



Mike Bauer
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Management Company**
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October 2, 2012

Mr. Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: Former Signal Oil Marine Storage and Distribution Facility
(Former Chevron Bulk Plant 20-6127)
2301-2311 Blanding Avenue
Alameda, California
LOP Case RO0002466

RECEIVED

5:28 pm, Oct 30, 2012

Alameda County
Environmental Health

Dear Mr. Wickham:

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 *Second Semi-Annual 2012 Groundwater Monitoring and Sampling Report* for the referenced facility, prepared on behalf of Chevron by Conestoga-Rovers & Associates. I declare under penalty of perjury that the foregoing is true and correct.

Please feel free to contact me at (714) 671-3207 if you have any questions.

Sincerely,

A handwritten signature in blue ink that reads "Mike Bauer".

Mike Bauer
Project Manager



**CONESTOGA-ROVERS
& ASSOCIATES**

10969 Trade Center Drive
Rancho Cordova, California 95670
Telephone: (916) 889-8900 Fax: (916) 889-8999
<http://www.craworld.com>

October 2, 2012

Reference No. 631916

Mr. Jerry Wickham
Alameda County Environmental Health (ACEH)
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: Second Semi-Annual 2012
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 Mr. Wickham:

Conestoga-Rovers & Associates (CRA) is submitting this *Second Semi-Annual 2012 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 August 3, 2012 *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 Figures 2 through 5. Well construction specifications are summarized in Table 2. Lancaster Laboratories' August 7 and 9, 2012 *Analytical Results* reports are included as Attachment B. Historical groundwater monitoring and sampling data are included as Attachment C.

RESULTS OF SECOND SEMI-ANNUAL 2012 EVENT

On July 23, 2012, G-R monitored and sampled site wells per the established schedule, except for MW-2 and MW-4, which were inaccessible due to cars parked over them. In addition, inadequate packaging of some sample containers at the laboratory resulted in analysis of total petroleum hydrocarbons as diesel (TPHd) samples only.

As a result, G-R returned to the site on July 27, 2012 and monitored and sampled all site wells. During re-sampling, G-R inadvertently missed collection of a TPHd sample from previously inaccessible wells MW-2 and MW-4, so TPHd results are not available for MW-2 and MW-4 for this event. No TPHd was detected in wells MW-2 and MW-4 using silica gel cleanup during the previous first semi-annual 2012 event.

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October 2, 2012

Reference No. 631916

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Results of the current monitoring event indicate the following:

- Groundwater Flow Direction Northeast
- Hydraulic Gradient 0.01
- Approximate Depth to Water 3.5 to 8.5 feet below grade

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

TABLE A GROUNDWATER ANALYTICAL DATA						
<i>Well ID</i>	<i>TPHd¹</i> <i>(µg/L)</i>	<i>TPHg</i> <i>(µg/L)</i>	<i>Benzene</i> <i>(µg/L)</i>	<i>Toluene</i> <i>(µg/L)</i>	<i>Ethylbenzene</i> <i>(µg/L)</i>	<i>Total Xylenes</i> <i>(µg/L)</i>
<i>ESLs</i>	100	100	1	40	30	20
MW-1RA	6,000/1,000	4,800	640	9	20	7
MW-1RB	2,700/<50	990	89	1	0.8	0.7
MW-2	NA	<50	<0.5	<0.5	<0.5	<0.5
MW-3	1,200/<50	<50	<0.5	<0.5	<0.5	<0.5
MW-4	NA	<50	<0.5	<0.5	<0.5	<0.5
MW-5	4,300/380	1,800	48	3	0.7	4
MW-6	1,600/73	450	9	<0.5	<0.5	0.6
ESL Environmental screening level ¹ TPHd without and with 10 gram silica gel cleanup Concentrations in Bold exceed their respective ESL						

CONCLUSIONS AND RECOMMENDATIONS

Results of this current quarterly monitoring and sampling are consistent with results from past quarters and indicate the following:

- The highest TPHd, TPHg, and benzene concentrations in groundwater are in the area of the former fuel pumps, and north of the former aboveground storage tanks (Figures 3 through 5).
- Analysis of TPHd using a 10 gram silica gel column cleanup resulted in a significant reduction in dissolved TPHd concentrations as compared to samples analyzed without the silica gel cleanup. Only the samples from MW-1RA and MW-5 were above the ESL using silica gel cleanup.



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October 2, 2012

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

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

ANTICIPATED FUTURE ACTIVITIES

Groundwater Monitoring

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

Piezometer Installation and Tidal Influence Study

CRA is currently permitting and scheduling the installation of two piezometers and performance of a tidal influence study pursuant to ACEH correspondence dated August 16, 2012. Work is tentatively scheduled to begin near the end of September 2012.



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& ASSOCIATES**

October 2, 2012

Reference No. 631916

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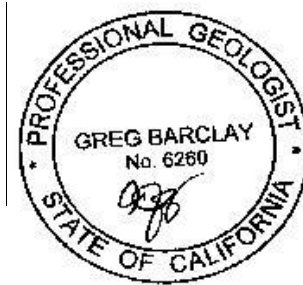
Please contact Brian Silva at (916) 889-8908 if you have any questions or require additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Brian Silva

Greg Barclay, PG 6260



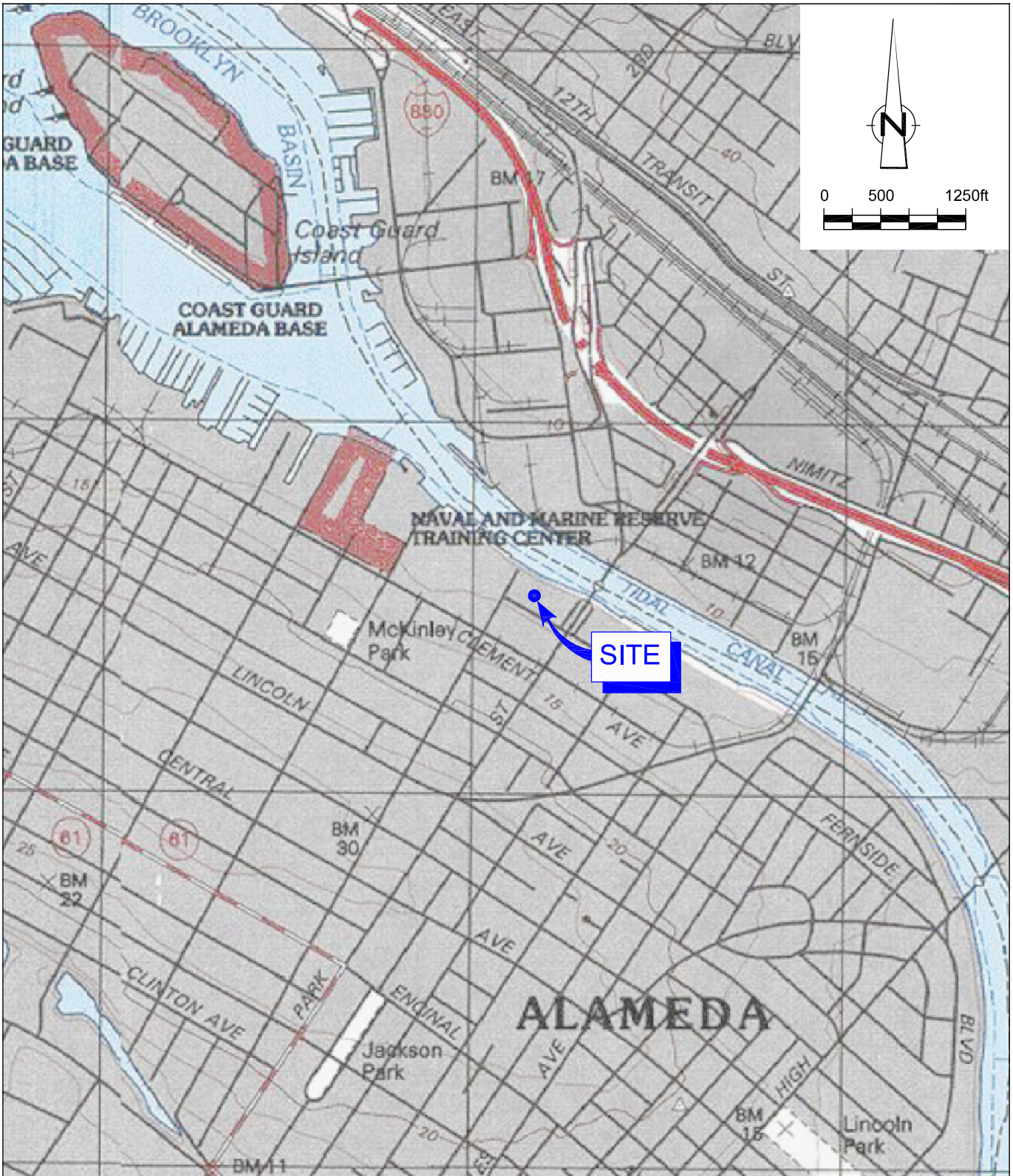
BS/cw/27

Encl.

