ARCADIS U.S., Inc.
950 Glenn Drive
Suite 125
Folsom
California 95630
Tel 916.985.2079
Fax 916.985.2093
www.arcadis-us.com

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

Subject:
Second Semiannual 2012 Groundwater Monitoring Report

ENVIRONMENT

Dear Mr. Detterman:

Date:
April 10, 2013

On behalf of Chevron Environmental Management Company, ARCADIS U.S., Inc (ARCADIS) is pleased to submit the enclosed Second Semiannual 2012 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 510.596.9684.

Contact:
Justin Sobieraj

Phone:
510.596.9684

Email:
Justin.Sobieraj@arcadis-us.com

Our ref:
B0047528.0007

Sincerely,

ARCADIS

Justin Sobieraj, P.G.
Project Geologist

Copies:
Brian Waite, P.G., Chevron Environmental Management Company
Ms. Cherie McCaulou, San Francisco Regional Water Quality Control Board (Region 2)

Brian A. Waite
Project Manager
Marketing Business Unit

Chevron Environmental Management Company
6101 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 790-6486
BWaite@chevron.com

April 10, 2013

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

RE: Second Semi-Annual 2012 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 (925) 790-6486.

Sincerely,

Brian A. Waite

Digitally signed by Brian A. Waite
DN: cn=Brian A. Waite, o=Chevron Environmental Management Company, ou=Marketing Business Unit, email=BWaite@chevron.com, c=US
Date: 2013.04.10 09:10:42 -07'00'

Brian A. Waite
Chevron Environmental Management Company – Project Manager

Attachment
Second Semi-Annual 2012 Groundwater Monitoring Report

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
SEMIANNUAL MONITORING REPORT
SECOND SEMIANNUAL 2012
April 10, 2013

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

Consulting Company/Contact Person/Phone No.:	ARCADIS / Justin Sobieraj / 510.596.9684
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 – 2012) :

1. ARCADIS conducted groundwater monitoring and sampling on December 26 and 27, 2012. Field data sheets are included as **Attachment 1**. Ten (10) groundwater monitoring wells associated with the site were gauged, purged, and sampled during this monitoring event.

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 8060B. 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**.

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**. Historical Groundwater Monitoring Data and Analytical Results are included as **Attachment 3.**

WORK PROPOSED FOR THE NEXT REPORTING PERIOD (Second Quarter – 2013):

1. Perform groundwater monitoring and related reporting during second quarter 2013.

Current Phase of Project:	Groundwater Monitoring
Site Use:	City of Emeryville Parking Lot
Frequency of Sampling:	Groundwater – Semi-Annually
Frequency of Monitoring:	Groundwater – Semi-Annually
Are Separate-Phase Hydrocarbons (SPH) Present On-Site:	Have not been historically detected
Cumulative SPH Recovered to Date:	None
SPH Recovered This Quarter:	None

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
SEMIANNUAL MONITORING REPORT
SECOND SEMIANNUAL 2012
April 10, 2013

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

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
Permits for Discharge (No.):		None
Approximate Depth to Groundwater:		1.83 (MW-19A) – 5.25 (MWX-3) feet (ft) below top of casing (BTOC) Measured X Estimated
Groundwater Gradient:	(Magnitude)	(Direction)
	0.01 foot per foot (ft/ft)	West-southwest

DISCUSSION:

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 2012 groundwater monitoring event remained generally consistent with previous quarters. The maximum dissolved concentrations of TPH-G (300 micrograms per liter [µg/L]), PCE (420 µg/L), TCE (34 µg/L), and c-1,2-DCE (100 µg/L) were detected in samples collected from MWX-2. The maximum dissolved concentration of toluene (2 µg/L) was detected in samples collected from MWX-8. The maximum dissolved concentrations of t-1,2-DCE (3 µg/L) were detected from samples collected from MW-18 and MWX-2. The maximum dissolved concentrations of vinyl chloride (4 µg/L) were detected from samples collected from MW-18, MW-19A and MWX-2. Benzene (0.6 µg/L) is only detected in the sample collected from MWX-3. TPH-D, ethylbenzene, total xylenes, MTBE, 1,1-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 2012 monitoring and sampling event.

Groundwater elevations across the site vary by approximately 4.15 feet, creating a hydraulic gradient of 0.01 ft/ft toward the west-southwest.

[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 2012
April 10, 2013

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

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 7.07 feet above mean sea level (AMSL) in monitoring well MWX-6 and 11.22 feet AMSL in monitoring well MWX-8
- Concentrations of petroleum hydrocarbon constituents and chlorinated volatile organic compounds detected in groundwater samples were generally consistent with the results of recent sampling events
- Concentrations of TPH-G, benzene, toluene, PCE, TCE, t-1,2-DCE, c-1,2-DCE and vinyl chloride were detected above their respective laboratory reporting limits in groundwater samples collected from the site
- Concentrations of TPH-G, 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.
- Benzene, toluene, and t-1,2-DCE 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-D, ethylbenzene, total xylenes, MTBE, 1,1-DCE, 1,1,1-TCA, 1,1-DCA, 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 2012 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.

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, December 26, 2012
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: Historical Groundwater Monitoring Data and Analytical Results

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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	12/27/2012	13.52	4.10	9.42	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	5	**15**	<0.8	<0.8	2	<0.8	<1	*<1*	<0.8
MW-18	12/27/2012	12.95	3.68	9.27	<50 [<50]	<49 [<50]	<0.5 [<0.5]	<0.5 [<0.5]	<0.5 [<0.5]	<0.5 [<0.5]	<0.5 [<0.5]	**10 [11]**	**32 [34]**	<0.8 [<0.8]	3 [3]	**22 [24]**	<0.8 [<0.8]	<1 [<1]	**4 [4]**	<0.8 [<0.8]
MW-19A	12/26/2012	11.79	1.83	9.96	<50	<49	<0.5	0.6	<0.5	<0.5	<0.5	**10**	2	<0.8	<0.8	**22**	<0.8	<1	**4**	<0.8
MWX-10A	12/27/2012	12.78	4.11	8.67	<50	<51	<0.5	<0.5	<0.5	<0.5	<0.5	<0.8	1	<0.8	<0.8	<0.8	<0.8	<1	*<1*	<0.8
MWX-11A	12/27/2012	14.18	3.95	10.23	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.8	**8**	<0.8	1	3	<0.8	<1	*<1*	<0.8
MW-X2	12/27/2012	12.10	2.34	9.76	**300**	<50	<0.5	<0.5	<0.5	<0.5	<0.5	**420**	**34**	<0.8	3	**100**	<0.8	<1	**4**	<0.8
MWX-3	12/27/2012	13.45	5.25	8.20	<50	<50	0.6	<0.5	<0.5	<0.5	<0.5	<0.8	<1	<0.8	2	4	<0.8	<1	**2**	<0.8
MWX-6	12/26/2012	11.41	4.34	7.07	<50	<49	<0.5	<0.5	<0.5	<0.5	<0.5	<0.8	<1	<0.8	<0.8	1	<0.8	<1	*<1*	<0.8
MWX-8	12/26/2012	13.12	1.90	11.22	<50	<50	<0.5	2	<0.5	<0.5	<0.5	1	<1	<0.8	2	4	<0.8	<1	**2**	<0.8
MWX-9	12/26/2012	11.46	2.34	9.12	<50	<51	<0.5	<0.5	<0.5	<0.5	<0.5	4	**14**	<0.8	<0.8	**8**	<0.8	<1	*<1*	<0.8

Notes:
Detected concentration exceeding the ESL are in **Bold**.
Laboratory reporting limit exceeding the ESL are in *italics*.
-- = 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 (SFRWQCB 2013)
MCL = maximum contaminant level (CDPH 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
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
TCE = Trichloroethene
PCE = Tetrachloroethene
CF = Chloroform
VC = Vinyl Chloride
n.a. = not analyzed

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-W	12/27/2012	<1.0	<1.0	13	3,800	41,600	<500	146,000	146,000	<54	<33.3	136
MW-18-W	12/27/2012	4.5	2.4	1,100	<250	35,800	610	164,000	164,000	<54	194	2,250
MW-19A-W	12/26/2012	10	2.1	18,000	<250	3,200	47,700	628,000	628,000	<54	13,900	5,280
MW-10A-W	12/27/2012	<1.0	<1.0	<3.0	4,300	112,000	9,000	192,000	192,000	<54	<33.3	1.2
MW-11A-W	12/27/2012	<1.0	<1.0	<3.0	3,800	78,200	12,100	350,000	350,000	<54	<33.3	16.1
MW-X2-W	12/27/2012	2.1	<1.0	83	410	12,700	3,300	69,100	69,100	<54	<33.3	79.7
MWX-3-W	12/27/2012	34	29	13,000	<250	<1,500	55,200	938,000	938,000	<54	18,000	9,510
MW-X6-W	12/26/2012	<1.0	<1.0	250	260	37,900	5,800	251,000	251,000	<54	55.8	1,090
MW-X8-W	12/26/2012	6.2	5.3	14,000	<250	22,400	108,000	885,000	885,000	240	7,480	14,400
MW-X9-W	12/26/2012	<1.0	<1.0	38	900	31,000	4,300	221,000	221,000	<54	<33.3	233

Notes:
-- = not available
[ ] = 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

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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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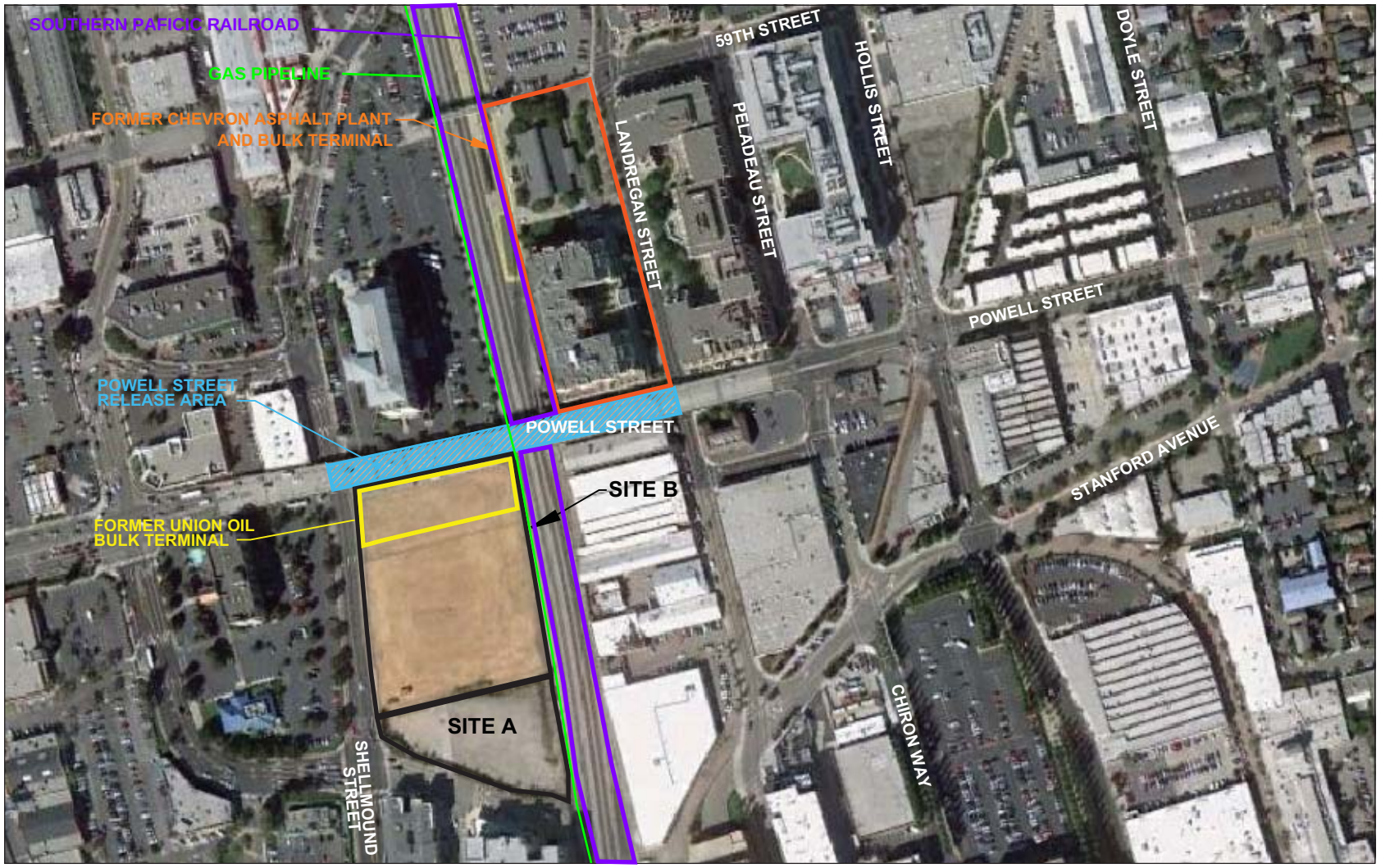

0 400' 800'

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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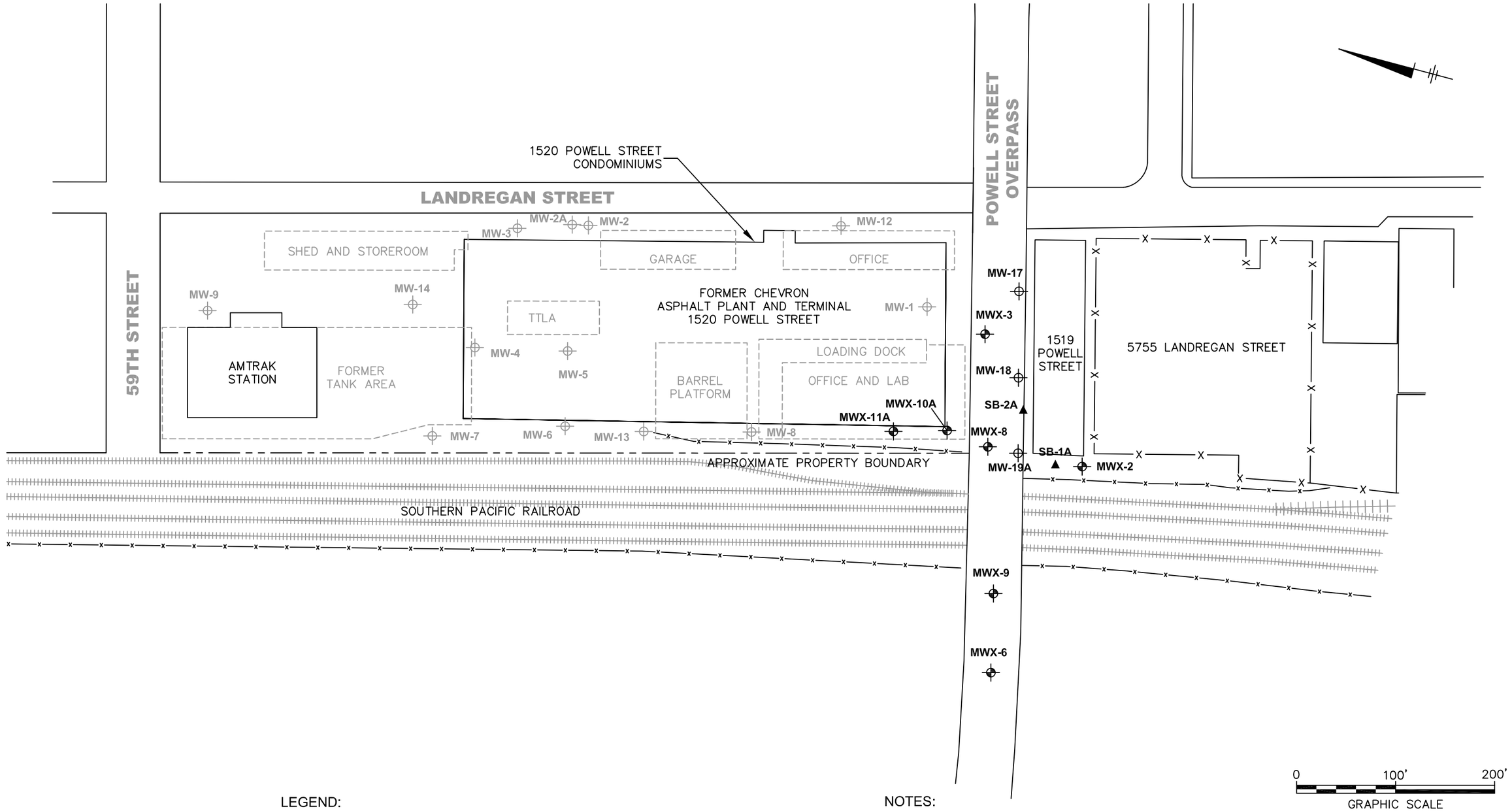
FIGURE
2



LEGEND:

- MONITORING WELL LOCATION (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.

