



Ted Moise
Project Manager
Marketing Business Unit

**Chevron Environmental
Management Company**
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April 18, 2017

Ms. Kit Soo
Alameda County Environmental Health (ACEH)
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

RECEIVED

By Alameda County Environmental Health 2:03 pm, Apr 26, 2017

Re: Former Signal Oil Marine Storage and Distribution Facility
Former Chevron Bulk Plant 206127
2301-2311 Blanding Avenue
Alameda, California
LOP Case RO0002466

Dear Ms. Soo:

The purpose of this letter is to verify that as a representative for Chevron Environmental Management Company (Chevron), I reviewed, and concur with, the comments in the *First Semi-Annual 2017 Groundwater Monitoring and Sampling Report* for the referenced facility, prepared on behalf of Chevron by GHD. I declare under penalty of perjury that the foregoing is true and correct.

Please feel free to contact me at (925) 790-3398 if you have any questions.

Sincerely,

A handwritten signature in blue ink that reads "Ted Moise".

Ted Moise
Project Manager



April 18, 2017

Reference No. 631916

Ms. Kit Soo
Alameda County Environmental Health (ACEH)
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502 6577

**Re: First Semi-Annual 2017
Groundwater Monitoring and Sampling Report
Former Signal Oil Marine Storage and Distribution Facility
(Chevron Bulk Plant 206127)
2301-2311 Blanding Avenue
Alameda, California
ACEH Case RO0002466**

Dear Ms. Soo:

GHD is submitting this *First Semi-Annual 2017 Groundwater Monitoring and Sampling Report* for the site referenced above (Figure 1) on behalf of Chevron Environmental Management Company. Groundwater monitoring and sampling was performed by Gettler-Ryan Inc. (G-R) of Dublin, California. G-R's *Groundwater Monitoring and Sampling Data Package* is included as Attachment A. Current groundwater monitoring and sampling data are presented in Table 1 and shown on Figure 2. Well construction specifications are summarized in Table 2. Eurofins Lancaster Laboratory Environmental LLCs' *Analytical Results* report is included as Attachment B. Historical groundwater monitoring and sampling data are included as Attachment C.

1. Results of First Semi-Annual 2017 Event

On January 26, 2017, G-R monitored and sampled site wells per the established schedule. Results of the current monitoring event indicate the following:

- Groundwater Flow Direction Northeast
- Hydraulic Gradient 0.01
- Approximate Depth to Water 3 to 9 feet below grade

Results of the current sampling event are presented below in Table A.



Table A: Groundwater Analytical Data

Well ID	TPHd ¹ (µg/L)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
ESLs	100	100	1	40	30	20
MW-1RA	1,900 / 74	140	<1	<1	<1	<1
MW-1RB	3,400 / 38 J	<1,000	39	<1	<1	<1
MW-2	<100 / <50	<100	<1	<1	<1	<1
MW-3	2,400 / <49	54 J	<1	<1	<1	<1
MW-4	340 / <48	<100	<1	<1	<1	<1
MW-5	2,400 / 630	3,800	82	9	<5	9
MW-6	1,100 / 32 J	460	1	<1	<1	<1
ESL	Environmental Screening Level					
J	Estimated value					
¹	TPHd without and with 10-gram silica gel cleanup					
Bold	Concentrations equal to or exceed their respective ESL					

2. Conclusions and Recommendations

Results of this current semi-annual monitoring and sampling are consistent with results from past monitoring events and indicate the following:

- The highest total petroleum hydrocarbons as diesel (TPHd), TPH as gasoline (TPHg), and benzene concentrations in groundwater are in the area of the former fuel pumps, and north of the former aboveground storage tanks (Figure 2).
- Analysis of TPHd using a 10-gram silica gel column cleanup (SGC) resulted in a significant reduction in dissolved TPHd concentrations as compared to samples analyzed without SGC. Only the sample from MW-5 was above the TPHd ESL using SGC. This suggests that samples not analyzed using SGC contain polar non-hydrocarbons and/or non-dissolved petroleum components.



- Hydrocarbons are generally stable in site wells where concentrations are detected above groundwater ESLs.

GHD recommends continuing monitoring and sampling to verify concentration trends over time.

3. Anticipated Future Activities

Groundwater Monitoring

G-R will monitor and sample site wells per the established semi-annual schedule. GHD will submit a groundwater monitoring and sampling report.

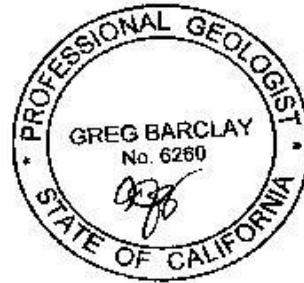
Please contact Brian Silva at (916) 889-8908 if you have any questions or require additional information.

Sincerely,

GHD

Brian Silva

Greg Barclay, PG 6260



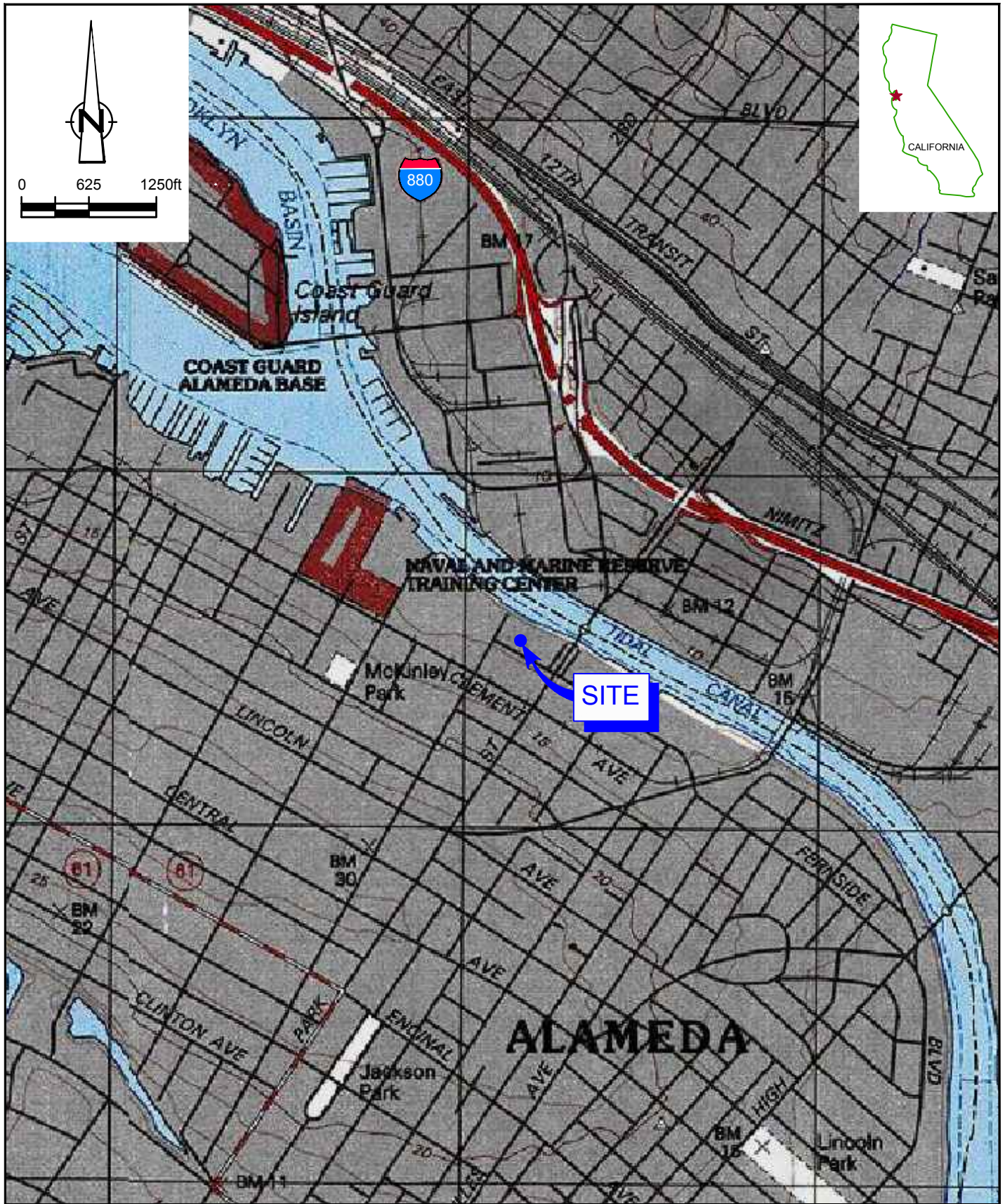
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Encl.

Figure 1	Vicinity Map
Figure 2	Groundwater Elevation Contour and Hydrocarbon Concentration Map
Table 1	Groundwater Monitoring and Sampling Data
Table 2	Well Construction Specifications
Attachment A	Groundwater Monitoring and Sampling Data Package
Attachment B	Laboratory Analytical Report
Attachment C	Historical Groundwater Monitoring and Sampling Data

cc: Mr. Ted Moise, Chevron EMC (*electronic only*)
Ms. Julie Beck Ball
Mr. Peter Reinhold Beck
Mr. Monroe Wingate
Ms. Amanda Monroe

Figures



SOURCE: TOPO MAPS

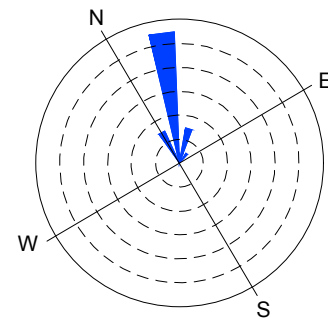
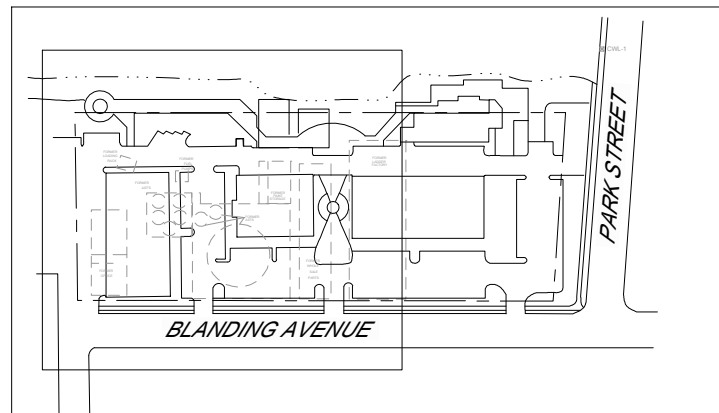


FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY
 (CHEVRON FACILITY 206127)
 2301-2311 BLANDING AVENUE, ALAMEDA, CALIFORNIA