Figure 1	Vicinity Map
Figure 2	Groundwater Elevation Contour Map
Figure 3	TPHd Concentration Contour Map
Figure 4	TPHg Concentration Contour Map
Figure 5	Benzene Concentration Contour Map
Table 1	Groundwater Monitoring and Sampling Data
Table 2	Well Construction Specifications
Attachment A	Monitoring Data Package
Attachment B	Laboratory Analytical Reports
Attachment C	Historical Groundwater Monitoring and Sampling Data

cc: Mr. Mike Bauer, Chevron (*electronic only*)
Ms. Julie Beck Ball
Mr. Peter Reinhold Beck
Mr. Monroe Wingate
Mr. Tom Foley

FIGURES

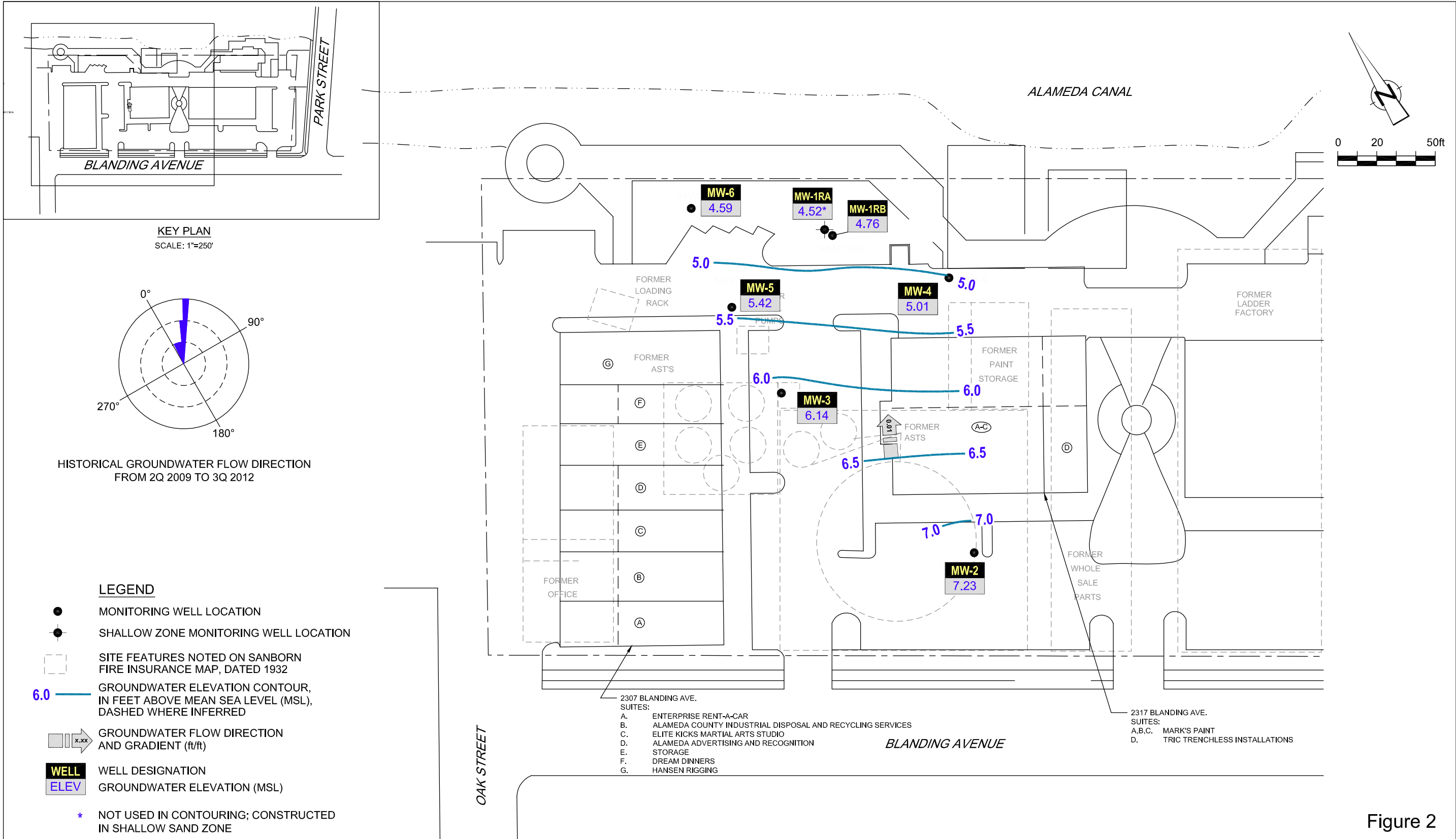


SOURCE: TOPOI MAPS.

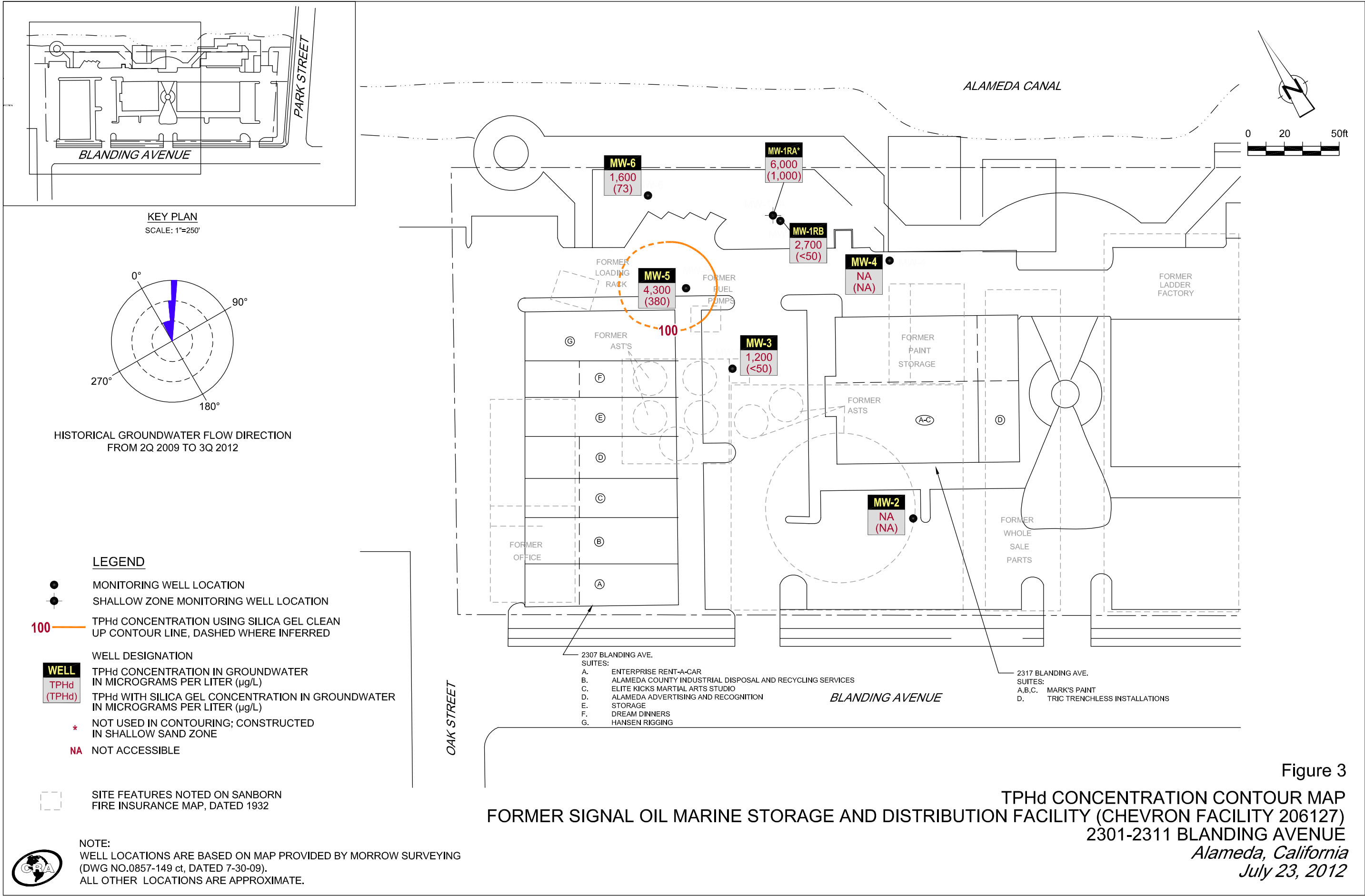
Figure 1

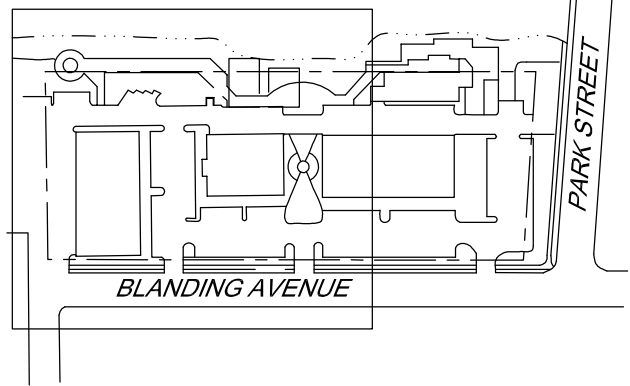
VICINITY MAP
 FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY
 (CHEVRON FACILITY 206127)
 2301-2311 BLANDING AVENUE
 Alameda, California