0 100' 200'

GRAPHIC SCALE

FORMER CHEVRON ASPHALT TERMINAL 206265
1520 POWELL STREET
EMERYVILLE, CA

SITE PLAN

ARCADIS

FIGURE
3

CITY: PETALUMA, CA GROUP: ENVCAD DB: (P. LISTER), L. FORAKER, J. HARRIS PIC: J. VOGELEY PM: J. WAGLER TM: B. McKENNA LYR: ON=*;OFF=*REF*
C:\Users\jharris\Desktop\ENVCAD\B0046257\0005\00200\DWG\46257B03.dwg LAYOUT: 3 SAVED: 9/5/2012 11:39 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: SETUP1 PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 9/5/2012 11:42 AM BY: HARRIS, JESSICA
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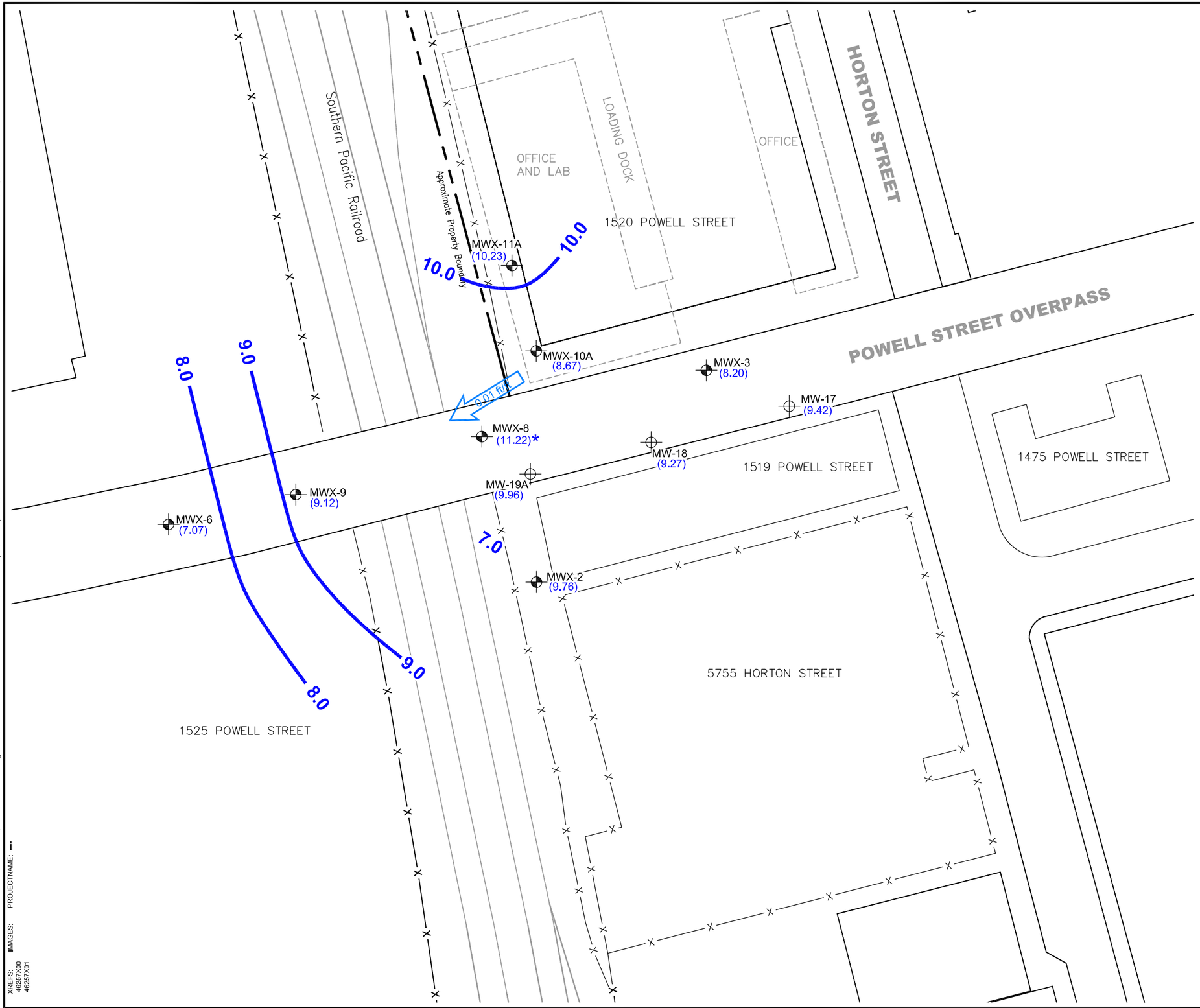

LEGEND:

- MONITORING WELL LOCATION (ARCADIS 2009)
- MONITORING WELL LOCATION (WGR 1990)
- HISTORICAL FEATURE
- (8.67) GROUNDWATER ELEVATION
- 8.0 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, CA

GROUNDWATER ELEVATION CONTOUR MAP DECEMBER 26, 2012

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FIGURE 4

CITY: PETALUMA, CA GROUP: ENVCAD DB: R.PETRIE, J. HARRIS
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IMAGES: PROJECTNAME: --

WELL ID	MWX-3		
Date	ESL	MCL	12/27/2012
Benzene	1.0	1.0	0.6

WELL ID	MW-8		
Date	ESL	MCL	12/26/2012
Toluene	40	150	2

WELL ID	MW-19A		
Date	ESL	MCL	12/26/2012
Toluene	40	150	0.6

WELL ID	MW-2		
Date	ESL	MCL	12/27/2012
TPH-GRO	100	NA	300

5800 SHELLMOUND STREET

Southern Pacific Railroad

Approximate Property Boundary

OFFICE AND LAB

LOADING DOCK

OFFICE

1520 POWELL STREET

LANDREGAN STREET

POWELL STREET OVERPASS

1519 POWELL STREET

1475 POWELL STREET

5755 LANDREGAN STREET

1525 POWELL STREET

MWX-11A

MWX-10A

MWX-3

MWX-8

MW-17

MW-18

MW-19A

MWX-9

MWX-6

MWX-2

LEGEND:

- MONITORING WELL LOCATION (ARCADIS 2009)
- MONITORING WELL LOCATION (WGR 1990)
- HISTORICAL FEATURE

TPH-GRO - TOTAL PETROLEUM HYDROCARBONS AS GASOLINE RANGE ORGANICS

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

ESL - ENVIRONMENTAL SCREENING LEVEL (SFRWQCB 2013)

NOTES:

1. BASE MAP MODIFIED FROM A DRAWING BY GETTLER-RYAN TITLED "SITE PLAN", DATED 07/00, @ 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, CA

DETECTED FUEL RELATED HYDROCARBON COMPOUNDS IN GROUNDWATER

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FIGURE 5

WELL ID	MWX-8		
Date	ESL	MCL	12/26/2012
PCE	5.0	5.0	1
t-1,2-DCE	10.0	10.0	2
c-1,2-DCE	6.0	6.0	4
VC	0.5	0.5	2

WELL ID	MWX-11A		
Date	ESL	MCL	12/27/2012
TCE	5.0	5.0	8
t-1,2-DCE	10	10	1
c-1,2-DCE	6.0	6.0	3

WELL ID	MWX-6		
Date	ESL	MCL	12/26/2012
c-1,2-DCE	6.0	6.0	1

WELL ID	MWX-10A		
Date	ESL	MCL	12/27/2012
TCE	5.0	5.0	1

WELL ID	MWX-3		
Date	ESL	MCL	12/27/2012
t-1,2-DCE	10	10	2
c-1,2-DCE	6.0	6.0	4
VC	0.5	0.5	2

WELL ID	MW-17		
Date	ESL	MCL	12/27/2012
PCE	5.0	5.0	5
TCE	5.0	5.0	15
c-1,2-DCE	6.0	6.0	2

WELL ID	MWX-9		
Date	ESL	MCL	12/26/2012
PCE	5.0	5.0	4
TCE	5.0	5.0	14
c-1,2-DCE	6.0	6.0	8

WELL ID	MW-18		
Date	ESL	MCL	12/27/2012
PCE	5.0	5.0	10 [11]
TCE	5.0	5.0	32 [34]
t-1,2-DCE	10.0	10.0	3 [3]
c-1,2-DCE	6.0	6.0	22 [24]
VC	0.5	0.5	4 [4]

WELL ID	MWX-2		
Date	ESL	MCL	12/27/2012
PCE	5.0	5.0	420
TCE	5.0	5.0	34
t-1,2-DCE	10.0	10.0	3
c-1,2-DCE	6.0	6.0	100
VC	0.5	0.5	4

WELL ID	MW-19A		
Date	ESL	MCL	12/26/2012
PCE	5.0	5.0	10
TCE	5.0	5.0	2
c-1,2-DCE	6.0	6.0	22
VC	0.5	0.5	4

5800 SHELLMOUND STREET

1520 POWELL STREET

1519 POWELL STREET

1475 POWELL STREET

1525 POWELL STREET

5755 LANDREGAN STREET

OFFICE AND LAB

OFFICE

LOADING DOCK

Approximate Property Boundary

Railroad

LANDREGAN STREET

POWELL STREET

MWX-11A

MWX-10A

MWX-3

MWX-8

MW-17

MW-18

MW-19A

MWX-9

MWX-6

MWX-2

LEGEND:

- MONITORING WELL LOCATION (ARCADIS 2009)
- MONITORING WELL LOCATION (WGR 1990)
- HISTORICAL FEATURE
- 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)
- [ ] - DUPLICATE SAMPLE RESULTS

NOTES:

1. BASE MAP MODIFIED FROM A DRAWING BY GETTLER-RYAN TITLED "SITE PLAN", DATED 07/00, @ 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, CA

DETECTED CHLORINATED VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER

ARCADIS

FIGURE 6

CITY: PETALUMA, CA GROUP: ENVCAD DB: R. PETRIE, J. HARRIS
G:\ENVCAD\Petaluma\ACT\B0046257000400050014Q12\DWG\46257C06.dwg LAYOUT: 6 SAVED: 4/2/2013 8:00 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: SETUP1 PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 4/4/2013 7:19 PM BY: HARRIS, JESSICA
XREFS: 46257X00 46257X01 IMAGES: PROJECTNAME: ---

ARCADIS

Attachment 1

Groundwater Sampling Sheets

Monitoring Well Sampling Field Data
Former Chevron Asphalt Plant
1520 Powell Street
Emeryville, California

ARCADIS

Start Time: 1413

Water Quality Meter / Serial No: YSI 565 / Horiba 4084008 (turbidity only)

Well Number: MW-19A	**Well Depth (ft BTIC):** ~~1.83~~ 14.79		**CO (ppm):** —	**VOC (ppm):** 0.0			
Date: 12/26/12	**Screen Length (ft):** —		**H2S (ppm):** —	**Initial Water Level (ft BTIC):** 1.83			
Sampling Device: Peristaltic Pum	**Pump Intake (ft BTIC):** —		**LEL (%):** —	**Pre-Pumping Water Level (ft BTIC):** 1.03			
Sampling Personnel: HT/TR	**Well Diameter (in):** 2.0		**O2 (%):** —	**Tubing Type:** Polyethylene Tubing			

Time	pH	Specific Cond. ~~(µS/cm)~~ mS/cm	Turbidity (NTU)	ORP (mV)	Temp. (degree C)	Depth to Water (feet)	Volume ~~(gallons)~~	Color	Odor	Purge Rate ~~(L/min)~~	Comments
	0.1 unit	3%	10%	±10 mV		0.3 feet	ml/s			ml/min	
14:22	6.74	1.471	890	-91.8	16.56	1.60	—	CLOUDY	NONE	450	Flow through cell filled.
14:26	6.75 ✓	1.351	430	-100.1	16.37	2.63	1,800	CLOUDY	NONE	400	SLOWED DOWN
14:30	6.74 ✓	1.317	260	-96.7	16.24	3.12	3,400	CLOUDY	NONE	400	
14:34	6.75 ✓	1.296	180	-98.9	15.49	3.40 ✓	5,000	CLOUDY	NONE	400	
14:38	6.75 ✓	1.256	140	-99.2 ✓	15.82 ✓	3.59 ✓	6,600	CLOUDY	NONE	400	
14:42	6.76 ✓	1.234 ✓	100	-101.1 ✓	15.81 ✓	3.71 ✓	8,200	CLOUDY	NONE	400	
14:46	6.76 ✓	1.204 ✓	72	-100.2 ✓	15.68 ✓	3.83 ✓	9,800	CLOUDY	NONE	400	
14:50	6.75 ✓	1.192	58	-91.9	15.72	3.90 ✓	11,400	CLOUDY	NONE	400	

Notes:
BTIC - Below Top of Inner Casing
1 Well Volume: gallons
3 Well Volumes: gallons
Total Volume Removed: gallons

2" - 0.163 gal/foot
4" - 0.653 gal/foot

Sample time = 1502

Monitoring Well Sampling Field Data
Former Chevron Asphalt Plant
1520 Powell Street
Emeryville, California

ARCADIS

Start Time: 1330

Water Quality Meter / Serial No: YSI 556 / Horiba 4084008 (turbidity only)

Well Number:	MW-X8		**Well Depth (ft BTIC):**	14.79			**CO (ppm):**	—		**VOC (ppm):**	0.0	
Date:	12/26/12		**Screen Length (ft):**	—			**H2S (ppm):**	—		**Initial Water Level (ft BTIC):**	~~1.83~~	1.90
Sampling Device:	Peristaltic Pum		**Pump Intake (ft BTIC):**	—			**LEL (%):**	—		**Pre-Pumping Water Level (ft BTIC):**	1.82	
Sampling Personnel:	HT/TR		**Well Diameter (in):**			2.0	**O2 (%):**	—		**Tubing Type:**	Polyethylene Tubing	

Time	pH	Specific Cond. (µS/cm)	Turbidity (NTU)	ORP (mV)	Temp. (degree C)	Depth to Water (feet)	Volume ~~(gallons)~~ mls	Color	Odor	Purge Rate ~~(L/min)~~ mL/min	Comments
	0.1 unit	*3% mS/cm²*	*10%*	*±10 mV*		*0.3 feet*					
1336	6.67	1.692	78	-118.0	16.12	~~1.97~~	—	CLEAR	NONE	300	Flow through cell filled.
1340	6.68 ✓	1.706 ✓	(69)	-118.8 ✓	16.11	(2.32)	1,200	CLEAR	NONE	300	
1344	6.71 ✓	1.708 ✓	72 ✓	(-133.3) ✓	15.78	2.59 ✓	2,400	CLEAR	NONE	300	
1348	6.73 ✓	1.706 ✓	78 ✓	-130.0 ✓	15.65	2.77 ✓	3,600	CLOUDY	NONE	300	
									/		

Notes:
BTIC - Below Top of Inner Casing
1 Well Volume: gallons
3 Well Volumes: gallons
Total Volume Removed: gallons

Sample Time = 1403

2" - 0.163 gal/foot
4" - 0.653 gal/foot

Monitoring Well Sampling Field Data
Former Chevron Asphalt Plant
1520 Powell Street
Emeryville, California

ARCADIS

Start Time: 1140

Water Quality Meter / Serial No: YSI 505 / Horiba 4084008 (turbidity only)

Well Number:		MW-X6	**Well Depth (ft BTIC):**	13.32			**CO (ppm):**	—		**VOC (ppm):**	0.0	
Date:	12/26/12		**Screen Length (ft):**	—			**H2S (ppm):**	—		**Initial Water Level (ft BTIC):**	4.34	
Sampling Device:		Peristaltic Pum	**Pump Intake (ft BTIC):**	—			**LEL (%):**	—		**Pre-Pumping Water Level (ft BTIC):**		
Sampling Personnel:		HT/TR	**Well Diameter (in):**			2.0	**O2 (%):**	—		**Tubing Type:**		Polyethylene Tubing

Time	pH *0.1 unit*	Specific Cond. ~~(µS/cm)~~ mS/cm *3%*	Turbidity (NTU) *10%*	ORP (mV) *±10 mV*	Temp. (degree C)	Depth to Water (feet) *0.3 feet*	Volume ~~(gallons)~~ mls	Color	Odor	Purge Rate ~~(L/min)~~ ml/min	Comments
1148	6.77	0.770	87	88.3	18.00	4.38	—	clear	NONE	400	Flow through cell filled.
1152	6.76	0.774	30	87.0	18.10	4.73	1,600	clear	NONE	400	
1156	6.77 ✓	0.759 ✓	18	87.9 ✓	18.20 ✓	4.94 ✓	3,200	clear	NONE	400	
~~1200~~ (G2)		1.951	10.2					~~clear~~ (G2)	~~NONE~~ (G2)	~~400~~ (G2)	
1200	6.82 ✓	0.730	6	85.2 ✓	18.15 ✓	5.03 ✓	4,800	clear	NONE	400	
1204	6.84 ✓	0.705	5	82.6 ✓	18.20 ✓	5.25 ✓	6,400	clear	NONE	400	
1208	6.88 ✓	0.677	0 ✓	80.1 ✓	18.12 ✓	5.31 ✓	8,000	clear	NONE	400	
1212	6.88 ✓	0.660 ✓	0 ✓	74.5 ✓	18.28 ✓	5.40 ✓	9,600	clear	NONE	400	

