 Water Color: Cloudy Odor: Ⓨ / N Mild
Approx. Flow Rate: 200 m lpm. Sediment Description: Mild
Did well de-water? _____ If yes, Time: _____ Volume: _____ ltr. DTW @ Sampling: 5.89

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY NTU	Gauge DTW as parameters are recorded
PRE	—	—	—	—	1.2	83	197	—
0833	3.6	7.05	990	18.8	/	/	/	5.60
0836	4.2	7.02	983	18.7	/	/	/	5.77
0839	4.8	6.98	980	18.4	/	/	/	5.89

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/FULL SCAN(8260)
MWX-8	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO(8015M)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc(8015)
	1 x 250ml clear glass	YES	NaOH & ZnAc	LANCASTER	SULFIDE(SM20 4500 S2D)
	2 x amber voas	YES	H3PO4	LANCASTER	TOTAL ORGANIC CARBON TOC(SM20 5310C)
	3 x voa vial	YES	HCL	LANCASTER	METHANE/ETHANE/THENE(RSK-175)
	~~x 250ml poly~~	YES	HNO3	LANCASTER	DISSOLVED METALS(200.7)
	1 x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED METALS(200.7)
	1 x 250ml poly	YES	NP	LANCASTER	ALKALINITY BICARBONATE(pH 4.5 & 8.3)(SM20 2320)
	2 x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE/NITROGEN(EPA 300.0)

COMMENTS: DEPTH PUMP SET AT: 8.00
******NOTE: DO, ORP & TURBIDITY READINGS ARE PRE PURGE READINGS******

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: X Add/Replaced Plug: X 2"

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
LOW FLOW FIELD DATA SHEET

Client/Facility#: **Chevron #206265** Job Number: **385161**
Site Address: **Powell @ Landregan** Event Date: 7.20.15 (inclusive)
City: **Emeryville, CA** Sampler: FT

Well ID MWx-9 Date Monitored: 7.20.15
Well Diameter 2 in.
Total Depth 12.88 ft.
Depth to Water 6.00 ft. ☐ Check if water column is less then 0.50 ft.
6.88 xVF — = — x3 case volume = Estimated Purge Volume: — gal.
Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: —

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

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): 0900 Weather Conditions: SUNNY
Sample Time/Date: 0945 / 7.20.15 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: 6.01

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY	Gauge DTW as parameters are recorded
0918	3.6	7.11	500	19.9 PRE:	1.9	191	0.00	6.00
0921	4.2	7.12	501	20.0				6.00
0924	4.8	7.14	504	20.3				6.01

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MWf-9	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/FULL SCAN(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO(8015M)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc(8015)
	1 x 250ml clear glass	YES	NaOH & ZnAc	LANCASTER	SULFIDE(SM20 4500 S2D)
	2 x amber voas	YES	H3PO4	LANCASTER	TOTAL ORGANIC CARBON TOC(SM20 5310C)
	3 x voa vial	YES	HCL	LANCASTER	METHANE/ETHANE/THENE(RSK-175)
	1 x 250ml polt	YES	HNO3	LANCASTER	DISSOLVED METALS(200.7)
	x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED METALS(200.7)
	1 x 250ml poly	YES	NP	LANCASTER	ALKALINITY BICARBONATE(pH 4.5 & 8.3)(SM20 2320)
	2 x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE/NITROGEN(EPA 300.0)

COMMENTS: DEPTH PUMP SET AT: 8'
NOTE: DO, ORP & TURBIDITY READINGS ARE PRE PURGE READINGS
EMCO 8" NO LID (SEE PHOTO)

Add/Replaced Gasket: Add/Replaced Bolt: Add/Replaced Lock: X Add/Replaced Plug: X 2

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #206265 | Job Number: 385161
Site Address: Powell @ Landregan | Event Date: 7/20/15 (inclusive)
City: Emeryville, CA | Sampler: JH

Well ID: MW~~X~~-10A | Date Monitored: 7/20/15
Well Diameter: 2 in.
Total Depth: 12.85 ft.
Depth to Water: 5.11 ft. ☐ Check if water column is less then 0.50 ft.
7.74 xVF — = — x3 case volume = Estimated Purge Volume: — gal.
Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.65

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	

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

Sampling Equipment:
- Disposable Bailer: ____
- Pressure Bailer: ____
- Metal Filters: X
- Peristaltic Pump: X
- 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): 1150 | Weather Conditions: Cloudy
Sample Time/Date: 1245 / 7/20/15 | Water Color: Cloudy | Odor: Y / (N)
Approx. Flow Rate: 200 ml lpm. | Sediment Description: low
Did well de-water? NO | If yes, Time: ____ Volume: ____ ltr. | DTW @ Sampling: 5.65

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY NTU	Gauge DTW as parameters are recorded
Pre	—	—	—	—	1.2	94	306	—
1208	3.6	6.96	446	18.8	/	/	/	5.24
1211	4.2	6.91	482	18.7	/	/	/	5.41
1214	4.8	6.84	507	18.6	/	/	/	5.65

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW~~X~~-10A	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/FULL SCAN(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO(8015M)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc(8015)
	1 x 250ml clear glass	YES	NaOH & ZnAc	LANCASTER	SULFIDE(SM20 4500 S2D)
	2 x amber voas	YES	H3PO4	LANCASTER	TOTAL ORGANIC CARBON TOC(SM20 5310C)
	3 x voa vial	YES	HCL	LANCASTER	METHANE/ETHANE/THENE(RSK-175)
	1 x 250ml polt	YES	HNO3	LANCASTER	DISSOLVED METALS(200.7)
	~~x 500ml poly~~	YES	HNO3	LANCASTER	DISSOLVED METALS(200.7)
	1 x 250ml poly	YES	NP	LANCASTER	ALKALINITY BICARBONATE(pH 4.5 & 8.3)(SM20 2320)
	2 x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE/NITROGEN(EPA 300.0)

COMMENTS: DEPTH PUMP SET AT: 7.50

NOTE: DO, ORP & TURBIDITY READINGS ARE PRE PURGE READINGS

Add/Replaced Gasket: ____ Add/Replaced Bolt: ____ Add/Replaced Lock: X Add/Replaced Plug: X 2"

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #206265 | Job Number: 385161
Site Address: Powell @ Landregan | Event Date: 7/20/15 (inclusive)
City: Emeryville, CA | Sampler: JW

Well ID: MW-11A | Date Monitored: 7/20/15
Well Diameter: 2 in.
Total Depth: 13.68 ft.
Depth to Water: 6.78 ft.
6.90 xVF .— = —

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.

x3 case volume = Estimated Purge Volume: — gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.16

Purge Equipment:

Disposable Bailer	
Stainless Steel Bailer	
Stack Pump	
Peristaltic Pump	X
QED Bladder Pump	

Sampling Equipment:

Disposable Bailer	
Pressure Bailer	
Metal Filters	X
Peristaltic Pump	X
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): 0928 | Weather Conditions: Clear
Sample Time/Date: 1010 / 7/20/15 | Water Color: Cloudy | Odor: Y / N
Approx. Flow Rate: 200 ml pm. | Sediment Description:
Did well de-water? NO | If yes, Time: | Volume: ltr. DTW @ Sampling: 7.20

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY Ntu	Gauge DTW as parameters are recorded
—	~~0~~	—	—	—	1.3	104	129	—
0938	3.6	7.52	1056	18.4	/	/	/	6.52
0941	4.2	7.40	1051	18.3				7.06
0944	4.8	7.27	1043	18.2				7.20

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-11A	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/FULL SCAN(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO(8015M)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc(8015)
	1 x 250ml clear glass	YES	NaOH & ZnAc	LANCASTER	SULFIDE(SM20 4500 S2D)
	2 x amber voas	YES	H3PO4	LANCASTER	TOTAL ORGANIC CARBON TOC(SM20 5310C)
	3 x voa vial	YES	HCL	LANCASTER	METHANE/ETHANE/THENE(RSK-175)
	1 x 250ml polt	YES	HNO3	LANCASTER	DISSOLVED METALS(200.7)
	~~x 500ml poly~~	YES	HNO3	LANCASTER	DISSOLVED METALS(200.7)
	1 x 250ml poly	YES	NP	LANCASTER	ALKALINITY BICARBONATE(pH 4.5 & 8.3)(SM20 2320)
	2 x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE/NITROGEN(EPA 300.0)

COMMENTS: DEPTH PUMP SET AT: 9.00
NOTE: DO, ORP & TURBIDITY READINGS ARE PRE PURGE READINGS
8" Miller

Add/Replaced Gasket: | Add/Replaced Bolt: | Add/Replaced Lock: X | Add/Replaced Plug: X 24

Chevron California Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

For Eurofins Lancaster Laboratories use only
Acct. # ______ Group # ______ Sample # ______
072015-03 500m1
Instructions on reverse side correspond with circled numbers.

SCR #: ______

① Client Information

Facility #: SS#206265-OML G-R#385161 Global ID#SLT2O07076
Site Address: 1520 POWELL ST @ LANDREGAN, EMERYVILLE, CA
Chevron PM: MHO ARCADISJS Lead Consultant: Sobieraj
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: S. Herrera

④ Matrix: Sediment ☐ Ground ☒ Surface ☐ Potable ☐ NPDES ☐ Air ☐

⑤ Analyses Requested: BTEX + MTBE 8260 ☒ 8021 ☐; TPH-GRO 8260 ☐ 8015 ☒; TPH-DRO 8015 without Silica Gel Cleanup ☒; TPH-DRO 8015 with Silica Gel Cleanup ☒; 8260 Full Scan; TOC (SM20 5310C); Sulfide Method SM20 4500 S2D; Dissolved Metals Method 200.7; Methane/Ethane/Ethene RSK-175; Alkalinity/Bicarbonate SM20 2320B (PH 4.5 8.3); Nitrate/Sulfate/Nitrite (300.0)

② Sample Identification	Soil Depth	Date Collected	Time Collected	③ Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE	TPH-GRO	TPH-DRO 8015 without Silica Gel Cleanup	TPH-DRO 8015 with Silica Gel Cleanup	8260 Full Scan	TOC	Sulfide	Dissolved Metals	Methane/Ethane/Ethene	Alkalinity/Bicarbonate	Nitrate/Sulfate/Nitrite
GA		7/20/15		X			X		2	X	X									
MW-17			1150						20		X	X	X	X	X	X	X	X	X	X
MW-18			1255																	
MW-19A			1130																	
MWx-3			1358																	
MWX-6			1045																	
MWx-8			0900																	
MWx-9			0945																	
MWX-10A			1245																	
MWx-11A			1010																	

☐ 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

Metals to be reported are Iron and Manganese

AMEND COC: ADD GRO(8015) TO ALL SAMPLES SUBMITTED. MWC 07-21-15

⑦ Turnaround Time Requested (TAT) (please circle)
Standard (circled) 5 day 4 day
72 hour 48 hour 24 hour

EDF/EDD

Relinquished by	Date	Time	Received by	Date	Time
[signature]	7/20/15		[signature]	7/20/15	1520

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

Temperature Upon Receipt ______ °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: ______

ARCADIS

Attachment 2

Laboratory Analytical Report
and Chain-of-Custody
Documentation

ANALYTICAL RESULTS

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

August 21, 2015

Project: 206265

Submittal Date: 07/21/2015
Group Number: 1578324
PO Number: 0015175580
Release Number: HORNE
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LL) #
QA-T-150720 NA Water	7973064
MW-17-W-150720 Grab Groundwater	7973065
MW-17-W-150720 Filtered Grab Groundwater	7973066
MW-18-W-150720 Grab Groundwater	7973067
MW-18-W-150720 Filtered Grab Groundwater	7973068
MW-19A-W-150720 Grab Groundwater	7973069
MW-19A-W-150720 Filtered Grab Groundwater	7973070
MWX-3-W-150720 Grab Groundwater	7973071
MWX-3-W-150720 Filtered Grab Groundwater	7973072
MWX-6-W-150720 Grab Groundwater	7973073
MWX-6-W-150720 Filtered Grab Groundwater	7973074
MWX-8-W-150720 Grab Groundwater	7973075
MWX-8-W-150720 Filtered Grab Groundwater	7973076
MWX-9-W-150720 Grab Groundwater	7973077
MWX-9-W-150720 Filtered Grab Groundwater	7973078
MWX-10A-W-150720 Grab Groundwater	7973079
MWX-10A-W-150720 Filtered Grab Groundwater	7973080
MWX-11A-W-150720 Grab Groundwater	7973081
MWX-11A-W-150720 Filtered Grab Groundwater	7973082

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

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

ELECTRONIC ARCADIS U.S., Inc. Attn: Justin Sobieraj

COPY TO		
ELECTRONIC	Arcadis	Attn: Kurt Schmiegel
COPY TO		
ELECTRONIC	ARCADIS U.S., Inc.	Attn: Cameron McGovern
COPY TO		
ELECTRONIC	ARCADIS U.S., Inc.	Attn: Kayleigh Lim
COPY TO		
ELECTRONIC	Gettler-Ryan Inc.	Attn: Gettler Ryan
COPY TO		

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

Sample Description: QA-T-150720 NA Water
Facility# 206265 Job# 385161 GRD
1520 Powell St-Emeryville SLT2007076

LL Sample # WW 7973064
LL Group # 1578324
Account # 11928

Project Name: 206265

Collected: 07/20/2015

Submitted: 07/21/2015 09:15
Reported: 08/21/2015 16:14

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

PSEQA

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

General Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/MTBE	SW-846 8260B	1	Z152032AA	07/22/2015 11:51	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z152032AA	07/22/2015 11:51	Hu Yang	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	15204A20A	07/23/2015 19:40	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15204A20A	07/23/2015 19:40	Jeremy C Giffin	1

Sample Description: MW-17-W-150720 Grab Groundwater
Facility# 206265 Job# 385161 GRD
1520 Powell St-Emeryville SLT2007076

LL Sample # WW 7973065
LL Group # 1578324
Account # 11928

Project Name: 206265

Collected: 07/20/2015 11:50 by JH

Submitted: 07/21/2015 09:15
Reported: 08/21/2015 16:14

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

PSE17

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

Sample Description: MW-17-W-150720 Grab Groundwater
Facility# 206265 Job# 385161 GRD
1520 Powell St-Emeryville SLT2007076

LL Sample # WW 7973065
LL Group # 1578324
Account # 11928

Project Name: 206265

Collected: 07/20/2015 11:50 by JH

Submitted: 07/21/2015 09:15
Reported: 08/21/2015 16:14

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

PSE17

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	4	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	6	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Ethane	74-84-0	N.D.	1.0	1
07105	Ethene	74-85-1	N.D.	1.0	1
07105	Methane	74-82-8	3.6	3.0	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
06609	TPH-DRO CA C10-C28	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	1
	The reverse surrogate, capric acid, is present at <1%.				
Wet Chemistry	**EPA 300.0**		**ug/l**	**ug/l**	
00368	Nitrate Nitrogen	14797-55-8	2,000	250	5
01506	Nitrite Nitrogen	14797-65-0	N.D.	250	5
00228	Sulfate	14808-79-8	57,000	1,500	5

Sample Description: MW-17-W-150720 Grab Groundwater
Facility# 206265 Job# 385161 GRD
1520 Powell St-Emeryville SLT2007076

LL Sample # WW 7973065
LL Group # 1578324
Account # 11928

Project Name: 206265

Collected: 07/20/2015 11:50 by JH

Submitted: 07/21/2015 09:15
Reported: 08/21/2015 16:14

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

PSE17

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry	**SM 5310 C-2000**		**ug/l**	**ug/l**	
00273	Total Organic Carbon	n.a.	2,400	500	1
	SM 2320 B-1997		**ug/l as CaCO3**	**ug/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	129,000	700	1
12149	Bicarbonate Alkalinity	n.a.	129,000	700	1
	SM 4500-S2 D-2000		**ug/l**	**ug/l**	
00230	Sulfide	18496-25-8	N.D.	54	1

General Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Full List w/ Sep. Xylenes	SW-846 8260B	1	W152041AA	07/23/2015 14:27	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W152041AA	07/23/2015 14:27	Linda C Pape	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	15204A20A	07/23/2015 21:02	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15204A20A	07/23/2015 21:02	Jeremy C Giffin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	152040004A	07/23/2015 15:48	Kristen N Brandt	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	152030014A	07/23/2015 11:02	Christine E Dolman	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	152030015A	07/24/2015 15:09	Christine E Dolman	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	152030014A	07/22/2015 20:00	Samantha L Bronder	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	152030015A	07/22/2015 20:00	Samantha L Bronder	1
00368	Nitrate Nitrogen	EPA 300.0	1	15202667121A	07/21/2015 14:47	Drew M Gerhart	5
01506	Nitrite Nitrogen	EPA 300.0	1	15202667121A	07/21/2015 14:47	Drew M Gerhart	5
00228	Sulfate	EPA 300.0	1	15202667121A	07/21/2015 14:47	Drew M Gerhart	5
00273	Total Organic Carbon	SM 5310 C-2000	1	15205049501A	07/24/2015 03:58	James S Mathiot	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15204014203B	07/24/2015 00:07	Michele L Graham	1
12149	Bicarbonate Alkalinity	SM 2320 B-1997	1	15204014203B	07/24/2015 00:07	Michele L Graham	1
00230	Sulfide	SM 4500-S2 D-2000	1	15205023001A	07/24/2015 07:55	Susan E Hibner	1

Sample Description: MW-17-W-150720 Filtered Grab Groundwater
Facility# 206265 Job# 385161 GRD
1520 Powell St-Emeryville SLT2007076

LL Sample # WW 7973066
LL Group # 1578324
Account # 11928

Project Name: 206265

Collected: 07/20/2015 11:50 by JH

Submitted: 07/21/2015 09:15
Reported: 08/21/2015 16:14

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved	**EPA 200.7 rev 4.4**		**ug/l**	**ug/l**	
01754	Iron	7439-89-6	N.D.	33.3	1
07058	Manganese	7439-96-5	151	0.80	1

General Sample Comments

CA ELAP Lab Certification No. 2792
This sample was field filtered for dissolved metals.

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
01754	Iron	EPA 200.7 rev 4.4	1	152045716004	07/27/2015 01:57	Tara L Snyder	1
07058	Manganese	EPA 200.7 rev 4.4	1	152045716004	07/27/2015 01:57	Tara L Snyder	1
05716	EPA 600 ICP Digest (tot rec)	EPA 200.7 rev 4.4	1	152045716004	07/26/2015 09:50	James L Mertz	1

Sample Description: MW-18-W-150720 Grab Groundwater
Facility# 206265 Job# 385161 GRD
1520 Powell St-Emeryville SLT2007076

LL Sample # WW 7973067
LL Group # 1578324
Account # 11928

Project Name: 206265

Collected: 07/20/2015 12:55 by JH

Submitted: 07/21/2015 09:15
Reported: 08/21/2015 16:14

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

PSE18

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

Sample Description: MW-18-W-150720 Grab Groundwater
Facility# 206265 Job# 385161 GRD
1520 Powell St-Emeryville SLT2007076

LL Sample # WW 7973067
LL Group # 1578324
Account # 11928

Project Name: 206265

Collected: 07/20/2015 12:55 by JH

Submitted: 07/21/2015 09:15
Reported: 08/21/2015 16:14

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

PSE18

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	8	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	24	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Ethane	74-84-0	N.D.	1.0	1
07105	Ethene	74-85-1	N.D.	1.0	1
07105	Methane	74-82-8	81	3.0	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
06609	TPH-DRO CA C10-C28	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	1
	The reverse surrogate, capric acid, is present at <1%.				
Wet Chemistry	**EPA 300.0**		**ug/l**	**ug/l**	
00368	Nitrate Nitrogen	14797-55-8	1,700	250	5
01506	Nitrite Nitrogen	14797-65-0	N.D.	250	5
00228	Sulfate	14808-79-8	42,000	1,500	5

Sample Description: MW-18-W-150720 Grab Groundwater
Facility# 206265 Job# 385161 GRD
1520 Powell St-Emeryville SLT2007076

LL Sample # WW 7973067
LL Group # 1578324
Account # 11928

Project Name: 206265

Collected: 07/20/2015 12:55 by JH

Submitted: 07/21/2015 09:15
Reported: 08/21/2015 16:14

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

PSE18

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry	**SM 5310 C-2000**		**ug/l**	**ug/l**	
00273	Total Organic Carbon	n.a.	960	500	1
	SM 2320 B-1997		**ug/l as CaCO3**	**ug/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	171,000	700	1
12149	Bicarbonate Alkalinity	n.a.	171,000	700	1
	SM 4500-S2 D-2000		**ug/l**	**ug/l**	
00230	Sulfide	18496-25-8	N.D.	54	1

General Sample Comments

CA ELAP Lab Certification No. 2792
DRO bottles were received at the lab on 07/22/15 at 0925.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Full List w/ Sep. Xylenes	SW-846 8260B	1	W152041AA	07/23/2015 14:51	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W152041AA	07/23/2015 14:51	Linda C Pape	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	15204A20A	07/23/2015 21:29	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15204A20A	07/23/2015 21:29	Jeremy C Giffin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	152040004A	07/23/2015 16:05	Kristen N Brandt	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	152030014A	07/23/2015 11:24	Christine E Dolman	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	152030015A	07/24/2015 15:31	Christine E Dolman	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	152030014A	07/22/2015 20:00	Samantha L Bronder	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	152030015A	07/22/2015 20:00	Samantha L Bronder	1
00368	Nitrate Nitrogen	EPA 300.0	1	15202667121A	07/21/2015 15:32	Drew M Gerhart	5
01506	Nitrite Nitrogen	EPA 300.0	1	15202667121A	07/21/2015 15:32	Drew M Gerhart	5
00228	Sulfate	EPA 300.0	1	15202667121A	07/21/2015 15:32	Drew M Gerhart	5
00273	Total Organic Carbon	SM 5310 C-2000	1	15205049501A	07/24/2015 04:44	James S Mathiot	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15204014204A	07/24/2015 01:58	Michele L Graham	1
12149	Bicarbonate Alkalinity	SM 2320 B-1997	1	15204014204A	07/24/2015 01:58	Michele L Graham	1
00230	Sulfide	SM 4500-S2 D-2000	1	15205023001A	07/24/2015 07:55	Susan E Hibner	1

Sample Description: MW-18-W-150720 Filtered Grab Groundwater
Facility# 206265 Job# 385161 GRD
1520 Powell St-Emeryville SLT2007076

LL Sample # WW 7973068
LL Group # 1578324
Account # 11928

Project Name: 206265

Collected: 07/20/2015 12:55 by JH

Submitted: 07/21/2015 09:15
Reported: 08/21/2015 16:14

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved	**EPA 200.7 rev 4.4**		**ug/l**	**ug/l**	
01754	Iron	7439-89-6	N.D.	33.3	1
07058	Manganese	7439-96-5	295	0.80	1

General Sample Comments

CA ELAP Lab Certification No. 2792
This sample was field filtered for dissolved metals.