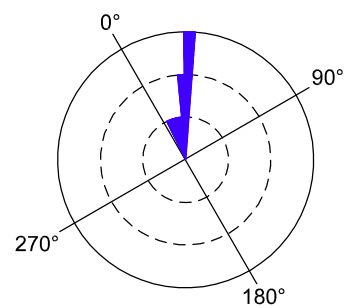


NOTE:
WELL LOCATIONS ARE BASED ON MAP PROVIDED BY MORROW SURVEYING (DWG NO.0857-149 ct, DATED 7-30-09). ALL OTHER LOCATIONS ARE APPROXIMATE.





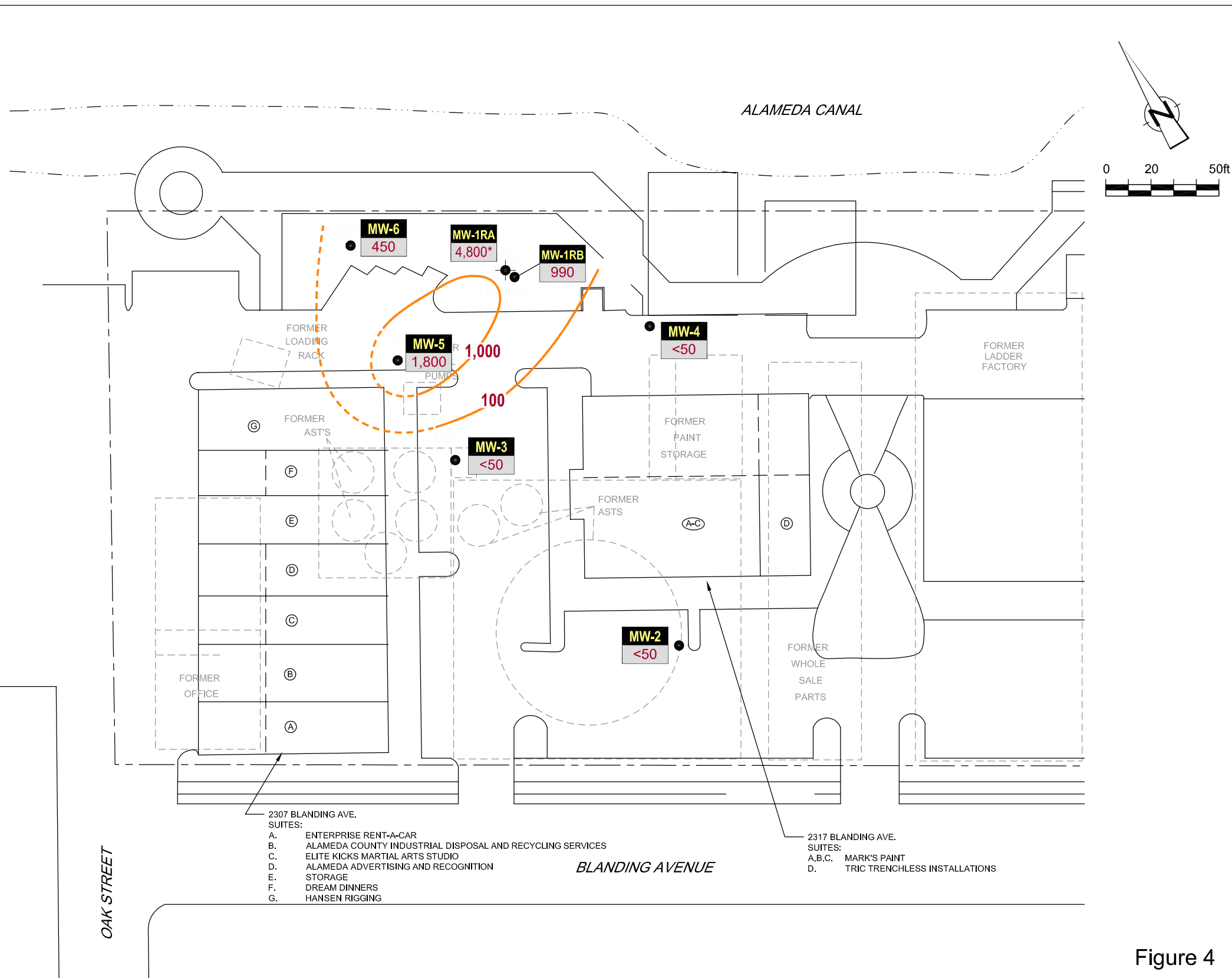
KEY PLAN
SCALE: 1"=250'



HISTORICAL GROUNDWATER FLOW DIRECTION
FROM 2Q 2009 TO 3Q 2012

LEGEND

- MONITORING WELL LOCATION
- SHALLOW ZONE MONITORING WELL LOCATION
- 100 ——— TPHg CONCENTRATION CONTOUR LINE, DASHED WHERE INFERRED
- WELL**
TPHg WELL DESIGNATION
TPHg CONCENTRATION IN GROUNDWATER IN MICROGRAMS PER LITER (µg/L)
- * NOT USED IN CONTOURING; CONSTRUCTED IN SHALLOW SAND ZONE
- SITE FEATURES NOTED ON SANBORN FIRE INSURANCE MAP, DATED 1932



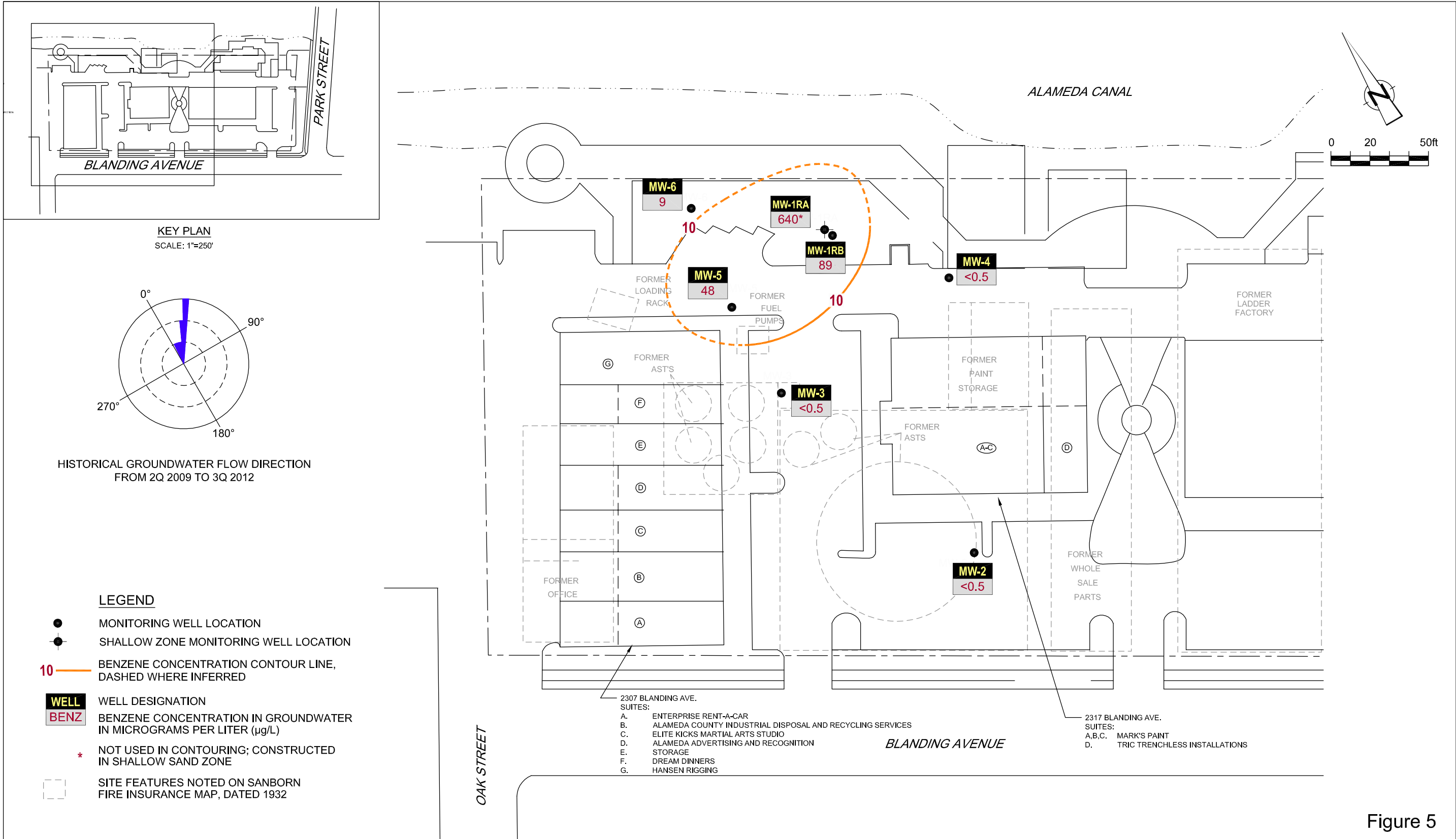
- 2307 BLANDING AVE. SUITES:
- A. ENTERPRISE RENT-A-CAR
 - B. ALAMEDA COUNTY INDUSTRIAL DISPOSAL AND RECYCLING SERVICES
 - C. ELITE KICKS MARTIAL ARTS STUDIO
 - D. ALAMEDA ADVERTISING AND RECOGNITION
 - E. STORAGE
 - F. DREAM DINNERS
 - G. HANSEN RIGGING