Notes:
BTIC - Below Top of Inner Casing
1 Well Volume: gallons
3 Well Volumes: gallons
Total Volume Removed: gallons

2" - 0.163 gal/foot
4" - 0.653 gal/foot

Sample time = 1221

Monitoring Well Sampling Field Data
Former Chevron Asphalt Plant
1520 Powell Street
Emeryville, California

ARCADIS

Start Time: 1038

Water Quality Meter / Serial No: YSI 56S / Horiba 4084008 (turbidity only)

Well Number: MW- X9	**Well Depth (ft BTIC):** 12.74	**CO (ppm):** —	**VOC (ppm):** 0.0
Date: 12/26/17	**Screen Length (ft):** —	**H2S (ppm):** —	**Initial Water Level (ft BTIC):** 4.33
Sampling Device: Peristaltic Pum	**Pump Intake (ft BTIC):** —	**LEL (%):** —	**Pre-Pumping Water Level (ft BTIC):**
Sampling Personnel: HT/TR	**Well Diameter (in):** 2.0	**O2 (%):** —	**Tubing Type:** Polyethylene Tubing

Time	pH	Specific Cond. (µS/cm)	Turbidity (NTU)	ORP (mV)	Temp. (degree C)	Depth to Water (feet)	Volume ~~(gallons)~~ ml/s	Color	Odor	Purge Rate ~~(L/min)~~ ml/min	Comments
	0.1 unit	*3% mS/cm*	*10%*	*±10 mV*		*0.3 feet*					
~~1054~~ (TR)											
~~1054~~	7.04	0.535	3	120.2	16.92	4.33	—	Clear	NONE	~~400~~	Flow through cell filled.
1058	7.10	0.531	0	105.4	17.03	4.36	1600	Clear	NONE	400	
1102	7.00	0.535	0	99.2	17.04	4.34	3,200	Clear	NONE	400	
1106	7.09	0.537 (3%)	0	94.3	16.89	4.33	4,800	Clear	NONE	400	

Notes:
BTIC - Below Top of Inner Casing
1 Well Volume: gallons
3 Well Volumes: gallons
Total Volume Removed: gallons

2" - 0.163 gal/foot
4" - 0.653 gal/foot

Sample time = 1118

Monitoring Well Sampling Field Data
Former Chevron Asphalt Plant
1520 Powell Street
Emeryville, California

ARCADIS

Start Time: 1400

Water Quality Meter / Serial No: YSI 556 / Horiba (turbidity only) 4084008

Well Number: MW-X2	**Well Depth (ft BTIC):** 13.05	**CO (ppm):** —	**VOC (ppm):** 0.0
Date: 12/27/12	**Screen Length (ft):** —	**H2S (ppm):** —	**Initial Water Level (ft BTIC):** 2.34
Sampling Device: Peristaltic Pum	**Pump Intake (ft BTIC):** —	**LEL (%):** —	**Pre-Pumping Water Level (ft BTIC):** 2.24
Sampling Personnel: HT/TR	**Well Diameter (in):** 2.0	**O2 (%):** —	**Tubing Type:** Polyethylene Tubing

Time	pH	Specific Cond. (~~µS/cm~~ mS/cm)	Turbidity (NTU)	ORP (mV)	Temp. (degree C)	Depth to Water (feet)	Volume (~~gallons~~ ml/s)	Color	Odor	Purge Rate (~~L/min~~ ml/min)	Comments	
	0.1 unit	*3%*	*10%*	*±10 mV*		*0.3 feet*						
1406	7.10	0.219	170	40.7	14.29	2.47	—	CLOUDY	NONE	350	Flow through cell filled.	1
1410	6.99	0.214	94	51.6	14.11	2.51 ✓	1,400	CLOUDY	NONE	350		2
1414	6.94 ✓	0.214 ✓	(79)	60.1 ✓	14.14 ✓	2.53 ✓	2,800	CLOUDY	NONE	350		3
1418	6.86 ✓	0.212 ✓	(52)	(73.3)	14.17 ✓	2.55 ✓	4,200	CLOUDY	NONE	350		4
1422	6.79 ✓	0.216 ✓	(33)	81.6 ✓	14.24 ✓	2.55 ✓	5,600	CLEAR	NONE	350		5
1426	6.73 ✓	(0.223)	(20)	89.0 ✓	14.34 ✓	2.55 ✓	7,000	CLEAR	NONE	350		6
1430	6.69 ✓	(0.230)	(17)	92.2 ✓	14.38 ✓	2.56 ✓	8,400	CLEAR	NONE	350		7
1434	6.67 ✓	0.236	14	93.7	14.44	2.55 ✓	9,800	CLEAR	NONE	350		8

Notes:
BTIC - Below Top of Inner Casing
1 Well Volume: gallons
3 Well Volumes: gallons
Total Volume Removed: gallons

2" - 0.163 gal/foot
4" - 0.653 gal/foot

Sample time = 1445

Monitoring Well Sampling Field Data
Former Chevron Asphalt Plant
1520 Powell Street
Emeryville, California

ARCADIS

Start Time: 1257

Water Quality Meter / Serial No: YSI 556 / Horiba 4084008 (turbidity only)

Well Number: MW- 10A	**Well Depth (ft BTIC):** 12.72	**CO (ppm):** —	**VOC (ppm):** 0.0
Date: 12/27/12	**Screen Length (ft):** —	**H2S (ppm):** —	**Initial Water Level (ft BTIC):** 4.11
Sampling Device: Peristaltic Pum	**Pump Intake (ft BTIC):** —	**LEL (%):** —	**Pre-Pumping Water Level (ft BTIC):** 4.49
Sampling Personnel: HT/TR	**Well Diameter (in):** 2.0	**O2 (%):** —	**Tubing Type:** Polyethylene Tubing

Time	pH	Specific Cond. (µS/cm)	Turbidity (NTU)	ORP (mV)	Temp. (degree C)	Depth to Water (feet)	Volume (gallons) ml	Color	Odor	Purge Rate (L/min) ml/min	Comments	
	0.1 unit	3%	10%	±10 mV		0.3 feet						
1300	7.27	0.833	320	-4.6	14.39	4.53	—	CLOUDY	NONE	300	Flow through cell filled.	1
1304	7.15	0.835	130	10.6	14.37	4.53	1,200	CLOUDY	NONE	300		2
1308	(7.06) ✓	0.828	(56)	(27.7)	14.32 ✓	4.55 ✓	2,400	CLOUDY	NONE	300		3
1312	7.00 ✓	0.827 ✓	(33)	(43.9)	13.92	4.55 ✓	3,600	CLOUDY	NONE	300		4
1316	7.01 ✓	0.818 ✓	(20)	48.2 ✓	13.75 ✓	4.55 ✓	4,800	CLOUDY	NONE	300		5
1320	7.04 ✓	0.808 ✓	(15)	50.9 ✓	13.61 ✓	4.55 ✓	6,000	CLOUDY	NONE	300		6
1324	7.07 ✓	0.801 ✓	14 ✓	51.4 ✓	13.44 ✓	4.55 ✓	7,200	CLOUDY	NONE	300		7
~~1328~~							~~8,400~~	~~CLOUDY~~	~~NONE~~	~~300~~		8

Notes:
BTIC - Below Top of Inner Casing
1 Well Volume: gallons
3 Well Volumes: gallons
Total Volume Removed: gallons

2" - 0.163 gal/foot
4" - 0.653 gal/foot

Sample time: 1337

Monitoring Well Sampling Field Data
Former Chevron Asphalt Plant
1520 Powell Street
Emeryville, California

ARCADIS

Start Time: 0852

Water Quality Meter / Serial No: YSI 565 / Horiba 4084008 (turbidity only)

Well Number:		MW- 17	**Well Depth (ft BTIC):**	11.79			**CO (ppm):**	—		**VOC (ppm):**	0.0	
Date:	12/27/12		**Screen Length (ft):**	—			**H2S (ppm):**	—		**Initial Water Level (ft BTIC):**	4.10	
Sampling Device:		eristaltic Pum	**Pump Intake (ft BTIC):**	—			**LEL (%):**	—		**Pre-Pumping Water Level (ft BTIC):**	4.10	
Sampling Personnel:		HT/TR	**Well Diameter (in):**			2.0	**O2 (%):**	—		**Tubing Type:**		Polyethylene Tubing

Time	pH	Specific Cond. (µS/cm)	Turbidity (NTU)	ORP (mV)	Temp. (degree C)	Depth to Water (feet)	Volume (gallons) ml	Color	Odor	Purge Rate (L/min) ml/min	Comments
	0.1 unit	3%	10%	±10 mV		0.3 feet					
0900	5.42	0.603	6	191.1	15.72	4.32	—	CLEAR	NONE	300	Flow through cell filled.
0904	5.80	0.575	3 ✓	170.3 ✓	16.43 ✓	4.33 ✓	1,200	CLEAR	NONE	300	
0908	5.97	0.571	2 ✓	167.8 ✓	16.75 ✓	4.33 ✓	2,400	CLEAR	NONE	300	
0912	6.09	0.566	2 ✓	162.0 ✓	16.89 ✓	4.33 ✓	3,600	CLEAR	NONE	300	
0916	6.11 ✓	0.568	1 ✓	161.9 ✓	16.87 ✓	4.33 ✓	4,800			300	

Notes:
BTIC - Below Top of Inner Casing
1 Well Volume: gallons
3 Well Volumes: gallons
Total Volume Removed: gallons

2" - 0.163 gal/foot
4" - 0.653 gal/foot

Sample time = 0923

Monitoring Well Sampling Field Data
Former Chevron Asphalt Plant
1520 Powell Street
Emeryville, California

ARCADIS

Start Time: 0941

Water Quality Meter / Serial No: YSI 505 / Horiba U-22 (turbidity only)

Well Number:	MW-18	**Well Depth (ft BTIC):**	10.72	**CO (ppm):**	—	**VOC (ppm):**	0.0				
Date:	12/27/12	**Screen Length (ft):**	—	**H2S (ppm):**	—	**Initial Water Level (ft BTIC):**	3.68				
Sampling Device:	Peristaltic Pump	**Pump Intake (ft BTIC):**	—	**LEL (%):**	—	**Pre-Pumping Water Level (ft BTIC):**	3.57				
Sampling Personnel:	HT/TR	**Well Diameter (in):**	2.0	**O2 (%):**	—	**Tubing Type:**	Polyethylene Tubing				

Time	pH	Specific Cond. (µS/cm)	Turbidity (NTU)	ORP (mV)	Temp. (degree C)	Depth to Water (feet)	Volume ~~(gallons)~~ ml	Color	Odor	Purge Rate ~~(L/min)~~ ml/min	Comments
	0.1 unit	3%	10%	±10 mV		0.3 feet					
0949	6.48	0.533	23	86.8	15.01	3.67	—	CLEAR	NONE	350	Flow through cell filled.
0953	6.38	0.535	15	73.3	15.34	3.66	1,400	CLEAR	NONE	350	
0957	6.40 ✓	0.533 ✓	(13)	68.0 ✓	15.44 ✓	3.62 ✓	2,800	Clear	NONE	350	
1001	6.41 ✓	0.532 ✓	(7)	63.0 ✓	15.46 ✓	3.63 ✓	4,200	CLEAR	NONE	350	
1005	6.42 ✓	0.528 ✓	5	(49.0)	15.54 ✓	3.65 ✓	5,600	clear	none	350	
1009	6.42 ✓	0.525 ✓	5 ✓	51.3 ✓	15.51 ✓	3.66 ✓	7,000	CLEAR	NONE	350	

Notes:
BTIC - Below Top of Inner Casing
1 Well Volume: gallons
3 Well Volumes: gallons
Total Volume Removed: gallons

2" - 0.163 gal/foot
4" - 0.653 gal/foot

Sample time = 1020

Blind Dup time = 1110
ID = BD20121227 12

Monitoring Well Sampling Field Data
Former Chevron Asphalt Plant
1520 Powell Street
Emeryville, California

ARCADIS

Start Time: 1050

Water Quality Meter / Serial No: YSI 565 / Horiba 4084008 (turbidity only)

Well Number: MW-X3	**Well Depth (ft BTIC):** 13.02	**CO (ppm):** —	**VOC (ppm):** 0.0		
Date: 12/27/12	**Screen Length (ft):** —	**H2S (ppm):** —	**Initial Water Level (ft BTIC):** 5.25		
Sampling Device: Peristaltic Pum	**Pump Intake (ft BTIC):** —	**LEL (%):** —	**Pre-Pumping Water Level (ft BTIC):** 5.31		
Sampling Personnel: HT/TR	**Well Diameter (in):** 2.0	**O2 (%):** —	**Tubing Type:** Polyethylene Tubing		

Time	pH	Specific Cond. (~~µS/cm~~)	Turbidity (NTU)	ORP (mV)	Temp. (degree C)	Depth to Water (feet)	Volume (~~gallons~~)	Color	Odor	Purge Rate (~~L/min~~)	Comments	
	0.1 unit	3% ~~mS/cm~~	10%	±10 mV		0.3 feet	ml			ml/min		
1056	6.46	1.961	600	-94.9	15.42	5.86	—	CLOUDY	NONE	300	Flow through cell filled.	1
1100	6.49 ✓	2.007 ✓	350	-95.1 ✓	15.41 ✓	6.44	1,200	CLOUDY	NONE	300		2
1104	6.51 ✓	2.015 ✓	220	-83.8	15.58 ✓	7.09	2,400	CLOUDY	NONE	300		3
1108	6.53 ✓	2.021 ✓	260	-82.4 ✓	15.75 ✓	7.69	3,600	CLOUDY	NONE	300		4
1112	6.54 ✓	2.025 ✓	310	-76.1 ✓	15.80 ✓	8.13	4,800	CLOUDY	NONE	300		5
1116	6.55 ✓	2.031 ✓	350	-77.2 ✓	15.85 ✓	8.72	6,000	CLOUDY	NONE	300		6
1120	6.56 ✓	2.038 ✓	480	-76.5 ✓	15.88 ✓	9.29	7,200	CLOUDY	NONE	300		7
1124	6.57 ✓	2.044	560	-77.2 ✓	15.94	9.95	8,400	CLOUDY	NONE	300		8

Notes:
BTIC - Below Top of Inner Casing
1 Well Volume: gallons
3 Well Volumes: gallons
Total Volume Removed: gallons

2" - 0.163 gal/foot
4" - 0.653 gal/foot

Sample time = 1134

Monitoring Well Sampling Field Data
Former Chevron Asphalt Plant
1520 Powell Street
Emeryville, California

ARCADIS

Start Time: 1200

Water Quality Meter / Serial No: YSI 556 / Horiba 4084008 (Turbidity only)

Well Number: MW- 11A	**Well Depth (ft BTIC):** 12.88	**CO (ppm):** —	**VOC (ppm):** 0.0
Date: 12/27/12	**Screen Length (ft):** ~	**H2S (ppm):** —	**Initial Water Level (ft BTIC):** 3.95
Sampling Device: Peristaltic Pum	**Pump Intake (ft BTIC):** —	**LEL (%):** —	**Pre-Pumping Water Level (ft BTIC):** 4.92
Sampling Personnel: HT/TR	**Well Diameter (in):** 2.0	**O2 (%):** —	**Tubing Type:** Polyethylene Tubing

Time	pH	Specific Cond. (~~µS/cm~~ mS/cm)	Turbidity (NTU)	ORP (mV)	Temp. (degree C)	Depth to Water (feet)	Volume ~~(gallons)~~ ml	Color	Odor	Purge Rate ~~(L/min)~~ ml/min	Comments
	0.1 unit	3%	10%	±10 mV		0.3 feet					
1210	6.86	1.061	77	29.5	14.02	5.11	—	CLEAR	NONE	300	Flow through cell filled.
1214	6.79	1.052	14	39.6	14.21	5.33	1,200	CLEAR	NONE	300	
1218	6.76 ✓	1.044 ✓	(12)	46.6 ✓	14.48 ✓	5.63 ✓	2,400	CLEAR	NONE	300	
1222	6.74 ✓	1.038 ✓	(10)	49.0 ✓	14.48 ✓	5.90 ✓	3,600	CLEAR	NONE	300	
1226	6.70 ✓	1.034 ✓	(13)	56.0 ✓	14.46 ✓	6.11 ✓	4,800	CLEAR	NONE	300	
1230	6.69 ✓	1.036 ✓	13 ✓	59.4 ✓	14.49 ✓	6.38 ✓	6,000	CLEAR	NONE	300	

Notes:
BTIC - Below Top of Inner Casing
1 Well Volume: gallons
3 Well Volumes: gallons
Total Volume Removed: gallons