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
01754	Iron	EPA 200.7 rev 4.4	1	152045716004	07/27/2015 02:00	Tara L Snyder	1
07058	Manganese	EPA 200.7 rev 4.4	1	152045716004	07/27/2015 02:00	Tara L Snyder	1
05716	EPA 600 ICP Digest (tot rec)	EPA 200.7 rev 4.4	1	152045716004	07/26/2015 09:50	James L Mertz	1

Sample Description: MW-19A-W-150720 Grab Groundwater
Facility# 206265 Job# 385161 GRD
1520 Powell St-Emeryville SLT2007076

LL Sample # WW 7973069
LL Group # 1578324
Account # 11928

Project Name: 206265

Collected: 07/20/2015 11:30 by JH

Submitted: 07/21/2015 09:15
Reported: 08/21/2015 16:14

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

PSE19

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	N.D.	6	1
10335	t-Amyl methyl ether	994-05-8	N.D.	0.5	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	t-Butyl alcohol	75-65-0	N.D.	5	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	0.7	0.5	1
10335	1,2-Dichloroethane	107-06-2	0.5	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	6	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethanol	64-17-5	N.D.	50	1
10335	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	Freon 113	76-13-1	N.D.	2	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	di-Isopropyl ether	108-20-3	N.D.	0.5	1

Sample Description: MW-19A-W-150720 Grab Groundwater
Facility# 206265 Job# 385161 GRD
1520 Powell St-Emeryville SLT2007076

LL Sample # WW 7973069
LL Group # 1578324
Account # 11928

Project Name: 206265

Collected: 07/20/2015 11:30 by JH

Submitted: 07/21/2015 09:15
Reported: 08/21/2015 16:14

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

PSE19

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	1	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	0.7	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	15	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Ethane	74-84-0	3.0	1.0	1
07105	Ethene	74-85-1	2.0	1.0	1
07105	Methane	74-82-8	1,500	30	10
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
06609	TPH-DRO CA C10-C28	n.a.	120	50	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	1
	The reverse surrogate, capric acid, is present at <1%.				
Wet Chemistry	**EPA 300.0**		**ug/l**	**ug/l**	
00368	Nitrate Nitrogen	14797-55-8	N.D.	250	5
01506	Nitrite Nitrogen	14797-65-0	N.D.	250	5
00228	Sulfate	14808-79-8	21,400	1,500	5

Sample Description: MW-19A-W-150720 Grab Groundwater
Facility# 206265 Job# 385161 GRD
1520 Powell St-Emeryville SLT2007076

LL Sample # WW 7973069
LL Group # 1578324
Account # 11928

Project Name: 206265

Collected: 07/20/2015 11:30 by JH

Submitted: 07/21/2015 09:15
Reported: 08/21/2015 16:14

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

PSE19

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry	**SM 5310 C-2000**		**ug/l**	**ug/l**	
00273	Total Organic Carbon	n.a.	4,500	500	1
	SM 2320 B-1997		**ug/l as CaCO3**	**ug/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	296,000	700	1
12149	Bicarbonate Alkalinity	n.a.	296,000	700	1
	SM 4500-S2 D-2000		**ug/l**	**ug/l**	
00230	Sulfide	18496-25-8	N.D.	54	1

General Sample Comments

CA ELAP Lab Certification No. 2792
DRO bottles were received at the lab on 07/22/15 at 0925.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Full List w/ Sep. Xylenes	SW-846 8260B	1	W152041AA	07/23/2015 15:39	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W152041AA	07/23/2015 15:39	Linda C Pape	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	15204A20A	07/23/2015 21:56	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15204A20A	07/23/2015 21:56	Jeremy C Giffin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	152040004A	07/23/2015 16:38	Kristen N Brandt	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	152040004A	07/24/2015 09:47	Kristen N Brandt	10
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	152030014A	07/23/2015 11:46	Christine E Dolman	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	152030015A	07/24/2015 15:53	Christine E Dolman	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	152030014A	07/22/2015 20:00	Samantha L Bronder	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	152030015A	07/22/2015 20:00	Samantha L Bronder	1
00368	Nitrate Nitrogen	EPA 300.0	1	15202667121A	07/21/2015 15:47	Drew M Gerhart	5
01506	Nitrite Nitrogen	EPA 300.0	1	15202667121A	07/21/2015 15:47	Drew M Gerhart	5
00228	Sulfate	EPA 300.0	1	15202667121A	07/21/2015 15:47	Drew M Gerhart	5
00273	Total Organic Carbon	SM 5310 C-2000	1	15205049501A	07/24/2015 05:00	James S Mathiot	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15204014204A	07/24/2015 03:25	Michele L Graham	1
12149	Bicarbonate Alkalinity	SM 2320 B-1997	1	15204014204A	07/24/2015 03:25	Michele L Graham	1
00230	Sulfide	SM 4500-S2 D-2000	1	15205023001A	07/24/2015 07:55	Susan E Hibner	1

Sample Description: MW-19A-W-150720 Filtered Grab Groundwater
Facility# 206265 Job# 385161 GRD
1520 Powell St-Emeryville SLT2007076

LL Sample # WW 7973070
LL Group # 1578324
Account # 11928

Project Name: 206265

Collected: 07/20/2015 11:30 by JH

Submitted: 07/21/2015 09:15
Reported: 08/21/2015 16:14

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved	**EPA 200.7 rev 4.4**		**ug/l**	**ug/l**	
01754	Iron	7439-89-6	2,550	33.3	1
07058	Manganese	7439-96-5	2,640	0.80	1

General Sample Comments

CA ELAP Lab Certification No. 2792
This sample was field filtered for dissolved metals.

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
01754	Iron	EPA 200.7 rev 4.4	1	152045716004	07/27/2015 02:03	Tara L Snyder	1
07058	Manganese	EPA 200.7 rev 4.4	1	152045716004	07/27/2015 02:03	Tara L Snyder	1
05716	EPA 600 ICP Digest (tot rec)	EPA 200.7 rev 4.4	1	152045716004	07/26/2015 09:50	James L Mertz	1

Sample Description: MWX-3-W-150720 Grab Groundwater
Facility# 206265 Job# 385161 GRD
1520 Powell St-Emeryville SLT2007076

LL Sample # WW 7973071
LL Group # 1578324
Account # 11928

Project Name: 206265

Collected: 07/20/2015 13:58 by JH

Submitted: 07/21/2015 09:15
Reported: 08/21/2015 16:14

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

PSEX3

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	N.D.	6	1
10335	t-Amyl methyl ether	994-05-8	N.D.	0.5	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	t-Butyl alcohol	75-65-0	N.D.	5	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	62	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	1	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethanol	64-17-5	N.D.	50	1
10335	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	Freon 113	76-13-1	N.D.	2	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	di-Isopropyl ether	108-20-3	N.D.	0.5	1

Sample Description: MWX-3-W-150720 Grab Groundwater
Facility# 206265 Job# 385161 GRD
1520 Powell St-Emeryville SLT2007076

LL Sample # WW 7973071
LL Group # 1578324
Account # 11928

Project Name: 206265

Collected: 07/20/2015 13:58 by JH

Submitted: 07/21/2015 09:15
Reported: 08/21/2015 16:14

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

PSEX3

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	2	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	19	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Ethane	74-84-0	7.1	1.0	1
07105	Ethene	74-85-1	2.2	1.0	1
07105	Methane	74-82-8	15,000	300	100
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
06609	TPH-DRO CA C10-C28	n.a.	390	50	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	120	50	1
	The reverse surrogate, capric acid, is present at <1%.				
Wet Chemistry	**EPA 300.0**		**ug/l**	**ug/l**	
00368	Nitrate Nitrogen	14797-55-8	N.D.	250	5
01506	Nitrite Nitrogen	14797-65-0	N.D.	250	5
00228	Sulfate	14808-79-8	87,500	3,000	10

Sample Description: MWX-3-W-150720 Grab Groundwater
Facility# 206265 Job# 385161 GRD
1520 Powell St-Emeryville SLT2007076

LL Sample # WW 7973071
LL Group # 1578324
Account # 11928

Project Name: 206265

Collected: 07/20/2015 13:58 by JH

Submitted: 07/21/2015 09:15
Reported: 08/21/2015 16:14

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

PSEX3

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry	**SM 5310 C-2000**		**ug/l**	**ug/l**	
00273	Total Organic Carbon	n.a.	5,200	500	1
	SM 2320 B-1997		**ug/l as CaCO3**	**ug/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	739,000	700	1
12149	Bicarbonate Alkalinity	n.a.	739,000	700	1
	SM 4500-S2 D-2000		**ug/l**	**ug/l**	
00230	Sulfide	18496-25-8	N.D.	54	1

General Sample Comments

CA ELAP Lab Certification No. 2792
One DRO bottle was received at the lab on 07/22/15 at 0925.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Full List w/ Sep. Xylenes	SW-846 8260B	1	W152041AA	07/23/2015 15:15	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W152041AA	07/23/2015 15:15	Linda C Pape	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	15204A20A	07/23/2015 22:51	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15204A20A	07/23/2015 22:51	Jeremy C Giffin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	152050002A	07/24/2015 15:26	Kristen N Brandt	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	152050002A	07/27/2015 10:20	Kristen N Brandt	100
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	152030014A	07/23/2015 12:08	Christine E Dolman	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	152030015A	07/24/2015 16:15	Christine E Dolman	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	152030014A	07/22/2015 20:00	Samantha L Bronder	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	152030015A	07/22/2015 20:00	Samantha L Bronder	1
00368	Nitrate Nitrogen	EPA 300.0	1	15202667121A	07/21/2015 16:47	Drew M Gerhart	5
01506	Nitrite Nitrogen	EPA 300.0	1	15202667121A	07/21/2015 16:47	Drew M Gerhart	5
00228	Sulfate	EPA 300.0	1	15202667121A	07/21/2015 17:02	Drew M Gerhart	10
00273	Total Organic Carbon	SM 5310 C-2000	1	15205049501A	07/24/2015 05:15	James S Mathiot	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15204014204A	07/24/2015 03:17	Michele L Graham	1
12149	Bicarbonate Alkalinity	SM 2320 B-1997	1	15204014204A	07/24/2015 03:17	Michele L Graham	1
00230	Sulfide	SM 4500-S2 D-2000	1	15205023001A	07/24/2015 07:55	Susan E Hibner	1

Sample Description: MWX-3-W-150720 Filtered Grab Groundwater
Facility# 206265 Job# 385161 GRD
1520 Powell St-Emeryville SLT2007076

LL Sample # WW 7973072
LL Group # 1578324
Account # 11928

Project Name: 206265

Collected: 07/20/2015 13:58 by JH

Submitted: 07/21/2015 09:15
Reported: 08/21/2015 16:14

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved	**EPA 200.7 rev 4.4**		**ug/l**	**ug/l**	
01754	Iron	7439-89-6	2,790	33.3	1
07058	Manganese	7439-96-5	6,560	0.80	1

General Sample Comments

CA ELAP Lab Certification No. 2792
This sample was field filtered for dissolved metals.

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
01754	Iron	EPA 200.7 rev 4.4	1	152045716004	07/27/2015 02:13	Tara L Snyder	1
07058	Manganese	EPA 200.7 rev 4.4	1	152045716004	07/27/2015 02:13	Tara L Snyder	1
05716	EPA 600 ICP Digest (tot rec)	EPA 200.7 rev 4.4	1	152045716004	07/26/2015 09:50	James L Mertz	1

Sample Description: MWX-6-W-150720 Grab Groundwater
Facility# 206265 Job# 385161 GRD
1520 Powell St-Emeryville SLT2007076

LL Sample # WW 7973073
LL Group # 1578324
Account # 11928

Project Name: 206265

Collected: 07/20/2015 10:45 by JH

Submitted: 07/21/2015 09:15
Reported: 08/21/2015 16:14

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

PSEX6

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

Sample Description: MWX-6-W-150720 Grab Groundwater
Facility# 206265 Job# 385161 GRD
1520 Powell St-Emeryville SLT2007076

LL Sample # WW 7973073
LL Group # 1578324
Account # 11928

Project Name: 206265

Collected: 07/20/2015 10:45 by JH

Submitted: 07/21/2015 09:15
Reported: 08/21/2015 16:14

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

PSEX6

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Ethane	74-84-0	N.D.	1.0	1
07105	Ethene	74-85-1	N.D.	1.0	1
07105	Methane	74-82-8	240	3.0	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
06609	TPH-DRO CA C10-C28	n.a.	65	50	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	1
	The reverse surrogate, capric acid, is present at <1%.				
Wet Chemistry	**EPA 300.0**		**ug/l**	**ug/l**	
00368	Nitrate Nitrogen	14797-55-8	N.D.	250	5
01506	Nitrite Nitrogen	14797-65-0	N.D.	250	5
00228	Sulfate	14808-79-8	19,400	1,500	5

Sample Description: MWX-6-W-150720 Grab Groundwater
Facility# 206265 Job# 385161 GRD
1520 Powell St-Emeryville SLT2007076

LL Sample # WW 7973073
LL Group # 1578324
Account # 11928

Project Name: 206265

Collected: 07/20/2015 10:45 by JH

Submitted: 07/21/2015 09:15
Reported: 08/21/2015 16:14

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

PSEX6

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry	**SM 5310 C-2000**		**ug/l**	**ug/l**	
00273	Total Organic Carbon	n.a.	3,400	500	1
	SM 2320 B-1997		**ug/l as CaCO3**	**ug/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	238,000	700	1
12149	Bicarbonate Alkalinity	n.a.	238,000	700	1
	SM 4500-S2 D-2000		**ug/l**	**ug/l**	
00230	Sulfide	18496-25-8	N.D.	54	1

General Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Full List w/ Sep. Xylenes	SW-846 8260B	1	W152041AA	07/23/2015 16:03	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W152041AA	07/23/2015 16:03	Linda C Pape	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	15204A20A	07/23/2015 23:18	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15204A20A	07/23/2015 23:18	Jeremy C Giffin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	152050002A	07/24/2015 15:59	Kristen N Brandt	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	152030014A	07/23/2015 12:30	Christine E Dolman	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	152030015A	07/24/2015 16:37	Christine E Dolman	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	152030014A	07/22/2015 20:00	Samantha L Bronder	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	152030015A	07/22/2015 20:00	Samantha L Bronder	1
00368	Nitrate Nitrogen	EPA 300.0	1	15202667121A	07/21/2015 18:35	Drew M Gerhart	5
01506	Nitrite Nitrogen	EPA 300.0	1	15202667121A	07/21/2015 18:35	Drew M Gerhart	5
00228	Sulfate	EPA 300.0	1	15202667121A	07/21/2015 18:35	Drew M Gerhart	5
00273	Total Organic Carbon	SM 5310 C-2000	1	15205049501A	07/24/2015 05:47	James S Mathiot	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15204014203A	07/24/2015 01:22	Michele L Graham	1
12149	Bicarbonate Alkalinity	SM 2320 B-1997	1	15204014203A	07/24/2015 01:22	Michele L Graham	1
00230	Sulfide	SM 4500-S2 D-2000	1	15205023001A	07/24/2015 07:55	Susan E Hibner	1

Sample Description: MWX-6-W-150720 Filtered Grab Groundwater
Facility# 206265 Job# 385161 GRD
1520 Powell St-Emeryville SLT2007076

LL Sample # WW 7973074
LL Group # 1578324
Account # 11928

Project Name: 206265

Collected: 07/20/2015 10:45 by JH

Submitted: 07/21/2015 09:15
Reported: 08/21/2015 16:14

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved	**EPA 200.7 rev 4.4**		ug/l	ug/l	
01754	Iron	7439-89-6	336	33.3	1
07058	Manganese	7439-96-5	1,800	0.80	1

General Sample Comments

CA ELAP Lab Certification No. 2792
This sample was field filtered for dissolved metals.

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
01754	Iron	EPA 200.7 rev 4.4	1	152045716004	07/27/2015 02:16	Tara L Snyder	1
07058	Manganese	EPA 200.7 rev 4.4	1	152045716004	07/27/2015 02:16	Tara L Snyder	1
05716	EPA 600 ICP Digest (tot rec)	EPA 200.7 rev 4.4	1	152045716004	07/26/2015 09:50	James L Mertz	1

Sample Description: MWX-8-W-150720 Grab Groundwater
Facility# 206265 Job# 385161 GRD
1520 Powell St-Emeryville SLT2007076

LL Sample # WW 7973075
LL Group # 1578324
Account # 11928

Project Name: 206265

Collected: 07/20/2015 09:00 by JH

Submitted: 07/21/2015 09:15
Reported: 08/21/2015 16:14

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

PSEX8

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

Sample Description: MWX-8-W-150720 Grab Groundwater
Facility# 206265 Job# 385161 GRD
1520 Powell St-Emeryville SLT2007076

LL Sample # WW 7973075
LL Group # 1578324
Account # 11928

Project Name: 206265

Collected: 07/20/2015 09:00 by JH

Submitted: 07/21/2015 09:15
Reported: 08/21/2015 16:14

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

PSEX8

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	1	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Ethane	74-84-0	7.6	1.0	1
07105	Ethene	74-85-1	N.D.	1.0	1
07105	Methane	74-82-8	2,600	60	20
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
06609	TPH-DRO CA C10-C28	n.a.	65	50	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	1
	The reverse surrogate, capric acid, is present at <1%.				
Wet Chemistry	**EPA 300.0**		**ug/l**	**ug/l**	
00368	Nitrate Nitrogen	14797-55-8	N.D.	250	5
01506	Nitrite Nitrogen	14797-65-0	N.D.	250	5
00228	Sulfate	14808-79-8	15,900	1,500	5

Sample Description: MWX-8-W-150720 Grab Groundwater
Facility# 206265 Job# 385161 GRD
1520 Powell St-Emeryville SLT2007076

LL Sample # WW 7973075
LL Group # 1578324
Account # 11928

Project Name: 206265

Collected: 07/20/2015 09:00 by JH

Submitted: 07/21/2015 09:15
Reported: 08/21/2015 16:14

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

PSEX8

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry	**SM 5310 C-2000**		**ug/l**	**ug/l**	
00273	Total Organic Carbon	n.a.	3,000	500	1
	SM 2320 B-1997		**ug/l as CaCO3**	**ug/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	277,000	700	1
12149	Bicarbonate Alkalinity	n.a.	277,000	700	1
	SM 4500-S2 D-2000		**ug/l**	**ug/l**	
00230	Sulfide	18496-25-8	N.D.	54	1

General Sample Comments

CA ELAP Lab Certification No. 2792
One DRO bottle was received at the lab on 07/22/15 at 0925.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Full List w/ Sep. Xylenes	SW-846 8260B	1	W152041AA	07/23/2015 16:27	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W152041AA	07/23/2015 16:27	Linda C Pape	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	15204A20A	07/23/2015 23:45	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15204A20A	07/23/2015 23:45	Jeremy C Giffin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	152050002A	07/24/2015 16:16	Kristen N Brandt	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	152050002A	07/27/2015 10:37	Kristen N Brandt	20
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	152030014A	07/23/2015 12:51	Christine E Dolman	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	152030015A	07/24/2015 17:00	Christine E Dolman	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	152030014A	07/22/2015 20:00	Samantha L Bronder	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	152030015A	07/22/2015 20:00	Samantha L Bronder	1
00368	Nitrate Nitrogen	EPA 300.0	1	15202667121A	07/21/2015 19:35	Drew M Gerhart	5
01506	Nitrite Nitrogen	EPA 300.0	1	15202667121A	07/21/2015 19:35	Drew M Gerhart	5
00228	Sulfate	EPA 300.0	1	15202667121A	07/21/2015 19:35	Drew M Gerhart	5
00273	Total Organic Carbon	SM 5310 C-2000	1	15205049501A	07/24/2015 06:02	James S Mathiot	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15204014204B	07/24/2015 03:01	Michele L Graham	1
12149	Bicarbonate Alkalinity	SM 2320 B-1997	1	15204014204B	07/24/2015 03:01	Michele L Graham	1
00230	Sulfide	SM 4500-S2 D-2000	1	15205023001A	07/24/2015 07:55	Susan E Hibner	1

Sample Description: MWX-8-W-150720 Filtered Grab Groundwater
Facility# 206265 Job# 385161 GRD
1520 Powell St-Emeryville SLT2007076

LL Sample # WW 7973076
LL Group # 1578324
Account # 11928

Project Name: 206265

Collected: 07/20/2015 09:00 by JH

Submitted: 07/21/2015 09:15
Reported: 08/21/2015 16:14

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved	**EPA 200.7 rev 4.4**		**ug/l**	**ug/l**	
01754	Iron	7439-89-6	4,590	33.3	1
07058	Manganese	7439-96-5	4,780	0.80	1

General Sample Comments

CA ELAP Lab Certification No. 2792
This sample was field filtered for dissolved metals.