- 2317 BLANDING AVE. SUITES:
- A,B,C. MARK'S PAINT
 - D. TRIC TRENCHLESS INSTALLATIONS

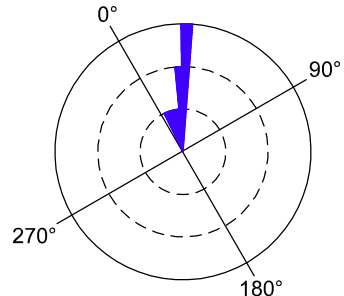
Figure 4
TPHg CONCENTRATION CONTOUR MAP
FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY (CHEVRON FACILITY 206127)
2301-2311 BLANDING AVENUE
Alameda, California
July 27, 2012

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.





KEY PLAN
SCALE: 1"=250'



HISTORICAL GROUNDWATER FLOW DIRECTION
FROM 2Q 2009 TO 3Q 2012

LEGEND

- MONITORING WELL LOCATION
- SHALLOW ZONE MONITORING WELL LOCATION
- 10 — BENZENE CONCENTRATION CONTOUR LINE, DASHED WHERE INFERRED
- WELL**
BENZ WELL DESIGNATION
- BENZ** BENZENE CONCENTRATION IN GROUNDWATER IN MICROGRAMS PER LITER (μg/L)
- * NOT USED IN CONTOURING; CONSTRUCTED IN SHALLOW SAND ZONE
- SITE FEATURES NOTED ON SANBORN FIRE INSURANCE MAP, DATED 1932

- 2307 BLANDING AVE. SUITES:
- A. ENTERPRISE RENT-A-CAR
 - B. ALAMEDA COUNTY INDUSTRIAL DISPOSAL AND RECYCLING SERVICES
 - C. ELITE KICKS MARTIAL ARTS STUDIO
 - D. ALAMEDA ADVERTISING AND RECOGNITION
 - E. STORAGE
 - F. DREAM DINNERS
 - G. HANSEN RIGGING

- 2317 BLANDING AVE. SUITES:
- A,B,C. MARK'S PAINT
 - D. TRIC TRENCHLESS INSTALLATIONS

Figure 5
BENZENE CONCENTRATION CONTOUR MAP
FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY (CHEVRON FACILITY 206127)
2301-2311 BLANDING AVENUE
Alameda, California
July 27, 2012

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.



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				
					TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	MTBE by SW8260
	Units	ft	ft	ft-amsl	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	07/27/2012⁴	13.02	8.50	4.52	-	-	4,800	640	9	20	7	-
MW-1RB	10/28/2010	13.21	9.00	4.21	-	1,600	650	3	<0.5	0.8	<0.5	-
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	07/27/2012⁴	13.21	8.45	4.76	-	-	990	89	1	0.8	0.7	-

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-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	-	
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-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	-	
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	-	

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				
					TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	MTBE by SW8260
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-3	07/23/2012	10.72	4.89	5.83	1,200	<50	-	-	-	-	-	-
MW-3	07/27/2012⁴	10.72	4.58	6.14	-	-	<50	<0.5	<0.5	<0.5	<0.5	-
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	-
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	-
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	-

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				
					TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	MTBE by SW8260
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
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	07/27/2012⁴	10.50	5.08	5.42	-	-	1,800	48	3	0.7	4	-
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	07/27/2012⁴	12.98	8.39	4.59	-	-	450	9	<0.5	<0.5	0.6	-
QA	07/21/2010	-	-	-	-	-	<50	<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
QA	10/28/2010	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-
QA	01/14/2011	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-
QA	04/19/2011	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-
QA	06/30/2011	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-
QA	10/14/2011	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-
QA	01/18/2012	-	-	-	-	-	<50	<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					
					TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	MTBE by SW8260	
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
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	-

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

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				
					TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	MTBE by SW8260
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L

square at the centerline return, south corner of Oak and Blanding, (Benchmark Elevation = 8.236 feet, NGVD 29).

- 1 Destroyed and re-installed as MW-1RB.
- 2 Monitored only for the 10/28/10 Special Event
- 3 Inaccessible.
- 4 Due ro 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.

**WELL CONSTRUCTION SPECIFICATIONS
FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY
(CHEVRON BULK PLANT 206127)
2301-2311 BLANDING AVENUE
ALAMEDA, CALIFORNIA**

<i>Well ID</i>	<i>Date Installed</i>	<i>TOC</i>	<i>Total Depth (fbg)</i>	<i>Casing Diameter¹ (inches)</i>	<i>Slot Size (inches)</i>	<i>Screen Interval (fbg)</i>	<i>Filter Pack (fbg)</i>	<i>Status</i>
<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	Destroyed
VP-11	7/17/2009	NS	0.5	0.25	NA	NA	NA	Destroyed
VP-12	7/22/2009	NS	0.5	0.25	NA	NA	NA	Destroyed
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

August 3, 2012
G-R #386498

TO: Mr. Brian Silva
Conestoga-Rovers & Associates
10969 Trade Center Drive, Suite 107
Rancho Cordova, California 95670

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6747 Sierra Court, Suite J
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 Third Quarter Event of July 23, 2012 Special Event of July 27, 2012

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.

trans/206127

WELL CONDITION STATUS SHEET

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

Job #: 386498
 Event Date: 7/23/12
 Sampler: JX

WELL ID	Vault Frame Condition	Gasket/O-Ring (M) Missing (R) Replaced	BOLTS (M) Missing (R) Replaced	Bolt Flanges B=Broken S=Stripped R=Retap	APRON Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y/N	REPLACE CAP Y/N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Y/N
MW-3	ok	—————	—————	—————	—————	—————	—————	N	N	12" emco	✓
MW-5	ok	—————	—————	—————	—————	—————	—————	↓	↓	↓ Parted over ↓	↓
MW-2	ok	—————	—————	—————	—————	—————	↓	↓			
MW-4	ok	—————	—————	—————	—————	—————	↓	↓			
MW-6	ok	—————	—————	1XB	ok	—————	Y	Y ^{2"}	8" MORRISON		
MW-12A	ok	—————	—————	—————	—————	—————	N	N	↓	↓	
MW-12B	ok	—————	—————	—————	—————	—————	N	N	↓	↓	

Comments _____

WELL CONDITION STATUS SHEET

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

Job #: 386498
 Event Date: 7-27-12
 Sampler: FT

WELL ID	Vault Frame Condition	Gasket/O-Ring (M) Missing (R) Replaced	BOLTS (M) Missing (R) Replaced	Bolt Flanges B=Broken S=Stripped R=Retap	APRON Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y/N	REPLACE CAP Y/N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Y/N
MW-1RA	OK		→			→	→			Moumisa 8" / 2	
MW-1RB	OK		→			→	→			" "	
MW-2	OK		→			→	→			Emco 12" / 2	
MW-3	OK		→			→	→				
MW-4	OK		→			→	→				
MW-5	OK		→			→	→				
MW-6	OK		→	B=1	OK	→	→	↓	↓	Moumisa 8" / 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.