Sample time = 1240

2" - 0.163 gal/foot
4" - 0.653 gal/foot

ARCADIS

Attachment 2

Laboratory Analytical Report and Chain-of-Custody Documentation

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

January 10, 2013

Project: 206265

Submittal Date: 12/28/2012
Group Number: 1358863
PO Number: 0015106682
Release Number: WAITE
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
QA-T-121227 NA Water	6907522
QA-O-121227 Grab Water	6907523
QA-O-121227 Filtered Grab Water	6907524
MW-17-W-121227 Grab Groundwater	6907525
MW-17-W-121227 Filtered Grab Groundwater	6907526
MW-18-W-121227 Grab Groundwater	6907527
MW-18-W-121227 Filtered Grab Groundwater	6907528
BD-WD-121227 Grab Groundwater	6907529
BD-WD-121227 Filtered Grab Groundwater	6907530
MWX-3-W-121227 Grab Groundwater	6907531
MWX-3-W-121227 Filtered Grab Groundwater	6907532
MW-11A-W-121227 Grab Groundwater	6907533
MW-11A-W-121227 Filtered Grab Groundwater	6907534
MW-10A-W-121227 Grab Groundwater	6907535
MW-10A-W-121227 Filtered Grab Groundwater	6907536
MW-X2-W-121227 Grab Groundwater	6907537
MW-X2-W-121227 Filtered Grab Groundwater	6907538

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

ELECTRONIC COPY TO	Arcadis	Attn: Angeline Tan
ELECTRONIC COPY TO	Arcadis	Attn: Brian Westhoff

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 •717-656-2300 Fax:717-656-2681• www.lancasterlabs.com

Respectfully Submitted,

Jill M. Parker
Senior Specialist

(717) 556-7262

Sample Description: QA-T-121227 NA Water
Facility# 206265 BBLW
1520 Powell St-Emeryville SLT2007076 QA

LLI Sample # WW 6907522
LLI Group # 1358863
Account # 11964

Project Name: 206265

Collected: 12/27/2012

Submitted: 12/28/2012 09:30
Reported: 01/10/2013 15:19

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

6265T

CAT No.	Analysis Name	CAS Number	As Received Result	As Received 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.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	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.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	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.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	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.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	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.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	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: QA-T-121227 NA Water
Facility# 206265 BBLW
1520 Powell St-Emeryville SLT2007076 QA

LLI Sample # WW 6907522
LLI Group # 1358863
Account # 11964

Project Name: 206265

Collected: 12/27/2012

Submitted: 12/28/2012 09:30
Reported: 01/10/2013 15:19

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

6265T

CAT No.	Analysis Name	CAS Number	As Received Result	As Received 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.	1	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	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.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	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.	1	1
10335	m+p-Xylene	n.a.	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1

General Sample Comments

State of California Lab Certification No. 2501

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	W130011AA	01/01/2013 18:06	Emily R Styer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W130011AA	01/01/2013 18:06	Emily R Styer	1

Sample Description: QA-O-121227 Grab Water
Facility# 206265 BBLW
1520 Powell St-Emeryville SLT2007076 QA

LLI Sample # WW 6907523
LLI Group # 1358863
Account # 11964

Project Name: 206265

Collected: 12/27/2012 08:40 by HT

Submitted: 12/28/2012 09:30
Reported: 01/10/2013 15:19

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

6265E

CAT No.	Analysis Name	CAS Number	As Received Result	As Received 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.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	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.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	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	2	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	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.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	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.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	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: QA-O-121227 Grab Water
Facility# 206265 BBLW
1520 Powell St-Emeryville SLT2007076 QA

LLI Sample # WW 6907523
LLI Group # 1358863
Account # 11964

Project Name: 206265

Collected: 12/27/2012 08:40 by HT

Submitted: 12/28/2012 09:30
Reported: 01/10/2013 15:19

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

6265E

CAT No.	Analysis Name	CAS Number	As Received Result	As Received 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.	1	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	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.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	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.	1	1
10335	m+p-Xylene	n.a.	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 modified**		**ug/l**	**ug/l**	
02740	C11-C36	n.a.	N.D.	50	1
02740	Total TPH	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.	50	1
00228	Sulfate	14808-79-8	N.D.	300	1
	SM20 5310 C		**ug/l**	**ug/l**	
00273	Total Organic Carbon	n.a.	N.D.	500	1
	SM20 2320 B		**ug/l as CaCO3**	**ug/l as CaCO3**	
12150	Total Alkalinity	n.a.	870	700	1

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Analysis Report

Sample Description: QA-O-121227 Grab Water
Facility# 206265 BBLW
1520 Powell St-Emeryville SLT2007076 QA

LLI Sample # WW 6907523
LLI Group # 1358863
Account # 11964

Project Name: 206265

Collected: 12/27/2012 08:40 by HT

Submitted: 12/28/2012 09:30
Reported: 01/10/2013 15:19

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

6265E

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Wet Chemistry	**SM20 2320 B**		**ug/l as CaCO3**	**ug/l as CaCO3**	
12149	Bicarbonate Alkalinity	n.a.	870	700	1
	SM20 4500 S2 D		**ug/l**	**ug/l**	
00230	Sulfide	18496-25-8	N.D.	54	1

General Sample Comments

State of California Lab Certification No. 2501

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	W130011AA	01/01/2013 18:30	Emily R Styer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W130011AA	01/01/2013 18:30	Emily R Styer	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12365A07A	01/03/2013 11:55	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12365A07A	01/03/2013 11:55	Marie D John	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	123660004A	01/03/2013 12:01	Kerrie A Freeburn	1
02740	Custom TPH with Ranges (Water)	SW-846 8015B modified	1	123630030A	01/05/2013 15:30	Heather E Williams	1
11181	Custom TPH w/ Ranges Water Ext	SW-846 3510C	1	123630030A	12/31/2012 11:00	Elizabeth A Sholder	1
00368	Nitrate Nitrogen	EPA 300.0	1	12363655601A	12/28/2012 16:46	Christopher D Meeks	1
00228	Sulfate	EPA 300.0	1	12363655601A	12/28/2012 16:46	Christopher D Meeks	1
00273	Total Organic Carbon	SM20 5310 C	1	13003049502A	01/03/2013 04:38	James S Mathiot	1
12150	Total Alkalinity	SM20 2320 B	1	13002002101A	01/03/2013 00:03	Clayton C Litchmore	1
12149	Bicarbonate Alkalinity	SM20 2320 B	1	13002002101A	01/03/2013 00:03	Clayton C Litchmore	1
00230	Sulfide	SM20 4500 S2 D	1	12366023001A	12/31/2012 14:35	Susan E Hibner	1

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Analysis Report

Sample Description: QA-O-121227 Filtered Grab Water
Facility# 206265 BBLW
1520 Powell St-Emeryville SLT2007076 QA

LLI Sample # WW 6907524
LLI Group # 1358863
Account # 11964

Project Name: 206265

Collected: 12/27/2012 08:40 by HT

Submitted: 12/28/2012 09:30
Reported: 01/10/2013 15:19

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received 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	N.D.	0.83	1

General Sample Comments

State of California Lab Certification No. 2501
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	123635716003	12/30/2012 21:04	Tara L Snyder	1
07058	Manganese	EPA 200.7 rev 4.4	1	123635716003	12/30/2012 21:04	Tara L Snyder	1
05716	EPA 600 ICP Digest (tot rec)	EPA 200.7 rev 4.4	1	123635716003	12/30/2012 07:36	James L Mertz	1

Sample Description: MW-17-W-121227 Grab Groundwater
Facility# 206265 BBLW
1520 Powell St-Emeryville SLT2007076 MW-17

LLI Sample # WW 6907525
LLI Group # 1358863
Account # 11964

Project Name: 206265

Collected: 12/27/2012 09:23 by HT

Submitted: 12/28/2012 09:30
Reported: 01/10/2013 15:19

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

26517

CAT No.	Analysis Name	CAS Number	As Received Result	As Received 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.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	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.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	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.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	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.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	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.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	2	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	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-121227 Grab Groundwater
Facility# 206265 BBLW
1520 Powell St-Emeryville SLT2007076 MW-17

LLI Sample # WW 6907525
LLI Group # 1358863
Account # 11964

Project Name: 206265

Collected: 12/27/2012 09:23 by HT

Submitted: 12/28/2012 09:30
Reported: 01/10/2013 15:19

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

26517

CAT No.	Analysis Name	CAS Number	As Received Result	As Received 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.	1	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	5	0.8	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.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	15	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	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.	1	1
10335	m+p-Xylene	n.a.	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	13	3.0	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**ug/l**	**ug/l**	
02740	C11-C36	n.a.	N.D.	50	1
02740	Total TPH	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	3,800	250	5
00228	Sulfate	14808-79-8	41,600	1,500	5
	SM20 5310 C		**ug/l**	**ug/l**	
00273	Total Organic Carbon	n.a.	N.D.	500	1
	SM20 2320 B		**ug/l as CaCO3**	**ug/l as CaCO3**	
12150	Total Alkalinity	n.a.	146,000	700	1

Sample Description: MW-17-W-121227 Grab Groundwater
Facility# 206265 BBLW
1520 Powell St-Emeryville SLT2007076 MW-17

LLI Sample # WW 6907525
LLI Group # 1358863
Account # 11964

Project Name: 206265

Collected: 12/27/2012 09:23 by HT

Submitted: 12/28/2012 09:30
Reported: 01/10/2013 15:19

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

26517

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Wet Chemistry	**SM20 2320 B**		**ug/l as CaCO3**	**ug/l as CaCO3**	
12149	Bicarbonate Alkalinity	n.a.	146,000	700	1
	SM20 4500 S2 D		**ug/l**	**ug/l**	
00230	Sulfide	18496-25-8	N.D.	54	1

General Sample Comments

State of California Lab Certification No. 2501

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	W130011AA	01/01/2013 20:06	Emily R Styer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W130011AA	01/01/2013 20:06	Emily R Styer	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12365A07A	01/03/2013 12:20	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12365A07A	01/03/2013 12:20	Marie D John	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	123660004A	12/31/2012 21:38	Kerrie A Freeburn	1
02740	Custom TPH with Ranges (Water)	SW-846 8015B modified	1	123630030A	01/05/2013 15:53	Heather E Williams	1
11181	Custom TPH w/ Ranges Water Ext	SW-846 3510C	1	123630030A	12/31/2012 11:00	Elizabeth A Sholder	1
00368	Nitrate Nitrogen	EPA 300.0	1	12363655601A	12/28/2012 17:01	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	12363655601A	12/28/2012 17:01	Christopher D Meeks	5
00273	Total Organic Carbon	SM20 5310 C	1	13003049502A	01/03/2013 04:53	James S Mathiot	1
12150	Total Alkalinity	SM20 2320 B	1	13002002101A	01/03/2013 00:08	Clayton C Litchmore	1
12149	Bicarbonate Alkalinity	SM20 2320 B	1	13002002101A	01/03/2013 00:08	Clayton C Litchmore	1
00230	Sulfide	SM20 4500 S2 D	1	12366023001A	12/31/2012 14:35	Susan E Hibner	1

Sample Description: MW-17-W-121227 Filtered Grab Groundwater
Facility# 206265 BBLW
1520 Powell St-Emeryville SLT2007076 MW-17

LLI Sample # WW 6907526
LLI Group # 1358863
Account # 11964

Project Name: 206265

Collected: 12/27/2012 09:23 by HT

Submitted: 12/28/2012 09:30
Reported: 01/10/2013 15:19

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received 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	136	0.83	1

General Sample Comments

State of California Lab Certification No. 2501
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	123635716003	12/30/2012 20:41	Tara L Snyder	1
07058	Manganese	EPA 200.7 rev 4.4	1	123635716003	12/30/2012 20:41	Tara L Snyder	1
05716	EPA 600 ICP Digest (tot rec)	EPA 200.7 rev 4.4	1	123635716003	12/30/2012 07:36	James L Mertz	1

Sample Description: MW-18-W-121227 Grab Groundwater
Facility# 206265 BBLW
1520 Powell St-Emeryville SLT2007076 MW-18

LLI Sample # WW 6907527
LLI Group # 1358863
Account # 11964

Project Name: 206265

Collected: 12/27/2012 10:20 by HT

Submitted: 12/28/2012 09:30
Reported: 01/10/2013 15:19

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

26518

CAT No.	Analysis Name	CAS Number	As Received Result	As Received 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.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	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.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	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.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	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.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	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.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	22	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	3	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	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-121227 Grab Groundwater
Facility# 206265 BBLW
1520 Powell St-Emeryville SLT2007076 MW-18

LLI Sample # WW 6907527
LLI Group # 1358863
Account # 11964

Project Name: 206265

Collected: 12/27/2012 10:20 by HT

Submitted: 12/28/2012 09:30
Reported: 01/10/2013 15:19

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

26518

CAT No.	Analysis Name	CAS Number	As Received Result	As Received 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.	1	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	10	0.8	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.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	32	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	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	4	1	1
10335	m+p-Xylene	n.a.	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	4.5	1.0	1
07105	Ethene	74-85-1	2.4	1.0	1
07105	Methane	74-82-8	1,100	30	10
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**ug/l**	**ug/l**	
02740	C11-C36	n.a.	N.D.	49	1
02740	Total TPH	n.a.	N.D.	49	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
00228	Sulfate	14808-79-8	35,800	1,500	5
	SM20 5310 C		**ug/l**	**ug/l**	
00273	Total Organic Carbon	n.a.	610	500	1
	SM20 2320 B		**ug/l as CaCO3**	**ug/l as CaCO3**	
12150	Total Alkalinity	n.a.	164,000	700	1

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Analysis Report

Sample Description: MW-18-W-121227 Grab Groundwater
Facility# 206265 BBLW
1520 Powell St-Emeryville SLT2007076 MW-18

LLI Sample # WW 6907527
LLI Group # 1358863
Account # 11964

Project Name: 206265

Collected: 12/27/2012 10:20 by HT

Submitted: 12/28/2012 09:30
Reported: 01/10/2013 15:19

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

26518

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Wet Chemistry	**SM20 2320 B**		**ug/l as CaCO3**	**ug/l as CaCO3**	
12149	Bicarbonate Alkalinity	n.a.	164,000	700	1
	SM20 4500 S2 D		**ug/l**	**ug/l**	
00230	Sulfide	18496-25-8	N.D.	54	1

General Sample Comments

State of California Lab Certification No. 2501

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	W130011AA	01/01/2013 20:30	Emily R Styer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W130011AA	01/01/2013 20:30	Emily R Styer	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12365A07A	01/03/2013 12:46	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12365A07A	01/03/2013 12:46	Marie D John	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	123660004A	12/31/2012 21:57	Kerrie A Freeburn	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	123660004A	01/03/2013 12:20	Kerrie A Freeburn	10
02740	Custom TPH with Ranges (Water)	SW-846 8015B modified	1	123630030A	01/05/2013 16:17	Heather E Williams	1
11181	Custom TPH w/ Ranges Water Ext	SW-846 3510C	1	123630030A	12/31/2012 11:00	Elizabeth A Sholder	1
00368	Nitrate Nitrogen	EPA 300.0	1	12363655601A	12/28/2012 17:16	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	12363655601A	12/28/2012 17:16	Christopher D Meeks	5
00273	Total Organic Carbon	SM20 5310 C	1	13003049502A	01/03/2013 05:07	James S Mathiot	1
12150	Total Alkalinity	SM20 2320 B	1	13002002101A	01/03/2013 00:13	Clayton C Litchmore	1
12149	Bicarbonate Alkalinity	SM20 2320 B	1	13002002101A	01/03/2013 00:13	Clayton C Litchmore	1
00230	Sulfide	SM20 4500 S2 D	1	12366023001A	12/31/2012 14:35	Susan E Hibner	1

Sample Description: MW-18-W-121227 Filtered Grab Groundwater
Facility# 206265 BBLW
1520 Powell St-Emeryville SLT2007076 MW-18

LLI Sample # WW 6907528
LLI Group # 1358863
Account # 11964

Project Name: 206265

Collected: 12/27/2012 10:20 by HT

Submitted: 12/28/2012 09:30
Reported: 01/10/2013 15:19

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved	**EPA 200.7 rev 4.4**		ug/l	ug/l	
01754	Iron	7439-89-6	194	33.3	1
07058	Manganese	7439-96-5	2,250	0.83	1

General Sample Comments

State of California Lab Certification No. 2501
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	123635716003	12/30/2012 21:08	Tara L Snyder	1
07058	Manganese	EPA 200.7 rev 4.4	1	123635716003	12/30/2012 21:08	Tara L Snyder	1
05716	EPA 600 ICP Digest (tot rec)	EPA 200.7 rev 4.4	1	123635716003	12/30/2012 07:36	James L Mertz	1

Sample Description: BD-WD-121227 Grab Groundwater
Facility# 206265 BBLW
1520 Powell St-Emeryville SLT2007076 BD