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
01754	Iron	EPA 200.7 rev 4.4	1	152045716004	07/27/2015 01:41	Tara L Snyder	1
07058	Manganese	EPA 200.7 rev 4.4	1	152045716004	07/27/2015 01:41	Tara L Snyder	1
05716	EPA 600 ICP Digest (tot rec)	EPA 200.7 rev 4.4	1	152045716004	07/26/2015 09:50	James L Mertz	1

Sample Description: MWX-9-W-150720 Grab Groundwater
Facility# 206265 Job# 385161 GRD
1520 Powell St-Emeryville SLT2007076

LL Sample # WW 7973077
LL Group # 1578324
Account # 11928

Project Name: 206265

Collected: 07/20/2015 09:45 by JH

Submitted: 07/21/2015 09:15
Reported: 08/21/2015 16:14

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

PSEX9

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	N.D.	6	1
10335	t-Amyl methyl ether	994-05-8	N.D.	0.5	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	t-Butyl alcohol	75-65-0	N.D.	5	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	22	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	0.8	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethanol	64-17-5	N.D.	50	1
10335	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	Freon 113	76-13-1	N.D.	2	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	di-Isopropyl ether	108-20-3	N.D.	0.5	1

Sample Description: MWX-9-W-150720 Grab Groundwater
Facility# 206265 Job# 385161 GRD
1520 Powell St-Emeryville SLT2007076

LL Sample # WW 7973077
LL Group # 1578324
Account # 11928

Project Name: 206265

Collected: 07/20/2015 09:45 by JH

Submitted: 07/21/2015 09:15
Reported: 08/21/2015 16:14

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

PSEX9

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	5	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	14	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Ethane	74-84-0	N.D.	1.0	1
07105	Ethene	74-85-1	N.D.	1.0	1
07105	Methane	74-82-8	17	3.0	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
06609	TPH-DRO CA C10-C28	n.a.	52	50	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	1
	The reverse surrogate, capric acid, is present at <1%.				
Wet Chemistry	**EPA 300.0**		**ug/l**	**ug/l**	
00368	Nitrate Nitrogen	14797-55-8	N.D.	250	5
01506	Nitrite Nitrogen	14797-65-0	N.D.	250	5
00228	Sulfate	14808-79-8	19,500	1,500	5

Sample Description: MWX-9-W-150720 Grab Groundwater
Facility# 206265 Job# 385161 GRD
1520 Powell St-Emeryville SLT2007076

LL Sample # WW 7973077
LL Group # 1578324
Account # 11928

Project Name: 206265

Collected: 07/20/2015 09:45 by JH

Submitted: 07/21/2015 09:15
Reported: 08/21/2015 16:14

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

PSEX9

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry	**SM 5310 C-2000**		**ug/l**	**ug/l**	
00273	Total Organic Carbon	n.a.	2,600	500	1
	SM 2320 B-1997		**ug/l as CaCO3**	**ug/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	211,000	700	1
12149	Bicarbonate Alkalinity	n.a.	211,000	700	1
	SM 4500-S2 D-2000		**ug/l**	**ug/l**	
00230	Sulfide	18496-25-8	N.D.	54	1

General Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Full List w/ Sep. Xylenes	SW-846 8260B	1	W152041AA	07/23/2015 16:51	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W152041AA	07/23/2015 16:51	Linda C Pape	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	15204A20A	07/24/2015 00:13	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15204A20A	07/24/2015 00:13	Jeremy C Giffin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	152050002A	07/24/2015 16:33	Kristen N Brandt	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	152030014A	07/23/2015 13:13	Christine E Dolman	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	152030015A	07/24/2015 17:22	Christine E Dolman	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	152030014A	07/22/2015 20:00	Samantha L Bronder	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	152030015A	07/22/2015 20:00	Samantha L Bronder	1
00368	Nitrate Nitrogen	EPA 300.0	1	15202667121A	07/21/2015 20:05	Drew M Gerhart	5
01506	Nitrite Nitrogen	EPA 300.0	1	15202667121A	07/21/2015 20:05	Drew M Gerhart	5
00228	Sulfate	EPA 300.0	1	15202667121A	07/21/2015 20:05	Drew M Gerhart	5
00273	Total Organic Carbon	SM 5310 C-2000	1	15205049501A	07/24/2015 06:17	James S Mathiot	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15204014203A	07/23/2015 23:50	Michele L Graham	1
12149	Bicarbonate Alkalinity	SM 2320 B-1997	1	15204014203A	07/23/2015 23:50	Michele L Graham	1
00230	Sulfide	SM 4500-S2 D-2000	1	15205023001A	07/24/2015 07:55	Susan E Hibner	1

Sample Description: MWX-9-W-150720 Filtered Grab Groundwater
Facility# 206265 Job# 385161 GRD
1520 Powell St-Emeryville SLT2007076

LL Sample # WW 7973078
LL Group # 1578324
Account # 11928

Project Name: 206265

Collected: 07/20/2015 09:45 by JH

Submitted: 07/21/2015 09:15
Reported: 08/21/2015 16:14

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved	**EPA 200.7 rev 4.4**		**ug/l**	**ug/l**	
01754	Iron	7439-89-6	N.D.	33.3	1
07058	Manganese	7439-96-5	216	0.80	1

General Sample Comments

CA ELAP Lab Certification No. 2792
This sample was field filtered for dissolved metals.

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
01754	Iron	EPA 200.7 rev 4.4	1	152045716004	07/27/2015 02:19	Tara L Snyder	1
07058	Manganese	EPA 200.7 rev 4.4	1	152045716004	07/27/2015 02:19	Tara L Snyder	1
05716	EPA 600 ICP Digest (tot rec)	EPA 200.7 rev 4.4	1	152045716004	07/26/2015 09:50	James L Mertz	1

Sample Description: MWX-10A-W-150720 Grab Groundwater
Facility# 206265 Job# 385161 GRD
1520 Powell St-Emeryville SLT2007076

LL Sample # WW 7973079
LL Group # 1578324
Account # 11928

Project Name: 206265

Collected: 07/20/2015 12:45 by JH

Submitted: 07/21/2015 09:15
Reported: 08/21/2015 16:14

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

PSE10

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

Sample Description: MWX-10A-W-150720 Grab Groundwater
Facility# 206265 Job# 385161 GRD
1520 Powell St-Emeryville SLT2007076

LL Sample # WW 7973079
LL Group # 1578324
Account # 11928

Project Name: 206265

Collected: 07/20/2015 12:45 by JH

Submitted: 07/21/2015 09:15
Reported: 08/21/2015 16:14

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

PSE10

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	3	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Ethane	74-84-0	N.D.	1.0	1
07105	Ethene	74-85-1	N.D.	1.0	1
07105	Methane	74-82-8	N.D.	3.0	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
06609	TPH-DRO CA C10-C28	n.a.	680	50	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	1
	The reverse surrogate, capric acid, is present at <1%.				
Wet Chemistry	**EPA 300.0**		**ug/l**	**ug/l**	
00368	Nitrate Nitrogen	14797-55-8	6,800	250	5
01506	Nitrite Nitrogen	14797-65-0	N.D.	250	5
00228	Sulfate	14808-79-8	89,800	6,000	20

Sample Description: MWX-10A-W-150720 Grab Groundwater
Facility# 206265 Job# 385161 GRD
1520 Powell St-Emeryville SLT2007076

LL Sample # WW 7973079
LL Group # 1578324
Account # 11928

Project Name: 206265

Collected: 07/20/2015 12:45 by JH

Submitted: 07/21/2015 09:15
Reported: 08/21/2015 16:14

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

PSE10

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry	**SM 5310 C-2000**		**ug/l**	**ug/l**	
00273	Total Organic Carbon	n.a.	7,100	500	1
	SM 2320 B-1997		**ug/l as CaCO3**	**ug/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	147,000	700	1
12149	Bicarbonate Alkalinity	n.a.	147,000	700	1
	SM 4500-S2 D-2000		**ug/l**	**ug/l**	
00230	Sulfide	18496-25-8	N.D.	54	1

General Sample Comments

CA ELAP Lab Certification No. 2792
DRO bottles were received at the lab on 07/22/15 at 0925.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Full List w/ Sep. Xylenes	SW-846 8260B	1	W152041AA	07/23/2015 17:15	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W152041AA	07/23/2015 17:15	Linda C Pape	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	15204A20A	07/24/2015 00:40	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15204A20A	07/24/2015 00:40	Jeremy C Giffin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	152050002A	07/24/2015 16:50	Kristen N Brandt	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	152030014A	07/23/2015 13:57	Christine E Dolman	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	152030015A	07/24/2015 17:44	Christine E Dolman	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	152030014A	07/22/2015 20:00	Samantha L Bronder	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	152030015A	07/22/2015 20:00	Samantha L Bronder	1
00368	Nitrate Nitrogen	EPA 300.0	1	15202667121A	07/21/2015 20:35	Drew M Gerhart	5
01506	Nitrite Nitrogen	EPA 300.0	1	15202667121A	07/21/2015 20:35	Drew M Gerhart	5
00228	Sulfate	EPA 300.0	1	15202667121A	07/21/2015 20:50	Drew M Gerhart	20
00273	Total Organic Carbon	SM 5310 C-2000	1	15205049501A	07/24/2015 06:32	James S Mathiot	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15204014204A	07/24/2015 04:22	Michele L Graham	1
12149	Bicarbonate Alkalinity	SM 2320 B-1997	1	15204014204A	07/24/2015 04:22	Michele L Graham	1
00230	Sulfide	SM 4500-S2 D-2000	1	15205023001A	07/24/2015 07:55	Susan E Hibner	1

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Analysis Report

Sample Description: MWX-10A-W-150720 Filtered Grab Groundwater
Facility# 206265 Job# 385161 GRD
1520 Powell St-Emeryville SLT2007076

LL Sample # WW 7973080
LL Group # 1578324
Account # 11928

Project Name: 206265

Collected: 07/20/2015 12:45 by JH

Submitted: 07/21/2015 09:15
Reported: 08/21/2015 16:14

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved	**EPA 200.7 rev 4.4**		ug/l	ug/l	
01754	Iron	7439-89-6	47.2	33.3	1
07058	Manganese	7439-96-5	48.4	0.80	1

General Sample Comments

CA ELAP Lab Certification No. 2792
This sample was field filtered for dissolved metals.

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
01754	Iron	EPA 200.7 rev 4.4	1	152045716004	07/27/2015 02:22	Tara L Snyder	1
07058	Manganese	EPA 200.7 rev 4.4	1	152045716004	07/27/2015 02:22	Tara L Snyder	1
05716	EPA 600 ICP Digest (tot rec)	EPA 200.7 rev 4.4	1	152045716004	07/26/2015 09:50	James L Mertz	1

Sample Description: MWX-11A-W-150720 Grab Groundwater
Facility# 206265 Job# 385161 GRD
1520 Powell St-Emeryville SLT2007076

LL Sample # WW 7973081
LL Group # 1578324
Account # 11928

Project Name: 206265

Collected: 07/20/2015 10:10 by JH

Submitted: 07/21/2015 09:15
Reported: 08/21/2015 16:14

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

PSE11

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

Sample Description: MWX-11A-W-150720 Grab Groundwater
Facility# 206265 Job# 385161 GRD
1520 Powell St-Emeryville SLT2007076

LL Sample # WW 7973081
LL Group # 1578324
Account # 11928

Project Name: 206265

Collected: 07/20/2015 10:10 by JH

Submitted: 07/21/2015 09:15
Reported: 08/21/2015 16:14

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

PSE11

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	14	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Ethane	74-84-0	N.D.	1.0	1
07105	Ethene	74-85-1	N.D.	1.0	1
07105	Methane	74-82-8	4.1	3.0	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
06609	TPH-DRO CA C10-C28	n.a.	290	50	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	1
	The reverse surrogate, capric acid, is present at <1%.				
Wet Chemistry	**EPA 300.0**		**ug/l**	**ug/l**	
00368	Nitrate Nitrogen	14797-55-8	N.D.	250	5
01506	Nitrite Nitrogen	14797-65-0	N.D.	250	5
00228	Sulfate	14808-79-8	151,000	6,000	20

Sample Description: MWX-11A-W-150720 Grab Groundwater
Facility# 206265 Job# 385161 GRD
1520 Powell St-Emeryville SLT2007076

LL Sample # WW 7973081
LL Group # 1578324
Account # 11928

Project Name: 206265

Collected: 07/20/2015 10:10 by JH

Submitted: 07/21/2015 09:15
Reported: 08/21/2015 16:14

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

PSE11

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry	**SM 5310 C-2000**		**ug/l**	**ug/l**	
00273	Total Organic Carbon	n.a.	9,600	500	1
	SM 2320 B-1997		**ug/l as CaCO3**	**ug/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	419,000	700	1
12149	Bicarbonate Alkalinity	n.a.	419,000	700	1
	SM 4500-S2 D-2000		**ug/l**	**ug/l**	
00230	Sulfide	18496-25-8	N.D.	54	1

General Sample Comments

CA ELAP Lab Certification No. 2792
DRO bottles were received at the lab on 07/22/15 at 0925.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Full List w/ Sep. Xylenes	SW-846 8260B	1	W152041AA	07/23/2015 17:39	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W152041AA	07/23/2015 17:39	Linda C Pape	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	15204A20A	07/24/2015 01:08	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15204A20A	07/24/2015 01:08	Jeremy C Giffin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	152050002A	07/24/2015 17:07	Kristen N Brandt	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	152030014A	07/23/2015 13:35	Christine E Dolman	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	152030015A	07/24/2015 18:06	Christine E Dolman	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	152030014A	07/22/2015 20:00	Samantha L Bronder	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	152030015A	07/22/2015 20:00	Samantha L Bronder	1
00368	Nitrate Nitrogen	EPA 300.0	1	15202667121A	07/21/2015 21:05	Drew M Gerhart	5
01506	Nitrite Nitrogen	EPA 300.0	1	15202667121A	07/21/2015 21:05	Drew M Gerhart	5
00228	Sulfate	EPA 300.0	1	15202667121A	07/21/2015 21:21	Drew M Gerhart	20
00273	Total Organic Carbon	SM 5310 C-2000	1	15205049501B	07/24/2015 06:47	James S Mathiot	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15204014204A	07/24/2015 04:38	Michele L Graham	1
12149	Bicarbonate Alkalinity	SM 2320 B-1997	1	15204014204A	07/24/2015 04:38	Michele L Graham	1
00230	Sulfide	SM 4500-S2 D-2000	1	15205023001A	07/24/2015 07:55	Susan E Hibner	1

Sample Description: MWX-11A-W-150720 Filtered Grab Groundwater
Facility# 206265 Job# 385161 GRD
1520 Powell St-Emeryville SLT2007076

LL Sample # WW 7973082
LL Group # 1578324
Account # 11928

Project Name: 206265

Collected: 07/20/2015 10:10 by JH

Submitted: 07/21/2015 09:15
Reported: 08/21/2015 16:14

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved	**EPA 200.7 rev 4.4**		**ug/l**	**ug/l**	
01754	Iron	7439-89-6	863	33.3	1
07058	Manganese	7439-96-5	2,470	0.80	1

General Sample Comments

CA ELAP Lab Certification No. 2792
This sample was field filtered for dissolved metals.

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
01754	Iron	EPA 200.7 rev 4.4	1	152045716004	07/27/2015 02:25	Tara L Snyder	1
07058	Manganese	EPA 200.7 rev 4.4	1	152045716004	07/27/2015 02:25	Tara L Snyder	1
05716	EPA 600 ICP Digest (tot rec)	EPA 200.7 rev 4.4	1	152045716004	07/26/2015 09:50	James L Mertz	1

Quality Control Summary

Client Name: Chevron Group Number: 1578324
Reported: 08/21/2015 16:14

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.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: W152041AA	Sample number(s): 7973065,7973067,7973069,7973071,7973073,7973075,7973077,7973079,7973081							
Acetone	N.D.	6.	ug/l	103	90	55-129	14	30
t-Amyl methyl ether	N.D.	0.5	ug/l	89	89	75-120	0	30
Benzene	N.D.	0.5	ug/l	105	103	78-120	1	30
Bromobenzene	N.D.	1.	ug/l	100	99	80-120	1	30
Bromochloromethane	N.D.	1.	ug/l	99	97	80-120	2	30
Bromodichloromethane	N.D.	0.5	ug/l	88	88	73-120	0	30
Bromoform	N.D.	0.5	ug/l	90	88	52-123	2	30
Bromomethane	N.D.	0.5	ug/l	88	88	53-130	1	30
2-Butanone	N.D.	3.	ug/l	91	93	54-133	2	30
t-Butyl alcohol	N.D.	5.	ug/l	102	89	78-121	13	30
n-Butylbenzene	N.D.	1.	ug/l	100	99	68-120	1	30
sec-Butylbenzene	N.D.	1.	ug/l	103	100	75-120	3	30
tert-Butylbenzene	N.D.	1.	ug/l	100	100	80-120	0	30
Carbon Disulfide	N.D.	1.	ug/l	84	83	58-126	1	30
Carbon Tetrachloride	N.D.	0.5	ug/l	95	92	74-130	3	30
Chlorobenzene	N.D.	0.5	ug/l	105	102	80-120	3	30
Chloroethane	N.D.	0.5	ug/l	87	89	56-120	2	30
2-Chloroethyl Vinyl Ether	N.D.	2.	ug/l	80	81	44-143	2	30
Chloroform	N.D.	0.5	ug/l	99	98	80-120	0	30
Chloromethane	N.D.	0.5	ug/l	90	90	63-120	0	30
2-Chlorotoluene	N.D.	1.	ug/l	101	99	80-120	3	30
4-Chlorotoluene	N.D.	1.	ug/l	99	98	80-120	1	30
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/l	78	78	56-120	0	30
Dibromochloromethane	N.D.	0.5	ug/l	92	90	72-120	2	30
1,2-Dibromoethane	N.D.	0.5	ug/l	101	99	80-120	2	30
Dibromomethane	N.D.	0.5	ug/l	98	98	80-120	0	30
1,2-Dichlorobenzene	N.D.	1.	ug/l	103	101	80-120	2	30
1,3-Dichlorobenzene	N.D.	1.	ug/l	102	101	80-120	1	30
1,4-Dichlorobenzene	N.D.	1.	ug/l	103	102	80-120	1	30
Dichlorodifluoromethane	N.D.	0.5	ug/l	87	88	55-127	0	30
1,1-Dichloroethane	N.D.	0.5	ug/l	96	98	80-120	2	30
1,2-Dichloroethane	N.D.	0.5	ug/l	94	95	72-127	1	30
1,1-Dichloroethene	N.D.	0.5	ug/l	104	101	76-124	4	30
cis-1,2-Dichloroethene	N.D.	0.5	ug/l	102	100	80-120	1	30
trans-1,2-Dichloroethene	N.D.	0.5	ug/l	106	105	80-120	1	30
1,2-Dichloropropane	N.D.	0.5	ug/l	100	101	80-120	0	30
1,3-Dichloropropane	N.D.	0.5	ug/l	99	97	80-120	2	30
2,2-Dichloropropane	N.D.	0.5	ug/l	90	90	63-131	0	30
1,1-Dichloropropene	N.D.	1.	ug/l	99	97	80-126	2	30
cis-1,3-Dichloropropene	N.D.	0.5	ug/l	89	89	80-120	0	30
trans-1,3-Dichloropropene	N.D.	0.5	ug/l	86	84	76-120	2	30
Ethanol	N.D.	50.	ug/l	125	108	49-144	14	30

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

Quality Control Summary

Client Name: Chevron Group Number: 1578324
Reported: 08/21/2015 16:14

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Ethyl t-butyl ether	N.D.	0.5	ug/l	91	90	69-120	0	30
Ethylbenzene	N.D.	0.5	ug/l	104	101	80-120	3	30
Freon 113	N.D.	2.	ug/l	91	87	67-127	5	30
Hexachlorobutadiene	N.D.	2.	ug/l	97	94	60-120	3	30
2-Hexanone	N.D.	3.	ug/l	88	87	50-131	1	30
di-Isopropyl ether	N.D.	0.5	ug/l	98	99	70-124	0	30
Isopropylbenzene	N.D.	1.	ug/l	103	102	80-120	1	30
p-Isopropyltoluene	N.D.	1.	ug/l	98	98	76-120	1	30
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	96	97	75-120	1	30
4-Methyl-2-pentanone	N.D.	3.	ug/l	89	90	51-124	1	30
Methylene Chloride	N.D.	2.	ug/l	100	100	80-120	1	30
Naphthalene	N.D.	1.	ug/l	93	93	59-120	1	30
n-Propylbenzene	N.D.	1.	ug/l	103	102	80-120	2	30
Styrene	N.D.	1.	ug/l	96	93	80-120	3	30
1,1,1,2-Tetrachloroethane	N.D.	0.5	ug/l	95	94	80-120	1	30
1,1,2,2-Tetrachloroethane	N.D.	0.5	ug/l	95	94	70-120	1	30
Tetrachloroethene	N.D.	0.5	ug/l	107	105	80-120	2	30
Toluene	N.D.	0.5	ug/l	104	102	80-120	2	30
1,2,3-Trichlorobenzene	N.D.	1.	ug/l	98	99	69-120	1	30
1,2,4-Trichlorobenzene	N.D.	1.	ug/l	98	99	73-120	1	30
1,1,1-Trichloroethane	N.D.	0.5	ug/l	92	92	66-126	1	30
1,1,2-Trichloroethane	N.D.	0.5	ug/l	100	97	80-120	3	30
Trichloroethene	N.D.	0.5	ug/l	104	102	80-120	2	30
Trichlorofluoromethane	N.D.	0.5	ug/l	95	94	58-135	0	30
1,2,3-Trichloropropane	N.D.	1.	ug/l	99	98	76-120	2	30
1,2,4-Trimethylbenzene	N.D.	1.	ug/l	100	97	80-120	2	30
1,3,5-Trimethylbenzene	N.D.	1.	ug/l	99	98	80-120	1	30
Vinyl Chloride	N.D.	0.5	ug/l	89	89	69-120	0	30
m+p-Xylene	N.D.	0.5	ug/l	103	101	80-120	2	30
o-Xylene	N.D.	0.5	ug/l	99	97	80-120	2	30
Batch number: Z152032AA	Sample number(s): 7973064							
Benzene	N.D.	0.5	ug/l	96		78-120		
Ethylbenzene	N.D.	0.5	ug/l	96		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	95		75-120		
Toluene	N.D.	0.5	ug/l	97		80-120		
Xylene (Total)	N.D.	0.5	ug/l	100		80-120		
Batch number: 15204A20A	Sample number(s): 7973064-7973065,7973067,7973069,7973071,7973073,7973075,7973077,7973079,7973081							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	91	90	80-139	1	30
Batch number: 152040004A	Sample number(s): 7973065,7973067,7973069							
Ethane	N.D.	1.0	ug/l	102		85-115		
Ethene	N.D.	1.0	ug/l	100		83-115		
Methane	N.D.	3.0	ug/l	103		85-115		
Batch number: 152050002A	Sample number(s): 7973071,7973073,7973075,7973077,7973079,7973081							
Ethane	N.D.	1.0	ug/l	96		85-115		
Ethene	N.D.	1.0	ug/l	95		83-115		
Methane	N.D.	3.0	ug/l	97		85-115		
Batch number: 152030014A	Sample number(s): 7973065,7973067,7973069,7973071,7973073,7973075,7973077,7973079,7973081							
TPH-DRO CA C10-C28	N.D.	50.	ug/l	79	65	56-114	20	20