613916-95
 Mar 31, 2017

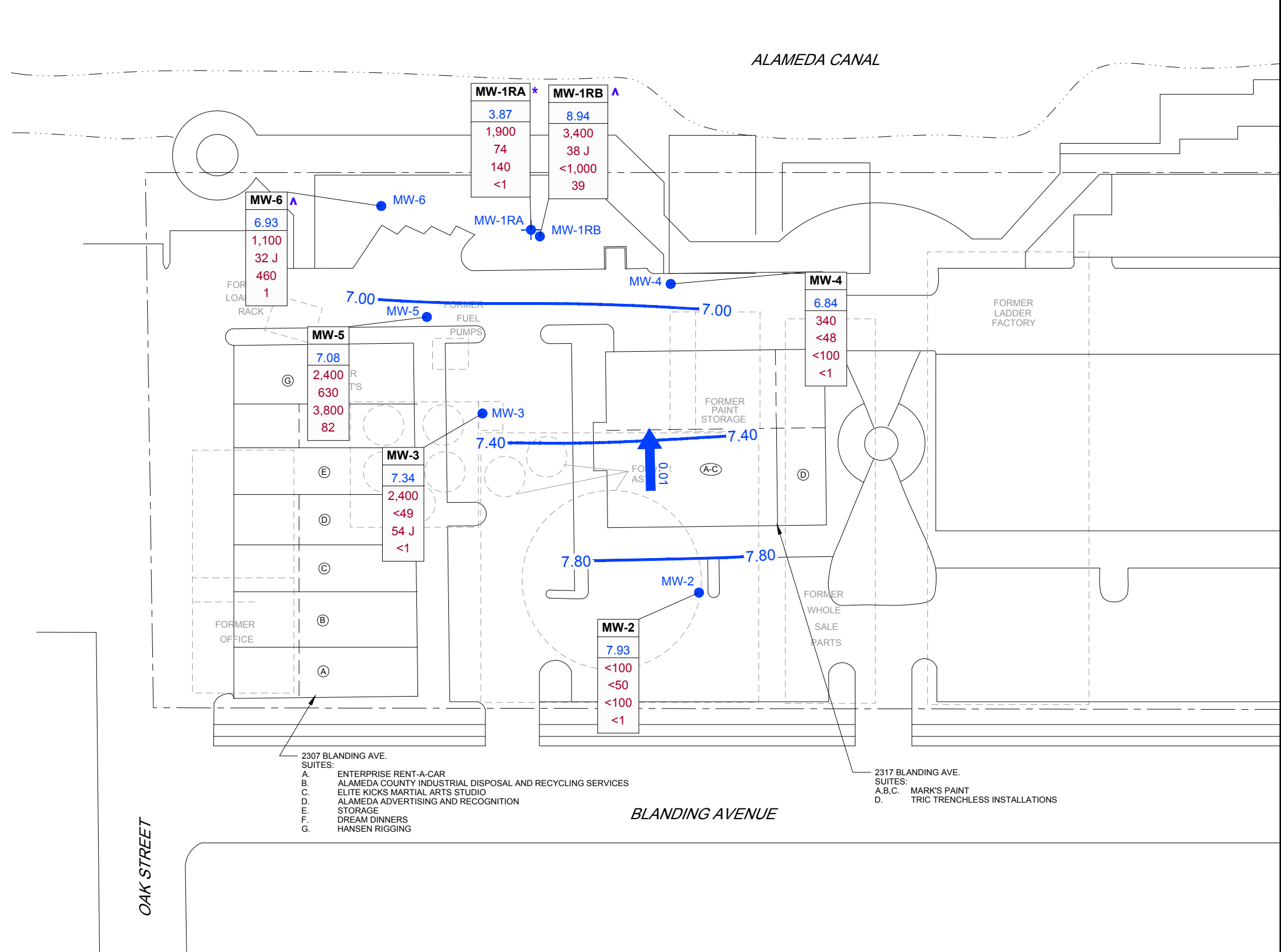
VICINITY MAP

FIGURE 1



LEGEND

- MONITORING WELL LOCATION
 - SHALLOW ZONE MONITORING WELL LOCATION
 - SITE FEATURES NOTED ON SANBORN FIRE INSURANCE MAP, DATED 1932
 - GROUNDWATER ELEVATION CONTOUR, IN FEET ABOVE MEAN SEA LEVEL (FT MSL), DASHED WHERE INFERRED
 - ← GROUNDWATER FLOW DIRECTION AND GRADIENT
- | | |
|-------------|---|
| MW-3 | WELL DESIGNATION |
| 7.34 | GROUNDWATER ELEVATION (FT MSL) |
| 2,400 | TPHD CONCENTRATION (µg/L) |
| <49 | TPHD with SILICA GEL CLEANUP CONCENTRATION (µg/L) |
| 54 J | TPHG CONCENTRATION (µg/L) |
| <1 | BENZENE CONCENTRATION (µg/L) |
- * WELL CONSTRUCTED IN SHALLOW SAND ZONE; NOT USED IN CONTOURING
 - ^ DATA ANOMALOUS; NOT USED IN CONTOURING
 - J ESTIMATED VALUE BETWEEN METHOD DETECTION LIMIT AND LABORATORY REPORTING LIMIT



NOTE:
 WELL LOCATIONS ARE BASED ON MAP PROVIDED BY MORROW SURVEYING (DWG NO.0857-149 ct, DATED 7-30-09).
 ALL OTHER LOCATIONS ARE APPROXIMATE.



FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY
 (CHEVRON FACILITY 206127)
 2301-2311 BLANDING AVENUE, ALAMEDA, CALIFORNIA
GROUNDWATER ELEVATION CONTOUR AND HYDROCARBON CONCENTRATION MAP - JANUARY 26, 2017

631916-95
 Apr 12, 2017

FIGURE 2

Tables

Table 1

Groundwater Monitoring and Sampling Data
Former Signal Oil Marine Storage and Distribution Facility
Chevron Bulk Plant 206127
2301-2311 Blanding Avenue
Alameda, California

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCS				MTBE by SW8260	
					TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X		
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-1	07/21/2010	13.49	9.47	4.02	440	-	65 J	<0.5	<0.5	<0.5	<0.5	<0.5	
MW-1	10/22/2010 ¹	13.49	-	-	-	-	-	-	-	-	-	-	
MW-1RA	10/28/2010	13.02	9.23	3.79	-	4,000	6,400	830	22	65	20	-	
MW-1RA	01/14/2011	13.02	7.20	5.82	-	1,500	790	160	2	1	1	-	
MW-1RA	04/19/2011	13.02	7.42	5.60	-	3,000	3,800	600	9	18	9	-	
MW-1RA	06/30/2011	13.02	7.51	5.51	-	3,700	6,800	780	13	36	13	-	
MW-1RA	10/14/2011	13.02	7.96	5.06	6,900	360	6,800	1,300	19	51	14	-	
MW-1RA	01/18/2012	13.02	7.34	5.68	4,300	1,400	6,400	1,300	17	38	12	-	
MW-1RA	04/19/2012	13.02	5.23	7.79	3,700	400	3,100	120	<5	<5	<5	-	
MW-1RA	07/23/2012	13.02	7.92	5.10	6,000	1,000	-	-	-	-	-	-	
MW-1RA	07/27/2012 ⁴	13.02	8.50	4.52	-	-	4,800	640	9	20	7	-	
MW-1RA	01/19/2013	13.02	7.30	5.72	3,000	270	1,500	180	<5	<5	<5	-	
MW-1RA	07/15/2013	13.02	8.09	4.93	4,200	630	3,700	430	8	5	2	-	
MW-1RA	01/09/2014	13.02	7.05	5.97	3,300	150	910	130	2	3	4	-	
MW-1RA	07/25/2014	13.02	8.04	4.98	2,500	390	1,100	17	<0.5	<0.5	<0.5	-	
MW-1RA	01/29/2015	13.02	7.28	5.74	1,700	87 J	170	0.5 J	<0.5	<0.5	<0.5	-	
MW-1RA	07/03/2015	13.02	8.76	4.26	1,500	79 J	260	<0.5	<0.5	<0.5	<0.5	-	
MW-1RA	01/28/2016	13.02	8.67	4.35	1,500	66 J	210	<0.5	<0.5	<0.5	<0.5	-	
MW-1RA	07/05/2016	13.02	4.25	8.77	2,300	38 J	240	<1	<1	<1	<1	-	
MW-1RA	01/26/2017	13.02	9.15	3.87	1,900	74	140	<1	<1	<1	<1	-	
MW-1RB	10/28/2010	13.21	9.00	4.21	-	1,600	650	3	<0.5	0.8	<0.5	-	

Table 1

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Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCS				MTBE by SW8260	
					TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X		
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-1RB	01/14/2011	13.21	10.97	2.24	-	960	150	1	<0.5	<0.5	<0.5	-	
MW-1RB	04/19/2011	13.21	12.11	1.10	-	1,200	190	6	<0.5	<0.5	<0.5	-	
MW-1RB	06/30/2011	13.21	11.86	1.35	-	1,900	310	9	<0.5	<0.5	<0.5	-	
MW-1RB	10/14/2011	13.21	12.14	1.07	4,000	57	300	15	<0.5	<0.5	<0.5	-	
MW-1RB	01/18/2012	13.21	14.71	-1.50	2,400	260	340	11	<0.5	<0.5	<0.5	-	
MW-1RB	04/19/2012	13.21	8.33	4.88	2,800	53	180	1	<0.5	<0.5	<0.5	-	
MW-1RB	07/23/2012	13.21	8.96	4.25	2,700	<50	-	-	-	-	-	-	
MW-1RB	07/27/2012 ⁴	13.21	8.45	4.76	-	-	990	89	1	0.8	0.7	-	
MW-1RB	01/19/2013	13.21	8.65	4.56	2,000	62	200	2	<0.5	<0.5	<0.5	-	
MW-1RB	07/15/2013	13.21	8.18	5.03	2,000	<50	230	<0.5	<0.5	<0.5	<0.5	-	
MW-1RB	01/09/2014	13.21	7.78	5.43	1,400	<50	150	<0.5	<0.5	<0.5	<0.5	-	
MW-1RB	07/25/2014	13.21	9.96	3.25	2,300	57	270	1	<0.5	<0.5	<0.5	-	
MW-1RB	01/29/2015	13.21	6.87	6.34	5,100	95 J	960	30	<0.5	0.5 J	<0.5	-	
MW-1RB	07/03/2015	13.21	8.57	4.64	3,100	210	1,300	2	<0.5	<0.5	<0.5	-	
MW-1RB	01/28/2016	13.21	5.78	7.43	2,700	41 J	<500	69	<0.5	0.7 J	<0.5	-	
MW-1RB	07/05/2016	13.21	8.69	4.52	1,800	140	950	<50	<50	<50	<50	-	
MW-1RB	01/26/2017	13.21	4.27	8.94	3,400	38 J	<1,000	39	<1	<1	<1	-	
MW-2	07/21/2010	10.63	4.12	6.51	65 J	-	<50	<0.5	<0.5	<0.5	<0.5	-	
MW-2	10/22/2010	10.63	4.31	6.32	-	58	<50	<0.5	<0.5	<0.5	<0.5	-	
MW-2	10/28/2010 ²	10.63	3.65	6.98	-	-	-	-	-	-	-	-	
MW-2	01/14/2011	10.63	3.12	7.51	-	68	<50	<0.5	<0.5	<0.5	<0.5	-	
MW-2	04/19/2011	10.63	3.51	7.12	-	<50	<50	<0.5	<0.5	<0.5	<0.5	-	

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					TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X		
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-2	06/30/2011	10.63	3.74	6.89	-	120	<50	<0.5	<0.5	<0.5	<0.5	-	
MW-2	10/14/2011	10.63	3.52	7.11	160	<50	<50	<0.5	<0.5	<0.5	<0.5	-	
MW-2	01/18/2012	10.63	3.85	6.78	140	<50	<50	<0.5	<0.5	<0.5	<0.5	-	
MW-2	04/19/2012	10.63	3.16	7.47	<50	<50	<50	<0.5	<0.5	<0.5	<0.5	-	
MW-2	07/23/2012 ³	10.63	-	-	-	-	-	-	-	-	-	-	
MW-2	07/27/2012	10.63	3.40	7.23	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	
MW-2	01/19/2013	10.63	3.45	7.18	<50	<50	<50	<0.5	<0.5	<0.5	<0.5	-	
MW-2	07/15/2013	10.63	3.75	6.88	150	<50	<50	<0.5	<0.5	<0.5	<0.5	-	
MW-2	01/09/2014 ³	10.63	-	-	-	-	-	-	-	-	-	-	
MW-2	07/25/2014	10.63	3.96	6.67	<50	<50	<50	<0.5	<0.5	<0.5	<0.5	-	
MW-2	01/29/2015	10.63	3.51	7.12	<50	<50	<50	<0.5	<0.5	<0.5	<0.5	-	
MW-2	07/03/2015	10.63	4.05	6.58	<50	<31	<50	<0.5	<0.5	<0.5	<0.5	-	
MW-2	01/28/2016	10.63	3.31	7.32	<50	<32	<50	<0.5	<0.5	<0.5	<0.5	-	
MW-2	07/05/2016	10.63	4.00	6.63	<95	<95	<100	<1	<1	<1	<1	-	
MW-2	01/26/2017	10.63	2.70	7.93	<100	<50	<100	<1	<1	<1	<1	-	
MW-3	07/21/2010	10.72	5.09	5.63	640	-	65 J	0.6 J	<0.5	<0.5	<0.5	-	
MW-3	10/22/2010	10.72	5.32	5.40	-	570	73	<0.5	<0.5	<0.5	<0.5	-	
MW-3	10/28/2010 ²	10.72	4.74	5.98	-	-	-	-	-	-	-	-	
MW-3	01/14/2011	10.72	4.11	6.61	-	1,000	91	<0.5	<0.5	<0.5	<0.5	-	
MW-3	04/19/2011	10.72	5.03	5.69	-	1,200	180	<0.5	<0.5	<0.5	<0.5	-	
MW-3	06/30/2011	10.72	4.97	5.75	-	740	<50	<0.5	<0.5	<0.5	<0.5	-	
MW-3	10/14/2011	10.72	4.52	6.20	1,800	<50	88	<0.5	<0.5	<0.5	<0.5	-	