LLI Sample # WW 6907529
LLI Group # 1358863
Account # 11964

Project Name: 206265

Collected: 12/27/2012 11:10 by HT

Submitted: 12/28/2012 09:30
Reported: 01/10/2013 15:19

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

6265D

CAT No.	Analysis Name	CAS Number	As Received Result	As Received 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.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	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.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	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.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	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.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	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.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	24	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	3	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	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: BD-WD-121227 Grab Groundwater
Facility# 206265 BBLW
1520 Powell St-Emeryville SLT2007076 BD

LLI Sample # WW 6907529
LLI Group # 1358863
Account # 11964

Project Name: 206265

Collected: 12/27/2012 11:10 by HT

Submitted: 12/28/2012 09:30
Reported: 01/10/2013 15:19

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

6265D

CAT No.	Analysis Name	CAS Number	As Received Result	As Received 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.	1	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	11	0.8	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.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	34	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	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	4	1	1
10335	m+p-Xylene	n.a.	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	4.7	1.0	1
07105	Ethene	74-85-1	2.5	1.0	1
07105	Methane	74-82-8	1,000	30	10
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**ug/l**	**ug/l**	
02740	C11-C36	n.a.	N.D.	50	1
02740	Total TPH	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
00228	Sulfate	14808-79-8	37,800	1,500	5
	SM20 5310 C		**ug/l**	**ug/l**	
00273	Total Organic Carbon	n.a.	890	500	1
	SM20 2320 B		**ug/l as CaCO3**	**ug/l as CaCO3**	
12150	Total Alkalinity	n.a.	165,000	700	1

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Analysis Report

Sample Description: BD-WD-121227 Grab Groundwater
Facility# 206265 BBLW
1520 Powell St-Emeryville SLT2007076 BD

LLI Sample # WW 6907529
LLI Group # 1358863
Account # 11964

Project Name: 206265

Collected: 12/27/2012 11:10 by HT

Submitted: 12/28/2012 09:30
Reported: 01/10/2013 15:19

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

6265D

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Wet Chemistry	**SM20 2320 B**		**ug/l as CaCO3**	**ug/l as CaCO3**	
12149	Bicarbonate Alkalinity	n.a.	165,000	700	1
	SM20 4500 S2 D		**ug/l**	**ug/l**	
00230	Sulfide	18496-25-8	N.D.	54	1

General Sample Comments

State of California Lab Certification No. 2501

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	W130011AA	01/01/2013 20:54	Emily R Styer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W130011AA	01/01/2013 20:54	Emily R Styer	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12365A07A	01/03/2013 13:11	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12365A07A	01/03/2013 13:11	Marie D John	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	123660004A	12/31/2012 22:16	Kerrie A Freeburn	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	123660004A	01/03/2013 12:38	Kerrie A Freeburn	10
02740	Custom TPH with Ranges (Water)	SW-846 8015B modified	1	123630030A	01/05/2013 16:41	Heather E Williams	1
11181	Custom TPH w/ Ranges Water Ext	SW-846 3510C	1	123630030A	12/31/2012 11:00	Elizabeth A Sholder	1
00368	Nitrate Nitrogen	EPA 300.0	1	12363655601A	12/28/2012 17:31	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	12363655601A	12/28/2012 17:31	Christopher D Meeks	5
00273	Total Organic Carbon	SM20 5310 C	1	13003049502A	01/03/2013 05:21	James S Mathiot	1
12150	Total Alkalinity	SM20 2320 B	1	13002002101A	01/03/2013 00:19	Clayton C Litchmore	1
12149	Bicarbonate Alkalinity	SM20 2320 B	1	13002002101A	01/03/2013 00:19	Clayton C Litchmore	1
00230	Sulfide	SM20 4500 S2 D	1	12366023001A	12/31/2012 14:35	Susan E Hibner	1

Sample Description: BD-WD-121227 Filtered Grab Groundwater
Facility# 206265 BBLW
1520 Powell St-Emeryville SLT2007076 BD

LLI Sample # WW 6907530
LLI Group # 1358863
Account # 11964

Project Name: 206265

Collected: 12/27/2012 11:10 by HT

Submitted: 12/28/2012 09:30
Reported: 01/10/2013 15:19

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6001 Bollinger Canyon Road
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved	**EPA 200.7 rev 4.4**		ug/l	ug/l	
01754	Iron	7439-89-6	191	33.3	1
07058	Manganese	7439-96-5	2,180	0.83	1

General Sample Comments

State of California Lab Certification No. 2501
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	123635716003	12/30/2012 21:19	Tara L Snyder	1
07058	Manganese	EPA 200.7 rev 4.4	1	123635716003	12/30/2012 21:19	Tara L Snyder	1
05716	EPA 600 ICP Digest (tot rec)	EPA 200.7 rev 4.4	1	123635716003	12/30/2012 07:36	James L Mertz	1

Sample Description: MWX-3-W-121227 Grab Groundwater
Facility# 206265 BBLW
1520 Powell St-Emeryville SLT2007076 MWX-3

LLI Sample # WW 6907531
LLI Group # 1358863
Account # 11964

Project Name: 206265

Collected: 12/27/2012 11:34 by HT

Submitted: 12/28/2012 09:30
Reported: 01/10/2013 15:19

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

265X3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	15	6	1
10335	t-Amyl methyl ether	994-05-8	N.D.	0.5	1
10335	Benzene	71-43-2	0.6	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.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	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.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	3	1	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.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	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.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	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.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	4	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	2	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	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-121227 Grab Groundwater
Facility# 206265 BBLW
1520 Powell St-Emeryville SLT2007076 MWX-3

LLI Sample # WW 6907531
LLI Group # 1358863
Account # 11964

Project Name: 206265

Collected: 12/27/2012 11:34 by HT

Submitted: 12/28/2012 09:30
Reported: 01/10/2013 15:19

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

265X3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received 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.	1	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	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.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	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	2	1	1
10335	m+p-Xylene	n.a.	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	34	1.0	1
07105	Ethene	74-85-1	29	1.0	1
07105	Methane	74-82-8	13,000	600	200
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**ug/l**	**ug/l**	
02740	C11-C36	n.a.	N.D.	50	1
02740	Total TPH	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
00228	Sulfate	14808-79-8	N.D.	1,500	5
	SM20 5310 C		**ug/l**	**ug/l**	
00273	Total Organic Carbon	n.a.	55,200	500	1
	SM20 2320 B		**ug/l as CaCO3**	**ug/l as CaCO3**	
12150	Total Alkalinity	n.a.	938,000	700	1

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Analysis Report

Sample Description: MWX-3-W-121227 Grab Groundwater
Facility# 206265 BBLW
1520 Powell St-Emeryville SLT2007076 MWX-3

LLI Sample # WW 6907531
LLI Group # 1358863
Account # 11964

Project Name: 206265

Collected: 12/27/2012 11:34 by HT

Submitted: 12/28/2012 09:30
Reported: 01/10/2013 15:19

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

265X3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Wet Chemistry	**SM20 2320 B**		**ug/l as CaCO3**	**ug/l as CaCO3**	
12149	Bicarbonate Alkalinity	n.a.	938,000	700	1
	SM20 4500 S2 D		**ug/l**	**ug/l**	
00230	Sulfide	18496-25-8	N.D.	54	1

General Sample Comments

State of California Lab Certification No. 2501

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	W130011AA	01/01/2013 21:18	Emily R Styer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W130011AA	01/01/2013 21:18	Emily R Styer	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12365A07A	01/03/2013 13:36	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12365A07A	01/03/2013 13:36	Marie D John	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	123660004A	12/31/2012 22:34	Kerrie A Freeburn	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	123660004A	01/03/2013 12:57	Kerrie A Freeburn	200
02740	Custom TPH with Ranges (Water)	SW-846 8015B modified	1	123630030A	01/05/2013 17:05	Heather E Williams	1
11181	Custom TPH w/ Ranges Water Ext	SW-846 3510C	1	123630030A	12/31/2012 11:00	Elizabeth A Sholder	1
00368	Nitrate Nitrogen	EPA 300.0	1	12363655601A	12/28/2012 17:46	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	12363655601A	12/28/2012 17:46	Christopher D Meeks	5
00273	Total Organic Carbon	SM20 5310 C	1	13003049502A	01/03/2013 05:35	James S Mathiot	1
12150	Total Alkalinity	SM20 2320 B	1	13002002101A	01/03/2013 00:26	Clayton C Litchmore	1
12149	Bicarbonate Alkalinity	SM20 2320 B	1	13002002101A	01/03/2013 00:26	Clayton C Litchmore	1
00230	Sulfide	SM20 4500 S2 D	1	12366023001A	12/31/2012 14:35	Susan E Hibner	1

Sample Description: MWX-3-W-121227 Filtered Grab Groundwater
Facility# 206265 BBLW
1520 Powell St-Emeryville SLT2007076 MWX-3

LLI Sample # WW 6907532
LLI Group # 1358863
Account # 11964

Project Name: 206265

Collected: 12/27/2012 11:34 by HT

Submitted: 12/28/2012 09:30
Reported: 01/10/2013 15:19

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved	**EPA 200.7 rev 4.4**		ug/l	ug/l	
01754	Iron	7439-89-6	18,000	33.3	1
07058	Manganese	7439-96-5	9,510	0.83	1

General Sample Comments

State of California Lab Certification No. 2501
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	123635716003	12/30/2012 21:23	Tara L Snyder	1
07058	Manganese	EPA 200.7 rev 4.4	1	123635716003	12/30/2012 21:23	Tara L Snyder	1
05716	EPA 600 ICP Digest (tot rec)	EPA 200.7 rev 4.4	1	123635716003	12/30/2012 07:36	James L Mertz	1

Sample Description: MW-11A-W-121227 Grab Groundwater
Facility# 206265 BBLW
1520 Powell St-Emeryville SLT2007076 MW-11A

LLI Sample # WW 6907533
LLI Group # 1358863
Account # 11964

Project Name: 206265

Collected: 12/27/2012 12:40 by HT

Submitted: 12/28/2012 09:30
Reported: 01/10/2013 15:19

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

26511

CAT No.	Analysis Name	CAS Number	As Received Result	As Received 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.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	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.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	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.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	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.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	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.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	3	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	1	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	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-11A-W-121227 Grab Groundwater
Facility# 206265 BBLW
1520 Powell St-Emeryville SLT2007076 MW-11A

LLI Sample # WW 6907533
LLI Group # 1358863
Account # 11964

Project Name: 206265

Collected: 12/27/2012 12:40 by HT

Submitted: 12/28/2012 09:30
Reported: 01/10/2013 15:19

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

26511

CAT No.	Analysis Name	CAS Number	As Received Result	As Received 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.	1	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	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.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	8	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	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.	1	1
10335	m+p-Xylene	n.a.	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 modified**		**ug/l**	**ug/l**	
02740	C11-C36	n.a.	N.D.	50	1
02740	Total TPH	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	3,800	250	5
00228	Sulfate	14808-79-8	78,200	3,000	10
	SM20 5310 C		**ug/l**	**ug/l**	
00273	Total Organic Carbon	n.a.	12,100	500	1
	SM20 2320 B		**ug/l as CaCO3**	**ug/l as CaCO3**	
12150	Total Alkalinity	n.a.	350,000	700	1

Sample Description: MW-11A-W-121227 Grab Groundwater
Facility# 206265 BBLW
1520 Powell St-Emeryville SLT2007076 MW-11A

LLI Sample # WW 6907533
LLI Group # 1358863
Account # 11964

Project Name: 206265

Collected: 12/27/2012 12:40 by HT

Submitted: 12/28/2012 09:30
Reported: 01/10/2013 15:19

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

26511

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Wet Chemistry	**SM20 2320 B**		**ug/l as CaCO3**	**ug/l as CaCO3**	
12149	Bicarbonate Alkalinity	n.a.	350,000	700	1
	SM20 4500 S2 D		**ug/l**	**ug/l**	
00230	Sulfide	18496-25-8	N.D.	54	1

General Sample Comments

State of California Lab Certification No. 2501

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	W130011AA	01/01/2013 21:41	Emily R Styer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W130011AA	01/01/2013 21:41	Emily R Styer	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12365A07A	01/03/2013 14:02	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12365A07A	01/03/2013 14:02	Marie D John	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	123660004A	12/31/2012 22:53	Kerrie A Freeburn	1
02740	Custom TPH with Ranges (Water)	SW-846 8015B modified	1	123630030A	01/05/2013 17:29	Heather E Williams	1
11181	Custom TPH w/ Ranges Water Ext	SW-846 3510C	1	123630030A	12/31/2012 11:00	Elizabeth A Sholder	1
00368	Nitrate Nitrogen	EPA 300.0	1	12363655601A	12/28/2012 18:02	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	12363655601A	12/29/2012 18:07	Christopher D Meeks	10
00273	Total Organic Carbon	SM20 5310 C	1	13003049502A	01/03/2013 05:49	James S Mathiot	1
12150	Total Alkalinity	SM20 2320 B	1	13002002101A	01/03/2013 00:42	Clayton C Litchmore	1
12149	Bicarbonate Alkalinity	SM20 2320 B	1	13002002101A	01/03/2013 00:42	Clayton C Litchmore	1
00230	Sulfide	SM20 4500 S2 D	1	13003023001A	01/03/2013 08:35	Susan E Hibner	1

Sample Description: MW-11A-W-121227 Filtered Grab Groundwater
Facility# 206265 BBLW
1520 Powell St-Emeryville SLT2007076 MW-11A

LLI Sample # WW 6907534
LLI Group # 1358863
Account # 11964

Project Name: 206265

Collected: 12/27/2012 12:40 by HT

Submitted: 12/28/2012 09:30
Reported: 01/10/2013 15:19

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received 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	16.1	0.83	1

General Sample Comments

State of California Lab Certification No. 2501
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	123635716003	12/30/2012 21:27	Tara L Snyder	1
07058	Manganese	EPA 200.7 rev 4.4	1	123635716003	12/30/2012 21:27	Tara L Snyder	1
05716	EPA 600 ICP Digest (tot rec)	EPA 200.7 rev 4.4	1	123635716003	12/30/2012 07:36	James L Mertz	1

Sample Description: MW-10A-W-121227 Grab Groundwater
Facility# 206265 BBLW
1520 Powell St-Emeryville SLT2007076 MW-10A

LLI Sample # WW 6907535
LLI Group # 1358863
Account # 11964

Project Name: 206265

Collected: 12/27/2012 13:37 by HT

Submitted: 12/28/2012 09:30
Reported: 01/10/2013 15:19

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

26510

CAT No.	Analysis Name	CAS Number	As Received Result	As Received 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.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	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.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	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.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	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.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	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.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	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-10A-W-121227 Grab Groundwater
Facility# 206265 BBLW
1520 Powell St-Emeryville SLT2007076 MW-10A

LLI Sample # WW 6907535
LLI Group # 1358863
Account # 11964

Project Name: 206265

Collected: 12/27/2012 13:37 by HT

Submitted: 12/28/2012 09:30
Reported: 01/10/2013 15:19

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

26510

CAT No.	Analysis Name	CAS Number	As Received Result	As Received 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.	1	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	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.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	1	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	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.	1	1
10335	m+p-Xylene	n.a.	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 modified**		**ug/l**	**ug/l**	
02740	C11-C36	n.a.	N.D.	51	1
02740	Total TPH	n.a.	N.D.	51	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	4,300	250	5
00228	Sulfate	14808-79-8	112,000	3,000	10
	SM20 5310 C		**ug/l**	**ug/l**	
00273	Total Organic Carbon	n.a.	9,000	500	1
	SM20 2320 B		**ug/l as CaCO3**	**ug/l as CaCO3**	
12150	Total Alkalinity	n.a.	192,000	700	1

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Analysis Report

Sample Description: MW-10A-W-121227 Grab Groundwater
Facility# 206265 BBLW
1520 Powell St-Emeryville SLT2007076 MW-10A

LLI Sample # WW 6907535
LLI Group # 1358863
Account # 11964

Project Name: 206265

Collected: 12/27/2012 13:37 by HT

Submitted: 12/28/2012 09:30
Reported: 01/10/2013 15:19

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

26510

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Wet Chemistry	**SM20 2320 B**		**ug/l as CaCO3**	**ug/l as CaCO3**	
12149	Bicarbonate Alkalinity	n.a.	192,000	700	1
	SM20 4500 S2 D		**ug/l**	**ug/l**	
00230	Sulfide	18496-25-8	N.D.	54	1