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 Evergreen Oil located in Newark, California.

CHEVRON #206127
(Former Signal Oil Marine Terminal)
Alameda, CA

THIRD QUARTER EVENT OF
July 23, 2012



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #206127 Job Number: 386498
 Site Address: 2301-2337 Blanding Avenue Event Date: 7/23/12 (inclusive)
 City: Alameda, CA Sampler: JR

Well ID MW-1RA

Date Monitored: 7/23/12

Well Diameter 2

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 12.67 ft.

Depth to Water 7.92 ft. Check if water column is less than 0.50 ft.

4.75 xVF .17 = .80 x3 case volume = Estimated Purge Volume: 2.42 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.87

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer X
 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: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____

Start Time (purge): 1100 Weather Conditions: Clear
 Sample Time/Date: 1145 7/23/12 Water Color: cloudy Odor: GIN L-140
 Approx. Flow Rate: _____ gpm. Sediment Description: L-140
 Did well de-water? W If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 8.61

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - <u>S</u>)	Temperature (C / F)	D.O. (mg/L)	ORP (mv)
<u>1104</u>	<u>1</u>	<u>7.82</u>	<u>754</u>	<u>20.7</u>		
<u>1108</u>	<u>2</u>	<u>7.60</u>	<u>779</u>	<u>20.8</u>		
<u>1112</u>	<u>2.5</u>	<u>7.37</u>	<u>805</u>	<u>20.9</u>		

LABORATORY INFORMATION

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

COMMENTS: _____

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



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #206127 Job Number: 386498
 Site Address: 2301-2337 Blanding Avenue Event Date: 7/23/12 (inclusive)
 City: Alameda, CA Sampler: JH

Well ID MW-1RB

Date Monitored: 7/23/12

Well Diameter 2

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 19.96 ft.

Depth to Water 8.96 ft.

Check if water column is less than 0.50 ft.

11.00 xVF .17 = 1.87 x3 case volume = Estimated Purge Volume: 5.61 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.16

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer X
 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: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____

Start Time (purge): 1205 Weather Conditions: Clear
 Sample Time/Date: 1250 / 7/23/12 Water Color: cloudy Odor: GIN L-116
 Approx. Flow Rate: --- gpm. Sediment Description: L-116
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 10.04

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm (µS))	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1210</u>	<u>2</u>	<u>7.57</u>	<u>552</u>	<u>20.8</u>	_____	_____
<u>1215</u>	<u>4</u>	<u>7.50</u>	<u>581</u>	<u>21.1</u>	_____	_____
<u>1220</u>	<u>5.5</u>	<u>7.26</u>	<u>603</u>	<u>20.9</u>	_____	_____

LABORATORY INFORMATION

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

COMMENTS: _____

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job Number: 386498
 Event Date: 7/23/12 (inclusive)
 Sampler: JH

Well ID: MW-2
 Well Diameter: 2
 Total Depth: 15.60 ft.
 Depth to Water: - ft.

Date Monitored: 7/23/12

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.

- xVF - = - x3 case volume = Estimated Purge Volume: - gal.

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

Purge Equipment:

- Disposable Bailer _____
- Stainless Steel Bailer _____
- Stack Pump _____
- Suction Pump _____
- Grundfos _____
- 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:	_____ gal
Amt Removed from Well:	_____ gal
Water Removed:	_____ gal

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

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	x 1 liter ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN/TPH-DRO (8016)

COMMENTS: Truck parked over well, unable to locate owner

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



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #206127 Job Number: 386498
 Site Address: 2301-2337 Blanding Avenue Event Date: 7/23/12 (inclusive)
 City: Alameda, CA Sampler: JH

Well ID MW-3
 Well Diameter 2
 Total Depth 17.90 ft.
 Depth to Water 4.89 ft.
13.01 xVF .17 = 2.21

Date Monitored: 7/23/12

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.

x3 case volume = Estimated Purge Volume: 6.63 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.49

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer X
 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: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____

Start Time (purge): 0830 Weather Conditions: cloudy
 Sample Time/Date: 0905 / 7/23/12 Water Color: cloudy Odor: Y10
 Approx. Flow Rate: - gpm. Sediment Description: L.H.
 Did well de-water? no If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 5.40

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)
<u>0835</u>	<u>2</u>	<u>7.82</u>	<u>368</u>	<u>21.5</u>		
<u>0840</u>	<u>4</u>	<u>7.65</u>	<u>391</u>	<u>21.2</u>		
<u>0846</u>	<u>6.5</u>	<u>7.49</u>	<u>405</u>	<u>21.1</u>		

LABORATORY INFORMATION

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

COMMENTS: 12" emc

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



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #206127 Job Number: 386498
 Site Address: 2301-2337 Blanding Avenue Event Date: 7/23/12 (inclusive)
 City: Alameda, CA Sampler: JH

Well ID MW-4
 Well Diameter 2
 Total Depth 20.20 ft.
 Depth to Water - ft.

Date Monitored: 7/23/12

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.

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

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 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: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____

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

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

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

COMMENTS: well partial over, unable to locate DRIVER.

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #206127 Job Number: 386498
 Site Address: 2301-2337 Blanding Avenue Event Date: 7/23/12 (inclusive)
 City: Alameda, CA Sampler: JH

Well ID MW-5

Date Monitored: 7/23/12

Well Diameter 2

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 17.93 ft.

Depth to Water 5.29 ft.

Check if water column is less than 0.50 ft.

12.64 xVF .17 = 2.14 x3 case volume = Estimated Purge Volume: 6.44 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.81

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer X
 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: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____

Start Time (purge): 0930 Weather Conditions: clear
 Sample Time/Date: 1010 / 7/23/12 Water Color: cloudy Odor: YIB
 Approx. Flow Rate: _____ gpm. Sediment Description: Loth
 Did well de-water? N If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 6.57

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - (uS))	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>0935</u>	<u>2</u>	<u>7.43</u>	<u>470</u>	<u>21.9</u>		
<u>0940</u>	<u>4</u>	<u>7.40</u>	<u>443</u>	<u>21.2</u>		
<u>0946</u>	<u>65</u>	<u>7.28</u>	<u>468</u>	<u>21.1</u>		

LABORATORY INFORMATION

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

COMMENTS: 12" emcu

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



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #206127 Job Number: 386498
 Site Address: 2301-2337 Blanding Avenue Event Date: 7/23/12 (inclusive)
 City: Alameda, CA Sampler: 311

Well ID: MW-6 Date Monitored: 7/23/12
 Well Diameter: 2
 Total Depth: 20.04 ft.
 Depth to Water: 9.69 ft. Check if water column is less than 0.50 ft.
10.35 xVF .17 = 1.75 x3 case volume = Estimated Purge Volume: 5.27 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.76

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 X
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer X
 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: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____

Start Time (purge): 1315 Weather Conditions: Clear
 Sample Time/Date: 1400 / 7/23/12 Water Color: cloudy Odor: Y/N LWBV
 Approx. Flow Rate: — gpm. Sediment Description: LWBV
 Did well de-water? no If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 11.05

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm - US)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1320</u>	<u>1.5</u>	<u>7.59</u>	<u>565</u>	<u>21.1</u>		
<u>1325</u>	<u>3.5</u>	<u>7.40</u>	<u>579</u>	<u>21.5</u>		
<u>1330</u>	<u>5.0</u>	<u>7.32</u>	<u>590</u>	<u>21.7</u>		

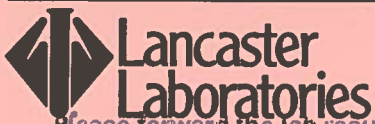
LABORATORY INFORMATION

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>LANCASTER</u>	<u>TPH-GRO(8015)/BTEX(8260)</u>
	<u>2</u> x 1 liter ambers	<u>YES</u>	<u>NP</u>	<u>LANCASTER</u>	<u>TPH-DRO w/sgc COLUMN/TPH-DRO (8015)</u>

COMMENTS:

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

Chevron California Region Analysis Request/Chain of Custody



16 AMBER
072412-42

For Lancaster Laboratories use only

Acct. #: _____ Sample #: _____ Group #: **010058**

Please forward the lab results directly to the Lead Consultant and cc: G-R.