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	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-3	01/18/2012	10.72	5.22	5.50	1,700	<50	<50	<0.5	<0.5	<0.5	<0.5	-	
MW-3	04/19/2012	10.72	4.63	6.09	3,000	50	260	<0.5	<0.5	<0.5	<0.5	-	
MW-3	07/23/2012	10.72	4.89	5.83	1,200	<50	-	-	-	-	-	-	
MW-3	07/27/2012 ⁴	10.72	4.58	6.14	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	
MW-3	01/19/2013	10.72	4.52	6.20	1,600	<50	69	<0.5	<0.5	<0.5	<0.5	-	
MW-3	07/15/2013 ⁵	10.72	4.54	6.18	1,500	<50	110	<0.5	<0.5	<0.5	<0.5	-	
MW-3	01/09/2014	10.72	4.21	6.51	1,500	<50	<50	<0.5	<0.5	<0.5	<0.5	-	
MW-3	07/25/2014	10.72	4.95	5.77	1,700	<50	120	<0.5	<0.5	<0.5	<0.5	-	
MW-3	01/29/2015	10.72	4.15	6.57	1,700	<50	<50	<0.5	<0.5	<0.5	<0.5	-	
MW-3	07/03/2015	10.72	5.05	5.67	2,100	<31	330	<0.5	<0.5	<0.5	<0.5	-	
MW-3	01/28/2016	10.72	4.57	6.15	1,200	<32	100	<0.5	<0.5	<0.5	<0.5	-	
MW-3	07/05/2016	10.72	5.10	5.62	2,200	66 J	310	<1	<1	<1	<1	-	
MW-3	01/26/2017	10.72	3.38	7.34	2,400	<49	54 J	<1	<1	<1	<1	-	
MW-4	07/21/2010	11.40	6.72	4.68	<50	-	<50	<0.5	<0.5	<0.5	<0.5	-	
MW-4	10/22/2010	11.40	6.87	4.53	-	91	<50	<0.5	<0.5	<0.5	<0.5	-	
MW-4	10/28/2010 ²	11.40	6.38	5.02	-	-	-	-	-	-	-	-	
MW-4	01/14/2011	11.40	5.32	6.08	-	<50	<50	<0.5	<0.5	<0.5	<0.5	-	
MW-4	04/19/2011	11.40	7.65	3.75	-	<50	<50	<0.5	<0.5	<0.5	<0.5	-	
MW-4	06/30/2011	11.40	6.93	4.47	-	<50	<50	<0.5	<0.5	<0.5	<0.5	-	
MW-4	10/14/2011	11.40	5.66	5.74	440	<50	<50	<0.5	<0.5	<0.5	<0.5	-	
MW-4	01/18/2012	11.40	8.36	3.04	330	<50	<50	<0.5	<0.5	<0.5	<0.5	-	
MW-4	04/19/2012	11.40	6.40	5.00	360	<50	<50	<0.5	0.5	<0.5	<0.5	-	

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	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-4	07/23/2012 ³	11.40	-	-	-	-	-	-	-	-	-	-	-
MW-4	07/27/2012	11.40	6.39	5.01	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
MW-4	01/19/2013	11.40	6.78	4.62	380	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
MW-4	07/15/2013	11.40	5.83	5.57	530	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
MW-4	01/09/2014	11.40	5.19	6.21	240	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
MW-4	07/25/2014	11.40	7.80	3.60	250	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
MW-4	01/29/2015	11.40	5.28	6.12	340	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
MW-4	07/03/2015 ³	11.40	-	-	-	-	-	-	-	-	-	-	-
MW-4	01/28/2016	11.40	6.58	4.82	130	<32	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
MW-4	07/05/2016	11.40	7.65	3.75	350	<95	<100	<1	<1	<1	<1	<1	-
MW-4	01/26/2017	11.40	4.56	6.84	340	<48	<100	<1	<1	<1	<1	<1	-
MW-5	07/21/2010	10.50	5.76	4.74	2,000	-	1,500	80	2	1	2	-	-
MW-5	10/22/2010	10.50	5.94	4.56	-	1,500	830	47	<0.5	1	<0.5	-	-
MW-5	10/28/2010 ²	10.50	5.17	5.33	-	-	-	-	-	-	-	-	-
MW-5	01/14/2011	10.50	4.40	6.10	-	1,800	2,100	61	4	1	6	-	-
MW-5	04/19/2011	10.50	5.69	4.81	-	2,000	2,200	73	4	1	6	-	-
MW-5	06/30/2011	10.50	5.82	4.68	-	3,200	2,900	99	6	1	7	-	-
MW-5	10/14/2011	10.50	4.51	5.99	4,600	89	2,300	76	5	1	5	-	-
MW-5	01/18/2012	10.50	5.98	4.52	3,700	460	3,500	140	7	2	10	-	-
MW-5	04/19/2012	10.50	5.40	5.10	3,600	310	2,000	87	5	1	5	-	-
MW-5	07/23/2012	10.50	5.29	5.21	4,300	380	-	-	-	-	-	-	-
MW-5	07/27/2012 ⁴	10.50	5.08	5.42	-	-	1,800	48	3	0.7	4	-	-

Table 1

Groundwater Monitoring and Sampling Data
Former Signal Oil Marine Storage and Distribution Facility
Chevron Bulk Plant 206127
2301-2311 Blanding Avenue
Alameda, California

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCS				MTBE by SW8260	
					TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X		
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-5	01/19/2013	10.50	5.38	5.12	4,200	400	3,500	100	7	<5	7	-	
MW-5	07/15/2013	10.50	5.78	4.72	3,800	850	3,900	130	8	2	11	-	
MW-5	01/09/2014	10.50	4.20	6.30	4,000	670	3,600	130	9	2	13	-	
MW-5	07/25/2014	10.50	6.20	4.30	3,200	720	3,400	130	9	2	14	-	
MW-5	01/29/2015	10.50	4.08	6.42	2,300	390	2,900	93	7	2	10	-	
MW-5	07/03/2015	10.50	5.90	4.60	2,500	820	3,400	100	8	2	13	-	
MW-5	01/28/2016	10.50	5.23	5.27	2,100	470	4,100	85	7 J	<5	7 J	-	
MW-5	07/05/2016	10.50	6.46	4.04	3,000	730	5,100	90	9	<5	14	-	
MW-5	01/26/2017	10.50	3.42	7.08	2,400	630	3,800	82	9	<5	9	-	
MW-6	10/28/2010	12.98	8.35	4.63	-	300	620	7	<0.5	1	2	-	
MW-6	01/14/2011	12.98	7.58	5.40	-	560	120	3	<0.5	<0.5	<0.5	-	
MW-6	04/19/2011	12.98	9.90	3.08	-	590	240	7	<0.5	<0.5	<0.5	-	
MW-6	06/30/2011	12.98	9.97	3.01	-	640	200	3	<0.5	<0.5	<0.5	-	
MW-6	10/14/2011	12.98	7.40	5.58	1,700	<50	510	10	<0.5	<0.5	<0.5	-	
MW-6	01/18/2012	12.98	9.82	3.16	1,300	<50	300	7	<0.5	<0.5	<0.5	-	
MW-6	04/19/2012	12.98	8.02	4.96	1,600	<50	290	7	0.6	<0.5	<0.5	-	
MW-6	07/23/2012	12.98	9.69	3.29	1,600	73	-	-	-	-	-	-	
MW-6	07/27/2012 ^d	12.98	8.39	4.59	-	-	450	9	<0.5	<0.5	0.6	-	
MW-6	01/19/2013	12.98	8.92	4.06	830	<50	250	3	<0.5	<0.5	<0.5	-	
MW-6	07/15/2013	12.98	7.70	5.28	2,400	<50	660	13	<0.5	<0.5	<0.5	-	
MW-6	01/09/2014	12.98	6.85	6.13	1,400	<50	490	10	<0.5	<0.5	<0.5	-	
MW-6	07/25/2014	12.98	9.85	3.13	1,500	<50	460	12	<0.5	<0.5	<0.5	-	

Table 1

**Groundwater Monitoring and Sampling Data
Former Signal Oil Marine Storage and Distribution Facility
Chevron Bulk Plant 206127
2301-2311 Blanding Avenue
Alameda, California**

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCS				MTBE by SW8260	
					TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X		
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-6	01/29/2015	12.98	6.83	6.15	990	<50	480	6	<0.5	<0.5	<0.5	<0.5	-
MW-6	07/03/2015	12.98	9.85	3.13	820	36 J	430	5	<0.5	<0.5	<0.5	<0.5	-
MW-6	01/28/2016	12.98	8.79	4.19	750	<31	460	3	<0.5	<0.5	<0.5	<0.5	-
MW-6	07/05/2016	12.98	11.64	1.34	1,200	35 J	490	1	<1	<1	<1	<1	-
MW-6	01/26/2017	12.98	6.05	6.93	1,100	32 J	460	1	<1	<1	<1	<1	-
QA	07/21/2010	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
QA	10/22/2010	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
QA	10/28/2010	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
QA	01/14/2011	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
QA	04/19/2011	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
QA	06/30/2011	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
QA	10/14/2011	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
QA	01/18/2012	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
QA	04/19/2012	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
QA	07/23/2012	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
QA	01/19/2013	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
QA	07/15/2013	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
QA	01/09/2014	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
QA	07/25/2014	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
QA	01/29/2015	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
QA	07/03/2015	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
QA	01/28/2016	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-

Table 1

**Groundwater Monitoring and Sampling Data
Former Signal Oil Marine Storage and Distribution Facility
Chevron Bulk Plant 206127
2301-2311 Blanding Avenue
Alameda, California**

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCS				MTBE by SW8260	
					TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X		
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
QA	07/05/2016	-	-	-	-	-	<100	<1	<1	<1	<1	<1	-
QA	01/26/2017	-	-	-	-	-	<100	<1	<1	<1	<1	<1	-

Abbreviations and Notes:

TOC = Top of casing

DTW = Depth to water

GWE = Groundwater elevation

(ft-amsl) = Feet above mean sea level

ft = Feet

µg/L = Micrograms per liter

TPH-DRO = Total petroleum hydrocarbons - diesel range organics

TPH-GRO = Total petroleum hydrocarbons - gasoline range organics

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes (Total)

MTBE = Methyl tert butyl ether

-- = Not available / not applicable

<x = Not detected above laboratory method detection limit

J = Estimated concentration

* TOC elevations for all wells were surveyed on July 30, 2009, by Morrow Surveying. Vertical Datum is NAVD 88 from GPS observations. TOC elevations were surveyed on January 25, 2001, by Virgil Chacez Land Surveying. The benchmark used for the survey was a City of Alameda benchmark being a cut square at the centerline return, south corner of Oak and Blanding, (Benchmark Elevation = 8.236 feet, NGVD 29).

Table 1

**Groundwater Monitoring and Sampling Data
Former Signal Oil Marine Storage and Distribution Facility
Chevron Bulk Plant 206127
2301-2311 Blanding Avenue
Alameda, California**

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCS				MTBE by SW8260
					TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L

- 1 Destroyed and re-installed as MW-1RB.
- 2 Monitored only for the 10/28/10 Special Event
- 3 Inaccessible.
- 4 Due to laboratory error, a second set of samples had to be collected for TPHg and BTEX on 7/27/12 for wells MW1RA, MW1RB, MW-3, MW-5 and MW-6.
- 5 No purge sample collected due to limited access.