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

Quality Control Summary

Client Name: Chevron Group Number: 1578324
Reported: 08/21/2015 16:14

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 152030015A	Sample number(s): 7973065,7973067,7973069,7973071,7973073,7973075,7973077,7973079,7973081							
TPH-DRO CA C10-C28 w/ Si Gel	N.D.	50.	ug/l	81	55	40-105	37*	20
Batch number: 152045716004	Sample number(s): 7973066,7973068,7973070,7973072,7973074,7973076,7973078,7973080,7973082							
Iron	N.D.	33.3	ug/l	97		85-115		
Manganese	N.D.	0.80	ug/l	93		85-115		
Batch number: 15202667121A	Sample number(s): 7973065,7973067,7973069,7973071,7973073,7973075,7973077,7973079,7973081							
Nitrate Nitrogen	N.D.	50.	ug/l	99	99	90-111	1	20
Nitrite Nitrogen	N.D.	50.	ug/l	96	95	90-111	0	20
Sulfate	N.D.	300.	ug/l	97	97	90-110	0	20
Batch number: 15205049501A	Sample number(s): 7973065,7973067,7973069,7973071,7973073,7973075,7973077,7973079							
Total Organic Carbon	N.D.	500.	ug/l	96		91-113		
Batch number: 15205049501B	Sample number(s): 7973081							
Total Organic Carbon	N.D.	500.	ug/l	96		91-113		
Batch number: 15204014203A	Sample number(s): 7973073,7973077							
Total Alkalinity to pH 4.5	N.D.	700.	ug/l as CaCO3	98		90-110		
Batch number: 15204014203B	Sample number(s): 7973065							
Total Alkalinity to pH 4.5	N.D.	700.	ug/l as CaCO3	98		90-110		
Batch number: 15204014204A	Sample number(s): 7973067,7973069,7973071,7973079,7973081							
Total Alkalinity to pH 4.5	N.D.	700.	ug/l as CaCO3	98		90-110		
Batch number: 15204014204B	Sample number(s): 7973075							
Total Alkalinity to pH 4.5	N.D.	700.	ug/l as CaCO3	98		90-110		
Batch number: 15205023001A	Sample number(s): 7973065,7973067,7973069,7973071,7973073,7973075,7973077,7973079,7973081							
Sulfide	N.D.	54.	ug/l	99		90-110		

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: Z152032AA	Sample number(s): 7973064 UNSPK: P973409								
Benzene	100	105	72-134	4	30				
Ethylbenzene	103	105	71-134	2	30				
Methyl Tertiary Butyl Ether	96	100	72-126	4	30				

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

Quality Control Summary

Client Name: Chevron Group Number: 1578324
Reported: 08/21/2015 16:14

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Toluene	103	107	80-125	4	30				
Xylene (Total)	107	110	79-125	3	30				
Batch number: 152040004A	Sample number(s): 7973065,7973067,7973069 UNSPK: P972889								
Ethane	92	94	53-122	3	20				
Ethene	91	94	35-162	3	20				
Methane	92	96	46-129	4	20				
Batch number: 152050002A	Sample number(s): 7973071,7973073,7973075,7973077,7973079,7973081 UNSPK: P970722								
Ethane	94	95	53-122	2	20				
Ethene	161	164*	35-162	2	20				
Methane	-6147 (2)	-5643 (2)	46-129	4	20				
Batch number: 152045716004	Sample number(s): 7973066,7973068,7973070,7973072,7973074,7973076,7973078,7973080,7973082 UNSPK: 7973076 BKG: 7973076								
Iron	98 (2)		70-130			4,590	4,290	7	20
Manganese	82 (2)		70-130			4,780	4,470	7	20
Batch number: 15202667121A	Sample number(s): 7973065,7973067,7973069,7973071,7973073,7973075,7973077,7973079,7973081 UNSPK: 7973065 BKG: 7973065								
Nitrate Nitrogen	95		90-110			2,000	2,000	1 (1)	15
Nitrite Nitrogen	93		90-110			N.D.	N.D.	0 (1)	15
Sulfate	95		90-110			57,000	56,900	0	15
Batch number: 15205049501A	Sample number(s): 7973065,7973067,7973069,7973071,7973073,7973075,7973077,7973079 UNSPK: 7973065 BKG: 7973065								
Total Organic Carbon	95		91-113			2,400	1,900	24* (1)	3
Batch number: 15205049501B	Sample number(s): 7973081 UNSPK: P977529 BKG: P977529								
Total Organic Carbon	98		91-113			10,600	10,700	1	3
Batch number: 15204014203A	Sample number(s): 7973073,7973077 UNSPK: P973846 BKG: P973846								
Total Alkalinity to pH 4.5	81*		90-110			35,300	35,600	1	5
Batch number: 15204014203B	Sample number(s): 7973065 UNSPK: P973846 BKG: 7973065								
Total Alkalinity to pH 4.5	81*		90-110			129,000	130,000	0	5
Batch number: 15204014204A	Sample number(s): 7973067,7973069,7973071,7973079,7973081 UNSPK: 7973067 BKG: 7973067								
Total Alkalinity to pH 4.5	94		90-110			171,000	173,000	1	5
Batch number: 15204014204B	Sample number(s): 7973075 UNSPK: 7973067 BKG: 7973075								
Total Alkalinity to pH 4.5	94		90-110			277,000	279,000	0	5
Batch number: 15205023001A	Sample number(s): 7973065,7973067,7973069,7973071,7973073,7973075,7973077,7973079,7973081 UNSPK: 7973073 BKG: 7973073								
Sulfide	79*	82*	90-110	4	16	N.D.	N.D.	0 (1)	5

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

Quality Control Summary

Client Name: Chevron Group Number: 1578324
Reported: 08/21/2015 16:14

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max

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: 8260 Full List w/ Sep. Xylenes
Batch number: W152041AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7973065	98	101	98	91
7973067	100	103	97	91
7973069	97	103	98	91
7973071	98	104	98	92
7973073	98	102	98	90
7973075	98	102	98	91
7973077	98	103	98	91
7973079	98	103	98	90
7973081	98	104	97	91
Blank	98	104	98	92
LCS	98	99	100	97
LCSD	99	99	99	97
Limits:	80-116	77-113	80-113	78-113

Analysis Name: BTEX/MTBE
Batch number: Z152032AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7973064	102	101	100	95
Blank	102	98	100	96
LCS	101	100	100	100
MS	101	100	100	102
MSD	102	100	100	102
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 15204A20A

	Trifluorotoluene-F
7973064	94
7973065	94
7973067	94
7973069	93
7973071	93
7973073	93
7973075	95
7973077	94
7973079	94
7973081	94
Blank	93
LCS	100

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

Quality Control Summary

Client Name: Chevron Group Number: 1578324
Reported: 08/21/2015 16:14

Surrogate Quality Control

LCSD	103
Limits:	63-135

Analysis Name: TPH-DRO CA C10-C28
Batch number: 152030014A

	Orthoterphenyl
7973065	81
7973067	82
7973069	85
7973071	89
7973073	86
7973075	85
7973077	76
7973079	92
7973081	83
Blank	79
LCS	78
LCSD	63
Limits:	58-137

Analysis Name: TPH-DRO CA C10-C28 w/ Si Gel
Batch number: 152030015A

	Orthoterphenyl
7973065	72
7973067	83
7973069	75
7973071	71
7973073	74
7973075	69
7973077	62
7973079	59
7973081	70
Blank	66
LCS	81
LCSD	59
Limits:	42-126

Analysis Name: Volatile Headspace Hydrocarbon
Batch number: 152040004A

	Propene
7973065	80
7973067	77
7973069	61
Blank	96
LCS	100
MS	90
MSD	92
Limits:	47-116

Analysis Name: Volatile Headspace Hydrocarbon
Batch number: 152050002A

	Propene
7973071	66
7973073	80
7973075	77

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

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Quality Control Summary

Client Name: Chevron
Group Number: 1578324
Reported: 08/21/2015 16:14

Surrogate Quality Control

7973077	78
7973079	80
7973081	73
Blank	97
LCS	96
MS	64
MSD	64
Limits:	47-116

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

Chevron California Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

For Eurofins Lancaster Laboratories use only
Acct. # 11928 Group # 1578324 Sample # 7973064-82
Instructions on reverse side correspond with circled numbers.
072015-03 500ml

SCR #: ______

① Client Information

Facility # SS#206265-OML G-R#385161 Global ID#SLT2O07076 WBS

Site Address 1520 POWELL ST @ LANDREGAN, EMERYVILLE, CA

Chevron PM MHO ARCADISJS Lead Consultant Sobieraj

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 S. Herron

④ Matrix: [ ] Sediment [X] Ground [ ] Surface; [ ] Soil [ ] Potable [ ] NPDES [ ] Air; Water; Oil

⑤ Analyses Requested: BTEX + MTBE 8021 [ ] 8260 [X]; TPH-GRO 8015 [X] 8260 [ ]; TPH-DRO 8015 without Silica Gel Cleanup [X]; TPH-DRO 8015 with Silica Gel Cleanup [X]; 8260 Full Scan; ~~Oxygenates~~ TOC (SM20 5310C); ~~Lead~~ Sulfide Method SM20 4500 S2D; Dissolved ~~Lead~~ metals Method 200.7; Methane/ethane/ethene RSK-175; Alkalinity/Bicarbonate PH 4.5 & 8.3 SM20 2320B; Nitrate/sulfate/nitrate (300.0)

② Sample Identification	Soil Depth	Date Collected	Time Collected	③ Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE	TPH-GRO	TPH-DRO w/o SGC	TPH-DRO with SGC	8260 Full Scan	TOC	Sulfide	Dissolved metals	Methane/ethane/ethene	Alkalinity/Bicarbonate	Nitrate/sulfate/nitrate
QA		7/20/15		X			X		2	X	X									
MW-17		↓	1150	X			X		20			X	X	X	X	X	X	X	X	X
MW-18		↓	1255	↓			↓		↓			↓	↓	↓	↓	↓	↓	↓	↓	↓
MW-19A		↓	1130	↓			↓		↓			↓	↓	↓	↓	↓	↓	↓	↓	↓
MWX-3		↓	1358	↓			↓		↓			↓	↓	↓	↓	↓	↓	↓	↓	↓
MWX-6		↓	1045	↓			↓		↓			↓	↓	↓	↓	↓	↓	↓	↓	↓
MWX-8		↓	0900	↓			↓		↓			↓	↓	↓	↓	↓	↓	↓	↓	↓
MWX-9		↓	0945	↓			↓		↓			↓	↓	↓	↓	↓	↓	↓	↓	↓
MWX-10A		↓	1245	↓			↓		↓			↓	↓	↓	↓	↓	↓	↓	↓	↓
MWX-11A		↓	1010	↓			↓		↓			↓	↓	↓	↓	↓	↓	↓	↓	↓

[ ] Results in Dry Weight
[ ] J value reporting needed
[X] 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

Metals to be reported are Iron and Manganese

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: ______

⑨

Relinquished by	Date	Time	Received by	Date	Time
[signature]	7/20/15		[signature]	7/20/15	1520
[signature]	7/20/15	1600	FE		
Relinquished by Commercial Carrier: UPS ___ FedEx ✓ Other ___			[signature]	7/21/15	0915

Temperature Upon Receipt 0.7-4.1 °C
Custody Seals Intact? (Yes) No

Eurofins Lancaster Laboratories, Inc. • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300
The white copy should accompany samples to Eurofins Lancaster Laboratories. The yellow copy should be retained by the client.

Issued by Dept. 40 Management 7050.03

[signature] 7.22.15 925

3.4.

Chevron California Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

Acct. # 072015-03 Group # _____ Sample # 520871

For Eurofins Lancaster Laboratories use only

Instructions on reverse side correspond with circled numbers.

(1) Client Information

Facility # SS#206265-OML G-R#385161 Global ID#SLT2O07076 WBS

Site Address 1520 POWELL ST @ LANDREGAN, EMERYVILLE, CA

Chevron PM MHO ARCADISJS Lead Consultant Sobieraj

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 S. Hezron

(4) Matrix

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

(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 + MTBE 8260 ☒ 8021 ☐	TPH-GRO 8260 ☐ 8015 ☒	TPH-DRO 8015 without Silica Gel Cleanup ☒	TPH-DRO 8015 with Silica Gel Cleanup ☒	8260 Full Scan	Oxygenates TIC (SM20 5310C)	Sulfide Method SM20 4500 S2D	Dissolved Metals Method 200.7	Methane/Ethane/ETHene RSK-175 PM 4518.3	Alkalinity/Dissolved SM20 2320B	Nitrate/Sulfate/Nitrite (300.0)
GA		7/20/15		X		2	X	X									
MW-17			1150		X	20		X	X	X	X	X	X	X	X	X	X
MW-18			1255														
MW-19A			1130														
MWX-3			1358														
MWX-6			1045														
MWX-8			0900														
MWX-9			0945														
MWX-10A			1245														
MWX-11A			1010														

(6) Remarks

Metals to be reported are Iron and Manganese

AMEND COC:

ADD GRO(8015) TO ALL SAMPLES SUBMITTED.

MWC 07-21-15

(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
	7/20/15				
Relinquished by	Date	Time	Received by	Date	Time
				7/20/15	1520

(8) Data Package (circle if required)

Type I - Full

Type VI (Raw Data)

EDD (circle if required)

EDFFLAT (default)

Other: _____

Relinquished by Commercial Carrier: UPS _____ FedEx _____ Other _____

Temperature Upon Receipt _____ °C

Received by | Date | Time

Custody Seals Intact? Yes No

Explanation of Symbols and Abbreviations

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

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

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

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and the < Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference…

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) 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.

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.

ARCADIS

Attachment 3

Historical Groundwater Monitoring Data and Analytical Results

ATTACHMENT 3
CURRENT AND HISTORICAL GROUNDWATER ANALYTICAL RESULTS
Former Chevron Asphalt Plant and Bulk Terminal #206265
1520 Powell Street
Emeryville, California

WELL ID/ DATE	Fuel Related Hydrocarbon Compounds							Chlorinated Volatile Organic Compounds											Comment(s)
	TPH-G (µg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	MTBE (µg/L)	TPH-D (µg/L)	1,1-DCE (µg/L)	1,2-DCE (µg/L)	t-1,2-DCE (µg/L)	c-1,2-DCE (µg/L)	1,1-DCA (µg/L)	1,1,1-TCA (µg/L)	TCE (µg/L)	PCE (µg/L)	CF (µg/L)	VC (µg/L)	HVOCs (µg/L)	
ESL	**100**	**1**	**40**	**30**	**20**	**5**	**100**	**6**	**10**	**6**	**5**	**62**	**--**	**5**	**5**	**70**	**0.5**	**--**	
MCL	**NA**	**1**	**150**	**300**	**1,800**	**13**	**NA**	**6**	**10**	**6**	**5**	**200**	**--**	**5**	**5**	**70**	**0.5**	**--**	
ACTIVELY MONITORED/SAMPLED WELLS																			
MWX-2																			
6/24/2009	--	--	--	--	--	--	--	<0.8	**--**	3	**38**	<1	<0.8	**69**	**20**	0.9	**6**	--	
10/27/09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
5/19/2010	**200**	<0.5	<0.5	<0.5	<0.5	<0.5	**240**	0.9	**--**	5	**230**	<1	<0.8	**43**	**130**	<0.8	**62**	--	
10/27/10	**420**	<0.5	<0.5	<0.5	<0.5	<0.5	**110**	<0.8	**--**	2	**150**	<1	<0.8	**48**	**760**	<0.8	<1	--	
06/09/11	**180**	<0.5	<0.5	<0.5	<0.5	<0.5	**330**	<0.8	**--**	2	**130**	<1	<0.8	**30**	**310**	<0.8	**8**	--	
12/2/2011	**340 [330]**	<0.5 [<0.5]	<0.5 [<0.5]	<0.5 [<0.5]	<0.5 [<0.5]	<0.5 [<0.5]	<50 [<49]	<0.8 [<0.8]	**--**	2 [3]	**130 [140]**	<1 [<1]	<0.8 [<0.8]	**45 [44]**	**480 [510]**	<0.8 [<0.8]	**3 [3]**	--	
6/27/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled - inaccessible
12/27/2012	**300**	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.8	3	**100**	<1	<0.8	--	**34**	**420**	<0.8	**4**	--	
7/20/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled - inaccessible
MWX-3																			
6/24/2009	--	--	--	--	--	--	--	2	**--**	**22**	**670**	3	<2	**2,100**	<2	<2	**24**	--	
10/27/09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
5/19/2010	**470**	<0.5	<0.5	<0.5	<0.5	<0.5	93	<0.8	**--**	**10**	**480**	<1	<0.8	**490**	<0.8	<0.8	**12**	--	
10/27/10	**440**	<0.5	<0.5	<0.5	<0.5	<0.5	68	<0.8	**--**	**8**	**500**	<1	<0.8	**330**	<0.8	1	**5**	--	
06/07/11	**590**	<0.5	<0.5	<0.5	<0.5	<0.5	65	<0.8	**--**	**14**	**630**	<1	<0.8	**430**	<0.8	<0.8	**8**	--	
12/2/2011	**900**	<0.5	<0.5	<0.5	<0.5	<0.5	<51	1	**--**	**12**	**430**	1	<0.8	**630**	<0.8	<0.8	**13**	--	
06/27/2012	**92**	0.6	<0.5	<0.5	<0.5	<0.5	<53	<0.8	**--**	**10**	**130**	3	<0.8	3	<0.8	3	**6**	--	
12/27/2012	<50	0.6	<0.5	<0.5	<0.5	<0.5	<50	<0.8	2	4	<1	<0.8	--	<1	<0.8	<0.8	**2**	--	
7/20/2015	<50	<0.5	<0.5	<0.5	<0.5	<0.5	390	<0.5	--	1	62	<0.5	<0.5	2	<0.5	<0.5	19	--	
MWX-6																			
6/24/2009	--	--	--	--	--	--	--	<0.8	**--**	<0.8	1	<1	<0.8	<1	<0.8	<0.8	<1	--	
10/27/09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
5/20/2010	<50	<0.5	<0.5	<0.5	<0.5	<0.5	85	<0.8	**--**	<0.8	2	<1	<0.8	<1	<0.8	<0.8	<1	--	
10/26/10	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<51	<0.8	**--**	<0.8	2	<1	<0.8	<1	<0.8	<0.8	<1	--	
06/08/11	<50	<0.5	<0.5	<0.5	<0.5	<0.5	53	<0.8	**--**	<0.8	1	<1	<0.8	<1	<0.8	<0.8	<1	--	
11/30/2011	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<49	<0.8	**--**	<0.8	1	<1	<0.8	<1	<0.8	<0.8	<1	--	
06/27/2012	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<49	<0.8	**--**	<0.8	1	<1	<0.8	<1	<0.8	<0.8	<1	--	
12/26/2012	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<49	<0.8	<0.8	1	<1	<0.8	--	<1	<0.8	<0.8	<1	--	
7/20/2015	<50	<0.5	<0.5	<0.5	<0.5	<0.5	65	<0.5	--	<0.5	0.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	
MWX-8																			
6/24/2009	--	--	--	--	--	--	--	<0.8	**--**	3	**84**	<1	<0.8	**64**	**260**	<0.8	**6**	--	
10/27/09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
5/18/2010	**170**	<0.5	<0.5	**0.5**	<0.5	<0.5	67	<0.8	**--**	3	**91**	<1	<0.8	**67**	**260**	<0.8	**6**	--	
10/27/10	**270**	<0.5	<0.5	<0.5	<0.5	<0.5	<49	<0.8	**--**	5	**230**	<1	<0.8	**170**	**290**	<0.8	**19**	--	
06/08/11	**160**	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.8	**--**	4	**100**	<1	<0.8	**49**	**280**	<0.8	**1**	--	
12/2/2011	**230**	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.8	**--**	4	**120**	<1	<0.8	**78**	**240**	<0.8	**3**	--	
06/27/2012	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<51	<0.8	**--**	3	**23**	<1	<0.8	<0.8	<1	<0.8	**3**	--	
12/26/2012	<50	<0.5	2	<0.5	<0.5	<0.5	<50	<0.8	2	4	<1	<0.8	--	<1	1	<0.8	**2**	--	
7/20/2015	<50	<0.5	<0.5	<0.5	<0.5	<0.5	65	<0.5	--	0.5	<0.5	0.8	<0.5	<0.5	<0.5	<0.5	1	--	
MWX-9																			
6/24/2009	--	--	--	--	--	--	--	<0.8	**--**	1	**37**	<1	<0.8	**17**	**9**	<0.8	**3**	--	
10/27/09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
5/20/2010	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.8	**--**	1	**8**	<1	<0.8	**20**	**7**	<0.8	<1	--	
10/26/10	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<47	<0.8	**--**	1	**21**	<1	<0.8	**18**	**5**	<0.8	<1	--	
06/09/11	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<48	<0.8	**--**	1	**13**	<1	<0.8	**21**	**10**	<0.8	<1	--	
11/30/2011	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<54	<0.8	**--**	0.9	**6**	<1	<0.8	**13**	3	<0.8	<1	--	
06/27/2012	<50	<0.5	<0.5	<0.5	<0.5	<0.5	**130**	<0.8	**--**	0.9	**23**	<1	<0.8	**16**	4	<0.8	<1	--	
12/26/2012	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<51	<0.8	<0.8	**8**	<1	<0.8	--	**14**	4	<0.8	<1	--	
7/20/2015	<50	<0.5	<0.5	<0.5	<0.5	<0.5	52	<0.5	--	0.8	22	<0.5	<0.5	14	5	<0.5	<0.5	--	
MWX-10A																			
6/24/2009	--	--	--	--	--	--	--	<0.8	**--**	<0.8	2	<1	<0.8	**17**	<0.8	<0.8	<1	--	
10/27/09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
5/20/2010	<50	<0.5	<0.5	<0.5	<0.5	<0.5	96	<0.8	--	<0.8	3	<1	<0.8	**6**	<0.8	<0.8	<1	--	
10/28/10	<50	<0.5	<0.5	<0.5	<0.5	<0.5	**300**	<0.8	--	<0.8	4	<1	<0.8	**14**	<0.8	<0.8	<1	--	
06/10/11	<50	<0.5	<0.5	<0.5	<0.5	<0.5	**250**	<0.8	--	<0.8	3	<1	<0.8	**5**	<0.8	<0.8	<1	--	
12/1/2011	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<49	<0.8	--	<0.8	**5**	<1	<0.8	**6**	<0.8	<0.8	<1	--	
06/26/2012	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<55	<0.8	--	<0.8	3	<1	<0.8	**3**	<0.8	<0.8	<1	--	
12/27/2012	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<51	<0.8	<0.8	<0.8	<1	<0.8	--	1	<0.8	<0.8	<1	--	
7/20/2015	<50	<0.5	<0.5	<0.5	<0.5	<0.5	680	<0.5	--	<0.5	1	<0.5	<0.5	3	<0.5	<0.5	<0.5	--	