Facility #: SS#206127-OML G-R#386498 Global ID#T06019744728 Site Address: 2301-2337 BLANDING AVENUE, ALAMEDA, CA Chevron PM: MB Lead Consultant: CRASB Silva Consultant/Office: G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568 Consultant Prj. Mgr.: Deanna L. Harding (deanna@grinc.com) Consultant Phone #: 925-551-7555 Fax #: 925-551-7899 Sampler: <u>Jim Hazz</u>				Matrix <input type="checkbox"/> Potable <input type="checkbox"/> NPDES		Analyses Requested										Preservative Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other <input type="checkbox"/> J value reporting needed <input checked="" type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds 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				Total Number of Containers		Preservation Codes <input type="checkbox"/> BTEX + 4-DBP 8260 <input checked="" type="checkbox"/> 8021 <input type="checkbox"/> TPH 8015 MOD GRO <input checked="" type="checkbox"/> TPH 8015 MOD DRO <input checked="" type="checkbox"/> Silica Gel Cleanup <input checked="" type="checkbox"/> 8260 full scan <u>TPH-DRO (6015)</u> Oxygenates _____ Total Lead Method _____ Dissolved Lead Method _____										Comments / Remarks TPH-DRO WITH SILICA GEL REQUESTING 10 GRAM COLUMN CLEAN-UP WITH CAPRIC ACID REVERSE SURROGATE							
Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil <input type="checkbox"/> Air <input type="checkbox"/>	BTEX + 4-DBP 8260 <input checked="" type="checkbox"/> 8021	TPH 8015 MOD GRO	TPH 8015 MOD DRO <input checked="" type="checkbox"/> Silica Gel Cleanup	8260 full scan <u>TPH-DRO (6015)</u>	Oxygenates	Total Lead Method	Dissolved Lead Method										
QA	7/23/12	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
MW-18A	↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
MW-18B	↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
MW-3	↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
MW-5	↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
MW-6	↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										

Turnaround Time Requested (TAT) (please circle) <input checked="" type="checkbox"/> STD. TAT 72 hour 48 hour 24 hour 4 day 5 day				Relinquished by: _____ Date: 7/23/12 Time: 1600		Received by: <u>A. Salazar</u> Date: 23 JUL 12 Time: 1236	
Data Package Options (please circle if required) QC Summary Type I - Full EDF/EDD Type VI (Raw Data) <input type="checkbox"/> Coelt Deliverable not needed WIP (RWQCB) Disk				Relinquished by: _____ Date: _____ Time: _____		Received by: _____ Date: _____ Time: _____	
Relinquished by Commercial Carrier: UPS FedEx Other _____				Received by: _____ Date: _____ Time: _____		Temperature Upon Receipt _____ C° Custody Seals Intact? Yes No	

CHEVRON #206127
(Former Signal Oil Marine Terminal)
Alameda, CA

SPECIAL EVENT OF
July 27, 2012



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #206127 Job Number: 386498
 Site Address: 2301-2337 Blanding Avenue Event Date: 7-27-12 (inclusive)
 City: Alameda, CA Sampler: FT

Well ID MW-1RA

Date Monitored: 7-27-12

Well Diameter 2

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 12.67 ft.

Depth to Water 8.50 ft.

Check if water column is less than 0.50 ft.

4.17 x VF .17 = .70 x3 case volume = Estimated Purge Volume: 2.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.33

Purge Equipment:

Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 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: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____

Start Time (purge): 1350 Weather Conditions: SUNNY
 Sample Time/Date: 1535 7-27-12 Water Color: Gray Odor: Y/O
 Approx. Flow Rate: _____ gpm. Sediment Description: S-SILT
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 9.30

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm) <u>(US)</u>	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)
<u>1353</u>	<u>.75</u>	<u>6.86</u>	<u>754</u>	<u>17.5</u>	_____	_____
<u>1356</u>	<u>1.5</u>	<u>6.82</u>	<u>760</u>	<u>17.4</u>	_____	_____
<u>1400</u>	<u>2.0</u>	<u>6.79</u>	<u>768</u>	<u>17.2</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1RA</u>	<u>6 x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-GRO(8015)/BTEX(8260)</u>

COMMENTS: SLOW RECOVERY
MONITOR 8" OIL

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #206127 Job Number: 386498
 Site Address: 2301-2337 Blanding Avenue Event Date: 7-27-12 (inclusive)
 City: Alameda, CA Sampler: FT

Well ID MW-1RB

Date Monitored: 7-27-12

Well Diameter 2

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 19.96 ft.

Depth to Water 8.45 ft.

Check if water column is less than 0.50 ft.

11.51 xVF .17 = 1.95 x3 case volume = Estimated Purge Volume: 6.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.75

Purge Equipment:

Disposable Bailer

Stainless Steel Bailer _____

Stack Pump _____

Suction Pump _____

Grundfos _____

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: _____ gal

Amt Removed from Well: _____ gal

Water Removed: _____

Start Time (purge): 1415 Weather Conditions: SUNNY

Sample Time/Date: 1525 / 7-27-12 Water Color: Grey Odor: Y / N

Approx. Flow Rate: _____ gpm. Sediment Description: S. SILTY

Did well de-water? yes If yes, Time: 1419 Volume: 2.0 gal. DTW @ Sampling: 10.50

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - <u>IS</u>)	Temperature (°/ F)	D.O. (mg/L)	ORP (mV)
<u>1419</u>	<u>2.0</u>	<u>7.04</u>	<u>674</u>	<u>17.8</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1RB</u>	<u>6 x vov vial</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-GRO(8015)/BTEX(8260)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS:

Momusa 8" or

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



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #206127 Job Number: 386498
 Site Address: 2301-2337 Blanding Avenue Event Date: 7-27-12 (inclusive)
 City: Alameda, CA Sampler: FR

Well ID: MW-2 Date Monitored: 7-27-12
 Well Diameter: 2
 Total Depth: 15.60 ft.
 Depth to Water: 3.40 ft. Check if water column is less than 0.50 ft.
12.20 xVF .17 = 2.07 x3 case volume = Estimated Purge Volume: 6.0 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 5.84

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 _____
 Suction Pump _____
 Grundfos _____
 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: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____

Start Time (purge): 1200 Weather Conditions: SUNNY
 Sample Time/Date: 1222 / 7-27-12 Water Color: Grey Odor: Y / N
 Approx. Flow Rate: _____ gpm. Sediment Description: SILTY
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 388

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - FS)	Temperature (°/ F)	D.O. (mg/L)	ORP (mV)
<u>1204</u>	<u>2.0</u>	<u>7.06</u>	<u>656</u>	<u>19.6</u>		
<u>1208</u>	<u>4.0</u>	<u>7.01</u>	<u>662</u>	<u>19.9</u>		
<u>1212</u>	<u>6.0</u>	<u>6.97</u>	<u>670</u>	<u>21.0</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>6 x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-GRO(8015)/BTEX(8260)</u>

COMMENTS: EMCO 12" OK

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



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #206127 Job Number: 386498
 Site Address: 2301-2337 Blanding Avenue Event Date: 7-27-12 (inclusive)
 City: Alameda, CA Sampler: FR

Well ID: MW-3 Date Monitored: 7-27-12
 Well Diameter: 2
 Total Depth: 17.90 ft.
 Depth to Water: 4.58 ft. Check if water column is less than 0.50 ft.
13.32 xVF .17 = 2.26 x3 case volume = Estimated Purge Volume: 7.0 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.24

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 _____
 Suction Pump _____
 Grundfos _____
 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 / Adsorbent Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____

Start Time (purge): 1230 Weather Conditions: Sunny
 Sample Time/Date: 1255 / 7-28-12 Water Color: gray Odor: Y / N
 Approx. Flow Rate: / gpm. Sediment Description: SILTY
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 4.65

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - FS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1235</u>	<u>2.5</u>	<u>7.18</u>	<u>672</u>	<u>20.3</u>		
<u>1240</u>	<u>5.0</u>	<u>7.12</u>	<u>665</u>	<u>20.1</u>		
<u>1245</u>	<u>7.0</u>	<u>7.08</u>	<u>659</u>	<u>19.9</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>6 x vov vial</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-GRO(8015)/BTEX(8260)</u>

COMMENTS: EMCO 12" OIL

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



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #206127 Job Number: 386498
 Site Address: 2301-2337 Blanding Avenue Event Date: 7-27-12 (inclusive)
 City: Alameda, CA Sampler: FR