Table 2

Well Construction Specifications
Former Signal Oil Marine Storage and Distribution Facility
Chevron Bulk Plant 206127
2301-2311 Blanding Avenue
Alameda, California

Well ID	Date Installed	TOC	Total Depth (fbg)	Casing Diameter ¹ (inches)	Slot Size (inches)	Screen Interval (fbg)	Filter Pack (fbg)	Status
<u>Monitoring Wells</u>								
MW-1	8/15/1990	13.49	19.5	2	0.020	4-19	3-19.5	Replaced w/MW-1RB
MW-1RA	8/4/2010	13.02	13	2	0.020	8-13	7-13	Active
MW-1RB	8/4/2010	13.21	20	2	0.020	16.5-20	15.5-20	Active
MW-2	6/19/2009	10.63	18	2	0.020	10.5-15.5	10-16	Active
MW-3	6/19/2009	10.72	18.5	2	0.020	13.5-18.5	12.5-18.5	Active
MW-4	6/19/2009	11.40	20.5	2	0.020	15.5-20.5	14.5-20.5	Active
MW-5	6/23/2009	10.50	18	2	0.020	13-18	12-18	Active
MW-6	8/4/2010	12.98	20	2	0.020	16.5-20	15.5-20	Active
<u>Vapor Wells</u>								
VP-1	7/9/2008	NS	4.25	1	0.020	3.75-4.25	3.5-4.5	Vapor only
VP-2	7/9/2008	NS	4.75	1	0.020	4.25-4.75	4-5	Vapor only
VP-3	7/14/2008	NS	5.75	1	0.020	5.25-5.75	5-6	Vapor only
VP-4	7/14/2008	NS	5.75	1	0.020	5.25-5.75	5-6	Vapor only
VP-5	7/14/2008	NS	5.75	1	0.020	5.25-5.75	5-6	Vapor only
VP-6	7/9/2008	NS	5.75	1	0.020	5.25-5.75	5-6	Vapor only
<u>Sub-Slab Vapor Probes</u>								
VP-7	7/17/2009	NS	0.5	0.25	NA	NA	NA	Vapor only
VP-8	7/17/2009	NS	0.5	0.25	NA	NA	NA	Vapor only
VP-9	7/22/2009	NS	0.5	0.25	NA	NA	NA	Vapor only
VP-10	7/22/2009	NS	0.5	0.25	NA	NA	NA	Vapor only
VP-11	7/17/2009	NS	0.5	0.25	NA	NA	NA	Vapor only
VP-12	7/22/2009	NS	0.5	0.25	NA	NA	NA	Vapor only
VP-13	7/22/2009	NS	0.5	0.25	NA	NA	NA	Vapor only

Abbreviations / Notes

TOC = Top of casing elevation (feet above mean sea level)

¹ = Schedule 40 PVC casing material

fbg = Feet below grade

NA = Not applicable

NS = Not surveyed

Attachment A Monitoring Data Package



GETTLER-RYAN INC.



TRANSMITTAL

February 2, 2017
G-R #17156498

TO: Mr. Brian Silva
GHD
10969 Trade Center Drive, Suite 107
Rancho Cordova, California 95670

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

RE: **Chevron #206127**
2301-2337 Blanding Avenue
Alameda, California
(Former Signal Oil Marine Terminal)

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package First Semi Annual Event of January 26, 2017

COMMENTS:

Pursuant to your request, we are providing you with copies of the above referenced data for your use.

Please provide us the updated historical data prior to the next monitoring and sampling event for our field use.

Please feel free to contact me if you have any comments/questions.

WELL CONDITION STATUS SHEET

Client/
 Facility #: **Chevron #206127**
 Site Address: **2301-2337 Blanding Avenue**
 City: **Alameda, CA**

Job #: **17156498** 1051
 Event Date: **1-26-17**
 Sampler: **FR**

WELL ID	Vault Frame Condition	Gasket/O-Ring (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Bolt Flanges B=Broken S=Stripped R=Retaped	Apron Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) Inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y/ <input checked="" type="checkbox"/>	REPLACE CAP Y/ <input checked="" type="checkbox"/>	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Y/ <input checked="" type="checkbox"/>
MW-1RA	OK									Moulin sor 8" x 2	
MW-1RB	OK		→	B=1	OK					" " "	
MW-2	OK									EMCO 12" x 2	
MW-3	OK									↓ ↓	
MW-4	OK										
MW-5	OK										
MW-6	OK		→	B=2	OK			↓	↓	Moulin sor 8" x 2	

Comments _____

STANDARD OPERATING PROCEDURE GROUNDWATER SAMPLING

Gettler-Ryan Inc. (GR) field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. All work is performed in accordance with the GR Health & Safety Plan and all client-specific programs. The scope of work and type of analysis to be performed is determined prior to commencing field work.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells. Total well depths are measured annually.

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, peristaltic or Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging (additional parameters such as dissolved oxygen, oxidation reduction potential, turbidity may also be measured, depending on specific scope of work.). Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards, as directed by the scope of work. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Chevron Environmental Management Company, the purge water and decontamination water generated during sampling activities is transported by Clean Harbors Environmental Services to Seaport Environmental located in Redwood City, California.



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #206127 Job Number: 17156498
 Site Address: 2301-2337 Blanding Avenue Event Date: 1-26-17 (inclusive)
 City: Alameda, CA Sampler: FR

Well ID: MW-1RA Date Monitored: 1-26-17
 Well Diameter: 2 in.
 Total Depth: 19.88 ft.
 Depth to Water: 9.15 ft. Check if water column is less than 0.50 ft.
10.73 xVF .17 = 1.82 x3 case volume = Estimated Purge Volume: 5.0 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.29

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

Purge Equipment:
 Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:
 Disposable Bailer
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one) _____
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr

Start Time (purge): 1145 Weather Conditions: Sunny
 Sample Time/Date: 1405 1-26-17 Water Color: Gray Odor: ⊙ / N SLIGHT
 Approx. Flow Rate: _____ gpm. Sediment Description: S. SILTY
 Did well de-water? Yes If yes, Time: 1151 Volume: 3.0 gal. DTW @ Sampling: 11.19

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)
<u>1148</u>	<u>1.5</u>	<u>945</u>	<u>OFF-SCALE</u>	<u>17.9</u>		
<u>1131</u>	<u>3.0</u>	<u>941</u>		<u>18.2</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1RA</u>	<u>6</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>EUROFINS</u>	<u>TPH-GRO(8015)/BTEX(8260)</u>
	<u>2</u> x 1 liter ambers	<u>YES</u>	<u>NP</u>	<u>EUROFINS</u>	<u>TPH-DRO w/sgc COLUMN/TPH-DRO(8015)</u>

COMMENTS: _____

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



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #206127
 Site Address: 2301-2337 Blanding Avenue
 City: Alameda, CA

Job Number: 17156498
 Event Date: 1-26-17 (inclusive)
 Sampler: Fr

Well ID: MW-1RB

Date Monitored: 1-26-17

Well Diameter: 2 in.

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

Total Depth: 12.68 ft.

Depth to Water: 4.27 ft. Check if water column is less than 0.50 ft.

8.41 xVF .17 = 1.42 x3 case volume = Estimated Purge Volume: 4.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 5.95

Purge Equipment:

Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr

Start Time (purge): 1205

Weather Conditions: Sunny

Sample Time/Date: 1415 / 1-26-17

Water Color: CLEAR Odor: Ø / N MODERATE

Approx. Flow Rate: ✓ gpm.

Sediment Description: NONE

Did well de-water? yes If yes, Time: 1210 Volume: 2.0 gal. DTW @ Sampling: 5.89

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)
<u>1208</u>	<u>1.5</u>	<u>9.60</u>	<u>3317</u>	<u>16.1</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1RB</u>	<u>6</u> x voa vial	YES	HCL	EUROFINS	TPH-GRO(8015)/BTEX(8260)
	<u>2</u> x 1 liter ambers	YES	NP	EUROFINS	TPH-DRO w/sgc COLUMN/TPH-DRO(8015)

COMMENTS: _____

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #206127
 Site Address: 2301-2337 Blanding Avenue
 City: Alameda, CA

Job Number: 17156498
 Event Date: 1.26.17 (inclusive)
 Sampler: FR

Well ID: MW-2
 Well Diameter: 2 in.
 Total Depth: 15.55 ft.
 Depth to Water: 2.70 ft.

Date Monitored: 1.26.17

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

Check if water column is less than 0.50 ft.
12.85 xVF .17 = 2.18 x3 case volume = Estimated Purge Volume: 7.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 5.27

Purge Equipment:

Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr

Start Time (purge): 1030
 Sample Time/Date: 1055 / 1.26.17
 Approx. Flow Rate: / gpm.
 Did well de-water? No If yes, Time: _____ Volume: _____ gal.

Weather Conditions: SUNNY
 Water Color: CLEAR Odor: Y 10
 Sediment Description: NOTE
 DTW @ Sampling: 5.21

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS mS / µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1034</u>	<u>2.5</u>	<u>9.67</u>	<u>1048</u>	<u>17.0</u>	<u>/</u>	<u>/</u>
<u>1038</u>	<u>5.0</u>	<u>9.64</u>	<u>1055</u>	<u>17.3</u>	<u>/</u>	<u>/</u>
<u>1042</u>	<u>7.0</u>	<u>9.62</u>	<u>1061</u>	<u>17.7</u>	<u>/</u>	<u>/</u>

LABORATORY INFORMATION

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

COMMENTS: _____

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #206127
 Site Address: 2301-2337 Blanding Avenue
 City: Alameda, CA

Job Number: 17156498
 Event Date: 1.26.17 (inclusive)
 Sampler: FR

Well ID: MW-3
 Well Diameter: 2 in.
 Total Depth: 17.70 ft.
 Depth to Water: 3.38 ft.

Date Monitored: 1.26.17

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

Check if water column is less than 0.50 ft.
14.32 xVF .17 = 2.43 x3 case volume = Estimated Purge Volume: 7.0 gal.

Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): 6.24

Purge Equipment:

Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
Time Completed: _____ (2400 hrs)
Depth to Product: _____ ft
Depth to Water: _____ ft
Hydrocarbon Thickness: _____ ft
Visual Confirmation/Description: _____
Skimmer / Absorbent Sock (circle one)
Amt Removed from Skimmer: _____ ltr
Amt Removed from Well: _____ ltr
Water Removed: _____ ltr

Start Time (purge): 1105
 Sample Time/Date: 1130 / 1-26-17
 Approx. Flow Rate: gpm.
 Did well de-water? No If yes, Time: _____ Volume: _____ gal.

Weather Conditions: SLYNNY
 Water Color: BRN. Odor: Ø / N SLIGHT
 Sediment Description: S-SILTY
 DTW @ Sampling: 5.97

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>1109</u>	<u>2.5</u>	<u>9.54</u>	<u>1105</u>	<u>18.3</u>		
<u>1113</u>	<u>5.0</u>	<u>9.51</u>	<u>1112</u>	<u>18.5</u>		
<u>1116</u>	<u>7.0</u>	<u>9.45</u>	<u>1120</u>	<u>18.7</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>6</u> x vov vial	YES	HCL	EUROFINS	TPH-GRO(8015)/BTEX(8260)
	<u>2</u> x 1 liter ambers	YES	NP	EUROFINS	TPH-DRO w/sgc COLUMN/TPH-DRO(8015)

COMMENTS: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #206127
 Site Address: 2301-2337 Blanding Avenue
 City: Alameda, CA

Job Number: 17156498
 Event Date: 1-26-17 (inclusive)
 Sampler: Fr

Well ID: MW-4
 Well Diameter: 2 in.
 Total Depth: 20.11 ft.
 Depth to Water: 4.56 ft.

Date Monitored: 1-26-17

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

Check if water column is less than 0.50 ft.

15.55 xVF .17 = 2.64 x3 case volume = Estimated Purge Volume: 8.0 gal.

Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): 7.67

Purge Equipment:
 Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:
 Disposable Bailer
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr

Start Time (purge): 1250
 Sample Time/Date: 1317 1.26.17
 Approx. Flow Rate: — gpm.
 Did well de-water? No If yes, Time: _____ Volume: _____ gal.