General Sample Comments

State of California Lab Certification No. 2501

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	W130011AA	01/01/2013 22:05	Emily R Styer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W130011AA	01/01/2013 22:05	Emily R Styer	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12365A07A	01/03/2013 14:27	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12365A07A	01/03/2013 14:27	Marie D John	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	123660004A	12/31/2012 23:11	Kerrie A Freeburn	1
02740	Custom TPH with Ranges (Water)	SW-846 8015B modified	1	123630030A	01/05/2013 17:53	Heather E Williams	1
11181	Custom TPH w/ Ranges Water Ext	SW-846 3510C	1	123630030A	12/31/2012 11:00	Elizabeth A Sholder	1
00368	Nitrate Nitrogen	EPA 300.0	1	12363655601B	12/28/2012 18:17	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	12363655601B	12/31/2012 12:53	William L Hamaker Jr	10
00273	Total Organic Carbon	SM20 5310 C	1	13003049502A	01/03/2013 06:03	James S Mathiot	1
12150	Total Alkalinity	SM20 2320 B	1	13002002101A	01/03/2013 00:48	Clayton C Litchmore	1
12149	Bicarbonate Alkalinity	SM20 2320 B	1	13002002101A	01/03/2013 00:48	Clayton C Litchmore	1
00230	Sulfide	SM20 4500 S2 D	1	13003023001A	01/03/2013 08:35	Susan E Hibner	1

Sample Description: MW-10A-W-121227 Filtered Grab Groundwater
Facility# 206265 BBLW
1520 Powell St-Emeryville SLT2007076 MW-10A

LLI Sample # WW 6907536
LLI Group # 1358863
Account # 11964

Project Name: 206265

Collected: 12/27/2012 13:37 by HT

Submitted: 12/28/2012 09:30
Reported: 01/10/2013 15:19

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received 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	1.2	0.83	1

General Sample Comments

State of California Lab Certification No. 2501
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	123635716003	12/30/2012 21:31	Tara L Snyder	1
07058	Manganese	EPA 200.7 rev 4.4	1	123635716003	12/30/2012 21:31	Tara L Snyder	1
05716	EPA 600 ICP Digest (tot rec)	EPA 200.7 rev 4.4	1	123635716003	12/30/2012 07:36	James L Mertz	1

Sample Description: MW-X2-W-121227 Grab Groundwater
Facility# 206265 BBLW
1520 Powell St-Emeryville SLT2007076 MW-X2

LLI Sample # WW 6907537
LLI Group # 1358863
Account # 11964

Project Name: 206265

Collected: 12/27/2012 14:45 by HT

Submitted: 12/28/2012 09:30
Reported: 01/10/2013 15:19

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

265X2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received 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.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	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.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	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.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	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.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	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.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	100	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	3	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	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-X2-W-121227 Grab Groundwater
Facility# 206265 BBLW
1520 Powell St-Emeryville SLT2007076 MW-X2

LLI Sample # WW 6907537
LLI Group # 1358863
Account # 11964

Project Name: 206265

Collected: 12/27/2012 14:45 by HT

Submitted: 12/28/2012 09:30
Reported: 01/10/2013 15:19

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

265X2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received 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.	1	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	6	1	1
10335	Tetrachloroethene	127-18-4	420	8	10
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.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	34	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	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	4	1	1
10335	m+p-Xylene	n.a.	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.	300	50	1
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Ethane	74-84-0	2.1	1.0	1
07105	Ethene	74-85-1	N.D.	1.0	1
07105	Methane	74-82-8	83	3.0	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**ug/l**	**ug/l**	
02740	C11-C36	n.a.	N.D.	50	1
02740	Total TPH	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	410	250	5
00228	Sulfate	14808-79-8	12,700	1,500	5
	SM20 5310 C		**ug/l**	**ug/l**	
00273	Total Organic Carbon	n.a.	3,300	500	1
	SM20 2320 B		**ug/l as CaCO3**	**ug/l as CaCO3**	
12150	Total Alkalinity	n.a.	69,100	700	1

Sample Description: MW-X2-W-121227 Grab Groundwater
Facility# 206265 BBLW
1520 Powell St-Emeryville SLT2007076 MW-X2

LLI Sample # WW 6907537
LLI Group # 1358863
Account # 11964

Project Name: 206265

Collected: 12/27/2012 14:45 by HT

Submitted: 12/28/2012 09:30
Reported: 01/10/2013 15:19

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

265X2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Wet Chemistry	**SM20 2320 B**		**ug/l as CaCO3**	**ug/l as CaCO3**	
12149	Bicarbonate Alkalinity	n.a.	69,100	700	1
	SM20 4500 S2 D		**ug/l**	**ug/l**	
00230	Sulfide	18496-25-8	N.D.	54	1

General Sample Comments

State of California Lab Certification No. 2501

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	W130011AA	01/01/2013 22:29	Emily R Styer	1
10335	8260 Full List w/ Sep. Xylenes	SW-846 8260B	1	W130081AA	01/08/2013 07:41	Christopher G Torres	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W130011AA	01/01/2013 22:29	Emily R Styer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W130081AA	01/08/2013 07:41	Christopher G Torres	10
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12365A07A	01/03/2013 14:52	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12365A07A	01/03/2013 14:52	Marie D John	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	123660004A	12/31/2012 23:30	Kerrie A Freeburn	1
02740	Custom TPH with Ranges (Water)	SW-846 8015B modified	1	123630030A	01/05/2013 18:17	Heather E Williams	1
11181	Custom TPH w/ Ranges Water Ext	SW-846 3510C	1	123630030A	12/31/2012 11:00	Elizabeth A Sholder	1
00368	Nitrate Nitrogen	EPA 300.0	1	12363655601B	12/28/2012 19:33	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	12363655601B	12/28/2012 19:33	Christopher D Meeks	5
00273	Total Organic Carbon	SM20 5310 C	1	13003049502A	01/03/2013 06:17	James S Mathiot	1
12150	Total Alkalinity	SM20 2320 B	1	13002002101A	01/03/2013 00:53	Clayton C Litchmore	1
12149	Bicarbonate Alkalinity	SM20 2320 B	1	13002002101A	01/03/2013 00:53	Clayton C Litchmore	1
00230	Sulfide	SM20 4500 S2 D	1	13003023001A	01/03/2013 08:35	Susan E Hibner	1

Sample Description: MW-X2-W-121227 Filtered Grab Groundwater
Facility# 206265 BBLW
1520 Powell St-Emeryville SLT2007076 MW-X2

LLI Sample # WW 6907538
LLI Group # 1358863
Account # 11964

Project Name: 206265

Collected: 12/27/2012 14:45 by HT

Submitted: 12/28/2012 09:30
Reported: 01/10/2013 15:19

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received 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	79.7	0.83	1

General Sample Comments

State of California Lab Certification No. 2501
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	123635716003	12/30/2012 21:34	Tara L Snyder	1
07058	Manganese	EPA 200.7 rev 4.4	1	123635716003	12/30/2012 21:34	Tara L Snyder	1
05716	EPA 600 ICP Digest (tot rec)	EPA 200.7 rev 4.4	1	123635716003	12/30/2012 07:36	James L Mertz	1

Quality Control Summary

Client Name: Chevron Group Number: 1358863
Reported: 01/10/13 at 03:19 PM

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: W130011AA	Sample number(s): 6907522-6907523,6907525,6907527,6907529,6907531,6907533,6907535,6907537							
Acetone	N.D.	6.	ug/l	81	80	49-234	1	30
t-Amyl methyl ether	N.D.	0.5	ug/l	110	114	66-120	4	30
Benzene	N.D.	0.5	ug/l	98	103	77-121	5	30
Bromobenzene	N.D.	1.	ug/l	100	103	80-120	2	30
Bromochloromethane	N.D.	1.	ug/l	97	105	80-121	7	30
Bromodichloromethane	N.D.	1.	ug/l	108	116	73-120	8	30
Bromoform	N.D.	1.	ug/l	92	95	61-120	4	30
Bromomethane	N.D.	1.	ug/l	97	101	44-120	5	30
2-Butanone	N.D.	3.	ug/l	88	91	53-155	4	30
t-Butyl alcohol	N.D.	5.	ug/l	111	109	68-125	2	30
n-Butylbenzene	N.D.	1.	ug/l	101	106	73-130	5	30
sec-Butylbenzene	N.D.	1.	ug/l	103	106	74-124	3	30
tert-Butylbenzene	N.D.	1.	ug/l	99	104	80-120	5	30
Carbon Disulfide	N.D.	1.	ug/l	90	92	62-125	2	30
Carbon Tetrachloride	N.D.	1.	ug/l	100	102	67-122	2	30
Chlorobenzene	N.D.	0.8	ug/l	102	104	80-120	2	30
Chloroethane	N.D.	1.	ug/l	103	106	49-129	2	30
2-Chloroethyl Vinyl Ether	N.D.	2.	ug/l	89	96	29-151	7	30
Chloroform	N.D.	0.8	ug/l	103	108	77-122	5	30
Chloromethane	N.D.	1.	ug/l	78	79	60-129	0	30
2-Chlorotoluene	N.D.	1.	ug/l	104	107	80-120	3	30
4-Chlorotoluene	N.D.	1.	ug/l	105	108	80-120	3	30
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/l	108	112	56-126	4	30
Dibromochloromethane	N.D.	1.	ug/l	108	111	72-120	3	30
1,2-Dibromoethane	N.D.	0.5	ug/l	107	112	76-120	5	30
Dibromomethane	N.D.	1.	ug/l	105	110	80-120	4	30
1,2-Dichlorobenzene	N.D.	1.	ug/l	102	108	80-120	6	30
1,3-Dichlorobenzene	N.D.	1.	ug/l	101	105	80-120	5	30
1,4-Dichlorobenzene	N.D.	1.	ug/l	102	104	80-120	2	30
Dichlorodifluoromethane	N.D.	2.	ug/l	56	57	47-120	2	30
1,1-Dichloroethane	N.D.	1.	ug/l	102	104	79-120	2	30
1,2-Dichloroethane	N.D.	0.5	ug/l	113	118	64-130	4	30
1,1-Dichloroethene	N.D.	0.8	ug/l	97	98	76-124	1	30
cis-1,2-Dichloroethene	N.D.	0.8	ug/l	105	109	80-120	3	30
trans-1,2-Dichloroethene	N.D.	0.8	ug/l	98	103	80-120	6	30
1,2-Dichloropropane	N.D.	1.	ug/l	95	100	80-120	5	30
1,3-Dichloropropane	N.D.	1.	ug/l	103	109	80-120	5	30
2,2-Dichloropropane	N.D.	1.	ug/l	107	110	67-124	3	30
1,1-Dichloropropene	N.D.	1.	ug/l	97	100	80-120	3	30
cis-1,3-Dichloropropene	N.D.	1.	ug/l	109	115	78-120	5	30
trans-1,3-Dichloropropene	N.D.	1.	ug/l	106	113	73-120	6	30
Ethanol	N.D.	50.	ug/l	99	102	54-149	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: 1358863
Reported: 01/10/13 at 03:19 PM

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	107	111	66-120	4	30
Ethylbenzene	N.D.	0.5	ug/l	102	106	79-120	4	30
Freon 113	N.D.	2.	ug/l	96	99	69-128	3	30
Hexachlorobutadiene	N.D.	2.	ug/l	78	82	58-120	5	30
2-Hexanone	N.D.	3.	ug/l	92	97	53-139	5	30
di-Isopropyl ether	N.D.	0.5	ug/l	93	98	71-124	5	30
Isopropylbenzene	N.D.	1.	ug/l	104	107	77-120	3	30
p-Isopropyltoluene	N.D.	1.	ug/l	106	106	77-121	0	30
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	110	116	68-121	5	30
4-Methyl-2-pentanone	N.D.	3.	ug/l	92	95	58-133	3	30
Methylene Chloride	N.D.	2.	ug/l	99	102	84-118	2	30
Naphthalene	N.D.	1.	ug/l	107	113	47-126	6	30
n-Propylbenzene	N.D.	1.	ug/l	104	108	77-130	3	30
Styrene	N.D.	1.	ug/l	107	114	77-120	6	30
1,1,1,2-Tetrachloroethane	N.D.	1.	ug/l	106	108	79-120	1	30
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	110	116	75-123	5	30
Tetrachloroethene	N.D.	0.8	ug/l	94	96	79-120	2	30
Toluene	N.D.	0.5	ug/l	100	104	79-120	4	30
1,2,3-Trichlorobenzene	N.D.	1.	ug/l	92	98	71-120	6	30
1,2,4-Trichlorobenzene	N.D.	1.	ug/l	94	100	65-120	7	30
1,1,1-Trichloroethane	N.D.	0.8	ug/l	95	97	66-126	2	30
1,1,2-Trichloroethane	N.D.	0.8	ug/l	102	112	80-120	9	30
Trichloroethene	N.D.	1.	ug/l	101	107	80-120	5	30
Trichlorofluoromethane	N.D.	2.	ug/l	101	102	65-130	1	30
1,2,3-Trichloropropane	N.D.	1.	ug/l	108	111	76-120	3	30
1,2,4-Trimethylbenzene	N.D.	1.	ug/l	107	110	69-122	3	30
1,3,5-Trimethylbenzene	N.D.	1.	ug/l	106	108	68-124	2	30
Vinyl Chloride	N.D.	1.	ug/l	86	84	56-123	2	30
m+p-Xylene	N.D.	0.5	ug/l	102	106	77-120	4	30
o-Xylene	N.D.	0.5	ug/l	101	107	77-120	5	30
Batch number: W130081AA	Sample number(s): 6907537							
Tetrachloroethene	N.D.	0.8	ug/l	93	91	79-120	2	30
Batch number: 12365A07A	Sample number(s): 6907523,6907525,6907527,6907529,6907531,6907533,6907535,6907537							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	108	110	75-135	2	30
Batch number: 123660004A	Sample number(s): 6907523,6907525,6907527,6907529,6907531,6907533,6907535,6907537							
Ethane	N.D.	1.0	ug/l	102		80-120		
Ethene	N.D.	1.0	ug/l	100		75-130		
Methane	N.D.	3.0	ug/l	103		80-120		
Batch number: 123630030A	Sample number(s): 6907523,6907525,6907527,6907529,6907531,6907533,6907535,6907537							
C11-C36	N.D.	50.	ug/l					
Total TPH	N.D.	50.	ug/l	60	63	32-121	6	20
Batch number: 123635716003	Sample number(s): 6907524,6907526,6907528,6907530,6907532,6907534,6907536,6907538							
Iron	N.D.	33.3	ug/l	102		90-110		
Manganese	N.D.	0.83	ug/l	104		85-115		
Batch number: 12363655601A	Sample number(s): 6907523,6907525,6907527,6907529,6907531,6907533							
Nitrate Nitrogen	N.D.	50.	ug/l	99		90-110		

*- 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: 1358863
Reported: 01/10/13 at 03:19 PM

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Sulfate	N.D.	300.	ug/l	99		90-110		
Batch number: 12363655601B	Sample number(s): 6907535,6907537							
Nitrate Nitrogen	N.D.	50.	ug/l	99		90-110		
Sulfate	N.D.	300.	ug/l	99		90-110		
Batch number: 13003049502A	Sample number(s): 6907523,6907525,6907527,6907529,6907531,6907533,6907535,6907537							
Total Organic Carbon	N.D.	500.	ug/l	101		91-113		
Batch number: 12366023001A	Sample number(s): 6907523,6907525,6907527,6907529,6907531							
Sulfide	N.D.	54.	ug/l	99		90-110		
Batch number: 13002002101A	Sample number(s): 6907523,6907525,6907527,6907529,6907531,6907533,6907535,6907537							
Total Alkalinity	750	700.	ug/l as CaCO3	101		90-110		
Batch number: 13003023001A	Sample number(s): 6907533,6907535,6907537							
Sulfide	N.D.	54.	ug/l	101		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: 123660004A	Sample number(s): 6907523,6907525,6907527,6907529,6907531,6907533,6907535,6907537 UNSPK: P904931								
Ethane	103	102	32-129	0	20				
Ethene	111	107	35-162	4	20				
Methane	-357 (2)	-558 (2)	35-157	13	20				
Batch number: 123635716003	Sample number(s): 6907524,6907526,6907528,6907530,6907532,6907534,6907536,6907538 UNSPK: 6907526 BKG: 6907526								
Iron	101		70-130			N.D.	N.D.	0 (1)	20
Manganese	104		70-130			136	136	0	20
Batch number: 12363655601A	Sample number(s): 6907523,6907525,6907527,6907529,6907531,6907533 UNSPK: P906807 BKG: P906807								
Nitrate Nitrogen	97		90-110			N.D.	N.D.	0 (1)	20
Sulfate	98		90-110			3,200	2,900	9 (1)	20
Batch number: 12363655601B	Sample number(s): 6907535,6907537 UNSPK: 6907535 BKG: 6907535								
Nitrate Nitrogen	101		90-110			4,300	4,300	0	20
Sulfate	123*		90-110			112,000	111,000	1	20
Batch number: 13003049502A	Sample number(s): 6907523,6907525,6907527,6907529,6907531,6907533,6907535,6907537 UNSPK: P907592 BKG: P907592								

*- 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: 1358863
Reported: 01/10/13 at 03:19 PM

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
Total Organic Carbon	122		63-142			18,400	20,400	10*	4
Batch number: 12366023001A	Sample number(s): 6907523,6907525,6907527,6907529,6907531 UNSPK: P907344 BKG: P907344								
Sulfide	92	91	43-137	0	16	370	360	3 (1)	5
Batch number: 13002002101A	Sample number(s): 6907523,6907525,6907527,6907529,6907531,6907533,6907535,6907537 UNSPK: P907431 BKG: P907431								
Total Alkalinity	77		73-121			181,000	184,000	1	5
Batch number: 13003023001A	Sample number(s): 6907533,6907535,6907537 UNSPK: P908242 BKG: P908242								
Sulfide	92	83	43-137	7	16	230	230	4 (1)	5

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 Ext. Water Master w/GRO
Batch number: W130011AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6907522	100	99	98	98
6907523	101	98	97	98
6907525	102	99	98	99
6907527	103	98	97	99
6907529	102	100	96	98
6907531	104	101	96	99
6907533	103	102	97	99
6907535	104	102	96	97
6907537	103	100	94	96
Blank	102	97	95	100
LCS	101	99	99	104
LCSD	103	97	100	103
Limits:	80-116	77-113	80-113	78-113

Analysis Name: 8260 Ext. Water Master w/GRO
Batch number: W130081AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
Blank	107	101	94	98
LCS	110	103	96	103
LCSD	112	103	95	105
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12

*- 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: 1358863
Reported: 01/10/13 at 03:19 PM

Surrogate Quality Control

Batch number: 12365A07A

	Trifluorotoluene-F
6907523	82
6907525	85
6907527	86
6907529	83
6907531	85
6907533	78
6907535	81
6907537	83
Blank	83
LCS	95
LCSD	93
Limits:	63-135

Analysis Name: Custom TPH with Ranges (Water)
Batch number: 123630030A

	Chlorobenzene	Orthoterphenyl
6907523	65	74
6907525	59	69
6907527	67	77
6907529	57	72
6907531	66	70
6907533	62	72
6907535	61	73
6907537	64	69
Blank	66	76
LCS	91	72
LCSD	89	74
Limits:	28-152	52-131

Analysis Name: Volatile Headspace Hydrocarbon
Batch number: 123660004A

	Propene
6907523	65
6907525	87
6907527	83
6907529	90
6907531	72
6907533	80
6907535	92
6907537	95
Blank	103
LCS	101
MS	88
MSD	88
Limits:	42-131

*- 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: 1358863
Reported: 01/10/13 at 03:19 PM

*- 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

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Acct. # 11964 Group # 1358563 Sample # 6907522-38

For Lancaster Laboratories use only

Instructions on reverse side correspond with circled numbers.