Well ID: MW-4 Date Monitored: 7-27-12
 Well Diameter: 2
 Total Depth: 20.20 ft.
 Depth to Water: 6.39 ft. Check if water column is less than 0.50 ft.
13.81 xVF .17 = 2.34 x3 case volume = Estimated Purge Volume: 7.0 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.15

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 _____
 Suction Pump _____
 Grundfos _____
 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: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____

Start Time (purge): _____ Weather Conditions: SUNNY
 Sample Time/Date: 1515 7-27-12 Water Color: CLEAR Odor: Y10
 Approx. Flow Rate: _____ gpm. Sediment Description: NONE
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: _____

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)

COMMENTS: EMCO 12" OK
(LOW B SAMPLE CAN PANKED OVER WELL.
(SEE PHOTO)

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #206127 Job Number: 386498
 Site Address: 2301-2337 Blanding Avenue Event Date: 7-27-12 (inclusive)
 City: Alameda, CA Sampler: FT

Well ID: MW-5 Date Monitored: 7-27-12
 Well Diameter: 2
 Total Depth: 17.93 ft.
 Depth to Water: 5.08 ft. Check if water column is less than 0.50 ft.
 $12.85 \times VF .17 = 2.18$ x3 case volume = Estimated Purge Volume: 7.0 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.65

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 _____
 Suction Pump _____
 Grundfos _____
 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: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____

Start Time (purge): 1310 Weather Conditions: SUNNY
 Sample Time/Date: 1335 / 7-27-12 Water Color: low Odor: DN MODERATE
 Approx. Flow Rate: ✓ gpm. Sediment Description: SILTY
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 6.05

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - US)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1315</u>	<u>2.5</u>	<u>7.05</u>	<u>697</u>	<u>18.9</u>		
<u>1320</u>	<u>5.0</u>	<u>6.99</u>	<u>704</u>	<u>18.7</u>		
<u>1325</u>	<u>7.0</u>	<u>6.95</u>	<u>711</u>	<u>18.5</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-5</u>	<u>6 x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-GRO(8015)/BTX(8260)</u>

COMMENTS: EMCO 12" OR

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #206127 Job Number: 386498
 Site Address: 2301-2337 Blanding Avenue Event Date: 7-27-12 (inclusive)
 City: Alameda, CA Sampler: FR

Well ID: MW-6 Date Monitored: 7-27-12
 Well Diameter: 2
 Total Depth: 20.04 ft.
 Depth to Water: 8.39 ft. Check if water column is less than 0.50 ft.
11.65 x VF .17 = 1.98 x3 case volume = Estimated Purge Volume: 6.0 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.72

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 _____
 Suction Pump _____
 Grundfos _____
 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: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____

Start Time (purge): 1435 Weather Conditions: Slenny
 Sample Time/Date: 1505 17-27-12 Water Color: LT - Gray Odor: Y / N
 Approx. Flow Rate: _____ gpm. Sediment Description: S. Silty
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 9.28

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - S)	Temperature (°/ F)	D.O. (mg/L)	ORP (mV)
<u>1439</u>	<u>2.0</u>	<u>7.48</u>	<u>621</u>	<u>17.4</u>		
<u>1443</u>	<u>4.0</u>	<u>7.44</u>	<u>612</u>	<u>17.7</u>		
<u>1450</u>	<u>6.0</u>	<u>7.39</u>	<u>607</u>	<u>17.6</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>LANCASTER</u>	<u>TPH-GRO(8015)/BTEX(8260)</u>

COMMENTS:

SLOW RECOVERY
Monisou 8" (LBF)

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

ATTACHMENT B

LABORATORY ANALYTICAL REPORT

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

August 07, 2012

Project: 206127

Submittal Date: 07/25/2012
Group Number: 1324410
PO Number: 0015094797
Release Number: BAUER
State of Sample Origin: CAClient Sample DescriptionQA-T-120723 NA Water
MW-1RA-W-120723 Grab Water
MW-1RB-W-120723 Grab Water
MW-3-W-120723 Grab Water
MW-5-W-120723 Grab Water
MW-6-W-120723 Grab WaterLancaster Labs (LL) #6732585
6732586
6732587
6732588
6732589
6732590

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

ELECTRONIC COPY TO
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ELECTRONIC COPY TO
ELECTRONIC COPY TO
ELECTRONIC COPY TO

CRA c/o Gettler-Ryan

Chevron c/o CRA

Chevron

CRA

Attn: Rachelle Munoz

Attn: Report Contact

Attn: Anna Avina

Attn: Brian Silva

Respectfully Submitted,



Jill M. Parker
Senior Specialist

(717) 556-7262

Sample Description: QA-T-120723 NA Water
 Facility# 206127 Job# 386498 GRD
 2301-2337 Blanding-Alameda T06019744728 QA

LLI Sample # WW 6732585
 LLI Group # 1324410
 Account # 10904

Project Name: 206127

Collected: 07/23/2012

Chevron

Submitted: 07/25/2012 10:20

L4310

Reported: 08/07/2012 15:53

6001 Bollinger Canyon Rd.
 San Ramon CA 94583

BAAQA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B					
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles SW-846 8015B					
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1

General Sample Comments

State of California Lab Certification No. 2501
 Additional sample volume received on 8/01/12 for volatiles analyses. Sample was collected on 7/27/12.

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
10943	BTEX 8260B Water	SW-846 8260B	1	D122171AA	08/04/2012 16:41	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D122171AA	08/04/2012 16:41	Kevin A Sposito	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12215A07A	08/03/2012 19:08	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	12215A07A	08/03/2012 19:08	Catherine J Schwarz	1

Sample Description: MW-1RA-W-120723 Grab Water
Facility# 206127 **Job#** 386498 GRD
 2301-2337 Blanding-Alameda T06019744728 MW-1RA

LLI Sample # WW 6732586
LLI Group # 1324410
Account # 10904

Project Name: 206127

Collected: 07/23/2012 11:45 by JH Chevron
 L4310
 Submitted: 07/25/2012 10:20 6001 Bollinger Canyon Rd.
 Reported: 08/07/2012 15:53 San Ramon CA 94583

BAA1A

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles					
	SW-846 8260B		ug/l	ug/l	
10943	Benzene	71-43-2	640	5	10
10943	Ethylbenzene	100-41-4	20	0.5	1
10943	Toluene	108-88-3	9	0.5	1
10943	Xylene (Total)	1330-20-7	7	0.5	1
GC Volatiles					
	SW-846 8015B		ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	4,800	250	5
GC Petroleum Hydrocarbons					
	SW-846 8015B		ug/l	ug/l	
08269	TPH-DRO water C10-C28	n.a.	6,000	50	1
GC Petroleum Hydrocarbons w/Si					
	SW-846 8015B		ug/l	ug/l	
02216	TPH-DRO water C10-C28 w/Si Gel	n.a.	1,000	50	1
	The reverse surrogate, capric acid, is present at <1%.				

General Sample Comments

State of California Lab Certification No. 2501
 Additional sample volume received on 8/01/12 for volatiles analyses. Sample was collected on 7/27/12 at 15:35 by FT.

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
10943	BTEX 8260B Water	SW-846 8260B	1	D122171AA	08/04/2012 18:35	Kevin A Sposito	1
10943	BTEX 8260B Water	SW-846 8260B	1	D122191AA	08/06/2012 17:18	Daniel H Heller	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D122171AA	08/04/2012 18:35	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	D122191AA	08/06/2012 17:18	Daniel H Heller	10
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12215A07A	08/04/2012 02:42	Catherine J Schwarz	5
01146	GC VOA Water Prep	SW-846 5030B	1	12215A07A	08/04/2012 02:42	Catherine J Schwarz	5
08269	TPH-DRO water C10-C28	SW-846 8015B	1	122080011A	07/27/2012 18:05	Christine E Dolman	1
02216	TPH-DRO water C10-C28 w/Si Gel	SW-846 8015B	1	122080012A	07/30/2012 19:17	Christine E Dolman	1
11172	DRO by 8015 w/ Silica Gel Ext	SW-846 3510C	1	122080012A	07/26/2012 22:00	Elaine F Stoltzfus	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	122080011A	07/26/2012 22:00	Elaine F Stoltzfus	1

Sample Description: MW-1RB-W-120723 Grab Water
Facility# 206127 **Job#** 386498 GRD
 2301-2337 Blanding-Alameda T06019744728 MW-1RB

LLI Sample # WW 6732587
LLI Group # 1324410
Account # 10904

Project Name: 206127

Collected: 07/23/2012 12:50 by JH Chevron
 L4310
 Submitted: 07/25/2012 10:20 6001 Bollinger Canyon Rd.
 Reported: 08/07/2012 15:53 San Ramon CA 94583

BAA1B

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l ug/l					
10943	Benzene	71-43-2	89	0.5	1
10943	Ethylbenzene	100-41-4	0.8	0.5	1
10943	Toluene	108-88-3	1	0.5	1
10943	Xylene (Total)	1330-20-7	0.7	0.5	1
GC Volatiles SW-846 8015B ug/l ug/l					
01728	TPH-GRO N. CA water C6-C12	n.a.	990	50	1
GC Petroleum SW-846 8015B ug/l ug/l					
Hydrocarbons					
08269	TPH-DRO water C10-C28	n.a.	2,700	50	1
GC Petroleum SW-846 8015B ug/l ug/l					
Hydrocarbons w/Si					
02216	TPH-DRO water C10-C28 w/Si Gel	n.a.	N.D.	50	1
The reverse surrogate, capric acid, is present at <1%.					