Weather Conditions: Sunny
 Water Color: Ben. Odor: Y / (N)
 Sediment Description: S. SILTY
 DTW @ Sampling: 7.61

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/mS µmhos/cm)	Temperature (°/F)	D.O. (mg/L)	ORP (mV)
<u>1254</u>	<u>2.5</u>	<u>9.72</u>	<u>962</u>	<u>17.4</u>	_____	_____
<u>1258</u>	<u>5.0</u>	<u>9.70</u>	<u>970</u>	<u>17.7</u>	_____	_____
<u>1304</u>	<u>8.0</u>	<u>9.67</u>	<u>979</u>	<u>18.0</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>6</u> x vov vial	YES	HCL	EUROFINS	TPH-GRO(8015)/BTEX(8260)
	<u>2</u> x 1 liter ambers	YES	NP	EUROFINS	TPH-DRO w/sgc COLUMN/TPH-DRO(8015)

COMMENTS: _____

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #206127
 Site Address: 2301-2337 Blanding Avenue
 City: Alameda, CA

Job Number: 17156498
 Event Date: 1-26-17 (inclusive)
 Sampler: FR

Well ID: MW-5
 Well Diameter: 2 in.
 Total Depth: 17.68 ft.
 Depth to Water: 3.42 ft.

Date Monitored: 1-26-17

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

Check if water column is less than 0.50 ft.
14.26 xVF .17 = 2.42 x3 case volume = Estimated Purge Volume: 7.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.27

Purge Equipment:
 Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:
 Disposable Bailer
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr

Start Time (purge): 1330 Weather Conditions: Sunny
 Sample Time/Date: 1355 / 1-26-17 Water Color: Gray Odor: Ⓟ/N STRONG
 Approx. Flow Rate: / gpm. Sediment Description: S-SILTY
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 6.20

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (Ⓟ) mS μmhos/cm	Temperature (Ⓟ) F	D.O. (mg/L)	ORP (mV)
<u>1334</u>	<u>2.5</u>	<u>9.67</u>	<u>970</u>	<u>16.7</u>	/	/
<u>1338</u>	<u>5.0</u>	<u>9.64</u>	<u>977</u>	<u>17.0</u>	/	/
<u>1342</u>	<u>7.0</u>	<u>9.61</u>	<u>983</u>	<u>17.4</u>	/	/

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-5</u>	<u>6</u> x voa vial	YES	HCL	EUROFINS	TPH-GRO(8015)/BTEX(8260)
	<u>2</u> x 1 liter ambers	YES	NP	EUROFINS	TPH-DRO w/sgc COLUMN/TPH-DRO(8015)

COMMENTS: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #206127
 Site Address: 2301-2337 Blanding Avenue
 City: Alameda, CA

Job Number: 17156498
 Event Date: 1-26-17 (inclusive)
 Sampler: FR

Well ID: MW-6
 Well Diameter: 2 in.
 Total Depth: 20.04 ft.
 Depth to Water: 6.05 ft.

Date Monitored: 1-26-17

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

Check if water column is less than 0.50 ft.

13.99 xVF .17 = 2.37 x3 case volume = Estimated Purge Volume: 7.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.84

Purge Equipment:

Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one) _____
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr

Start Time (purge): 12-25
 Sample Time/Date: 1425 / 1-26-17
 Approx. Flow Rate: ✓ gpm.
 Did well de-water? yes If yes, Time: 1234

Weather Conditions: Sunny
 Water Color: LT. BRN. Odor: Ø / N SLIGHT
 Sediment Description: S. SILTY
 Volume: 5.0 gal. DTW @ Sampling: 8.79

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/mS / µmhos/cm)	Temperature (°C / °F)	D.O. (mg/L)	ORP (mV)
<u>1229</u>	<u>2.5</u>	<u>9.62</u>	<u>1170</u>	<u>17.7</u>	<u>✓</u>	<u>✓</u>
<u>1234</u>	<u>5.0</u>	<u>9.59</u>	<u>1181</u>	<u>17.9</u>	<u>✓</u>	<u>✓</u>
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-6</u>	<u>6</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>EUROFINS</u>	<u>TPH-GRO(8015)/BTEX(8260)</u>
	<u>2</u> x 1 liter ambers	<u>YES</u>	<u>NP</u>	<u>EUROFINS</u>	<u>TPH-DRO w/sgc COLUMN/TPH-DRO(8015)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS:

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

Chevron California Region Analysis Request/Chain of Custody



012717-03
 Lancaster Laboratories
 Environmental

Acct. # _____

For Eurofins Lancaster Laboratories Environmental use only

Group # _____ Sample # _____

Instructions on reverse side correspond with circled numbers.

1 of 2

Client Information				Matrix			Analyses Requested										SCR #: _____					
Facility # SS#206127-OML G-R#17156498 WBS Global ID#T06019744728 Site Address 2301-2337 BLANDING AVENUE, ALAMEDA, CA Chevron PM TM GHDSB Lead Consultant Silva Consultant/Office Getter-Ryan Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568 Consultant Project Mgr. Deanna L. Harding, deanna@grinc.com Consultant Phone # (925) 551-7444 x180 Sampler FRANK T.				<input type="checkbox"/> Sediment <input checked="" type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air			<input checked="" type="checkbox"/> 8260 <input type="checkbox"/> 8021 <input checked="" type="checkbox"/> 8015 <input checked="" type="checkbox"/> TPH-DRO 8015 without Silica Gel Cleanup <input checked="" type="checkbox"/> TPH-DRO 8015 with Silica Gel Cleanup 8260 Full Scan Oxygenates Total Lead Method Dissolved Lead Method										<input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input checked="" type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits					
Sample Identification	Soil Depth	Collected		Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX	8021	8260	TPH-GRO	8015	TPH-DRO 8015 without Silica Gel Cleanup	TPH-DRO 8015 with Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead Method	Dissolved Lead Method	Remarks	
		Date	Time																			
QA		17.1.26							2	X	X											TPH-DRO WITH SILICA GEL REQUESTING 10 GRAM COLUMN CLEAN-UP WITH CAPRIC ACID REVERSE SURROGATE
MW-2			1055	X				8														
MW-3			1130	X																		
MW-4			1317	X																		
MW-5			1355	X																		
MW-6			1425	X																		
MW-1RA			1405	X																		
MW-1RB			1415	X																		
Turnaround Time Requested (TAT) (please circle) Standard 5 day 4 day 72 hour 48 hour 24 hour				Relinquished by <i>[Signature]</i> Date 17.1.27 Time Relinquished by _____ Date _____ Time _____			Received by <i>[Signature]</i> Date 27 JAN 17 Time 1415 Received by _____ Date _____ Time _____															
Data Package (circle if required) EDF/EDD Type I - Full Type VI (Raw Data)				Relinquished by _____ Date _____ Time _____			Received by _____ Date _____ Time _____															
EDD (circle if required) EDFFLAT (default) Other: _____				Relinquished by Commercial Carrier: UPS _____ FedEx _____ Other _____			Received by _____ Date _____ Time _____															
				Temperature Upon Receipt _____ °C			Custody Seals Intact? Yes No															

Attachment B Laboratory Analytical Report

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

Report Date: March 21, 2017

Project: 206127

Submittal Date: 01/28/2017
Group Number: 1759572
PO Number: 0015239475
Release Number: MOISE
State of Sample Origin: CA

Client Sample Description

	Lancaster Labs (LL) #
QA-T-170126 NA Water	8809505
MW-2-W-170126 Grab Groundwater	8809506
MW-3-W-170126 Grab Groundwater	8809507
MW-4-W-170126 Grab Groundwater	8809508
MW-5-W-170126 Grab Groundwater	8809509
MW-6-W-170126 Grab Groundwater	8809510
MW-1RA-W-170126 Grab Groundwater	8809511
MW-1RB-W-170126 Grab Groundwater	8809512

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

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

Electronic Copy To GHD
Electronic Copy To GHD
Electronic Copy To GHD
Electronic Copy To Gettler-Ryan Inc.

Attn: Brian Silva
Attn: Anna Avina
Attn: Report Contact
Attn: Gettler Ryan

Respectfully Submitted,



Amek Carter
Specialist

(717) 556-7252

Sample Description: QA-T-170126 NA Water
Facility# 206127 Job# 17156498 GRD
2301-2337 Blanding-Alameda T06019744728

LL Sample # WW 8809505
LL Group # 1759572
Account # 10904

Project Name: 206127

Collected: 01/26/2017

Chevron

Submitted: 01/28/2017 09:45

L4310

Reported: 03/21/2017 08:50

6001 Bollinger Canyon Rd.
San Ramon CA 94583

BAAQA

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

Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX 8260B Water	SW-846 8260B	1	Z170321AA	02/01/2017 13:31	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z170321AA	02/01/2017 13:31	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17031A94A	01/31/2017 13:27	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	17031A94A	01/31/2017 13:27	Jeremy C Giffin	1

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

Sample Description: MW-2-W-170126 Grab Groundwater
Facility# 206127 Job# 17156498 GRD
2301-2337 Blanding-Alameda T06019744728

LL Sample # WW 8809506
LL Group # 1759572
Account # 10904

Project Name: 206127

Collected: 01/26/2017 10:55 by FT Chevron
L4310
Submitted: 01/28/2017 09:45 6001 Bollinger Canyon Rd.
Reported: 03/21/2017 08:50 San Ramon CA 94583

BAA02

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
	SW-846 8260B		ug/l	ug/l	ug/l	
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC Volatiles						
	SW-846 8015B		ug/l	ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1
GC Petroleum Hydrocarbons						
	SW-846 8015B		ug/l	ug/l	ug/l	
08269	TPH-DRO water C10-C28	n.a.	N.D.	50	100	1
GC Petroleum Hydrocarbons w/Si						
	SW-846 8015B		ug/l	ug/l	ug/l	
02216	TPH-DRO water C10-C28 w/Si Gel	n.a.	N.D.	32	50	1
The reverse surrogate, capric acid, is present at <1%.						

Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX 8260B Water	SW-846 8260B	1	Z170321AA	02/01/2017 16:20	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z170321AA	02/01/2017 16:20	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17033A94A	02/02/2017 15:17	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	17033A94A	02/02/2017 15:17	Brett W Kenyon	1
08269	TPH-DRO water C10-C28	SW-846 8015B	2	170300014A	02/01/2017 04:35	Amy Lehr	1
02216	TPH-DRO water C10-C28 w/Si Gel	SW-846 8015B	1	170300013A	02/04/2017 05:47	Amy Lehr	1
11172	DRO by 8015 w/ Silica Gel Ext	SW-846 3510C	1	170300013A	01/31/2017 08:30	Nadia Bernabe	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	170300014A	01/31/2017 08:30	Nadia Bernabe	1

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

Sample Description: MW-3-W-170126 Grab Groundwater
Facility# 206127 Job# 17156498 GRD
2301-2337 Blanding-Alameda T06019744728

LL Sample # WW 8809507
LL Group # 1759572
Account # 10904

Project Name: 206127

Collected: 01/26/2017 11:30 by FT Chevron
L4310
Submitted: 01/28/2017 09:45 6001 Bollinger Canyon Rd.
Reported: 03/21/2017 08:50 San Ramon CA 94583

BAA03

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC Volatiles SW-846 8015B						
01728	TPH-GRO N. CA water C6-C12	n.a.	54 J	50	100	1
GC Petroleum Hydrocarbons SW-846 8015B						
08269	TPH-DRO water C10-C28	n.a.	2,400	50	97	1
GC Petroleum Hydrocarbons w/Si SW-846 8015B						
02216	TPH-DRO water C10-C28 w/Si Gel	n.a.	N.D.	31	49	1
The reverse surrogate, capric acid, is present at <1%.						

Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX 8260B Water	SW-846 8260B	1	Z170321AA	02/01/2017 16:44	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z170321AA	02/01/2017 16:44	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17033A94A	02/02/2017 15:43	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	17033A94A	02/02/2017 15:43	Brett W Kenyon	1
08269	TPH-DRO water C10-C28	SW-846 8015B	2	170300014A	02/01/2017 06:22	Amy Lehr	1
02216	TPH-DRO water C10-C28 w/Si Gel	SW-846 8015B	1	170300013A	02/04/2017 06:09	Amy Lehr	1
11172	DRO by 8015 w/ Silica Gel Ext	SW-846 3510C	1	170300013A	01/31/2017 08:30	Nadia Bernabe	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	170300014A	01/31/2017 08:30	Nadia Bernabe	1

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

Sample Description: MW-4-W-170126 Grab Groundwater
Facility# 206127 Job# 17156498 GRD
2301-2337 Blanding-Alameda T06019744728

LL Sample # WW 8809508
LL Group # 1759572
Account # 10904

Project Name: 206127

Collected: 01/26/2017 13:17 by FT

Chevron

L4310

Submitted: 01/28/2017 09:45

6001 Bollinger Canyon Rd.

Reported: 03/21/2017 08:50

San Ramon CA 94583

BAA04

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
	SW-846 8260B		ug/l	ug/l	ug/l	
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC Volatiles						
	SW-846 8015B		ug/l	ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1
GC Petroleum Hydrocarbons						
	SW-846 8015B		ug/l	ug/l	ug/l	
08269	TPH-DRO water C10-C28	n.a.	340	50	96	1
GC Petroleum Hydrocarbons w/Si						
	SW-846 8015B		ug/l	ug/l	ug/l	
02216	TPH-DRO water C10-C28 w/Si Gel	n.a.	N.D.	31	48	1
The reverse surrogate, capric acid, is present at <1%.						

Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX 8260B Water	SW-846 8260B	1	Z170321AA	02/01/2017 17:08	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z170321AA	02/01/2017 17:08	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17033A94A	02/02/2017 16:08	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	17033A94A	02/02/2017 16:08	Brett W Kenyon	1
08269	TPH-DRO water C10-C28	SW-846 8015B	2	170300014A	02/01/2017 04:56	Amy Lehr	1
02216	TPH-DRO water C10-C28 w/Si Gel	SW-846 8015B	1	170300013A	02/04/2017 06:30	Amy Lehr	1
11172	DRO by 8015 w/ Silica Gel Ext	SW-846 3510C	1	170300013A	01/31/2017 08:30	Nadia Bernabe	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	170300014A	01/31/2017 08:30	Nadia Bernabe	1

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

Sample Description: MW-5-W-170126 Grab Groundwater
Facility# 206127 Job# 17156498 GRD
2301-2337 Blanding-Alameda T06019744728

LL Sample # WW 8809509
LL Group # 1759572
Account # 10904

Project Name: 206127

Collected: 01/26/2017 13:55 by FT Chevron
L4310
Submitted: 01/28/2017 09:45 6001 Bollinger Canyon Rd.
Reported: 03/21/2017 08:50 San Ramon CA 94583

BAA05

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
	SW-846 8260B		ug/l	ug/l	ug/l	
10945	Benzene	71-43-2	82	3	5	5
10945	Ethylbenzene	100-41-4	N.D.	3	5	5
10945	Toluene	108-88-3	9	3	5	5
10945	Xylene (Total)	1330-20-7	9	3	5	5
GC Volatiles						
	SW-846 8015B		ug/l	ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	3,800	500	1,000	10
GC Petroleum Hydrocarbons						
	SW-846 8015B		ug/l	ug/l	ug/l	
08269	TPH-DRO water C10-C28	n.a.	2,400	50	97	1
GC Petroleum Hydrocarbons w/Si						
	SW-846 8015B		ug/l	ug/l	ug/l	
02216	TPH-DRO water C10-C28 w/Si Gel	n.a.	630	31	48	1
The reverse surrogate, capric acid, is present at <1%.						

Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX 8260B Water	SW-846 8260B	1	F170334AA	02/03/2017 02:08	Hu Yang	5
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F170334AA	02/03/2017 02:08	Hu Yang	5
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17034B20A	02/03/2017 22:06	Marie D Beamenderfer	10
01146	GC VOA Water Prep	SW-846 5030B	1	17034B20A	02/03/2017 22:06	Marie D Beamenderfer	10
08269	TPH-DRO water C10-C28	SW-846 8015B	2	170300014A	02/01/2017 05:18	Amy Lehr	1
02216	TPH-DRO water C10-C28 w/Si Gel	SW-846 8015B	1	170300013A	02/04/2017 06:51	Amy Lehr	1
11172	DRO by 8015 w/ Silica Gel Ext	SW-846 3510C	1	170300013A	01/31/2017 08:30	Nadia Bernabe	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	170300014A	01/31/2017 08:30	Nadia Bernabe	1

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

Sample Description: MW-6-W-170126 Grab Groundwater
Facility# 206127 Job# 17156498 GRD
2301-2337 Blanding-Alameda T06019744728

LL Sample # WW 8809510
LL Group # 1759572
Account # 10904

Project Name: 206127

Collected: 01/26/2017 14:25 by FT Chevron
L4310
Submitted: 01/28/2017 09:45 6001 Bollinger Canyon Rd.
Reported: 03/21/2017 08:50 San Ramon CA 94583

BAA06

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
	SW-846 8260B		ug/l	ug/l	ug/l	
10945	Benzene	71-43-2	1	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC Volatiles						
	SW-846 8015B		ug/l	ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	460	50	100	1
GC Petroleum Hydrocarbons						
	SW-846 8015B		ug/l	ug/l	ug/l	
08269	TPH-DRO water C10-C28	n.a.	1,100	50	97	1
GC Petroleum Hydrocarbons w/Si						
	SW-846 8015B		ug/l	ug/l	ug/l	
02216	TPH-DRO water C10-C28 w/Si Gel	n.a.	32 J	31	49	1
The reverse surrogate, capric acid, is present at <1%.						

Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX 8260B Water	SW-846 8260B	1	Z170321AA	02/01/2017 17:32	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z170321AA	02/01/2017 17:32	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17033A94A	02/02/2017 17:00	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	17033A94A	02/02/2017 17:00	Brett W Kenyon	1
08269	TPH-DRO water C10-C28	SW-846 8015B	2	170300014A	02/01/2017 05:39	Amy Lehr	1
02216	TPH-DRO water C10-C28 w/Si Gel	SW-846 8015B	1	170300013A	02/04/2017 07:13	Amy Lehr	1
11172	DRO by 8015 w/ Silica Gel Ext	SW-846 3510C	1	170300013A	01/31/2017 08:30	Nadia Bernabe	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	170300014A	01/31/2017 08:30	Nadia Bernabe	1

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

Sample Description: MW-1RA-W-170126 Grab Groundwater
Facility# 206127 Job# 17156498 GRD
2301-2337 Blanding-Alameda T06019744728

LL Sample # WW 8809511
LL Group # 1759572
Account # 10904

Project Name: 206127

Collected: 01/26/2017 14:05 by FT

Chevron

L4310

Submitted: 01/28/2017 09:45

6001 Bollinger Canyon Rd.

Reported: 03/21/2017 08:50

San Ramon CA 94583

BAA1A

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
	SW-846 8260B		ug/l	ug/l	ug/l	
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC Volatiles						
	SW-846 8015B		ug/l	ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	140	50	100	1
GC Petroleum Hydrocarbons						
	SW-846 8015B		ug/l	ug/l	ug/l	
08269	TPH-DRO water C10-C28	n.a.	1,900	50	97	1
GC Petroleum Hydrocarbons w/Si						
	SW-846 8015B		ug/l	ug/l	ug/l	
02216	TPH-DRO water C10-C28 w/Si Gel	n.a.	74	31	49	1
The reverse surrogate, capric acid, is present at <1%.						

Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX 8260B Water	SW-846 8260B	1	Z170321AA	02/01/2017 17:57	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z170321AA	02/01/2017 17:57	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17033A94A	02/02/2017 17:25	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	17033A94A	02/02/2017 17:25	Brett W Kenyon	1
08269	TPH-DRO water C10-C28	SW-846 8015B	2	170300014A	02/01/2017 06:01	Amy Lehr	1
02216	TPH-DRO water C10-C28 w/Si Gel	SW-846 8015B	1	170300013A	02/04/2017 07:34	Amy Lehr	1
11172	DRO by 8015 w/ Silica Gel Ext	SW-846 3510C	1	170300013A	01/31/2017 08:30	Nadia Bernabe	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	170300014A	01/31/2017 08:30	Nadia Bernabe	1

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

Sample Description: MW-1RB-W-170126 Grab Groundwater
Facility# 206127 Job# 17156498 GRD
2301-2337 Blanding-Alameda T06019744728

LL Sample # WW 8809512
LL Group # 1759572
Account # 10904

Project Name: 206127

Collected: 01/26/2017 14:15 by FT Chevron
L4310
Submitted: 01/28/2017 09:45 6001 Bollinger Canyon Rd.
Reported: 03/21/2017 08:50 San Ramon CA 94583

BAA1B

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
	SW-846 8260B		ug/l	ug/l	ug/l	
10945	Benzene	71-43-2	39	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC Volatiles						
	SW-846 8015B		ug/l	ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	500	1,000	10
Reporting limits were raised due to sample foaming.						
GC Petroleum Hydrocarbons						
	SW-846 8015B		ug/l	ug/l	ug/l	
08269	TPH-DRO water C10-C28	n.a.	3,400	50	96	1
GC Petroleum Hydrocarbons w/Si						
	SW-846 8015B		ug/l	ug/l	ug/l	
02216	TPH-DRO water C10-C28 w/Si Gel	n.a.	38 J	31	48	1
The reverse surrogate, capric acid, is present at <1%.						

Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX 8260B Water	SW-846 8260B	1	F170334AA	02/03/2017 02:30	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F170334AA	02/03/2017 02:30	Hu Yang	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17034B20A	02/03/2017 22:32	Marie D Beamenderfer	10
01146	GC VOA Water Prep	SW-846 5030B	1	17034B20A	02/03/2017 22:32	Marie D Beamenderfer	10
08269	TPH-DRO water C10-C28	SW-846 8015B	2	170300014A	02/01/2017 06:44	Amy Lehr	1
02216	TPH-DRO water C10-C28 w/Si Gel	SW-846 8015B	1	170300013A	02/04/2017 07:56	Amy Lehr	1
11172	DRO by 8015 w/ Silica Gel Ext	SW-846 3510C	1	170300013A	01/31/2017 08:30	Nadia Bernabe	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	170300014A	01/31/2017 08:30	Nadia Bernabe	1

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

Quality Control Summary

Client Name: Chevron
Reported: 03/21/2017 08:50

Group Number: 1759572

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

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

Method Blank

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
Batch number: F170334AA	Sample number(s): 8809509,8809512		
Benzene	N.D.	0.5	1
Ethylbenzene	N.D.	0.5	1
Toluene	N.D.	0.5	1
Xylene (Total)	N.D.	0.5	1
Batch number: Z170321AA	Sample number(s): 8809505-8809508,8809510-8809511		
Benzene	N.D.	0.5	1
Ethylbenzene	N.D.	0.5	1
Toluene	N.D.	0.5	1
Xylene (Total)	N.D.	0.5	1
Batch number: 17031A94A	Sample number(s): 8809505		
TPH-GRO N. CA water C6-C12	N.D.	50	100
Batch number: 17033A94A	Sample number(s): 8809506-8809508,8809510-8809511		
TPH-GRO N. CA water C6-C12	N.D.	50	100
Batch number: 17034B20A	Sample number(s): 8809509,8809512		
TPH-GRO N. CA water C6-C12	N.D.	50	100
Batch number: 170300014A	Sample number(s): 8809506-8809512		
TPH-DRO water C10-C28	N.D.	32	100
Batch number: 170300013A	Sample number(s): 8809506-8809512		
TPH-DRO water C10-C28 w/Si Gel	N.D.	32	100

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l					
Batch number: F170334AA	Sample number(s): 8809509,8809512								
Benzene	20	18.56			93		78-120		
Ethylbenzene	20	18.65			93		78-120		
Toluene	20	19.12			96		80-120		
Xylene (Total)	60	56.51			94		80-120		
Batch number: Z170321AA	Sample number(s): 8809505-8809508,8809510-8809511								
Benzene	20	19.85			99		78-120		

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Chevron
Reported: 03/21/2017 08:50