ATTACHMENT 3
CURRENT AND HISTORICAL GROUNDWATER ANALYTICAL RESULTS
Former Chevron Asphalt Plant and Bulk Terminal #206265
1520 Powell Street
Emeryville, California

WELL ID/ DATE	Fuel Related Hydrocarbon Compounds							Chlorinated Volatile Organic Compounds											Comment(s)
	TPH-G (µg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	MTBE (µg/L)	TPH-D (µg/L)	1,1-DCE (µg/L)	1,2-DCE (µg/L)	t-1,2-DCE (µg/L)	c-1,2-DCE (µg/L)	1,1-DCA (µg/L)	1,1,1-TCA (µg/L)	TCE (µg/L)	PCE (µg/L)	CF (µg/L)	VC (µg/L)	HVOCs (µg/L)	
ESL	**100**	**1**	**40**	**30**	**20**	**5**	**100**	**6**	**10**	**6**	**5**	**62**	**--**	**5**	**5**	**70**	**0.5**	**--**	
MCL	**NA**	**1**	**150**	**300**	**1,800**	**13**	**NA**	**6**	**10**	**6**	**5**	**200**	**--**	**5**	**5**	**70**	**0.5**	**--**	
MWX-11A																			
6/24/2009	--	--	--	--	--	--	--	<0.8	**--**	<0.8	2	<1	<0.8	3	<0.8	<0.8	<1	--	
10/27/09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
5/20/2010	<50	<0.5	<0.5	<0.5	<0.5	<0.5	**110**	<0.8	**--**	0.9	2	<1	<0.8	3	<0.8	<0.8	<1	--	
10/28/10	<50	<0.5	<0.5	<0.5	<0.5	<0.5	66	<0.8	**--**	<0.8	2	<1	1	4	<0.8	<0.8	<1	--	
06/10/11	<50	<0.5	<0.5	<0.5	<0.5	<0.5	**250**	<0.8	**--**	4	**8**	<1	<0.8	**11**	<0.8	<0.8	<1	--	
11/30/2011	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<48	<0.8	**--**	1	**5**	<1	<0.8	4	<0.8	<0.8	<1	--	
6/26/2012	<50 [<50]	<0.5 [<0.5]	<0.5 [<0.5]	<0.5 [<0.5]	<0.5 [<0.5]	<0.5 [<0.5]	<49 [<49]	<0.8 [<0.8]	**--**	0.8 [0.8]	2 [2]	<1 [<1]	0.8 [0.9]	**5 [5]**	<0.8 [<0.8]	<0.8 [<0.8]	<1 [<1]	--	
12/27/2012	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.8	1	3	<1	<0.8	--	**8**	<0.8	<0.8	<1	--	
7/20/2015	<50	<0.5	<0.5	<0.5	<0.5	<0.5	290	<0.5	--	2	7	1	<0.5	14	<0.5	<0.5	<0.5	--	
MW-17																			
03/21/90	<50	<0.3	<0.3	<0.3	<0.6	--	--	<0.2	5.2	--	--	0.7	1.3	**32**	**11**	1.1	<1.0	--	
06/19/90	<50	<0.3	<0.3	<0.3	<0.6	--	--	<0.2	3.1	--	--	<0.5	1.0	**38**	**13**	1.2	<1.0	--	
09/20/90	<50	<0.3	<0.3	<0.3	<0.6	--	--	<0.2	2.4	--	--	<0.5	1.4	**44**	**16**	2.8	<1.0	--	
12/28/90	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	2.0	<0.5	0.6	**34**	**15**	2.0	<1.0	--	
05/10/91	<50	<0.5	<0.5	<0.5	0.8	--	--	<0.5	--	<0.5	3.0	<0.5	0.6	**37**	**14**	1.0	<1.0	ND	
08/08/91	82	**1.9**	2.5	0.9	5.4	--	--	<0.5	--	<0.5	2.5	<0.5	<0.5	**69**	**15**	0.9	<1.0	ND	
11/27/91	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	**13**	<0.5	<0.5	**59**	**14**	2.4	<1.0	ND	
01/29/92	<50	<0.5	0.9	<0.5	0.5	--	--	<0.5	--	<0.5	2.9	<0.5	0.8	**35**	**15**	1.1	<1.0	ND	
03/26/92	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	1.5	<0.5	0.7	**41**	**12**	0.6	<1.0	ND	
07/23/92	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	1.1	<0.5	<0.5	**31**	**14**	0.8	<0.5	<0.5	
10/28/92	78	**1.0**	7.1	1.4	6.5	--	--	<0.5	--	<0.5	1.6	<0.5	<0.5	**42**	**11**	0.8	<1.0	ND	
05/04/93	60	0.8	1.7	1.1	3.0	--	--	<0.5	--	<0.5	1.1	<0.5	<0.5	**26**	**12**	0.6	<1.0	<0.5	
01/05/94	<50	<0.5	0.7	<0.5	<0.5	--	--	<0.5	--	<0.5	1.1	<0.5	<0.5	**25**	**13**	0.8	<1.0	<0.5	
05/13/94	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	1.0	<0.5	0.6	**23**	**13**	<0.5	<0.5	<0.5-<1.0	
10/24/94	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	1.4	<0.5	<0.5	**26**	**13**	<0.5	<0.5	<0.5-<1.0	
04/19/95	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	0.9	<0.5	1.1	**21**	**12**	1.2	<0.5	<0.5	
11/06/95	<50	<0.5	<0.5	<0.5	<5.0	--	--	<1.0	--	<1.0	1.1	<1.0	<1.0	**29**	**13**	<1.0	<1.0	ND	
04/26/96	<50	<0.5	<0.5	<0.5	<5.0	--	--	<0.5	--	<0.5	0.8	<0.5	1.2	**24**	**11**	0.6	<0.8	<0.5-<5.0	
10/10/96	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	<0.5	--	<0.5	1.5	<0.5	0.9	**31**	**15**	0.6	<0.8	ND	
04/22/97	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	<0.5	--	<0.5	1.2	<0.5	1.7	**21**	**11**	<0.5	<0.8	ND	
10/16/97	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	<1.0	--	<1.0	1.1	<1.0	1.2	**21**	**7.9**	<1.0	<0.5	ND	
05/04/98	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	<0.5	--	<0.5	1.4	<0.5	2.1	**20**	**11**	0.58	<1.0	ND	
11/04/99	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	**15.4**	**7.75**	<0.5	<0.5	ND	
04/13/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	<1.0	--	<1.0	<1.0	<1.0	<1.0	**14**	**8.7**	<1.0	<1.0	--[21]	
10/05/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	<1.0	--	<1.0	<1.0	<1.0	<1.0	**18**	**11**	<1.0	<1.0	--[21]	
04/23/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	<1.0	--	<1.0	<1.0	<1.0	<1.0	**10**	**5.7**	<1.0	<1.0	--[21]	
10/04/01	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	<1	--	<1	<1	<1	<1	**14**	**8**	<1	<1	--[21]	
04/01/02	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	<1	--	<1	<1	<1	<1	**10**	**6**	<1	<1	--[21]	
10/19/02	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	<1	--	<1	<1	<1	<1	**15**	**8**	<1	<1	<1-<2.0	
04/16/03	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	<0.8	--	<0.8	<0.8	<1	<0.8	**11**	**7**	<0.8	<1	<0.8-<2	
10/29/03	<50	<0.5	<0.5	<0.5	<1	<0.5	--	<0.8	--	<0.8	<0.8	<1	<0.8	**15**	**9**	<0.8	<1	<0.5-<2	BTEX and MTBE by EPA Method 8260.
04/01/04	<50	<0.5	<0.5	<0.5	<1	<0.5	--	<0.8	--	<0.8	<0.8	<1	<0.8	**12**	**8**	<0.8	<1	<0.5-<2	BTEX and MTBE by EPA Method 8260.
10/01/04	<50	<0.5	<0.7	<0.8	<1.6	<0.5	--	<0.8	--	<0.8	1	<1	<0.8	**13**	**7**	0.9	<1	<0.5-<2	BTEX and MTBE by EPA Method 8260.
04/08/05	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--	<0.8	--	<0.8	2	<1	<0.8	**10**	**7**	<0.8	<1	<0.5-<2	BTEX and MTBE by EPA Method 8260.
10/20/05	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--	<0.8	--	<0.8	3	<0.5	<0.8	**12**	**6**	0.9	<1	<0.5-<2	BTEX and MTBE by EPA Method 8260.
04/20/06	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--	<0.8	--	<0.8	1	<1	<0.8	**10**	**5**	<0.8	<1	<0.8-<2	BTEX and MTBE by EPA Method 8260.
10/25/06	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--	<0.8	--	<0.8	3	<1	<0.8	**14**	**6**	<0.8	<1	<0.8-<2	BTEX and MTBE by EPA Method 8260.
04/13/07	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--	<0.8	--	<0.8	2	<1	<0.8	**9**	**6**	<0.8	<1	<0.8-<2	BTEX and MTBE by EPA Method 8260.
10/19/07	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--	<0.8	--	<0.8	3	<1	<0.8	**12**	**6**	<0.8	<1	<0.8-<2	BTEX and MTBE by EPA Method 8260.
04/11/08	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--	<0.8	--	<0.8	2	<1	<0.8	**8**	**5**	<0.8	<1	<0.5-<2	BTEX and MTBE by EPA Method 8260.
10/17/08	<50	<0.5	<0.5	<0.5	<1.0	<0.5	**--**	<0.8	--	<0.8	3	<1	<0.8	**14**	**6**	<0.8	<1	<0.8-<2	BTEX and MTBE by EPA Method 8260.
04/30/09	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.8	--	<0.8	2	<1	<0.8	**7**	**5**	<0.8	<1	ND	
06/24/09	--	--	--	--	--	--	--	<0.8	--	<0.8	2	<1	<0.8	**8**	4	<0.8	<1	--	
10/27/09	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.8	--	<0.8	1	<1	<0.8	**7**	**6**	<0.8	<1	--	
05/19/10	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.8	**--**	<0.8	1	<1	<0.8	**7**	**5**	<0.8	<1	--	
10/28/10	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<48	<0.8	**--**	<0.8	1	<1	<0.8	**8**	**5**	<0.8	<1	--	
06/09/11	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<48	<0.8	**--**	<0.8	1	<1	<0.8	**7**	**5**	<0.8	<1	--	
12/1/2011	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<51	<0.8	**--**	<0.8	1	<1	<0.8	**8**	**5**	<0.8	<1	--	
06/27/15	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	**--**	--	**--**	**--**	**--**	**--**	--	Not sampled - inaccessible
12/27/2012	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.8	<0.8	2	<1	<0.8	--	**15**	5	<0.8	<1	--	
7/20/2015	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	--	<0.5	1	<0.5	<0.5	6	4	<0.5	<0.5	--	

ATTACHMENT 3
CURRENT AND HISTORICAL GROUNDWATER ANALYTICAL RESULTS
Former Chevron Asphalt Plant and Bulk Terminal #206265
1520 Powell Street
Emeryville, California

WELL ID/ DATE	Fuel Related Hydrocarbon Compounds							Chlorinated Volatile Organic Compounds										Comment(s)
	TPH-G (µg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	MTBE (µg/L)	TPH-D (µg/L)	1,1-DCE (µg/L)	1,2-DCE (µg/L)	t-1,2-DCE (µg/L)	c-1,2-DCE (µg/L)	1,1-DCA (µg/L)	1,1,1-TCA (µg/L)	TCE (µg/L)	PCE (µg/L)	CF (µg/L)	VC (µg/L)	HVOCs (µg/L)	
ESL	**100**	**1**	**40**	**30**	**20**	**5**	**100**	**6**	**10**	**6**	**5**	**62**	**--**	**5**	**5**	**70**	**0.5**	**--**	
MCL	**NA**	**1**	**150**	**300**	**1,800**	**13**	**NA**	**6**	**10**	**6**	**5**	**200**	**--**	**5**	**5**	**70**	**0.5**	**--**	**Comment(s)**
MW-18																			
03/21/90	<50	<0.3	<0.3	<0.3	<0.6	--	--	<0.2	1.7	--	--	<0.5	2.4	**33**	**20**	0.9	<1.0	--	
06/19/90	<50	<0.3	<0.3	<0.3	<0.6	--	--	<0.2	2.7	--	--	<0.5	0.9	**63**	**20**	0.73	<1.0	--	
09/20/90	<50	<0.3	<0.3	<0.3	<0.6	--	--	<0.2	3.3	--	--	<0.5	1.6	**76**	**25**	1.7	<1.0	--	
12/28/90	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	2.0	<0.5	0.8	**44**	**21**	1.0	<1.0	--	
05/10/91	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	2.0	<0.5	0.7	**47**	**20**	2.0	<1.0	ND	
08/08/91	52	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	2.0	<0.5	0.7	**32**	**25**	1.0	<1.0	ND	
11/27/91	<50	0.6	1.5	0.6	2.1	--	--	<0.5	--	<0.5	3.6	<0.5	0.5	**60**	**18**	1.5	<1.0	ND	
01/29/92	67	**3.7**	5.2	1.5	5.0	--	--	<5.0	--	<5.0	<5.0	<5.0	<5.0	**67**	**17**	<5.0	<10	ND	
03/26/92	80	<0.5	<0.5	<0.5	0.8	--	--	<1.2	--	<1.2	**6.4**	<1.2	<1.2	**130**	**19**	1.7	<2.5	ND	
07/23/92	50	**1.3**	2.1	0.5	3.0	--	--	<0.5	--	<0.5	3.0	<0.5	0.5	**67**	**19**	0.8	<0.5	<0.5	
10/28/92	54	<0.5	1.3	<0.5	1.1	--	--	<0.5	--	<0.5	1.1	<0.5	<0.5	**52**	**14**	0.8	<1.0	ND	
05/04/93	<50	<0.5	<0.5	<0.5	<1.5	--	--	<0.5	--	<0.5	1.9	<0.5	0.7	**48**	**18**	2.5	<1.0	ND[14]	
01/05/94	<50	<0.5	0.5	<0.5	0.6	--	--	<0.5	--	<0.5	4.0	<0.5	0.8	**94**	**17**	1.0	<1.0	<0.5	
05/13/94	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	0.8	<0.5	0.8	**16**	**15**	0.8	<0.5	<0.5-<1.0	
10/24/94	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	**22**	**15**	1.2	<0.5	<0.5-<1.0	
04/19/95	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	2.2	<0.5	1.3	**46**	**14**	1.1	<0.5	ND[15]	
11/06/95	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	<1.0	--	<1.0	1.8	<1.0	1.2	**45**	**18**	<1.0	<1.0	ND	
04/26/96	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	<0.5	--	0.9	2.8	<0.5	3.0	**31**	**17**	0.6	<0.8	<0.5-<5.0	
10/10/96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled - paved over
04/22/97	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	<0.5	--	<0.5	1.7	<0.5	3.2	**26**	**15**	<0.5	<0.8	ND	
10/16/97	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	<1.0	--	<1.0	1.0	<1.0	2.2	**25**	**11**	<1.0	<0.5	ND	
05/04/98	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	1.1	--	1.7	4.5	2.5	3.1	**40**	<1.0	<1.0	<2.0	ND	
10/27/98	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	<0.5	--	<0.5	0.77	<0.5	1.7	**19**	**14**	<0.5	<1.0	ND	
04/15/99	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	<0.625	--	1.78	3.45	<0.625	2.29	**27.4**	**14.5**	0.908	<1.25	ND	
11/04/99	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	<0.5	--	<0.5	<0.5	<0.5	1.51	**18.5**	**10.2**	<0.5	<0.5	ND	
04/13/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled - inaccessible
04/23/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	<1.0	--	<1.0	<1.0	<1.0	<1.0	**10**	**9.3**	<1.0	<1.0	--[21]	
10/04/01	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	<1	--	<1	<1	<1	<1	**13**	**11**	<1	<1	--[21]	
04/01/02	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	<1	--	<1	<1	<1	<1	**10**	**9**	<1	<1	--[21]	
10/19/02	<50	<0.50	<0.50	<0.50	1.6	<2.5	--	<1	--	<1	<1	<1	<1	**15**	**10**	<1	<1	<1-<2.0	
04/16/03	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	<0.8	--	<0.8	<0.8	<1	<0.8	**9**	**9**	<0.8	<1	<0.8-<2	
10/29/03	<50	<0.5	1	<0.5	0.7	1	--	<0.8	--	<0.8	1	<1	<0.8	**20**	**9**	<0.8	<1	<0.5-<2	BTEX and MTBE by EPA Method 8260.
04/01/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled - inaccessible, vehicle parked over well
10/01/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled - inaccessible, vehicle parked over well
04/08/05	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--	<0.8	--	<0.8	2	<1	<0.8	**13**	**8**	3	<1	<0.5-<2	BTEX and MTBE by EPA Method 8260.
10/20/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled - inaccessible, vehicle parked over well
04/20/06	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--	<0.8	--	<0.8	3	<1	<0.8	**27**	**7**	<0.8	<1	<0.8-<2	BTEX and MTBE by EPA Method 8260.
10/25/06	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--	<0.8	--	<0.8	1	<1	<0.8	**15**	**6**	<0.8	<1	<0.8-<2	BTEX and MTBE by EPA Method 8260.
04/13/07	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--	<0.8	--	<0.8	1	<1	<0.8	**15**	**7**	<0.8	<1	<0.8-<2	BTEX and MTBE by EPA Method 8260.
10/19/07	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--	<0.8	--	<08	<0.8	<1	<0.8	**9**	**6**	<0.8	<1	<0.8-<2	BTEX and MTBE by EPA Method 8260.
04/11/08	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--	<0.8	--	<0.8	0.8	<1	<0.8	**13**	**6**	<0.8	<1	<0.5-<2	BTEX and MTBE by EPA Method 8260.
10/17/08	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--	<0.8	--	<0.8	<0.8	<1	<0.8	**8**	**7**	<0.8	<1	<0.5-<2	BTEX and MTBE by EPA Method 8260.
04/30/09	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.8	--	<0.8	1	<1	<0.8	**7**	**6**	<0.8	<1	ND	
06/24/09	--	--	--	--	--	--	--	<0.8	--	<0.8	1	<1	<0.8	**8**	**6**	<0.8	<1	--	
10/27/09	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.8	--	<0.8	0.8	<1	<0.8	**6**	**7**	<0.8	<1	--	
05/18/10	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<48	<0.8	--	<0.8	1	<1	<0.8	**16**	**7**	<0.8	<1	--	
10/27/10	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<51	<0.8	--	<0.8	<0.8	<1	<0.8	**10**	**7**	<0.8	<1	--	
06/07/11	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<48	<0.8	--	1	2	<1	<0.8	**28**	**7**	<0.8	<1	--	
12/2/2011	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<51	<0.8	--	<0.8	<0.8	<1	<0.8	**12**	**6**	<0.8	<1	--	
06/27/2012	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<49	<0.8	--	<0.8	**7**	<1	<0.8	**27**	**8**	<0.8	<1	--	
12/27/2012	<50 [<50]	<0.5 [<0.5]	<0.5 [<0.5]	<0.5 [<0.5]	<0.5 [<0.5]	<0.5 [<0.5]	<49 [<50]	<0.8 [<0.8]	3 [3]	**22 [24]**	<1 [<1]	<0.8 [<0.8]	--	**32 [34]**	**10 [11]**	<0.8 [<0.8]	**4 [4]**	--	
7/20/2015	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	--	<0.5	3	<0.5	<0.5	24	8	<0.5	<0.5	--	
MW-19A																			
11/06/95	**420**	<0.5	<0.5	<0.5	<0.5	<5.0	--	1.0	--	<1.0	**110**	<1.0	<1.0	**160**	**1,500**	<1.0	<1.0	ND	
04/26/96	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	<5.0	--	<5.0	**140**	<5.0	<5.0	**200**	**990**	<5.0	<8.0	<5.0-<50	
10/10/96	**610**	<0.5	<0.5	<0.5	<0.5	**21**	--	<10	--	<10	**110**	<10	<10	**150**	**1,500**	<10	<16	ND	TPH-G chromatogram pattern indicates an unidentified hydrocarbon.
MW-19A (cont.)																			