SCR #:

1 Client Information

Facility # 206205 WBS

Site Address 1520 Powell Street, EMERYVILLE, CA

Chevron PM Brian Waite Lead Consultant ARCADIS

Consultant/Office Walnut Creek, CA

Consultant Project Mgr. Brian Westhoff

Consultant Phone # 916-865-3131

Sampler H. Tauscher, T. Rogers

4 Matrix

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

5 Analyses Requested

Preservation: ☐ Lab ☐ Field

Filtered: ☐ Yes ☐ No

Total Number of Containers

BTEX + MTBE 8021 ☐ 8260 ☐

TPH GRO 8015 ☐ 8260 ☒

TPH 8015 MOD DRO

Silica Gel Cleanup

8260 Full Scan

Sulfide SM4500S2-D Oxygenates

~~Total Lead~~ TOC Method SM5310C

Dissolved Lead Method

Methane, ethane, ethene (RSK 175)

1-2 Metals/ICP (FE+MN) * 200.7

Alkalinity Bicarbonate

Sulfate & Nitrate Nitrogen 300.0

☐ 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 | Collected Date | Time | **3** Grab | Composite

Sample Identification	Date	Time	Grab	Composite	Total Containers	BTEX+MTBE	TPH GRO	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 Full Scan	Sulfide	TOC	Dissolved Lead	Methane, ethane, ethene	1-2 Metals/ICP	Alkalinity Bicarbonate	Sulfate & Nitrate Nitrogen
TB20121227 12	12/27/12		X		2					X							
EB20121227 12	12/27/12	0840	X		17		X	X	X	X	X	X		X	X	X	X
MW-17	12/27/12	0923	X		17		X	X	X	X	X	X		X	X	X	X
MW-18	12/27/12	1020	X		17		X	X	X	X	X	X		X	X	X	X
BD20121227 12	12/27/12	1110	X		17		X	X	X	X	X	X		X	X	X	X
MWX-3	12/27/12	1134	X		17		X	X	X	X	X	X		X	X	X	X
MW-11A	12/27/12	1240	X		17		X	X	X	X	X	X		X	X	X	X
MW-10A	12/27/12	1337	X		17		X	X	X	X	X	X		X	X	X	X
MW-X2	12/27/12	1445	X		17		X	X	X	X	X	X		X	X	X	X

6 Remarks

* field filtered

7 Turnaround Time Requested (TAT) (please circle)

Standard | 5 day | 4 day | 72 hour | 48 hour | 24 hour

8 Data Package Options (please circle if required)

Type I - Full | Type VI (Raw Data)

	Relinquished by	Date	Time	Received by	Date	Time
1		12/27/12	1530		12/27/12	1530
2		12/27/12	1630			

Relinquished by Commercial Carrier: UPS ____ FedEx ✓ Other ____

Received by: Date 12/28/12 Time 0930

Temperature Upon Receipt 1.0-1.3 °C

Custody Seals Intact? Yes No

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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 - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

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 of gas 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.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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

ARCADIS

Attachment 3

Historical Groundwater Monitoring Data and Analytical Results

ATTACHMENT 3
HISTORICAL GROUNDWATER MONITORING DATA AND 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)	XYLENE (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)
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]	--
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	--
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	--
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	--
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	--
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	--

ATTACHMENT 3
HISTORICAL GROUNDWATER MONITORING DATA AND 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)	XYLENE (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)
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	--
06/26/2011	<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]	--
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[12]	<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
04/01/04[12]	<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
10/01/04[12]	<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
04/08/05[12]	<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
10/20/05[12]	<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
04/20/06[12]	<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
10/25/06[12]	<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
04/13/07[12]	<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

ATTACHMENT 3
HISTORICAL GROUNDWATER MONITORING DATA AND 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)	XYLENE (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)
MW-17 (cont)																		
10/19/07[12]	<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
04/11/08[12]	<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
10/17/08[12]	<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
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	--
Not Sampled - Inaccessible																		
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	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
10/05/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	<1.0	--	<1.0	<1.0	<1.0	<1.0	**13**	**11**	<1.0	<1.0	--[21]
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	INACCESSIBLE6		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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[12]	<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
04/01/04	INACCESSIBLE - VEHICLE PARKED OVER WELL				--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/01/04	INACCESSIBLE - VEHICLE PARKED OVER WELL				--	--	--	--	--	--	--	--	--	--	--	--	--	--

ATTACHMENT 3
HISTORICAL GROUNDWATER MONITORING DATA AND 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)	XYLENE (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)
MW-18 (cont)																		
04/08/05[12]	<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
10/20/05	INACCESSIBLE - VEHICLE PARKED OVER WELL				--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/20/06[12]	<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
10/25/06[12]	<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
04/13/07[12]	<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
10/19/07[12]	<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
04/11/08[12]	<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
10/17/08[12]	<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
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	--
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[2]	<0.5	<0.5	<0.5	<0.5	21	--	<10	--	<10	**110**	<10	<10	**150**	**1,500**	<10	<16	ND
04/22/97	43[2]	<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
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[2]	<0.5	<0.5	<0.5	<0.5	<2.0	--	<10	--	**13**	**80**	<10	<10	**230**	**500**	<10	<20	ND
10/27/98	170[2]	<0.5	<0.5	<0.5	<0.5	12/<2.0[7]	--	<25	--	<25	**70**	<25	<25	**80**	**910**	<25	<50	ND
11/04/99	290	<0.5	<0.5	<0.5	<0.5	26.8/<0.5[5,7]	--	<50	--	<50	<50	<50	<50	<50	**209**	<50	<50	ND
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[10]	<0.50	<0.50	<0.50	<0.50	26/<2.0[9]	--	**2.5**	--	**9.5**	**50**	**5.5**	**1**	**82**	**940**	<1.0	**5**	--[22]
04/23/01	100[10]	<0.50	<0.50	<0.50	<0.50	3.4/<2.0[11]	--	**1.6**	--	**9.9**	**100**	**5.2**	<1.0	**180**	**690**	<1.0	**1.6**	--[21]
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[12]	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]
04/01/04[12]	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
10/01/04[12]	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]
04/08/05[12]	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]
10/20/05[12]	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]
04/20/06[12]	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]
10/25/06[12]	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]
04/13/07[12]	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]
10/19/07[12]	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]
04/11/08[12]	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]
10/17/08[12]	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]
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**	--

ATTACHMENT 3
HISTORICAL GROUNDWATER MONITORING DATA AND 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)	XYLENE (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)
MW-19A (cont'd)																		
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**	--
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[2]	19	2.2	1.2	4.0	--	--	<50	--	<50	**1,500**	<50	<50	<50	<50	<50	**260**	<50
07/23/92	4,000[2]	50	82	40	160	--	--	<50	--	<50	**2,300**	<50	<50	<50	<50	<50	**170**	<50
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	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/13/94	PAVED OVER		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DECOMMISSIONED AND NOT MONITORED/SAMPLED WELLS																		
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

ATTACHMENT 3
HISTORICAL GROUNDWATER MONITORING DATA AND 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)	XYLENE (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)
MW-2 (cont)																		
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	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
01/05/94	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/13/94	INACCESSIBLE							--	--	--	--	--	--	--	--	--	--	--
10/24/94	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/19/95	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DECOMMISSIONED AND NOT MONITORED/SAMPLED WELLS																		
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[2]	<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	0.8	<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[2]	<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	170[2]	<0.5	<0.5	<0.5	9.6	44/<2.0[7]	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND
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
DECOMMISSIONED AND NOT MONITORED/SAMPLED WELLS																		
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
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DECOMMISSIONED AND NOT MONITORED/SAMPLED WELLS																		
MW-4																		
04/26/85	3,100	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09/11/87	--	<0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/07/88	<100	<5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/13/89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

ATTACHMENT 3
HISTORICAL GROUNDWATER MONITORING DATA AND 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)	XYLENE (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)
MW-4 (cont)																		
04/14/89	380[1]	<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	--
DECOMMISSIONED AND NOT MONITORED/SAMPLED WELLS																		
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[1]	<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	--
DECOMMISSIONED AND NOT MONITORED/SAMPLED WELLS																		
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[1]	<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	--
DECOMMISSIONED AND NOT MONITORED/SAMPLED WELLS																		
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[1]	<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]
07/31/89	100[1]	<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]
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	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
01/05/94	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

ATTACHMENT 3
HISTORICAL GROUNDWATER MONITORING DATA AND 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)	XYLENE (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)
MW-7 (cont'd)																		
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
04/13/00	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/05/00	UNABLE TO LOCATE - WELL BURIED DURING CONSTRUCTION						--	--	--	--	--	--	--	--	--	--	--	--
04/23/01	UNABLE TO LOCATE - WELL BURIED DURING CONSTRUCTION						--	--	--	--	--	--	--	--	--	--	--	--
10/04/01	UNABLE TO LOCATE - WELL BURIED DURING CONSTRUCTION						--	--	--	--	--	--	--	--	--	--	--	--
04/01/02	UNABLE TO LOCATE - WELL BURIED DURING CONSTRUCTION						--	--	--	--	--	--	--	--	--	--	--	--
10/19/02	UNABLE TO LOCATE - WELL BURIED DURING CONSTRUCTION						--	--	--	--	--	--	--	--	--	--	--	--
04/16/03	UNABLE TO LOCATE - WELL BURIED DURING CONSTRUCTION						--	--	--	--	--	--	--	--	--	--	--	--
10/29/03	UNABLE TO LOCATE - WELL BURIED DURING CONSTRUCTION						--	--	--	--	--	--	--	--	--	--	--	--
UNABLE TO LOCATE - WELL BURIED DURING 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	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/04/93	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
01/05/94	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	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/19/95[3]	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11/06/95	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/26/96	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/10/96	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
DECOMMISSIONED AND NOT MONITORED/SAMPLED WELLS																		

ATTACHMENT 3
HISTORICAL GROUNDWATER MONITORING DATA AND 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)	XYLENE (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)
MW-9																		
04/26/85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09/11/87	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/07/88	400	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/10/91	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DECOMMISSIONED AND NOT MONITORED/SAMPLED WELLS																		
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
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	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	INACCESSIBLE		--	--	--	--	--	--	--	--	**--**	**--**	--	--	--	--	--	--
10/10/96	<50	<0.5	<0.5	<0.5	0.6	34/<5.0[8]	--	**0.7**	--	**17**	**38**	**0.8**	<0.5	**14**	<0.5	<0.5	<0.8	ND
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	--[4]	--	<0.5	--	**6.5**	**16**	<0.5	<0.5	**7.6**	<0.5	<0.5	<1.0	ND
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
DECOMMISSIONED AND NOT MONITORED/SAMPLED WELLS																		
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	--

ATTACHMENT 3
HISTORICAL GROUNDWATER MONITORING DATA AND 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)	XYLENE (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)
MW-11 (cont'd)																		
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	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
01/05/94	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[2]	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]
11/06/95	INACCESSIBLE		--	--	--	--	--	--	--	**--**	**--**	--	--	--	--	--	--	--
04/26/96	INACCESSIBLE		--	--	--	--	--	--	--	**--**	**--**	--	--	--	--	--	--	--
10/10/96	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	--[4]	--	<0.5	--	**4.2**	**12**	<0.5	<0.5	**2.8**	<0.5	<0.5	<1.0	ND
10/27/98	<50	<0.5	<0.5	<0.5	<0.5	12/<2.0[7]	--	<0.5	--	**2.7**	**8.3**	<0.5	<0.5	**1.8**	<0.5	<0.5	<1.0	ND
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
DECOMMISSIONED AND NOT MONITORED/SAMPLED WELLS																		
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
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	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DECOMMISSIONED AND NOT MONITORED/SAMPLED WELLS																		
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[3]	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

ATTACHMENT 3
HISTORICAL GROUNDWATER MONITORING DATA AND 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)	XYLENE (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)
MW-13 (cont'd)																		
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	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
01/05/94	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[2]	<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
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	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
DECOMMISSIONED AND NOT MONITORED/SAMPLED WELLS																		
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
DECOMMISSIONED AND NOT MONITORED/SAMPLED WELLS																		
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	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
01/05/94	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
HISTORICAL GROUNDWATER MONITORING DATA AND 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)	XYLENE (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)
MW-15 (cont'd)																		
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
UNABLE TO LOCATE - CEMENTED OVER DURING CONSTRUCTION																		
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	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/13/94	PAVED OVER		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DECOMMISSIONED AND NOT MONITORED/SAMPLED WELLS																		
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[3]	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

ATTACHMENT 3
HISTORICAL GROUNDWATER MONITORING DATA AND 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)	XYLENE (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)
MW-19 (cont'd)																		
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[2]	<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
DECOMMISSIONED AND NOT MONITORED/SAMPLED WELLS																		
BAILER BLANK																		
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[18]
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	<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	<50	<0.5	<0.5	<0.5	<1.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5
01/05/94	<50	<0.5	<0.5	<0.5	<0.5	--	--	<0.8	--	<0.8	<0.8	<1	<0.8	<1	<0.8	<0.8	<1	--
05/13/94	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	--	--	--
5/20/10	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.8	--	<0.8	<0.8	<1	<0.8	<1	<0.8	<0.8	<1	--
10/28/10	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.8	--	<0.8	<0.8	<1	<0.8	<1	<0.8	**12**	<1	--
06/10/11	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.8	--	<0.8	<0.8	<1	<0.8	<1	<0.8	<0.8	<1	--
TRIP BLANK																		
04/14/89	<50	<0.5	<1.0	<1.0	<1.0	--	--	<1.0	<0.5	--	--	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	--
07/31/89	<50	<0.1	<0.5	<0.5	<0.2	--	--	<0.1	<0.5	--	--	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1	--
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	--
03/26/90	<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	--	--	--	--	--	--	--	--	--	--	--	--	--
TRIP BLANK (cont)																		
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	<0.6	--	--	<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[19]
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[20]
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	<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	<50	<0.5	<0.5	<0.5	<1.5	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5
01/05/94	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	--	--	--
05/13/94	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	--	--	--
10/24/94	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	--	--	--
04/19/95	<50	<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	--	--	--	--	--	--	--	--	--	--	--	--
10/10/96	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	--	--
04/22/97	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	--	--