Group Number: 1759572

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Ethylbenzene	20	19.88			99		78-120		
Toluene	20	20.54			103		80-120		
Xylene (Total)	60	61.66			103		80-120		
	ug/l	ug/l	ug/l	ug/l					
Batch number: 17031A94A	Sample number(s): 8809505								
TPH-GRO N. CA water C6-C12	1100	1106.05	1100	1099.91	101	100	77-120	1	30
Batch number: 17033A94A	Sample number(s): 8809506-8809508,8809510-8809511								
TPH-GRO N. CA water C6-C12	1100	1077.4	1100	1123.94	98	102	77-120	4	30
Batch number: 17034B20A	Sample number(s): 8809509,8809512								
TPH-GRO N. CA water C6-C12	1100	1080.19	1100	1047.74	98	95	77-120	3	30
	ug/l	ug/l	ug/l	ug/l					
Batch number: 170300014A	Sample number(s): 8809506-8809512								
TPH-DRO water C10-C28	1600	1403.49	1600	979.55	88	61	53-115	36*	20
	ug/l	ug/l	ug/l	ug/l					
Batch number: 170300013A	Sample number(s): 8809506-8809512								
TPH-DRO water C10-C28 w/Si Gel	1600	1101.24	1600	799.93	69	50	43-120	32*	20

MS/MSD

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

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: F170334AA	Sample number(s): 8809509,8809512 UNSPK: P817711									
Benzene	N.D.	20	19.49	20	19.35	97	97	78-120	1	30
Ethylbenzene	N.D.	20	19.97	20	19.31	100	97	78-120	3	30
Toluene	N.D.	20	20.16	20	19.36	101	97	80-120	4	30
Xylene (Total)	N.D.	60	58.13	60	57	97	95	80-120	2	30
Batch number: Z170321AA	Sample number(s): 8809505-8809508,8809510-8809511 UNSPK: P809503									
Benzene	N.D.	20	18.33	20	16.76	92	84	78-120	9	30
Ethylbenzene	N.D.	20	18.42	20	16.69	92	83	78-120	10	30
Toluene	N.D.	20	18.91	20	17.3	95	86	80-120	9	30
Xylene (Total)	N.D.	60	56.39	60	51.59	94	86	80-120	9	30

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Chevron
Reported: 03/21/2017 08:50

Group Number: 1759572

Surrogate Quality Control

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

Analysis Name: BTEX 8260B Water
Batch number: F170334AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8809509	95	95	103	96
8809512	97	99	102	95
Blank	97	100	102	91
LCS	97	98	103	95
MS	97	99	101	94
MSD	96	97	101	98
Limits:	80-116	77-113	80-113	78-113

Analysis Name: BTEX 8260B Water
Batch number: Z170321AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8809505	97	101	98	91
8809506	97	100	96	91
8809507	97	97	97	96
8809508	99	100	98	93
8809510	96	97	96	97
8809511	98	100	98	97
Blank	95	95	99	91
LCS	93	98	100	97
MS	95	99	100	97
MSD	96	98	99	98
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 17031A94A

	Trifluorotoluene-F
8809505	81
Blank	81
LCS	93
LCSD	93
Limits:	63-135

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 17033A94A

	Trifluorotoluene-F
8809506	80
8809507	86
8809508	80
8809510	85
8809511	79

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Chevron
Reported: 03/21/2017 08:50

Group Number: 1759572

Surrogate Quality Control (continued)

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

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 17033A94A

Trifluorotoluene-F	
Blank	81
LCS	88
LCSD	94

Limits: 63-135

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 17034B20A

Trifluorotoluene-F	
8809509	93
8809512	86
Blank	84
LCS	97
LCSD	95

Limits: 63-135

Analysis Name: TPH-DRO water C10-C28 w/Si Gel
Batch number: 170300013A

Orthoterphenyl	
8809506	68
8809507	72
8809508	71
8809509	59
8809510	68
8809511	63
8809512	74
Blank	82
LCS	79
LCSD	56

Limits: 42-126

Analysis Name: TPH-DRO water C10-C28
Batch number: 170300014A

Orthoterphenyl	
8809506	87
8809507	84
8809508	84
8809509	67
8809510	82
8809511	81
8809512	90
Blank	88
LCS	93

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Chevron
Reported: 03/21/2017 08:50

Group Number: 1759572

Surrogate Quality Control (continued)

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

Analysis Name: TPH-DRO water C10-C28
Batch number: 170300014A

	Orthoterphenyl
LCSD	66
Limits:	50-124

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Chevron California Region Analysis Request/Chain of Custody



012717-03
Lancaster Laboratories
Environmental

Acct. # 10904

For Eurofins Lancaster Laboratories Environmental use only
Group # 1739573 Sample # 8509505-12
Instructions on reverse side correspond with circled numbers.

1 of

Client Information				Matrix			Analyses Requested														
Facility # SS#206127-OML G-R#17156498 Global ID#T06019744728				<input type="checkbox"/> Sediment <input checked="" type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air	Total Number of Containers	<input checked="" type="checkbox"/> 8260 <input type="checkbox"/> 8021 <input checked="" type="checkbox"/> 8260 <input checked="" type="checkbox"/> TPH-DRO 8015 without Silica Gel Cleanup <input checked="" type="checkbox"/> TPH-DRO 8015 with Silica Gel Cleanup 8260 Full Scan Oxygenates Total Lead Method Dissolved Lead Method															
Site Address 2301-2337 BLANDING AVENUE, ALAMEDA, CA																					
Chevron PM TM GHDSB		Lead Consultant Silva																			
Consultant/Office Getter-Ryan Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568																					
Consultant Project Mgr. Deanna L. Harding, deanna@grinc.com																					
Consultant Phone # (925) 551-7444 x180																					
Sampler FRANK T.																					
Sample Identification		Soil	Collected		Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTX	TPH-GRO	TPH-DRO 8015 without Silica Gel Cleanup	TPH-DRO 8015 with Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead	Dissolved Lead	Method	Method	
		Depth	Date	Time																	
QA			17.1.26							2	X	X									
MW-2				1055	X					8											
MW-3				1130	X																
MW-4				1317	X																
MW-5				1355	X																
MW-6				1425	X																
MW-1RA				1405	X																
MW-1RB				1415	X																

SCR #: _____

- Results in Dry Weight
- J value reporting needed
- Must meet lowest detection limits possible for 8260 compounds
- 8021 MTBE Confirmation
- Confirm highest hit by 8260
- Confirm all hits by 8260
- Run _____ oxy's on highest hit
- Run _____ oxy's on all hits

Remarks

TPH-DRO WITH SILICA GEL REQUESTING 10 GRAM COLUMN CLEAN-UP WITH CAPRIC ACID REVERSE SURROGATE

Turnaround Time Requested (TAT) (please circle) Standard 5 day 4 day 72 hour 48 hour 24 hour			Relinquished by <i>[Signature]</i> Date 17.1.27 Time		Received by <i>[Signature]</i> Date 27 JAN 17 Time 1015	
Data Package (circle if required) Type I - Full Type VI (Raw Data)			Relinquished by <i>[Signature]</i> Date 27 JAN 17 Time 1630		Received by <i>[Signature]</i> Date Time	
EDD (circle if required) EDF/EDD EDFFLAT (default) Other: _____			Relinquished by Commercial Carrier: UPS _____ FedEx <input checked="" type="checkbox"/> Other _____		Received by <i>[Signature]</i> Date 1/28/17 Time 0945	
			Temperature Upon Receipt 0.5-1.3 °C		Custody Seals Intact? <input checked="" type="checkbox"/> Yes No	

Client: CA Office

Delivery and Receipt Information

Delivery Method:	<u>BASC</u>	Arrival Timestamp:	<u>01/28/2017 9:45</u>
Number of Packages:	<u>4</u>	Number of Projects:	<u>1</u>
State/Province of Origin:	<u>CA</u>		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace \geq 6mm:	No
Samples Chilled:	Yes	Total Trip Blank Qty:	8
Paperwork Enclosed:	Yes	Trip Blank Type:	HCl
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Karen Diem (3060) at 11:36 on 01/28/2017

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT146	0.8	DT	Wet	Y	Bagged	N
2	DT146	1.3	DT	Wet	Y	Bagged	N
3	DT146	0.5	DT	Wet	Y	Bagged	N
4	DT146	1.0	DT	Wet	Y	Bagged	N

Explanation of Symbols and Abbreviations

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

BMQL	Below Minimum Quantitation Level	mg	milligram(s)
C	degrees Celsius	mL	milliliter(s)
cfu	colony forming units	MPN	Most Probable Number
CP Units	cobalt-chloroplatinate units	N.D.	none detected
F	degrees Fahrenheit	ng	nanogram(s)
g	gram(s)	NTU	nephelometric turbidity units
IU	International Units	pg/L	picogram/liter
kg	kilogram(s)	RL	Reporting Limit
L	liter(s)	TNTC	Too Numerous To Count
lb.	pound(s)	µg	microgram(s)
m3	cubic meter(s)	µL	microliter(s)
meq	milliequivalents	umhos/cm	micromhos/cm
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Laboratory Data Qualifiers:

- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and $<$ the Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...
- W - The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.

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

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

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

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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

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

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Attachment C

Historical Groundwater Monitoring and Sampling Data

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron #206127 (Former Signal Oil Marine Terminal)
2301-2337 Blanding Avenue
Alameda, California

WELL ID/ DATE	TQC* (fL)	DTW (fL)	GWE (msl)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-1										
01/23/01 ¹	--	7.16	--	1,100 ^{2,3}	5,210 ⁴	868	<50.0	<50.0	<50.0	<250
04/09/01	10.62	8.12	2.50	1,200 ⁶	3,000 ⁵	920	<20	<20	<20	<100
07/30/01	10.62	9.15	1.47	550 ^{3,8}	2,000 ⁷	730	13	<5.0	<5.0	<25
10/08/01	10.62	7.86	2.76	2,200 ⁹	1,200	120	2.4	5.9	6.4	<2.5
01/13/02	10.62	7.02	3.60	3,300 ³	930	320	0.78	0.87	3.8	<2.5
04/08/02	10.62	9.60	1.02	1,200 ³	960	50	1.4	2.6	9.0	<2.5
07/31/02	10.62	9.27	1.35	2,800 ³	930	64	1.4	1.9	11	<5.0
10/15/02	10.62	8.00	2.62	1,000 ³	620	25	0.78	1.4	4.3	<2.5
01/14/03	10.62	7.05	3.57	960 ³	1,600	20	1.3	1.3	<1.5	<2.5
04/15/03	10.62	8.02	2.60	920 ³	870	56	1	1.4	3.1	<2.5
07/16/03 ¹⁰	10.62	10.08	0.54	1,400 ³	780	85	1	0.8	0.7	<0.5
10/18/03 ¹⁰	10.62	8.51	2.11	1,200 ³	640	42	0.8	<0.5	0.5	<0.5
01/22/04 ¹⁰	10.62	8.95	1.67	1,500 ³	440	18	<0.5	<0.5	<0.5	<0.5
04/23/04 ¹⁰	10.62	8.95	1.67	2,200 ³	410	10	<0.5	<0.5	<0.5	<0.5
07/23/04 ¹⁰	10.62	9.21	1.41	1,800 ³	400	6	<0.5	<0.5	<0.5	<0.5
10/22/04 ¹⁰	10.62	8.36	2.26	2,200 ³	150	2	<0.5	<0.5	<0.5	<0.5
01/28/05 ¹⁰	10.62	7.09	3.53	1,200 ³	55	8	<0.5	<0.5	<0.5	<0.5
04/26/05 ¹⁰	10.62	7.84	2.78	480 ³	<50	5	<0.5	<0.5	<0.5	<0.5
07/15/05 ¹⁰	10.62	8.12	2.50	610 ^{3,11}	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/14/05 ¹⁰	10.62	8.07	2.55	920 ^{3,12}	<50	10	<0.5	<0.5	<0.5	<0.5
01/12/06 ¹⁰	10.62	6.98	3.64	960 ^{3,12}	<50	6	<0.5	<0.5	<0.5	<0.5
04/13/06 ¹⁰	10.62	7.04	3.58	1,200 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/13/06 ¹⁰	10.62	7.13	3.49	1,200 ³	92	14	<0.5	<0.5	<0.5	<0.5
10/17/06 ¹⁰	10.62	7.64	2.98	990 ³	<50	3	<0.5	<0.5	<0.5	<0.5
01/16/07 ¹⁰	10.62	7.09	3.53	840 ³	83	4	<0.5	<0.5	<0.5	<0.5
04/17/07 ¹⁰	10.62	7.11	3.51	1,200 ³	57	<0.5	<0.5	<0.5	<0.5	<0.5
07/17/07 ¹⁰	10.62	7.41	3.21	1,100 ³	120	8	<0.5	<0.5	<0.5	<0.5
10/16/07 ¹⁰	10.62	7.55	3.07	750 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/16/08 ¹⁰	10.62	6.98	3.64	1,700 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/16/08 ¹⁰	10.62	7.36	3.26	1,100 ³	62	<0.5	<0.5	<0.5	<0.5	<0.5
07/16/08 ¹⁰	10.62	7.89	2.73	580 ³	93	3	<0.5	<0.5	<0.5	<0.5
10/15/08 ¹⁰	10.62	7.46	3.16	740 ³	56	0.7	<0.5	<0.5	0.8	<0.5