ATTACHMENT 3
CURRENT AND HISTORICAL GROUNDWATER ANALYTICAL RESULTS
Former Chevron Asphalt Plant and Bulk Terminal #206265
1520 Powell Street
Emeryville, California

WELL ID/ DATE	Fuel Related Hydrocarbon Compounds							Chlorinated Volatile Organic Compounds										Comment(s)
	TPH-G (µg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	MTBE (µg/L)	TPH-D (µg/L)	1,1-DCE (µg/L)	1,2-DCE (µg/L)	t-1,2-DCE (µg/L)	c-1,2-DCE (µg/L)	1,1-DCA (µg/L)	1,1,1-TCA (µg/L)	TCE (µg/L)	PCE (µg/L)	CF (µg/L)	VC (µg/L)	HVOCs (µg/L)	
ESL	**100**	**1**	**40**	**30**	**20**	**5**	**100**	**6**	**10**	**6**	**5**	**62**	**--**	**5**	**5**	**70**	**0.5**	**--**	
MCL	**NA**	**1**	**150**	**300**	**1,800**	**13**	**NA**	**6**	**10**	**6**	**5**	**200**	**--**	**5**	**5**	**70**	**0.5**	**--**	**Comment(s)**
04/22/97	43	<0.5	<0.5	<0.5	<0.5	<5.0	--	<5.0	--	**7.1**	**85**	9.1	<5.0	**150**	**830**	<5.0	<8.0	ND	TPH-G chromatogram pattern indicates an unidentified hydrocarbon.
10/16/97	**380**	<0.5	<0.5	<0.5	<0.5	**22**	--	1.6	--	**6.9**	**100**	5.5	<1.0	**130**	**660**	<1.0	**4.2**	ND[17]	
05/04/98	**200**	<0.5	<0.5	<0.5	<0.5	<2.0	--	<10	--	**13**	**80**	<10	<10	**230**	**500**	<10	<20	ND	TPH-G chromatogram pattern indicates an unidentified hydrocarbon.
10/27/98	**170**	<0.5	<0.5	<0.5	<0.5	**12**/<2.0	--	<25	--	<25	**70**	<25	<25	**80**	**910**	<25	<50	ND	TPH-G chromatogram pattern indicates an unidentified hydrocarbon, confirmation run was conducted for MTBE.
11/04/99	**290**	<0.5	<0.5	<0.5	<0.5	**26.8**/<0.5	--	<50	--	<50	<50	<50	<50	<50	**209**	<50	<50	ND	MTBE was analyzed outside the EPA recommended holding time, confirmation run was conducted for MTBE.
04/13/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	<25	--	<25	**68**	<25	<25	**140**	**1,100**	<25	<25	--[21]	
10/05/00	**130**	<0.50	<0.50	<0.50	<0.50	**26**/<2.0	--	2.5	--	**9.5**	**50**	5.5	1	**82**	**940**	<1.0	**5**	--[22]	Laboratory report indicates discrete peaks for TPH-G sample, MTBE by EPA Method 8260.
04/23/01	**100**	<0.50	<0.50	<0.50	<0.50	3.4/<2.0	--	1.6	--	**9.9**	**100**	5.2	<1.0	**180**	**690**	<1.0	**1.6**	--[21]	Laboratory report indicates discrete peaks for TPH-G sample, MTBE was analyzed outside the EPA recommended holding time
10/04/01	**380**	<0.50	<0.50	<0.50	<1.5	<2.5	--	2	--	**11**	**61**	4	<1	**130**	**720**	<1	**3**	--[23]	
04/01/02	**310**	<0.50	<0.50	<0.50	<1.5	<2.5	--	<1	--	**7**	**71**	2	<1	**100**	**530**	<1	**2**	--[24]	
10/19/02	**300**	<0.50	<0.50	<0.50	<1.5	<2.5	--	<1	--	**8**	**44**	1	<1	**130**	**600**	<1	**2**	<1-<3.0[25]	
04/16/03	**280**	<0.5	<0.5	<0.5	<1.5	<2.5	--	<0.8	--	**6**	**69**	<1	<0.8	**82**	**570**	<0.8	**1**	<0.8-2[10]	
10/29/03	**330**	<0.5	<0.5	<0.5	<1	<0.5	--	<0.8	--	**8**	**47**	1	<0.8	**98**	**630**	<0.8	**2**	<0.5-<2[26]	BTEX and MTBE by EPA Method 8260.
04/01/04	**260**	<0.5	<0.5	<0.5	<1	<0.5	--	<0.8	--	5	**54**	<1	<0.8	**78**	**660**	<0.8	<1	<0.5-<2	BTEX and MTBE by EPA Method 8260.
10/01/04	**260**	<0.5	<0.7	<0.8	<1.6	<0.5	--	<0.8	--	**8**	**46**	<1	<0.8	**95**	**540**	<0.8	**1**	<0.5-<2[27]	BTEX and MTBE by EPA Method 8260.
04/08/05	**190**	<0.5	<0.5	<0.5	<1.0	<0.5	--	<0.8	--	4	**48**	<1	<0.8	**51**	**370**	<0.8	<1	<0.5-<2[28]	BTEX and MTBE by EPA Method 8260.
10/20/05	**180**	<0.5	<0.5	<0.5	<1.0	<0.5	--	<0.8	--	5	**26**	<1	<0.8	**77**	**350**	2	<1	<0.5-<2[29]	BTEX and MTBE by EPA Method 8260.
04/20/06	**180**	<0.5	<0.5	<0.5	<1.0	<0.5	--	<0.8	--	3	**39**	<1	<0.8	**57**	**330**	<0.8	**2**	<0.5-<2[29]	BTEX and MTBE by EPA Method 8260.
10/25/06	**210**	<0.5	<0.5	<0.5	<1.0	<0.5	--	<0.8	--	4	**24**	<1	<0.8	**54**	**370**	2	<1	<0.5-<2[30]	BTEX and MTBE by EPA Method 8260.
04/13/07	**290**	<0.5	<0.5	<0.5	<1.0	<0.5	--	<0.8	--	4	**55**	<1	<0.8	**51**	**610**	<0.8	<1	<0.5-<2[31]	BTEX and MTBE by EPA Method 8260.
10/19/07	**200**	<0.5	<0.5	<0.5	<1.0	<0.5	--	<0.8	--	3	**42**	<1	<0.8	**40**	**420**	<0.8	<1	<0.8-<2[32]	BTEX and MTBE by EPA Method 8260.
04/11/08	**300**	<0.5	<0.5	<0.5	<1.0	<0.5	--	<0.8	--	3	**37**	<1	<0.8	**41**	**540**	<0.8	<1	<0.5-<2[31]	BTEX and MTBE by EPA Method 8260.
10/17/08	**240**	<0.5	<0.5	<0.5	<1.0	<0.5	**--**	<0.8	--	5	**22**	<1	<0.8	**71**	**440**	1	<1	<0.5-<2[28]	BTEX and MTBE by EPA Method 8260.
04/30/09	**200**	<0.5	<0.5	<0.5	<1.0	<0.5	--	<0.8	--	2	**17**	<1	<0.8	**43**	**390**	<0.8	<1	ND	
06/24/09	--	--	--	--	--	--	--	<0.8	--	2	**13**	<1	<0.8	**42**	**310**	<0.8	<1	--	
10/27/09	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.8	--	4	**42**	<1	<0.8	**57**	**490**	<0.8	<1	ND	
05/19/10	**200**	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.8	**--**	4	**100**	<1	<0.8	**54**	**400**	<0.8	**2**	--	
10/27/10	**220**	<0.5	<0.5	<0.5	<0.5	<0.5	56	<0.8	**--**	4	**110**	<1	<0.8	**45**	**360**	<0.8	**2**	--	
06/08/11	**130**	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.8	**--**	3	**54**	<1	<0.8	**26**	**290**	<0.8	<1	--	
11/30/2011	**240**	<0.5	<0.5	<0.5	<0.5	<0.5	<48	<0.8	**--**	4	**89**	<1	<0.8	**56**	**340**	<0.8	**1**	--	
06/27/2012	**120**	<0.5	<0.5	<0.5	<0.5	<0.5	<49	<0.8	**--**	2	**73**	<1	<0.8	<1	<0.8	<0.8	**3**	--	
12/26/2012	<50	<0.5	0.6	<0.5	<0.5	<0.5	<49	<0.8	<0.8	**22**	<1	<0.8	--	2	**10**	<0.8	**4**	--	
7/20/2015	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	--	<0.5	6	0.7	<0.5	0.7	1	<0.5	15	--	
DECOMMISSIONED AND NOT MONITORED/SAMPLED WELLS																			
MW-1																			
04/26/85	--	**99**	--	--	6.0	--	--	--	--	--	--	--	--	--	--	--	--	--	
09/11/87	--	**63**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
07/07/88	<100	**55**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
04/13/89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
04/14/89	<5,000	**34**	<5.0	<5.0	<10	--	--	<5.0	--	**19**	**720**	<5.0	<5.0	**11**	<5.0	<20	**340**	ND[1]	
07/31/89	**7,000**	**57**	1.2	<0.2	1.6	--	--	**6.8**	--	**54**	**2,600**	2.7	7.2	**57**	<0.2	<1.0	**760**	ND[2]	
12/08/89	--	**26**	0.4	0.9	2.0	--	--	4.3	**2,700**	--	--	1.7	1.4	**59**	<0.5	<0.5	**520**	--	
03/21/90	**3,500**	**120**	9.0	3.0	3.0	--	--	**7.1**	**7,000**	--	--	2.1	1.1	**130**	<0.5	<0.5	**1,100**	--	
06/19/90	**2,700**	**100**	<0.3	<0.3	7.0	--	--	**12**	**6,100**	--	--	3.1	<0.5	**81**	<0.5	<0.5	**1,200**	--	
09/20/90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
09/21/90	**2,200**	**120**	2.0	2.0	0.79	--	--	1.8	**2,400**	--	--	2.2	1.7	**60**	<0.5	<0.5	**1,100**	ND[3]	
12/28/90	**720**	**44**	2.0	<0.5	9.0	--	--	2.0	--	**28**	**1,500**	1.0	0.6	**15**	<0.5	<0.5	**510**	ND[4]	
05/10/91	**530**	**47**	2.0	0.5	8.0	--	--	**10**	--	**69**	**5,500**	2.0	<0.5	**280**	<0.5	<0.5	**1,800**	ND[5]	
08/08/91	**1,400**	**37**	8.3	3.7	12	--	--	2.9	--	**45**	**2,300**	1.5	<0.5	**110**	<0.5	<0.5	<1.0	ND[6]	
11/27/91	**840**	**16**	7.1	4.5	11	--	--	<25	--	<25	**5,900**	<25	<25	<25	<25	<25	**540**	<25	
01/29/92	**350**	**18**	9.3	3.7	7.7	--	--	<25	--	**26**	**1,900**	<25	<25	<25	<25	<25	**320**	<25	
03/26/92	**420**	**19**	2.2	1.2	4.0	--	--	<50	--	<50	**1,500**	<50	<50	<50	<50	<50	**260**	<50	TPH-G chromatogram pattern indicates an unidentified hydrocarbon.

ATTACHMENT 3
CURRENT AND HISTORICAL GROUNDWATER ANALYTICAL RESULTS
Former Chevron Asphalt Plant and Bulk Terminal #206265
1520 Powell Street
Emeryville, California

WELL ID/ DATE	Fuel Related Hydrocarbon Compounds							Chlorinated Volatile Organic Compounds											Comment(s)
	TPH-G (µg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	MTBE (µg/L)	TPH-D (µg/L)	1,1-DCE (µg/L)	1,2-DCE (µg/L)	t-1,2-DCE (µg/L)	c-1,2-DCE (µg/L)	1,1-DCA (µg/L)	1,1,1-TCA (µg/L)	TCE (µg/L)	PCE (µg/L)	CF (µg/L)	VC (µg/L)	HVOCs (µg/L)	
ESL	100	1	40	30	20	5	100	6	10	6	5	62	--	5	5	70	0.5	--	
MCL	NA	1	150	300	1,800	13	NA	6	10	6	5	200	--	5	5	70	0.5	--	
MW-1 (cont.)																			
07/23/92	**4,000**	**50**	**82**	**40**	**160**	--	--	<50	--	<50	**2,300**	<50	<50	<50	<50	<50	**170**	<50	TPH-G chromatogram pattern indicates an unidentified hydrocarbon.
10/28/92	**980**	**36**	6.7	3.0	10	--	--	4.2	--	**30**	**1,600**	3.6	<0.5	**16**	<0.5	<0.5	**810**	ND	
05/04/93	**650**	**9.4**	2.4	1.2	4.5	--	--	1.0	--	**16**	**670**	0.5	<0.5	**9.2**	<0.5	<0.5	**110**	<0.5	
01/05/94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled - inaccessible
05/13/94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled - paved over
MW-2																			
04/26/85	--	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
09/11/87	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
07/07/88	<100	<5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
04/13/89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
04/14/89	<100	<0.2	<0.2	<0.2	<0.4	--	--	<0.2	<0.2	--	--	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	--	
07/31/89	<100	<0.2	<1.0	<0.2	<0.4	--	--	<0.2	<0.2	--	--	<0.4	0.5	<0.2	<0.2	<1.0	<0.2	--	
12/08/89	--	<0.3	<0.3	<0.3	<0.6	--	--	<0.2	<0.5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	
03/21/90	<50	<0.3	<0.3	<0.3	<0.6	--	--	<0.2	<0.5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	
06/19/90	<50	<0.3	<0.3	<0.3	<0.6	--	--	<0.2	<0.5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	
09/20/90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
09/21/90	<50	<1.5	<1.5	<1.5	<4.5	--	--	<0.2	<0.5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	
12/28/90	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	
05/10/91	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
08/08/91	--	--	--	--	--	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
11/27/91	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
01/29/92	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
03/26/92	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
07/23/92	<50	<0.5	<0.5	<0.5	0.8	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
10/28/92	55	**1.3**	6.9	1.1	5.1	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
05/04/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled - inaccessible
01/05/94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled - inaccessible
05/13/94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled - inaccessible
10/24/94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled - inaccessible
04/19/95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled - inaccessible
MW-2A																			
11/06/95	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND	
04/26/96	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.8	<0.5-<5.0	
10/10/96	60	<0.5	<0.5	<0.5	<0.5	<5.0	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.8	ND	TPH-G chromatogram pattern indicates an unidentified hydrocarbon.
04/22/97	<50	0.8	<0.5	<0.5	<0.5	<5.0	--	<2.5	--	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<4.0	ND	
10/16/97	80	<0.5	<0.5	<0.5	<0.5	<5.0	--	<1.0	--	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<0.5	ND	
05/04/98	96	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	TPH-G chromatogram pattern indicates an unidentified hydrocarbon.
10/27/98	**170**	<0.5	<0.5	<0.5	9.6	**44**/<2.0	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	TPH-G chromatogram pattern indicates an unidentified hydrocarbon, confirmation run was conducted for MTBE.
04/15/99	**116**	0.609	<0.5	<0.5	<0.5	<5.0	--	<1.25	--	<1.25	<1.25	<1.25	<1.25	<1.25	<1.25	<1.25	<2.50	ND	
11/04/99	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	
MW-3																			
04/26/85	--	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
09/11/87	--	<0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
07/07/88	<100	<5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
04/13/89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
04/14/89	<100	<0.2	<0.2	<0.2	<0.4	--	<3,000,000	<0.2	<0.2	--	--	<0.2	<0.2	<0.2	<0.2	<1.0	<0.2	--	
07/31/89	<100	<0.2	<1.0	<0.2	<0.4	--	--	<0.2	<0.2	--	--	<0.4	0.5	<0.2	<0.2	<1.0	<0.2	--	
12/08/89	--	<0.3	<0.3	<0.3	<0.6	--	--	<0.2	<0.5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	
03/21/90	<50	<0.3	<0.3	<0.3	<0.6	--	--	<0.2	<0.5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	
06/19/90	--	--	--	--	--	--	--	<0.2	<0.5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	
09/20/90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
09/21/90	<50	<0.3	<0.3	<0.3	<0.6	--	--	<0.2	<0.5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	
12/28/90	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	
05/10/91	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
08/08/91	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
11/27/91	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	

ATTACHMENT 3
CURRENT AND HISTORICAL GROUNDWATER ANALYTICAL RESULTS
Former Chevron Asphalt Plant and Bulk Terminal #206265
1520 Powell Street
Emeryville, California

	Fuel Related Hydrocarbon Compounds							Chlorinated Volatile Organic Compounds											
WELL ID/ DATE	TPH-G (µg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	MTBE (µg/L)	TPH-D (µg/L)	1,1-DCE (µg/L)	1,2-DCE (µg/L)	t-1,2-DCE (µg/L)	c-1,2-DCE (µg/L)	1,1-DCA (µg/L)	1,1,1-TCA (µg/L)	TCE (µg/L)	PCE (µg/L)	CF (µg/L)	VC (µg/L)	HVOCs (µg/L)	
ESL	100	1	40	30	20	5	100	6	10	6	5	62	--	5	5	70	0.5	--	
MCL	NA	1	150	300	1,800	13	NA	6	10	6	5	200	--	5	5	70	0.5	--	Comment(s)
MW-3 (cont.)																			
01/29/92	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
03/26/92	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
07/23/92	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
10/28/92	92	**1.8**	12	2.0	10	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
05/04/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
01/05/94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
05/13/94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4																			
04/26/85	**3,100**	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
09/11/87	--	<0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
07/07/88	<100	<5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
04/13/89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
04/14/89	**380**	<0.5	<1.0	<1.0	<1.0	--	<3,000,000	<1.0	<1.0	--	--	2	<1.0	<1.0	<1.0	<2.0	<1.0	--	TPH was reported as Diesel #2.
MW-5																			
04/26/85	**1,600**	<100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
09/11/87	--	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
07/07/88	<100	<5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
04/13/89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
04/14/89	**4,300**	<0.5	<1.0	<1.0	<1.0	--	<3,000,000	<1.0	<1.0	--	--	2	<1.0	<1.0	<1.0	<2.0	<1.0	--	
MW-6																			
04/26/85	**580**	<100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
09/11/87	--	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
07/07/88	**8,000**	<5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
04/13/89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
04/14/89	**3,300**	<0.5	<1.0	<1.0	<1.0	--	<3,000,000	<1.0	<1.0	--	--	2	<1.0	<1.0	<1.0	<2.0	<1.0	--	TPH was reported as Diesel #2.
MW-7																			
04/26/85	**700**	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
09/11/87	--	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
07/07/88	**17,000**	<5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
04/13/89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
04/14/89	<50	<0.5	<1.0	<1.0	<1.0	--	<3,000,000	<1.0	<1.0	--	--	1	1	<1.0	<1.0	<2.0	<1.0	--	
07/31/89	**160**	<0.1	<0.5	<0.1	<0.2	--	--	<0.1	0.3	--	--	0.3	4.5	<0.1	<0.1	<0.5	<0.1	ND[7]	TPH was reported as Diesel #2.
07/31/89	**100**	<0.1	<0.5	<0.1	<0.2	--	--	<0.1	0.4	--	--	0.2	2.6	<0.1	<0.1	<0.5	<0.1	ND[7]	TPH was reported as Diesel #2.
12/08/89	--	<0.3	<0.3	<0.3	<0.6	--	--	<0.2	<0.5	--	--	<0.5	0.67	<0.5	<0.5	<0.5	<1.0	--	
03/21/90	<50	<0.3	<0.3	<0.3	0.6	--	--	<0.2	<0.5	--	--	<0.5	1.4	<0.5	<0.5	<0.5	<1.0	--	
06/19/90	<50	<0.3	<0.3	<0.3	0.6	--	--	<0.2	<0.5	--	--	<0.5	0.67	<0.5	<0.5	<0.5	<1.0	--	
09/20/90	--	--	--	--	--	--	--	<0.2	<0.5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	
09/21/90	<50	**1.5**	<0.3	<0.3	<0.6	--	--	--	--	--	--	--	--	--	--	--	--	--	
12/28/90	<50	0.7	<0.5	<0.5	0.7	--	--	<0.5	--	<0.5	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	<1.0	--	
05/10/91	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
08/08/91	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
11/27/91	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
01/29/92	<50	<0.5	<0.5	<0.5	0.9	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
03/26/92	<50	<0.5	<0.5	<0.5	0.9	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
07/23/92	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
10/28/92	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
05/04/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled - inaccessible
01/05/94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled - inaccessible
05/13/94	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5-<1.0	
10/24/94	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5-<1.0	
04/19/95	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
11/06/95	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND	
04/26/96	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.8	<0.5-<5.0	
10/10/96	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	
04/22/97	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.8	ND	
10/16/97	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	<1.0	--	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<0.5	ND	
05/04/98	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
10/27/98	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
04/15/99	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
11/04/99	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	

ATTACHMENT 3
CURRENT AND HISTORICAL GROUNDWATER ANALYTICAL RESULTS
Former Chevron Asphalt Plant and Bulk Terminal #206265
1520 Powell Street
Emeryville, California

WELL ID/ DATE	Fuel Related Hydrocarbon Compounds							Chlorinated Volatile Organic Compounds											Comment(s)
	TPH-G (µg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	MTBE (µg/L)	TPH-D (µg/L)	1,1-DCE (µg/L)	1,2-DCE (µg/L)	t-1,2-DCE (µg/L)	c-1,2-DCE (µg/L)	1,1-DCA (µg/L)	1,1,1-TCA (µg/L)	TCE (µg/L)	PCE (µg/L)	CF (µg/L)	VC (µg/L)	HVOCs (µg/L)	
ESL	100	1	40	30	20	5	100	6	10	6	5	62	--	5	5	70	0.5	--	
MCL	NA	1	150	300	1,800	13	NA	6	10	6	5	200	--	5	5	70	0.5	--	Comment(s)
MW-7 (cont.)																			
04/13/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled - inaccessible
10/05/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	construction
04/23/01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	construction
10/04/01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	construction
04/01/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	construction
10/19/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	construction
04/16/03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	construction
10/29/03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	construction
MW-8																			
04/26/85	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
09/11/87	--	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
07/07/88	**20,000**	<5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
04/13/89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
04/14/89	<50	<0.5	<1.0	<1.0	<1.0	<3,000	<3,000,000	<1.0	<1.0	--	--	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	--	
07/31/89	<50	<0.1	<0.5	<0.1	<0.2	--	--	<0.1	--	0.6	1.9	1.7	1.7	0.4	<0.1	<0.5	**1.2**	ND	
12/08/89	--	<0.3	<0.3	<0.3	<0.6	--	--	<0.2	0.53	--	--	<0.5	0.84	<0.5	<0.5	<0.5	<1.0	--	
03/21/90	<50	<0.3	<0.3	<0.3	<0.6	--	--	<0.2	0.96	--	--	<0.5	0.72	<0.5	<0.5	<0.5	<1.0	--	
06/19/90	<50	<0.3	<0.3	<0.3	<0.6	--	--	<0.2	0.59	--	--	<0.5	0.67	<0.5	<0.5	<0.5	<1.0	--	
09/20/90	--	--	--	--	--	--	--	<0.2	<0.5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	
09/21/90	<50	**6.0**	<0.3	<0.3	<0.6	--	--	<0.5	--	<0.5	<0.5	<0.5	2.0	<0.5	<0.5	<0.5	<1.0	--	
12/28/90	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
05/10/91	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
08/08/91	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
11/27/91	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
03/26/92	<50	<0.5	<0.5	<0.5	0.7	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
07/23/92	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
10/28/92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled - inaccessible
05/04/93	--	--	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled - inaccessible
01/05/94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled - inaccessible
05/13/94	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5-<1.0	
10/24/94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled - inaccessible
04/19/95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	excavation in 1989.
11/06/95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled - inaccessible
04/26/96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled - inaccessible
10/10/96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled - inaccessible
04/22/97	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.8	ND	
10/16/97	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	<1.0	--	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<0.5	ND	
05/04/98	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
10/27/98	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
04/15/99	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
11/04/99	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	
MW-9																			
04/26/85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
09/11/87	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
07/07/88	**400**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
05/10/91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled - unable to locate
MW-10																			
07/07/88	--	<5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
04/14/89	<50	<0.5	<1.0	<1.0	<1.0	--	<3,000,000	<1.0	**15**	--	--	2.0	<1.0	**5.0**	<1.0	<2.0	<1.0	--	
07/31/89	<50	<0.1	<0.5	<0.1	<0.2	--	--	0.7	--	**6.3**	**27**	2.9	<0.1	**5.3**	<0.1	<0.5	<0.1	ND	
12/08/89	--	<0.3	<0.3	<0.3	<0.6	--	--	<0.2	**24**	--	--	3.1	<0.5	4.9	<0.5	0.6	<1.0	--	
03/21/90	<50	<0.3	<0.3	<0.3	<0.6	--	--	0.7	**30**	--	--	2.5	<0.5	3.5	<0.5	<0.5	<1.0	--	
06/19/90	<50	<0.3	<0.3	<0.3	<0.6	--	--	0.3	**33**	--	--	2.6	<0.5	**6.3**	<0.5	<0.5	<1.0	--	
09/20/90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
09/21/90	<50	<0.3	<0.3	<0.3	<0.6	--	--	<0.2	**32**	--	--	5.0	<0.5	**5.9**	<0.5	<0.5	<1.0	--	
12/28/90	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	**6.0**	**19**	2.0	<0.5	**5.0**	<0.5	<0.5	<1.0	--	
05/10/91	<50	<0.5	<0.5	<0.5	<0.5	--	--	0.6	--	**7.0**	**24**	2.0	<0.5	**6.0**	<0.5	<0.5	<1.0	ND	
08/08/91	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	**7.0**	**33**	3.1	<0.5	**6.2**	<0.5	<0.5	<1.0	ND	
11/27/91	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	**6.8**	**100**	<0.5	<0.5	**8.5**	<0.5	<0.5	<1.0	ND	
01/29/92	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	**9.1**	**30**	2.8	<0.5	**7.4**	<0.5	<0.5	<1.0	ND	