ATTACHMENT 3
HISTORICAL GROUNDWATER MONITORING DATA AND 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)	XYLENE (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)
10/16/97	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	--	--
05/04/98	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	--	--	--	--	--	--	--	--
10/27/98	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	--	--	--	--	--	--	--	--
04/15/99	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	--	--
04/13/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--	--	--	--	--	--	--	--	--
10/05/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--	--	--	--	--	--	--	--	--
04/23/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--	--	--	--	--	--	--	--	--
10/04/01	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--	--	--	--	--	--	--	--	--	--	--
04/01/02	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--	--	--	--	--	--	--	--	--	--	--
04/30/09	<50	<0.5	<0.5	<0.5	**0.5**[13]	<0.5	**--**	--	--	--	--	--	--	--	--	--	--	--
6/24/09	**--**	**--**	**--**	**--**	**--**	**--**	**--**	<0.8	--	<0.8	<0.8	<1	<0.8	<1	<0.8	<0.8	<1	--
10/27/09	<50	<0.5	<0.5	<0.5	<0.5	<0.5	**--**	--	--	--	--	--	--	--	--	--	--	--
5/19/10	<50	<0.5	<0.5	<0.5	<0.5	<0.5	**--**	<0.8	**--**	<0.8	<0.8	<1	<0.8	<1	<0.8	<0.8	<1	**--**
5/20/10	<50	<0.5	<0.5	<0.5	<0.5	<0.5	**--**	<0.8	**--**	<0.8	<0.8	<1	<0.8	<1	<0.8	<0.8	<1	**--**
10/26/10	<50	<0.5	<0.5	<0.5	<0.5	<0.5	**--**	<0.8	**--**	<0.8	<0.8	<1	<0.8	<1	<0.8	<0.8	<1	**--**
10/27/10	<50	<0.5	<0.5	<0.5	<0.5	<0.5	**--**	<0.8	**--**	<0.8	<0.8	<1	<0.8	<1	<0.8	<0.8	<1	**--**
10/28/10	<50	<0.5	<0.5	<0.5	<0.5	<0.5	**--**	<0.8	**--**	<0.8	<0.8	<1	<0.8	<1	<0.8	<0.8	<1	**--**
06/08/11	<50	<0.5	<0.5	<0.5	<0.5	<0.5	**--**	<0.8	**--**	<0.8	<0.8	<1	<0.8	<1	<0.8	<0.8	<1	**--**
06/08/11	<50	<0.5	<0.5	<0.5	<0.5	<0.5	**--**	<0.8	**--**	<0.8	<0.8	<1	<0.8	<1	<0.8	<0.8	<1	**--**
06/09/11	<50	<0.5	<0.5	<0.5	<0.5	<0.5	**--**	<0.8	**--**	<0.8	<0.8	<1	<0.8	<1	<0.8	<0.8	<1	**--**
06/10/11	<50	<0.5	<0.5	<0.5	<0.5	<0.5	**--**	<0.8	**--**	<0.8	<0.8	<1	<0.8	<1	<0.8	<0.8	<1	**--**
QA																		
10/19/02	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--	--	--	--	--	--	--	--	--	--	--
04/16/03	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--	--	--	--	--	--	--	--	--	--	--
10/29/03[12]	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	--	--
04/01/04[12]	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	--	--
10/01/04[12]	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	--	--
04/08/05[12]	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	--	--
10/20/05[12]	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	--	--
04/20/06[12]	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	--	--
10/25/06[12]	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	--	--
04/13/07[12]	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	--	--
QA (cont)																		
10/19/07[12]	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	--	--
04/11/08[12]	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	--	--
10/17/08[12]	<50	<0.5	<0.5	<0.5	0.5[13]	<0.5	**--**	--	--	--	--	--	--	--	--	--	--	--

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

EXPLANATIONS:

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

TPH-G = Total Petroleum Hydrocarbons as Gasoline
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
MTBE = Methyl Tertiary Butyl Ether
TOG = Total Oil and Grease
QA = Quality Assurance/Trip Blank
(mg/L) = milligrams per liter
(µg/L) = micrograms per liter

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
TCE = Trichloroethene

PCE = Tetrachloroethene
CF = Chloroform
VC = Vinyl Chloride
HVOCs = Halogenated Volatile Organic Compounds
(ppb) = Parts per billion
-- = Not Measured/Not Analyzed
ND = Not Detected

1 TPH was reported as Diesel #2.
2 Chromatogram pattern indicates an unidentified hydrocarbon.
3 Monitoring well was destroyed during soil excavation in 1989.
4 Sample has chlorinated hydrocarbon pattern, needs GCMS confirmation of MTBE.
5 Sample was analyzed outside the EPA recommended holding time.
6 Unable to sample due to car parked over the well.
7 Confirmation run.
8 MTBE by EPA Method 8240.
9 MTBE by EPA Method 8260.
10 Laboratory report indicates discrete peaks.
11 MTBE by EPA Method 8260 was analyzed outside the EPA recommended holding time.
12 BTEX and MTBE by EPA Method 8260.
13 The value reported for xylene (total) is probably due to carryover from the previous sample. The analysis was repeated using a previously opened vial. This compound was not detected in the re-analysis. The reported results are from the initial analysis.
14 MW-17, MW-18, and MW-19A were resurveyed June 12, 2009 along with the wells that were installed in May 2009. The groundwater elevation calculations from April 30, 2009 and after were calculated using the May 2009 survey data.
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.
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.

Historical results reported below the detection limit and that did not have a reporting limit provided in the available documents are listed as ND.
<## - not detected at or above the indicated reporting limit

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

WELL ID/ DATE	Ethane (µg/L)	Ethene (µg/L)	Methane (µg/L)	Nitrate (µg/L)	Sulfate (µg/L)	TOC (µg/L)	Alkalinity (<4.5) (µg/L)	Alkalinity (<8.3) (µg/L)	Bicarbonate Alkalinity (µg/L)	Sulfide (µg/L)	Iron (µg/L)	Manganese (µg/L)
MWX-2												
6/24/2009	--	--	--	--	--	--	--	--	--	--	--	--
10/27/2009	--	--	--	--	--	--	--	--	--	--	--	--
5/19/2010	**22**	**1.9**	**830**	**1,000**	**18,000**	**4,800**	**152,000**	<460	**152,000**	<54	**475**	**2,150**
10/27/2010	<1.0	<1.0	<5.0	**1,000**	**28,900**	**19,700**	**69,300**	<460	**69,300**	<54	<52.2	**202**
6/9/2011	**8.9**	<1.0	**220**	**1,200**	**21,200**	**8,500**	**95,600**	<460	**95,600**	<54	<14.1	**151**
12/02/2011	**4.3**	<1.0	**96**	**1,700**	**22,600**	**7,100**	**106,000**	<460	**106,000**	<54	<14.1	**15.6**
Not Sampled - inaccessible												
MWX-3												
6/24/2009	--	--	--	--	--	--	--	--	--	--	--	--
10/27/2009	--	--	--	--	--	--	--	--	--	--	--	--
5/19/2010	<1.0	<1.0	**13**	**6,200**	**41,300**	**4,500**	**187,000**	<460	**187,000**	<54	<52.2	**37.3**
10/27/2010	<1.0	<1.0	**15**	**7,200**	**47,700**	**8,800**	**19,800**	<460	**198,000**	<54	<52.2	**46.9**
6/7/2011	<1.0	<1.0	**16**	**5,400**	**57,800**	**5,100**	**168,000**	<460	**168,000**	<54	<52.2	**52.2**
12/02/2011	**1.5**	<1.0	**29**	**5,600**	**64,300**	**5,900**	**178,000**	<460	**178,000**	<54	<14.1	**39.3**
06/27/2012	**19**	**66**	**2,600**	<250	**4,800**	**279,000**	**--**	--	**1,020,000**	<54	**35900**	**25300**
MWX-6												
6/24/2009	--	--	--	--	--	--	--	--	--	--	--	--
10/27/2009	--	--	--	--	--	--	--	--	--	--	--	--
5/20/2010	<1.0	<1.0	**270**	<250	**22,300**	**5,200**	**225,000**	<460	**225,000**	<54	<52.2	**1,360**
10/26/2010	<1.0	<1.0	**110**	<250	**23,900**	**4,900**	**244,000**	<460	**244,000**	<54	**195**	**1,590**
6/8/2011	<1.0	<1.0	**170**	<250	**31,800**	**5,800**	**209,000**	<460	**209,000**	<54	**92.4**	**1,330**
11/30/2011	<1.0	<1.0	**180**	<250	**22,700**	**5,100**	**231,000**	<460	**231,000**	<54	**201**	**1,570**
6/27/2012	<1.0	<1.0	**130**	<250	**28,000**	**4,800**	**--**	--	**236,000**	<54	**109**	**1,330**
MWX-8												
6/24/2009	--	--	--	--	--	--	--	--	--	--	--	--
10/27/2009	--	--	--	--	--	--	--	--	--	--	--	--
5/18/2010	<1.0	<1.0	**5.3**	**340**	**24,200**	**3,200**	**131,000**	<460	**131,000**	<54	<52.2	**17.3**
10/27/2010	**1.1**	<1.0	**22**	**390**	**26,700**	**6,300**	**115,000**	<460	**115,000**	<54	<52.2	**26.3**
6/8/2011	<1.0	<1.0	<5	**1300**	**27,900**	**4,500**	**123,000**	<460	**123,000**	<54	<52.2	**13.7**
12/2/2011	<1.0	<1.0	<5.0	**1,300**	**19,500**	**3,800**	**114,000**	<460	**114,000**	<54	<14.1	**24.0**
6/27/2012	**6.4**	**55**	**8,400**	**<250**	**3,700**	**255,000**	**--**	--	**850,000**	<54	**6050**	**13800**
MWX-9												
6/24/2009	--	--	--	--	--	--	--	--	--	--	--	--

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

WELL ID/ DATE	Ethane (µg/L)	Ethene (µg/L)	Methane (µg/L)	Nitrate (µg/L)	Sulfate (µg/L)	TOC (µg/L)	Alkalinity (<4.5) (µg/L)	Alkalinity (<8.3) (µg/L)	Bicarbonate Alkalinity (µg/L)	Sulfide (µg/L)	Iron (µg/L)	Manganese (µg/L)
10/27/2009	--	--	--	--	--	--	--	--	--	--	--	--
5/20/2010	<1.0	<1.0	**54**	<250	**26,500**	**4,700**	**246,000**	<460	**246,000**	<54	<52.2	**522**
10/26/2010	<1.0	<1.0	**39**	<250	**25,000**	**4,700**	**271,000**	<460	**271,000**	<54	<52.2	**413**
6/9/2011	<1.0	<1.0	**14**	**630**	**27,200**	**4,500**	**207,000**	<460	**207,000**	<54	<14.1	**262**
11/30/2011	<1.0	<1.0	**31**	<250	**23,000**	**4,800**	**253,000**	<460	**253,000**	<54	<14.1	**482**
06/27/2012	<1.0	<1.0	**51**	<250	**25,500**	**4,600**	**--**	--	**233,000**	<54	<33.3	**371**
MWX-10A												
6/24/2009	--	--	--	--	--	--	--	--	--	--	--	--
10/27/2009	--	--	--	--	--	--	--	--	--	--	--	--
5/20/2010	<1.0	<1.0	**140**	<250	**68,500**	**8,100**	**244,000**	<460	**244,000**	<54	<52.2	**751**
10/28/2010	<1.0	<1.0	**97**	<250	**101,000**	**11,300**	**201,000**	<460	**201,000**	<54	<52.2	**217**
6/10/2011	<1.0	<1.0	**97**	570	**80,700**	**8,400**	**269,000**	<460	**269,000**	<54	<14.1	**538**
12/01/2011	<1.0	<1.0	**170**	<250	**60,100**	**7,700**	**272,000**	<460	**272,000**	<54	84.2	**927**
06/26/2012	<1.0	<1.0	**26**	<250	**72,100**	**8,100**			**259,000**	<54	<33.3	**289**
MWX-11A												
6/24/2009	--	--	--	--	--	--	--	--	--	--	--	--
10/27/2009	--	--	--	--	--	--	--	--	--	--	--	--
5/20/2010	<1.0	<1.0	**17**	<250	**73,300**	**8,200**	**411,000**	<460	**411,000**	<54	<52.2	**86.5**
10/28/2010	<1.0	<1.0	**6.9**	<250	**83,300**	**13,200**	**377,000**	<460	**377,000**	<54	<52.2	**10.9**
6/10/2011	<1.0	<1.0	**5.5**	**1,100**	**102,000**	**12,700**	**339,000**	<460	**339,000**	<54	<14.1	**164**
11/30/2011	<1.0	<1.0	**8.1**	**<250**	**87,500**	**10,400**	**410,000**	<460	**410,000**	<54	<14.1	**13.7**
06/26/2012	<1.0 [<1.0]	<1.0 [<1.0]	**<5 [<5]**	**560 [540]**	**73,300 [70,200]**	**14,000 [13,900]**	**--**	--	**394,000 [396,000]**	<54 [<54]	<33.3 [<33.3]	**2.6 [<5.0]**
MW-17												
4/30/2009	--	--	--	--	--	--	--	--	--	--	--	--
6/24/2009	--	--	--	--	--	--	--	--	--	--	--	--
10/27/2009	--	--	--	--	--	--	--	--	--	--	--	--
5/19/2010	<1.0	<1.0	<5.0	**1,900**	**48,000**	**1,800**	**118,000**	<460	**118,000**	<54	<52.2	**77.7**
10/28/2010	<1.0	<1.0	<5.0	**2,100**	**48,900**	**1,900**	**111,000**	<460	**111,000**	<54	<52.2	**154**
6/9/2011	<1.0	<1.0	<5.0	**2,700**	**51,100**	**1,800**	**112,000**	<460	**112,000**	<54	<14.1	**63.7**
12/01/2011	<1.0	<1.0	<5.0	**2,100**	**50,000**	**2,000**	**113,000**	<460	**113,000**	<54	<14.1	**91.1**
Not Sampled - inaccessible												
MW-18												
4/30/2009	--	--	--	--	--	--	--	--	--	--	--	--
6/24/2009	--	--	--	--	--	--	--	--	--	--	--	--

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

WELL ID/ DATE	Ethane (µg/L)	Ethene (µg/L)	Methane (µg/L)	Nitrate (µg/L)	Sulfate (µg/L)	TOC (µg/L)	Alkalinity (<4.5) (µg/L)	Alkalinity (<8.3) (µg/L)	Bicarbonate Alkalinity (µg/L)	Sulfide (µg/L)	Iron (µg/L)	Manganese (µg/L)
10/27/2009	--	--	--	--	--	--	--	--	--	--	--	--
5/18/2010	<1.0	<1.0	<5.0	**2,700**	**35,200**	**1,600**	**145,000**	<460	**145,000**	<54	<52.2	**16.0**
10/27/2010	<1.0	<1.0	<5.0	**2,200**	**38,400**	**1,900**	**142,000**	<460	**142,000**	<54	<52.2	**41.5**
6/7/2011	<1.0	<1.0	<5.0	**3,900**	**46,100**	**1,700**	**148,000**	<460	**148,000**	<54	<52.2	**6.2**
12/02/2011	<1.0	<1.0	<5.0	**2,600**	**38,500**	**1,500**	**155,000**	<460	**155,000**	<54	<14.1	**26.7**
06/27/2012	<1.0	<1.0	**150**	**3,300**	**40,900**	**1,100**	**--**	--	**164,000**	<54	<33.3	**326**
MW-19A												
4/30/2009	--	--	--	--	--	--	--	--	--	--	--	--
6/24/2009	--	--	--	--	--	--	--	--	--	--	--	--
10/27/2009	--	--	--	--	--	--	--	--	--	--	--	--
5/19/2010	<1.0	<1.0	**5.6**	**710**	**23,300**	**3,500**	**137,000**	<460	**137,000**	<54	<52.2	**5.7**
10/27/2010	<1.0	<1.0	**6.1**	**1,400**	**19,600**	**11,000**	**122,000**	<460	**122,000**	<54	<52.2	**13.9**
6/8/2011	<1.0	<1.0	<5.0	**1,600**	**19,500**	**6,300**	**105,000**	<460	**105,000**	<54	<52.2	**11.7**
12/1/2011	<1.0	<1.0	**6.2**	**1,600**	**20,600**	**4,600**	**121,000**	<460	**121,000**	<54	<14.1	**18.3**
06/27/2012	**7.5**	**1.4**	**15,000**	<250	**1,700**	**470,000**	**--**	--	**1,040,000**	<54	**11600**	**7010**

NOTES:
TOC=total organic carbon -- = not tested Alkalinity (<4.5)=alkalinity to pH 4.5 Alkalinity (<8.3)=alkalinity to pH 8.3
(µg/L) = micrograms per liter

1. Methane, ethane, and ehtene were analyzed by method RSK 175
2. Iron and manganese were analyzed by EPA Method 200.7
3. Metals sample was field filtered
4. Sulfate and nitrate nitrogem were analyzed by EPA Method 300.0
5. Sulfide was analyzed by SM4500S2-D
6. Bicarbonate and alkalinity were analyzed by EM2320B
7. Total organic carbon was analyzed by SM5310 C
8. MW-17 sample was duplicated and the higher reported concentration listed