Table 1
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Chevron #206127 (Former Signal Oil Marine Terminal)
2301-2337 Blanding Avenue
Alameda, California

WELL ID/ DATE	TOC* (fl.)	DTW (ft.)	GWE (msl)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-1 (cont)										
01/21/09 ¹⁰	10.62	7.19	3.43	390 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/15/09 ¹⁰	10.62	6.93	3.69	1,400 ³	80	0.7	<0.5	<0.5	<0.5	<0.5
07/03/09 ¹⁰	13.49	8.08	5.41	1,300 ³	51	<0.5	<0.5	<0.5	<0.5	<0.5
10/01/09 ¹⁰	13.49	9.52	3.97	1,500 ³	86	<0.5	<0.5	<0.5	<0.5	<0.5
01/19/10 ¹⁰	13.49	7.64	5.85	340 ^{3,15}	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/26/10 ¹⁶	13.49	9.20	4.29	820 ³	66	<0.5	<0.5	<0.5	<0.5	<0.5
MW-2										
06/30/09 ¹	10.63	3.80	6.83	--	--	--	--	--	--	--
07/03/09 ¹⁴	10.63	3.91	6.72	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	--
10/01/09 ¹⁴	10.63	4.11	6.52	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	--
01/19/10 ¹⁴	10.63	3.90	6.73	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	--
04/26/10 ¹⁴	10.63	4.08	6.55	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	--
MW-3										
06/30/09 ¹	10.72	4.61	6.11	--	--	--	--	--	--	--
07/03/09 ¹⁴	10.72	4.57	6.15	170 ³	310	1	<0.5	2	<0.5	--
10/01/09 ¹⁴	10.72	5.22	5.50	1,000 ³	52	<0.5	<0.5	<0.5	<0.5	--
01/19/10 ¹⁴	10.72	4.84	5.88	1,800 ³	120	2	<0.5	<0.5	<0.5	--
04/26/10 ¹⁴	10.72	4.86	5.86	1,700 ³	170	2	<0.5	<0.5	<0.5	--
MW-4										
06/30/09 ¹	11.40	6.02	5.38	--	--	--	--	--	--	--
07/03/09 ¹⁴	11.40	5.85	5.55	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	--
10/01/09 ¹⁴	11.40	6.95	4.45	370 ³	<50	<0.5	<0.5	<0.5	<0.5	--
01/19/10 ¹⁴	11.40	6.22	5.18	110 ³	<50	<0.5	<0.5	<0.5	<0.5	--
04/26/10 ¹⁴	11.40	6.61	4.79	210 ^{5,17}	<50	<0.5	<0.5	<0.5	<0.5	--

Table 1
Groundwater Monitoring Data and Analytical Results
 Chevron #206127 (Former Signal Oil Marine Terminal)
 2301-2337 Blanding Avenue
 Alameda, California

WELL ID/ DATE	TQC* (ft.)	DTW (ft.)	GWE (msl)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-5										
06/30/09 ¹	10.50	5.20	5.30	--	--	--	--	--	--	--
07/03/09 ¹⁴	10.50	5.17	5.33	110 ³	930	33	2	0.6	3	--
10/01/09 ¹⁴	10.50	5.66	4.84	2,500 ³	1,800	57	3	0.9	5	--
01/19/10 ¹⁴	10.50	5.48	5.02	2,600 ³	2,200	74	4	1	5	--
04/26/10 ¹⁴	10.50	5.91	4.59	1,700 ³	2,200	94	4	2	5	--
CS-2										
07/30/01	--	--	--	140 ^{3,5}	<50	<0.50	<0.50	<0.50	<0.50	<2.5
10/08/01	--	--	--	53 ⁹	<50	<0.50	<0.50	<0.50	<1.5	<2.5
01/13/02	--	--	--	<50 ³	<50	<0.50	<0.50	<0.50	<1.5	<2.5
04/08/02	--	--	--	77 ³	<50	<0.50	<0.50	<0.50	<1.5	<2.5
07/31/02	--	--	--	<50 ³	<50	<0.50	<0.50	<0.50	<1.5	<2.5
10/15/02	--	--	--	<50 ³	<50	<0.50	<0.50	<0.50	<1.5	<2.5
01/14/03	--	--	--	<50 ³	<50	<0.50	<0.50	<0.50	<1.5	<2.5
04/15/03	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<1.5	<2.5
07/16/03 ¹⁰	--	--	--	<50 ³	<50	<0.5	0.7	<0.5	0.6	<0.5
10/18/03 ¹⁰	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/22/04 ¹⁰	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/23/04 ¹⁰	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/23/04 ¹⁰	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/22/04 ¹⁰	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/28/05 ¹⁰	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/26/05 ¹⁰	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/15/05 ¹⁰	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/14/05 ¹⁰	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/12/06 ¹⁰	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/13/06 ¹⁰	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/13/06 ¹⁰	--	--	--	140 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/17/06 ¹⁰	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/16/07 ¹⁰	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/17/07 ¹⁰	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron #206127 (Former Signal Oil Marine Terminal)
2301-2337 Blanding Avenue
Alameda, California

WELL ID/ DATE	TOC* (fl.)	DTW (fl.)	GWE (msl)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
CS-2 (cont)										
07/17/07 ¹⁰	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/16/07 ¹⁰	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/16/08 ¹⁰	--	--	--	85 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/16/08 ¹⁰	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/16/08 ¹⁰	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/15/08 ¹⁰	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/21/09 ¹⁰	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/15/09 ¹⁰	--	--	--	86 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/03/09 ¹⁰	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/01/09 ¹⁰	--	--	--	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/19/10 ¹⁰	--	--	--	210 ^{3,16}	<50	<0.5	<0.5	<0.5	<0.5	<0.5
TRIP BLANK										
TB-LB										
01/23/01	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
04/09/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
07/30/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
QA										
10/08/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
01/13/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
04/08/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
07/31/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
10/15/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
01/14/03	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
04/15/03	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5
07/16/03 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/18/03 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/22/04 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/23/04 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/23/04 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/22/04 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5

Table 1
Groundwater Monitoring Data and Analytical Results
 Chevron #206127 (Former Signal Oil Marine Terminal)
 2301-2337 Blanding Avenue
 Alameda, California

WELL ID/ DATE	TOC* (%)	DTW (ft.)	GWE (msl)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
QA (cont)										
01/28/05 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/26/05 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/15/05 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/14/05 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/12/06 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/13/06 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/13/06 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/17/06 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/16/07 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/17/07 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/17/07 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/16/07 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/16/08 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/16/08 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/16/08 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/15/08 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/21/09 ¹⁰	--	--	--	--	<50 ¹³	<0.5	<0.5	<0.5	<0.5	<0.5
04/15/09 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/03/09 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/01/09 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/19/10 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/26/10 ¹⁰	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron #206127 (Former Signal Oil Marine Terminal)
2301-2337 Blanding Avenue
Alameda, California

EXPLANATIONS:

TOC = Top of Casing
(ft.) = Feet

DTW = Depth to Water

GWE = Groundwater Elevation
(msl) = Mean sea level

TPH = Total Petroleum Hydrocarbons

DRO = Diesel Range Organics

GRO = Gasoline Range Organics

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl Tertiary Butyl Ether

(µg/L) = Micrograms per liter

-- = Not Measured/Not Analyzed

CS-2 = Creek Sample

QA = Quality Assurance/Trip Blank

* TOC elevations for all wells were surveyed on July 30, 2009, by Morrow Surveying. Vertical Datum is NAVD 88 from GPS observations. TOC elevations were surveyed on January 25, 2001, by Virgil Chavez Land Surveying. The benchmark used for the survey was a City of Alameda benchmark being a cut square at the centerline return, south corner of Oak and Blanding, (Benchmark Elevation = 8.236 feet, NGVD 29).

¹ Well development performed.

² Laboratory report indicates unidentified hydrocarbons <C16.

³ Analyzed with silica gel cleanup.

⁴ Laboratory report indicates weathered gasoline C6-C12.

⁵ Laboratory report indicates discrete peaks.

⁶ Laboratory report indicates diesel C9-C24 + unidentified hydrocarbons <C16.

⁷ Laboratory report indicates gasoline C6-C12.

⁸ Laboratory report indicates unidentified hydrocarbons C9-C24.

⁹ Analysis performed without silica gel cleanup although was requested on the Chain of Custody.

¹⁰ BTEX and MTBE by EPA Method 8260.

¹¹ Laboratory report indicates the observed sample pattern is not typical of #2 fuel/diesel. It elutes in the DRO range later than #2 fuel.

¹² Laboratory report indicates the observed sample pattern includes #2 fuel/diesel and an additional pattern which elutes later in the DRO range.

¹³ Laboratory report indicates the original analysis was performed on an instrument where the ending calibration standard failed the method criteria. The sample was originally analyzed approximately 60 minutes after the LCS/LCSD. The LCS/LCSD showed good GRO recovery and the surrogate recovery for this sample was 85%. The sample was reanalyzed from a vial with headspace since only 1 vial was submitted. The results for the original and the reanalysis were similar. The reanalysis was reported.

¹⁴ BTEX by EPA Method 8260.

¹⁵ Laboratory report indicates DRO was detected in the method blank at a concentration of 38 µg/L. Results from the reextraction are within limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

¹⁶ Laboratory report indicates DRO was detected in the method blank at a concentration of 38 µg/L. Results from the reextraction are within limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. The DRO result for the reextract is 96 µg/L.

¹⁷ Laboratory report indicates DRO was detected in the method blank at a concentration of 47 µg/L. Results from the reextraction are within limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

Table 2
Groundwater Analytical Results - Metals
 Chevron #206127 (Former Signal Oil Marine Terminal)
 2301-2337 Blanding Avenue
 Alameda, California

WELL ID/ DATE	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Lead (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Silver (µg/L)	Thallium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)	Mercury (µg/L)
MW-2 07/03/09	<9.7	<7.2	28.1	<1.4	<2.0	14.6	<2.1	<2.7	<6.9	<4.9	10.6	<8.9	<2.3	<14.0	12.6	11.6	<0.056
MW-3 07/03/09	<9.7	<7.2	143	<1.4	<2.0	8.5	<2.1	3.3	<6.9	<4.9	7.8	<8.9	<2.3	<14.0	13.8	18.8	<0.056
MW-4 07/03/09	<9.7	<7.2	83.5	<1.4	<2.0	10.0	<2.1	<2.7	<6.9	<4.9	4.5	<8.9	<2.3	<14.0	6.3	15.8	<0.056
MW-5 07/03/09	<9.7	32.7	148	<1.4	<2.0	<3.4	<2.1	3.1	<6.9	<4.9	3.6	<8.9	<2.3	<14.0	<2.5	19.2	<0.056

EXPLANATIONS

(µg/L) = Micrograms per liter

ANALYTICAL METHODS:

Metals analyzed by EPA Method SW-846 6010B
 Mercury analyzed by Method SW-7470A