ATTACHMENT 3
CURRENT AND HISTORICAL GROUNDWATER ANALYTICAL RESULTS
Former Chevron Asphalt Plant and Bulk Terminal #206265
1520 Powell Street
Emeryville, California

WELL ID/ DATE	Fuel Related Hydrocarbon Compounds							Chlorinated Volatile Organic Compounds											Comment(s)
	TPH-G (µg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	MTBE (µg/L)	TPH-D (µg/L)	1,1-DCE (µg/L)	1,2-DCE (µg/L)	t-1,2-DCE (µg/L)	c-1,2-DCE (µg/L)	1,1-DCA (µg/L)	1,1,1-TCA (µg/L)	TCE (µg/L)	PCE (µg/L)	CF (µg/L)	VC (µg/L)	HVOCs (µg/L)	
ESL	100	1	40	30	20	5	100	6	10	6	5	62	--	5	5	70	0.5	--	
MCL	NA	1	150	300	1,800	13	NA	6	10	6	5	200	--	5	5	70	0.5	--	Comment(s)
MW-10 (cont.)																			
03/26/92	<50	<0.5	<0.5	<0.5	<0.5	--	--	0.7	--	**9.2**	**29**	2.5	<0.5	**6.8**	<0.5	<0.5	<1.0	ND	
07/23/92	<50	<0.5	1.8	0.5	1.9	--	--	<0.5	--	**6.1**	**21**	1.5	<0.5	4.7	<0.5	<0.5	<0.5	<0.5	
10/28/92	<50	0.6	0.7	<0.5	1.2	--	--	<0.5	--	4.3	**16**	2.1	<0.5	4.1	<0.5	<0.5	<1.0	ND	
05/04/93	--	--	--	--	--	--	--	--	--	**--**	**--**	--	--	**--**	--	--	--	--	Not sampled - inaccessible
01/05/94	<50	<0.5	<0.5	<0.5	0.6	--	--	<0.5	--	1.3	**5.2**	0.5	1.0	0.8	<0.5	<0.5	<1.0	<0.5	
05/13/94	**140**	<0.5	<0.5	<0.5	1.3	--	--	<0.5	--	**12**	**31**	2.7	<0.5	4.8	<0.5	<0.5	<0.5	<0.5-<1.0	
10/24/94	<50	<0.5	<0.5	<0.5	<0.5	--	--	<10	--	**13**	**44**	<10	<10	<10	<10	<10	<10	<10-<20	
04/19/95	<50	<0.5	<0.5	<0.5	<0.5	--	--	0.7	--	**14**	**36**	<0.5	<0.5	**9.2**	<0.5	<0.5	<0.5	<0.5	
11/06/95	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	1.0	--	**19**	**41**	1.4	<1.0	**14**	<1.0	<1.0	<1.0	ND	
04/26/96	--	--	--	--	--	--	--	--	--	--	**--**	--	--	--	--	--	--	--	Not sampled - inaccessible
10/10/96	<50	<0.5	<0.5	<0.5	0.6	**34**/<5.0	--	0.7	--	**17**	**38**	0.8	<0.5	**14**	<0.5	<0.5	<0.8	ND	MTBE by EPA Method 8240.
04/22/97	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	<0.5	--	**12**	**27**	0.5	<0.5	**13**	<0.5	<0.5	<0.8	ND	
10/16/97	<50	<0.5	<0.5	<0.5	<0.5	**34**	--	<1.0	--	**11**	**23**	<1.0	<1.0	<10	<1.0	<1.0	**0.7**	ND	
05/04/98	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	**6.5**	**16**	<0.5	<0.5	**7.6**	<0.5	<0.5	<1.0	ND	Sample has chlorinated hydrocarbon pattern, needs GCMS confirmation of MTBE.
10/27/98	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	<0.5	--	**7.7**	**18**	0.54	<0.5	**9.6**	<0.5	<0.5	<1.0	ND	
04/15/99	<50	<0.5	<0.5	<0.5	<0.5	**9.45**	--	<0.5	--	**8.32**	**19.1**	0.603	<0.5	**11.3**	<0.5	<0.5	<1.0	ND	
11/04/99	<50	<0.5	<0.5	<0.5	<0.5	**21**	--	<0.5	--	5.17	**13.8**	<0.5	<0.5	**8.23**	<0.5	<0.5	<0.5	ND	
MW-11																			
07/07/88	--	<5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
04/14/89	<50	<0.5	<1.0	<1.0	<1.0	<3,000	--	<1.0	**120**	--	--	<1.0	<1.0	4.0	<1.0	<2.0	**10**	--	
07/31/89	<100	<0.2	<0.2	<0.2	<0.2	--	--	0.9	**--**	**40**	**110**	2.2	1.4	2.9	<0.2	<0.2	<0.2	ND	
12/08/89	--	<0.3	<0.3	<0.3	<0.6	--	--	0.5	**120**	**--**	**--**	2.1	1.2	4.1	<0.5	<0.5	**2.4**	--	
03/21/90	<50	<0.3	<0.3	<0.3	<0.6	--	--	1.3	**150**	**--**	**--**	1.2	1.7	3.5	<0.5	<0.5	**4.3**	ND[8]	
06/19/90	<50	<0.3	<0.3	<0.3	<0.6	--	--	0.068	**140**	**--**	**--**	1.3	<0.5	**5.0**	<0.5	<0.5	**1.0**	--	
09/20/90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
09/21/90	<50	<0.3	<0.3	<0.3	<0.6	--	--	<0.2	**100**	**--**	**--**	1.1	<0.5	3.8	<0.5	<0.5	<1.0	--	
12/28/90	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	**23**	**43**	0.9	0.7	3.0	<0.5	<0.5	<1.0	--	
08/08/91	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	**29**	**77**	0.9	<0.5	2.4	<0.5	<0.5	<1.0	ND	
11/27/91	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	**34**	**240**	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
01/29/92	<50	<0.5	<0.5	<0.5	<0.5	--	--	<5.0	--	**33**	**91**	<5.0	<5.0	<5.0	<5.0	<5.0	<10	ND	
03/26/92	<50	<0.5	<0.5	<0.5	<0.5	--	--	<2.5	--	**21**	**51**	<2.5	<2.5	<2.5	<2.5	<2.5	<5.0	ND	
07/23/92	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	**18**	**46**	0.6	<0.5	1.4	<0.5	<0.5	<0.5	<0.5	
10/28/92	<50	<0.5	<0.5	<0.5	<0.5	--	--	0.5	--	**36**	**80**	<0.5	<0.5	4.6	<0.5	<0.5	<1.0	ND	
05/04/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled - inaccessible
01/05/94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled - inaccessible
05/13/94	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	**62**	**82**	<0.5	<0.5	**7.9**	<0.5	<0.5	**1.7**	<0.5-<1.0	
10/24/94	<50	<0.5	<0.5	<0.5	<0.5	--	--	<10	--	**28**	**75**	<10	<10	<10	<10	<10	<10	<10-<20	
04/19/95	58	0.6	<0.5	<0.5	0.5	--	--	<0.5	--	**18**	**39**	<0.5	<0.5	**6.5**	<0.5	1.0	<0.5	ND[9]	TPH-G chromatogram pattern indicates an unidentified hydrocarbon.
11/06/95	--	--	--	--	--	--	--	--	--	**--**	**--**	--	--	--	--	--	--	--	Not sampled - inaccessible
04/26/96	--	--	--	--	--	--	--	--	--	**--**	**--**	--	--	--	--	--	--	--	Not sampled - inaccessible
10/10/96	--	--	--	--	--	--	--	--	--	**--**	**--**	--	--	--	--	--	--	--	Not sampled - inaccessible
04/22/97	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	<0.5	--	4.7	**12**	<0.5	<0.5	3.0	<0.5	<0.5	<0.8	ND	
10/16/97	<50	<0.5	<0.5	<0.5	<0.5	**18**	--	<1.0	--	5.1	**24**	<1.0	<1.0	<10	<1.0	<1.0	**3.7**	ND	
05/04/98	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	4.2	**12**	<0.5	<0.5	2.8	<0.5	<0.5	<1.0	ND	Sample has chlorinated hydrocarbon pattern, needs GCMS confirmation of MTBE.
10/27/98	<50	<0.5	<0.5	<0.5	<0.5	**12**/<2.0	--	<0.5	--	2.7	**8.3**	<0.5	<0.5	1.8	<0.5	<0.5	<1.0	ND	Confirmation run was conducted for MTBE.
04/15/99	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	<0.5	--	3.29	**10.1**	<0.5	<0.5	2.87	<0.5	<0.5	<1.0	ND	
11/04/99	<50	<0.5	<0.5	<0.5	<0.5	**9.88**	--	<0.5	--	2.29	**7.36**	<0.5	<0.5	2.19	<0.5	<0.5	<0.5	ND	
MW-12																			
07/07/88	<100	<5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
04/14/89	<50	<0.5	<1.0	<1.0	<1.0	--	<3,000,000	<1.0	1.0	--	--	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	--	
07/31/89	<100	<0.1	<0.5	<0.1	<0.2	--	--	<0.1	1.7	--	--	<0.1	<0.1	0.8	<0.1	<0.5	<0.1	ND	
12/08/89	--	<0.3	<0.3	<0.3	<0.6	--	--	<0.2	<0.5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	
03/21/90	<50	<0.3	<0.3	<0.3	<0.3	--	--	<0.2	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	
06/19/90	<50	<0.3	<0.3	<0.3	<0.3	--	--	<0.2	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	
09/20/90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
09/21/90	<50	<0.3	<0.3	<0.3	<0.3	--	--	<0.2	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	
12/28/90	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	
05/10/91	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	

ATTACHMENT 3
CURRENT AND HISTORICAL GROUNDWATER ANALYTICAL RESULTS
Former Chevron Asphalt Plant and Bulk Terminal #206265
1520 Powell Street
Emeryville, California

WELL ID/ DATE	Fuel Related Hydrocarbon Compounds							Chlorinated Volatile Organic Compounds											Comment(s)
	TPH-G (µg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	MTBE (µg/L)	TPH-D (µg/L)	1,1-DCE (µg/L)	1,2-DCE (µg/L)	t-1,2-DCE (µg/L)	c-1,2-DCE (µg/L)	1,1-DCA (µg/L)	1,1,1-TCA (µg/L)	TCE (µg/L)	PCE (µg/L)	CF (µg/L)	VC (µg/L)	HVOCs (µg/L)	
ESL	100	1	40	30	20	5	100	6	10	6	5	62	--	5	5	70	0.5	--	
MCL	NA	1	150	300	1,800	13	NA	6	10	6	5	200	--	5	5	70	0.5	--	
MW-12 (cont.)																			
08/08/91	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	<1.0	ND	
11/27/91	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
01/29/92	<50	<0.5	<0.5	<0.5	1.0	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
03/26/92	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
07/23/92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled - unable to locate
MW-13																			
03/21/90	**480**	<0.3	<0.3	1.0	5.0	--	--	<0.2	<0.5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	
06/19/90	**180**	<0.3	<0.3	0.8	3.0	--	--	<0.2	<0.5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	
09/20/90	**150**	<0.3	<0.3	<0.3	0.54	--	--	<0.2	<0.5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	
12/28/90	**160**	<0.5	<0.5	<0.5	1.0	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	
05/10/91	**110**	<0.5	<0.5	<0.5	2.0	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND[10]	
08/08/91	**220**	<0.5	<0.5	<0.5	1.8	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
11/27/91	70	<0.5	<0.5	<0.5	1.2	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
01/29/92	**150**	<0.5	<0.5	3.1	7.1	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
03/26/92	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
07/23/92	**190**	<0.5	<0.5	<0.5	2.1	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
10/28/92	**190**	<0.5	<0.5	<0.5	2.0	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
05/04/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled - inaccessible
01/05/94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled - inaccessible
05/13/94	**220**	<0.5	1.2	<0.5	1.7	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5-<1.0	
10/24/94	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5-<1.0	
04/19/95	**140**	<0.5	<0.5	<0.5	1.2	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	TPH-G chromatogram pattern indicates an unidentified hydrocarbon.
11/06/95	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND	
04/26/96	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.8	<0.5-<5.0	
10/10/96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled - inaccessible
04/22/97	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.8	ND	
10/16/97	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	<1.0	--	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<0.5	ND	
05/04/98	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
10/27/98	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
04/15/99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
11/04/99	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	
MW-14																			
03/21/90	**170**	<0.3	<0.3	<0.4	2.0	--	--	<2.0	<0.5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	
06/19/90	--	--	--	--	--	--	--	<2.0	<0.5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	
09/20/90	<50	<0.3	<0.3	<0.3	<0.6	--	--	<2.0	<0.5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	
12/28/90	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	
05/10/91	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
08/08/91	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
11/27/91	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
01/29/92	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
03/26/92	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
07/23/92	<50	0.6	<0.5	<0.5	0.8	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
10/28/92	56	0.7	4.0	0.8	3.8	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
MW-15																			
03/21/90	<50	<0.3	<0.3	<0.3	<0.6	--	--	<0.2	<0.5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	
06/19/90	<50	<0.3	<0.3	<0.3	<0.6	--	--	<0.2	<0.5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	
09/20/90	<50	<0.3	<0.3	<0.3	<0.6	--	--	<0.2	<0.5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	
12/28/90	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	
05/10/91	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND[11]	
08/08/91	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
11/27/91	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
01/29/92	<50	**1.9**	2.6	0.8	2.6	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
03/26/92	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
07/23/92	<50	<0.5	<0.5	<0.5	0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
10/28/92	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
05/04/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled - inaccessible
01/05/94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled - inaccessible
05/13/94	**110**	<0.5	0.7	<0.5	2.0	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5-<1.0	
10/24/94	--	--	--	--	--	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	3.1	<0.5	3.8	<0.5	<0.5-<1.0	

ATTACHMENT 3
CURRENT AND HISTORICAL GROUNDWATER ANALYTICAL RESULTS
Former Chevron Asphalt Plant and Bulk Terminal #206265
1520 Powell Street
Emeryville, California

WELL ID/ DATE	Fuel Related Hydrocarbon Compounds							Chlorinated Volatile Organic Compounds											
	TPH-G (µg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	MTBE (µg/L)	TPH-D (µg/L)	1,1-DCE (µg/L)	1,2-DCE (µg/L)	t-1,2-DCE (µg/L)	c-1,2-DCE (µg/L)	1,1-DCA (µg/L)	1,1,1-TCA (µg/L)	TCE (µg/L)	PCE (µg/L)	CF (µg/L)	VC (µg/L)	HVOCs (µg/L)	
ESL	**100**	**1**	**40**	**30**	**20**	**5**	**100**	**6**	**10**	**6**	**5**	**62**	**--**	**5**	**5**	**70**	**0.5**	**--**	
MCL	**NA**	**1**	**150**	**300**	**1,800**	**13**	**NA**	**6**	**10**	**6**	**5**	**200**	**--**	**5**	**5**	**70**	**0.5**	**--**	**Comment(s)**
MW-15 (cont.)																			
04/19/95	--	--	--	--	--	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
04/26/96	--	--	--	--	--	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.8	<0.5-<5.0	
11/06/95	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND	
04/26/96	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	--	--	
10/10/96	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.8	ND	
04/22/97	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.8	ND	
10/16/97	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	<1.0	--	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<0.5	ND	
05/04/98	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	
10/27/98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
04/15/99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
11/04/99	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	
04/13/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--[21]	
10/06/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
04/23/01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
10/04/01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
04/01/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
10/19/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
04/16/03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
10/29/03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-16																			
03/21/90	<50	<0.3	<0.3	<0.3	<0.6	--	--	<0.2	0.8	--	--	<0.5	<0.5	**27**	**8.0**	2.0	<1.0	--	
06/19/90	<50	<0.3	<0.3	<0.3	<0.6	--	--	<0.2	<0.5	--	--	<0.5	<0.5	**35**	**7.0**	2.0	<1.0	--	
09/20/90	<50	<0.3	<0.3	<0.3	<0.6	--	--	<0.2	0.9	--	--	<0.5	<0.5	**49**	**15**	4.1	<1.0	--	
12/28/90	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	**29**	**18**	4.0	<1.0	ND[12]	
05/10/91	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	0.5	<0.5	<0.5	**32**	**10**	4.0	<1.0	ND	
08/08/91	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	**35**	**13**	1.9	<1.0	ND	
11/27/91	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	1.3	<0.5	<0.5	**47**	**12**	1.8	<1.0	ND[13]	
01/29/92	65	**3.6**	6.2	1.9	6.6	--	--	<0.5	--	<0.5	0.9	<0.5	<0.5	**31**	**11**	1.8	<1.0	ND	
03/26/92	**270**	**21**	27	9.5	**41**	--	--	<0.8	--	<0.8	<0.8	<0.8	<0.8	**24**	**8.5**	1.7	<1.7	<0.8-<1.7	
07/23/92	<50	<0.5	<0.5	<0.5	0.7	--	--	<0.5	--	<0.5	0.9	<0.5	<0.5	**37**	**12**	1.0	<0.5	<0.5	
10/28/92	<50	0.9	1.4	<0.5	1.1	--	--	<0.5	--	<0.5	1.7	<0.5	<0.5	**39**	**14**	1.1	<1.0	ND	
05/04/93	51	<0.5	1.0	0.6	1.7	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	**32**	**10**	1.1	<1.0	<0.5	
01/05/94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled - inaccessible
05/13/94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Not sampled - inaccessible, paved over
MW-19																			
03/21/90	<50	<0.3	<0.3	<0.3	<0.6	--	--	<0.2	**10**	--	--	<0.5	2.5	**41**	**53**	3.2	<1.0	--	
06/19/90	<50	<0.3	<0.3	<0.3	<0.6	--	--	<0.2	**13**	--	--	<0.5	1.5	**46**	**47**	2.8	<1.0	--	
09/20/90	<50	<0.3	<0.3	<0.3	<0.6	--	--	<0.2	5.8	--	--	<0.5	2.5	**39**	**32**	3.1	<1.0	--	
12/28/90	66	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	0.8	**22**	<0.5	1.0	**40**	**44**	3.0	<1.0	--	
05/10/91	60	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	2.0	**12**	<0.5	1.0	**47**	**47**	3.0	<1.0	ND	
08/08/91	58	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	1.1	4.8	<0.5	1.1	**41**	**35**	2.8	<1.0	ND	
11/27/91	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	1.9	**29**	<0.5	0.9	**59**	**31**	2.7	<1.0	ND	
01/29/92	<50	**1.7**	2.6	0.7	2.1	--	--	<5.0	--	<5.0	**8.9**	<5.0	<5.0	**51**	**44**	3	<10	ND	
03/26/92	80	<0.5	<0.5	<0.5	<0.5	--	--	<1.2	--	1.7	**23**	<1.2	1.5	**68**	**130**	1.4	<2.5	ND[16]	
07/23/92	70	0.6	0.5	<0.5	1.5	--	--	1.1	--	1.4	**5.6**	<0.5	1.0	**61**	**38**	3.3	<0.5	<0.5	
10/28/92	**170**	**4.3**	28	5.1	**24**	--	--	<0.5	--	0.9	**5.3**	<0.5	1.1	**46**	**24**	2.2	<1.0	ND	
05/04/93	**120**	**2.0**	4.7	2.8	8.1	--	--	<0.5	--	2.5	**8.7**	0.5	1.1	**69**	**32**	3.9	<1.0	<0.5	
01/05/94	<50	**2.0**	1.4	1.7	2.5	--	--	<0.5	--	1.7	1.7	<0.5	16	**49**	**46**	<0.5	<1.0	<0.5	
05/13/94	<50	<0.5	0.9	<0.5	<0.5	--	--	<0.5	--	1.8	**22**	<0.5	0.7	**40**	**58**	<0.5	<0.5	<0.5-<1.0	
10/24/94	<50	<0.5	<0.5	<0.5	<0.5	--	--	<50	--	**110**	**54**	<50	<50	**98**	**300**	<50	<50	<50-<100	
04/19/95	**270**	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<0.5	**65**	<0.5	<0.5	**130**	**670**	<0.5	<0.5	<0.5	TPH-G chromatogram pattern indicates an unidentified hydrocarbon.

ATTACHMENT 3
CURRENT AND HISTORICAL GROUNDWATER ANALYTICAL RESULTS
Former Chevron Asphalt Plant and Bulk Terminal #206265
1520 Powell Street
Emeryville, California

EXPLANATIONS:

General:

Bolded results indicate a detection above the ESL.

Groundwater laboratory analytical results prior to April 13, 2000, were compiled from reports prepared by Blaine Tech Services, Inc.

Historical results reported below the detection limit and that did not have a reporting limit provided in the available documents are listed as ND.

1,1-DCE = 1,1-dichloroethene
1,2-DCE = 1,2-dichloroethene
t-1,2-DCE = trans-1,2-dichloroethene
c-1,2-DCE = cis-1,2-dichloroethene
1,1-DCA = 1,1-dichloroethane
1,1,1-TCA = 1,1,1-trichloroethane
CF = chloroform
ESL = Environmental Screening Limit
HVOCs = halogenated volatile organic compounds
MCL = Maximum Contaminant Limit
MTBE = methyl tertiary butyl ether
ND = not detected
PCE = tetrachloroethene
ppb = parts per billion
TCE = trichloroethene
TPH-D = total petroleum hydrocarbons as diesel
TPH-G = total petroleum hydrocarbons as gasoline
VC = vinyl chloride
-- = not measured/not analyzed
(µg/L) = microgram(s) per liter
< = not detected at or above the indicated reporting limit

HVOC Footnotes:

1 6 ppb 1,2-dichloropropane detected; other HVOCs not detected.
2 0.6 ppb 1,2-dichloroethane detected; other HVOCs not detected.
3 63 ppb chloromethane and 0.6 ppb methylene chloride detected; other HVOCs not detected; sample contained 1,250 ppb total dissolved solids.
4 0.9 ppb trans-1,3-dichloropropane detected; other HVOCs not detected; sample contained 810 ppb total dissolved solids.
5 0.9 ppb trichlorofluoromethane and 1 ppb trans-1,3-dichloropropane detected; other HVOCs not detected.
6 11 ppb trans-1,3-dichloropropane detected; other HVOCs not detected.
7 0.1 ppb 1,2-dichlorobenzene detected; other HVOCs not detected.
8 1.8 ppb 1,2-dichloroethane detected; other HVOCs not detected
9 Chloromethane was detected at 2.4 ppb. Other HVOCs not detected at detection limits of 0.5 ppb.
10 3 ppb 1,1,2,2-tetrachloroethane detected; other HVOCs not detected.
11 0.9 ppb 1,2-dichlorobenzene detected; other HVOCs not detected.
12 0.5 ppb 1,2-dichloroethane detected; other HVOCs not detected.
13 0.9 ppb 1,2-dichloroethane detected; other HVOCs not detected.
14 Dichloromethane detected at 6.2 ppb. Other HVOCs not detected at detection limits of 0.5 ppb.
15 Chloromethane was detected at 0.6 ppb. Other HVOCs not detected at detection limits of 0.5 ppb.
16 1,1,2,2-Tetrachloroethane detected at 1.8 ppb; other HVOCs not detected at detection limits of 1.2 to 2.5 ppb.
17 Laboratory report indicates 1,1,2,2-Tetrachloroethane was detected at 3.8 ppb. Reported values for cis-1,2-dichloroethene; trichloroethene, and tetrachloroethene are from 50X dilution sample re-analysis.
18 Trace concentrations of trihalomethane compounds detected in bailer blank.
19 3.1 ppb 1,2-dichlorobenzene detected; other HVOCs not detected.
20 Trace concentrations of trihalomethane compounds detected in bailer blank.
21 Laboratory report indicates all other HVOCs were ND; See specific laboratory analytical report.

EXPLANATIONS:

[22] Laboratory report indicates all other HVOCs were ND, except for Freon 113 was detected at 2.3 ppb and 1,1,2,2-Tetrachloroethane was 3.9 ppb.

[23] Laboratory report indicates all other HVOCs were ND, except for Freon 113 detected at 5 ppb and 1,1,2,2,-Tetrachloroethane at 3 ppb; See specific laboratory analytical report.

[24] Laboratory report indicates all other HVOCs were ND, except for 1,1,2,2,-Tetrachloroethane detected at 4 ppb; See specific laboratory analytical report.

[25] Laboratory report indicates all other HVOCs were less than the reporting limit, except for 1,1,2,2-Tetrachloroethane was detected at 2 ppb, and Freon 113 was detected at 4 ppb.

[26] Laboratory report indicates all other HVOCs were ND, except for Freon 113 was detected at 3 ppb and 1,1,2,2-Tetrachloroethane was 3 ppb.

[27] Laboratory report indicates all other HVOCs were ND, except for Freon 113 was detected at 5 ppb and 1,1,2,2-Tetrachloroethane was 2 ppb.

[28] Laboratory report indicates all other HVOCs were ND, except 1,1,2,2-Tetrachloroethane was 2 ug/L.

[29] Laboratory report indicates all other HVOCs were ND, except 1,1,2,2-Tetrachloroethane was 1 ppb.

[30] Laboratory report indicates all other HVOCs were ND, except for Freon 113 was detected at 3 ppb.

[31] Laboratory report indicates all other HVOCs were ND, except 1,1,2,2-Tetrachloroethane was 3 ppb.

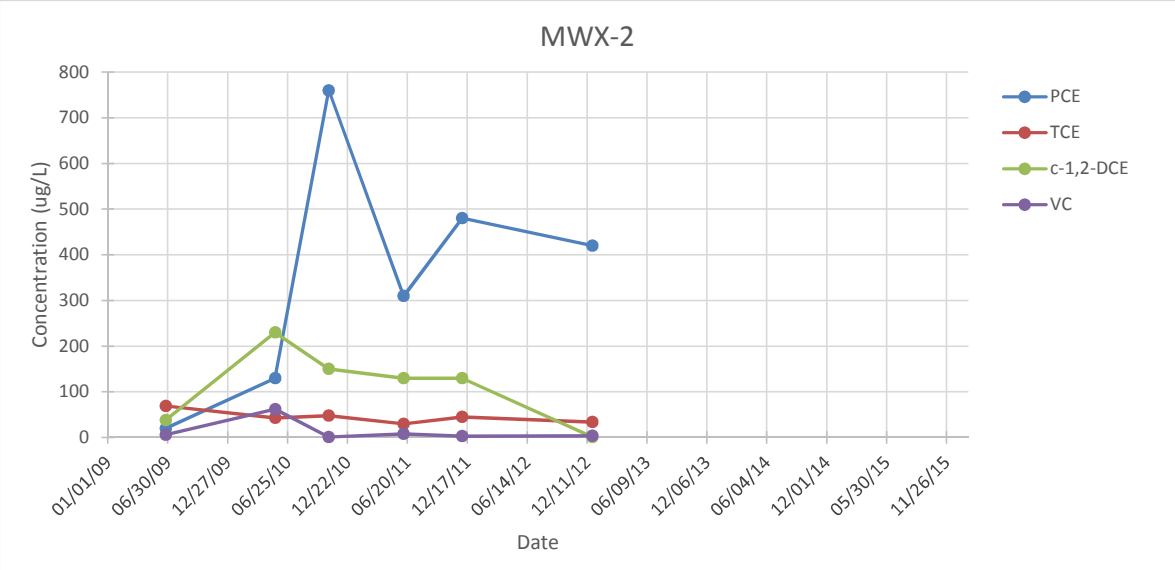
[32] Laboratory report indicates all other HVOCs were ND, except 1,1,2,2-Tetrachloroethane was 4 ppb.

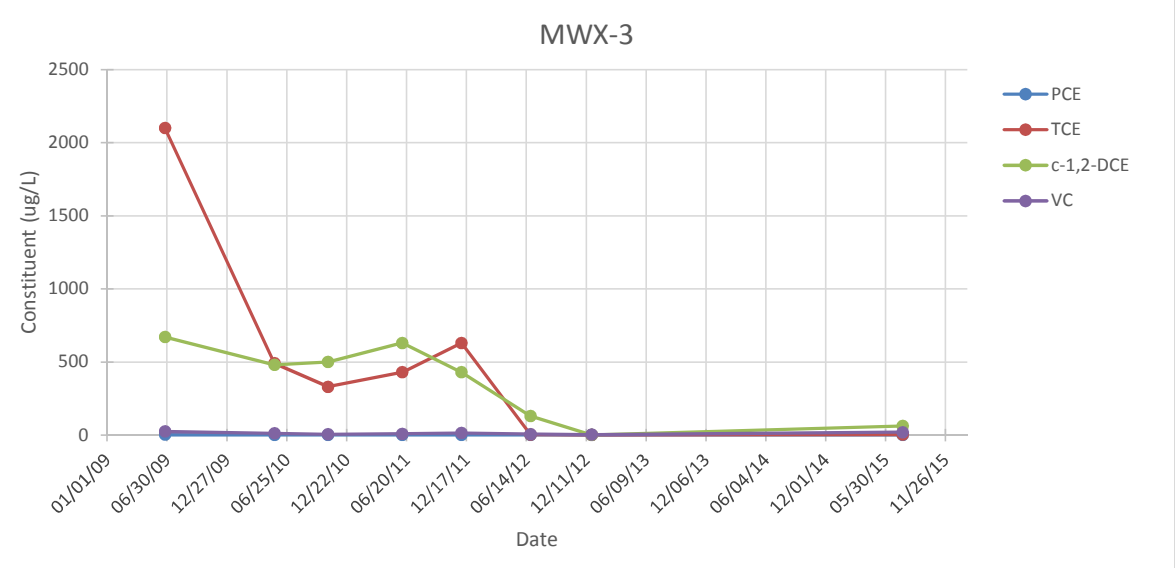
ARCADIS

Attachment 4

Chlorinated Volatile Organic Compounds Concentration Trends

ATTACHMENT 4
CHLORINATED VOLATILE ORGANIC COMPOUNDS CONCENTRAION TRENDS
Former Chevron Asphalt Plant and Bulk Terminal #206265
1520 Powell Street
Emeryville, California





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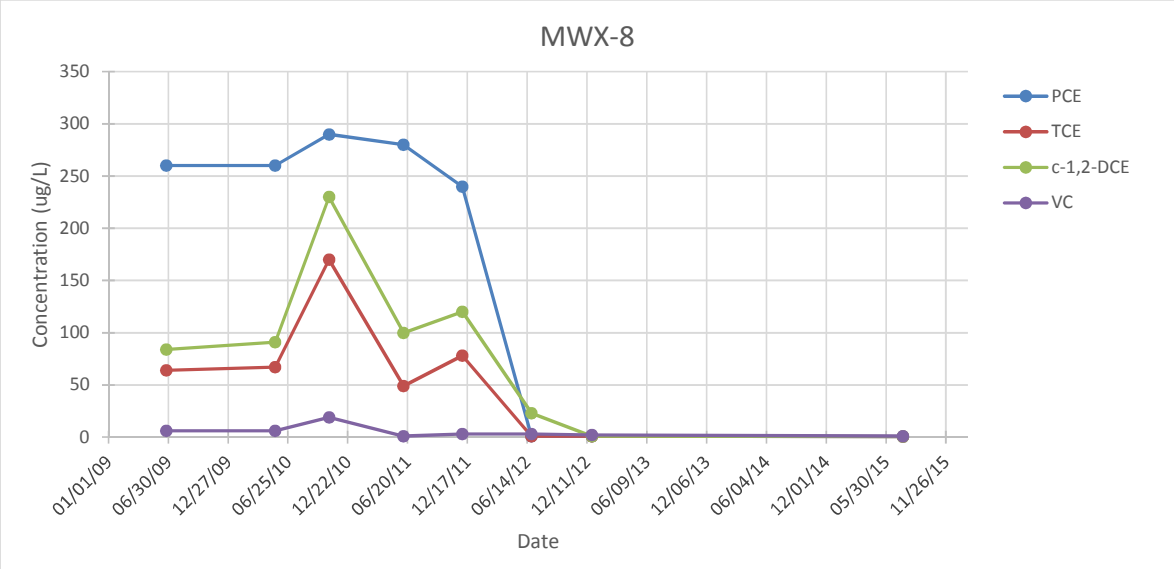

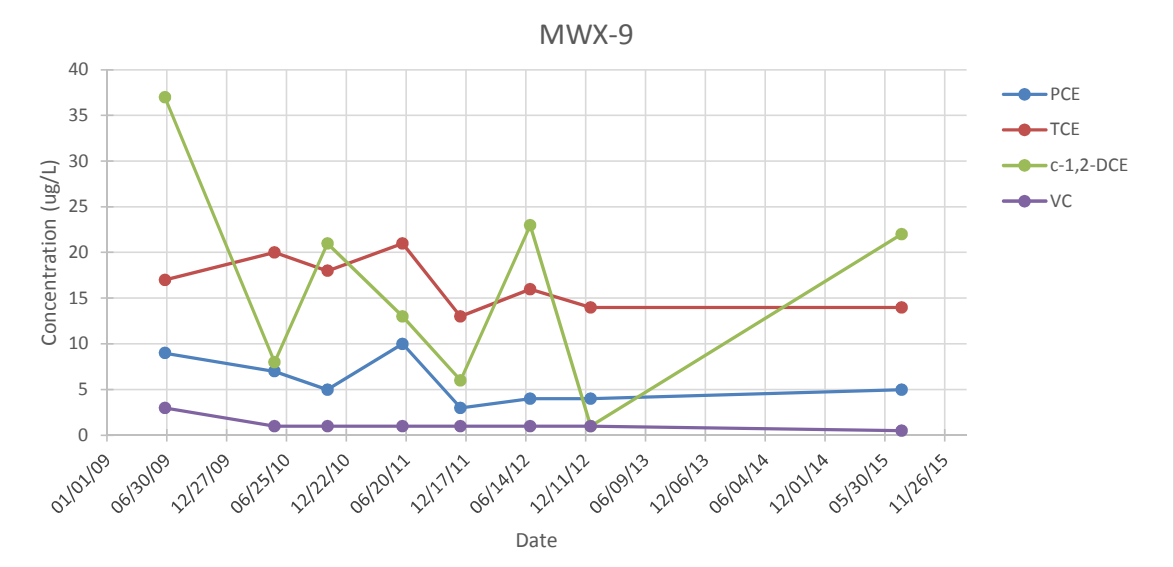

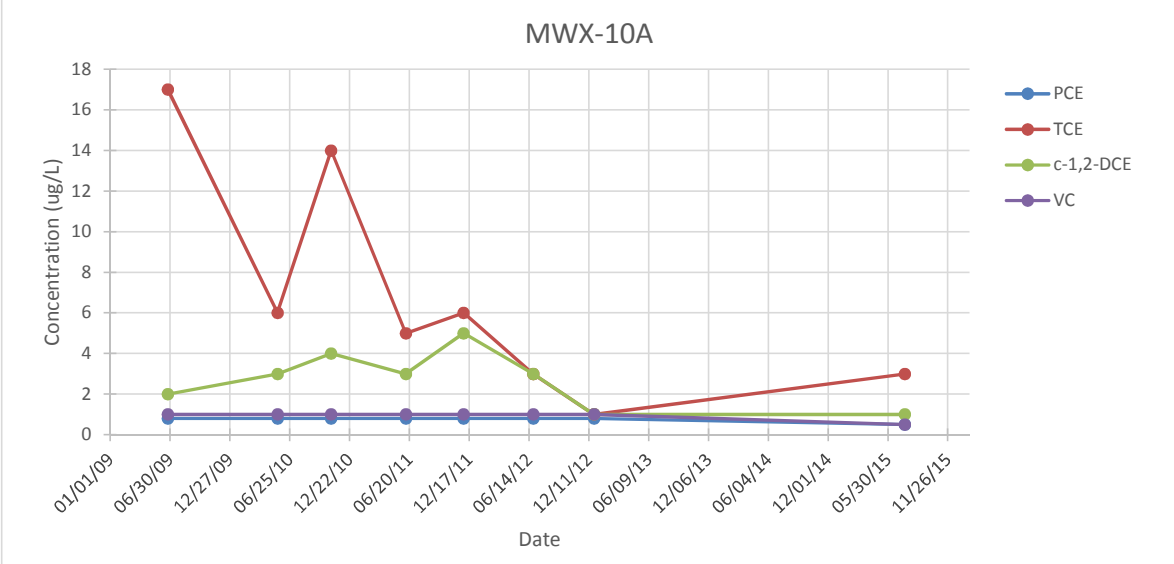

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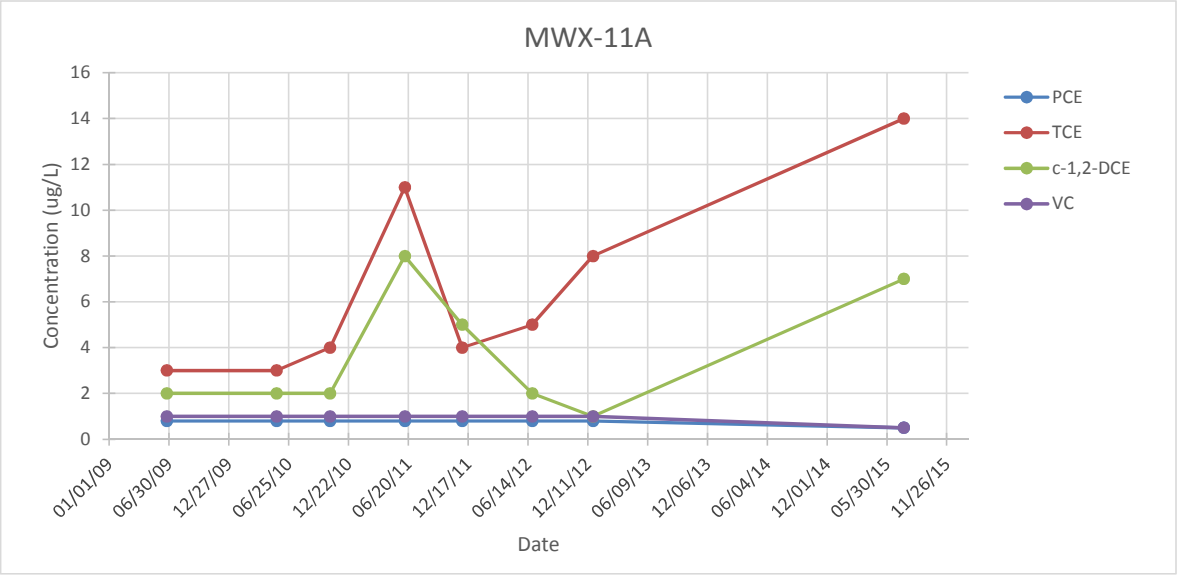

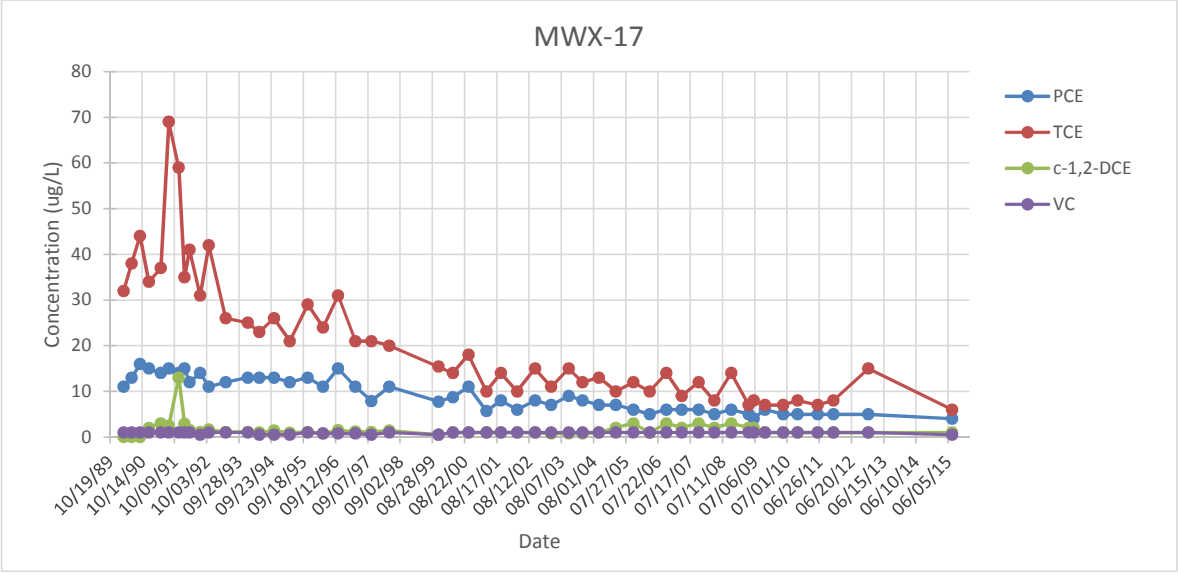

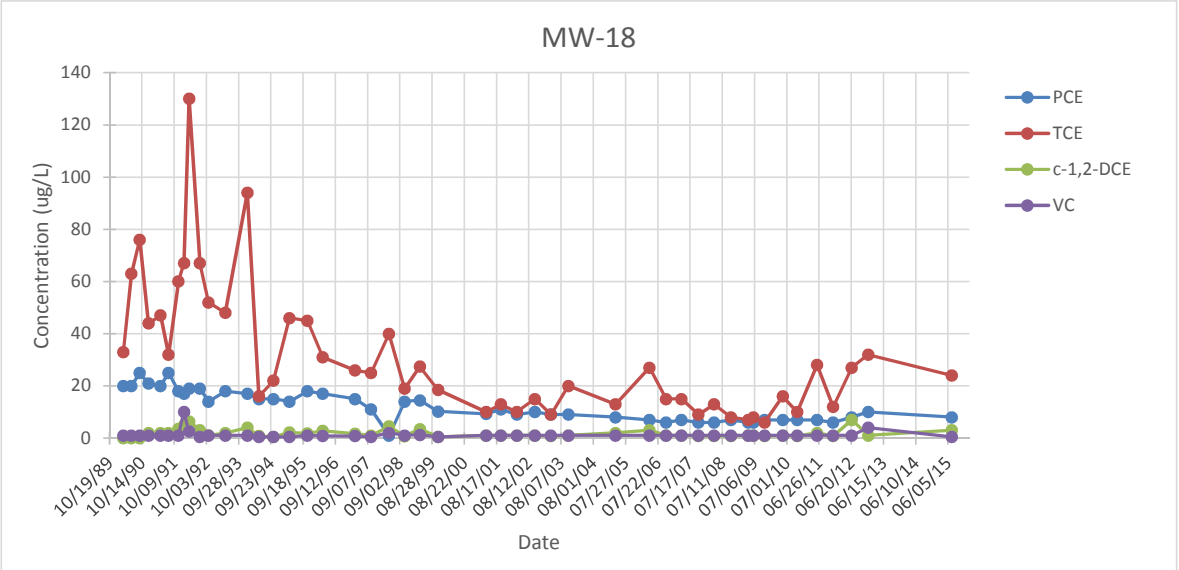

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