General Sample Comments

State of California Lab Certification No. 2501
 Additional sample volume received on 8/01/12 for volatiles analyses. Sample was collected on 7/27/12 at 15:25 by FT.

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
10943	BTEX 8260B Water	SW-846 8260B	1	D122171AA	08/04/2012 17:27	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D122171AA	08/04/2012 17:27	Kevin A Sposito	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12215A07A	08/03/2012 20:23	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	12215A07A	08/03/2012 20:23	Catherine J Schwarz	1
08269	TPH-DRO water C10-C28	SW-846 8015B	1	122080011A	07/27/2012 16:57	Christine E Dolman	1
02216	TPH-DRO water C10-C28 w/Si Gel	SW-846 8015B	1	122080012A	07/30/2012 19:40	Christine E Dolman	1
11172	DRO by 8015 w/ Silica Gel Ext	SW-846 3510C	1	122080012A	07/26/2012 22:00	Elaine F Stoltzfus	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	122080011A	07/26/2012 22:00	Elaine F Stoltzfus	1

Sample Description: MW-3-W-120723 Grab Water
Facility# 206127 **Job#** 386498 GRD
 2301-2337 Blanding-Alameda T06019744728 MW-3

LLI Sample # WW 6732588
LLI Group # 1324410
Account # 10904

Project Name: 206127

Collected: 07/23/2012 09:05 by JH Chevron
 L4310
 Submitted: 07/25/2012 10:20 6001 Bollinger Canyon Rd.
 Reported: 08/07/2012 15:53 San Ramon CA 94583

BAA03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l ug/l					
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles SW-846 8015B ug/l ug/l					
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1
GC Petroleum SW-846 8015B ug/l ug/l					
Hydrocarbons					
08269	TPH-DRO water C10-C28	n.a.	1,200	50	1
GC Petroleum SW-846 8015B ug/l ug/l					
Hydrocarbons w/Si					
02216	TPH-DRO water C10-C28 w/Si Gel	n.a.	N.D.	50	1
The reverse surrogate, capric acid, is present at <1%.					

General Sample Comments

State of California Lab Certification No. 2501
 Additional sample volume received on 8/01/12 for volatiles analyses. Sample was collected on 7/27/12 at 12:55 by FT.

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
10943	BTEX 8260B Water	SW-846 8260B	1	D122171AA	08/04/2012 18:58	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D122171AA	08/04/2012 18:58	Kevin A Sposito	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12215A07A	08/03/2012 20:48	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	12215A07A	08/03/2012 20:48	Catherine J Schwarz	1
08269	TPH-DRO water C10-C28	SW-846 8015B	1	122080011A	07/27/2012 17:20	Christine E Dolman	1
02216	TPH-DRO water C10-C28 w/Si Gel	SW-846 8015B	1	122080012A	07/30/2012 20:02	Christine E Dolman	1
11172	DRO by 8015 w/ Silica Gel Ext	SW-846 3510C	1	122080012A	07/26/2012 22:00	Elaine F Stoltzfus	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	122080011A	07/26/2012 22:00	Elaine F Stoltzfus	1

Sample Description: MW-5-W-120723 Grab Water
Facility# 206127 **Job#** 386498 GRD
 2301-2337 Blanding-Alameda T06019744728 MW-5

LLI Sample # WW 6732589
LLI Group # 1324410
Account # 10904

Project Name: 206127

Collected: 07/23/2012 10:10 by JH Chevron
 L4310
 Submitted: 07/25/2012 10:20 6001 Bollinger Canyon Rd.
 Reported: 08/07/2012 15:53 San Ramon CA 94583

BAA05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l ug/l					
10943	Benzene	71-43-2	48	0.5	1
10943	Ethylbenzene	100-41-4	0.7	0.5	1
10943	Toluene	108-88-3	3	0.5	1
10943	Xylene (Total)	1330-20-7	4	0.5	1
GC Volatiles SW-846 8015B ug/l ug/l					
01728	TPH-GRO N. CA water C6-C12	n.a.	1,800	50	1
GC Petroleum SW-846 8015B ug/l ug/l					
Hydrocarbons					
08269	TPH-DRO water C10-C28	n.a.	4,300	50	1
GC Petroleum SW-846 8015B ug/l ug/l					
Hydrocarbons w/Si					
02216	TPH-DRO water C10-C28 w/Si Gel	n.a.	380	50	1
The reverse surrogate, capric acid, is present at <1%.					

General Sample Comments

State of California Lab Certification No. 2501
 Additional sample volume received on 8/01/12 for volatiles analyses. Sample was collected on 7/27/12 at 13:35 by FT.

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
10943	BTEX 8260B Water	SW-846 8260B	1	D122171AA	08/04/2012 19:21	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D122171AA	08/04/2012 19:21	Kevin A Sposito	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12215A07A	08/03/2012 21:14	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	12215A07A	08/03/2012 21:14	Catherine J Schwarz	1
08269	TPH-DRO water C10-C28	SW-846 8015B	1	122080011A	07/27/2012 17:42	Christine E Dolman	1
02216	TPH-DRO water C10-C28 w/Si Gel	SW-846 8015B	1	122080012A	07/30/2012 20:25	Christine E Dolman	1
11172	DRO by 8015 w/ Silica Gel Ext	SW-846 3510C	1	122080012A	07/26/2012 22:00	Elaine F Stoltzfus	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	122080011A	07/26/2012 22:00	Elaine F Stoltzfus	1

Sample Description: MW-6-W-120723 Grab Water
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728 MW-6

LLI Sample # WW 6732590
LLI Group # 1324410
Account # 10904

Project Name: 206127

Collected: 07/23/2012 14:00 by JH Chevron
 L4310
 Submitted: 07/25/2012 10:20 6001 Bollinger Canyon Rd.
 Reported: 08/07/2012 15:53 San Ramon CA 94583

BAA06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l ug/l					
10943	Benzene	71-43-2	9	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	0.6	0.5	1
GC Volatiles SW-846 8015B ug/l ug/l					
01728	TPH-GRO N. CA water C6-C12	n.a.	450	50	1
GC Petroleum SW-846 8015B ug/l ug/l					
Hydrocarbons					
08269	TPH-DRO water C10-C28	n.a.	1,600	50	1
GC Petroleum SW-846 8015B ug/l ug/l					
Hydrocarbons w/Si					
02216	TPH-DRO water C10-C28 w/Si Gel	n.a.	73	50	1
The reverse surrogate, capric acid, is present at <1%.					

General Sample Comments

State of California Lab Certification No. 2501
 Additional sample volume received on 8/01/12 for volatiles analyses. Sample was collected on 7/27/12 at 15:05 by FT.

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
10943	BTEX 8260B Water	SW-846 8260B	1	D122171AA	08/04/2012 19:43	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D122171AA	08/04/2012 19:43	Kevin A Sposito	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12215A07A	08/03/2012 21:39	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	12215A07A	08/03/2012 21:39	Catherine J Schwarz	1
08269	TPH-DRO water C10-C28	SW-846 8015B	1	122080011A	07/27/2012 16:34	Christine E Dolman	1
02216	TPH-DRO water C10-C28 w/Si Gel	SW-846 8015B	1	122080012A	07/30/2012 20:47	Christine E Dolman	1
11172	DRO by 8015 w/ Silica Gel Ext	SW-846 3510C	1	122080012A	07/26/2012 22:00	Elaine F Stoltzfus	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	122080011A	07/26/2012 22:00	Elaine F Stoltzfus	1

Quality Control Summary

Client Name: Chevron Group Number: 1324410
Reported: 08/07/12 at 03:53 PM

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

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

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: D122171AA	Sample number(s): 6732585-6732590							
Benzene	N.D.	0.5	ug/l	95		77-121		
Ethylbenzene	N.D.	0.5	ug/l	93		79-120		
Toluene	N.D.	0.5	ug/l	95		79-120		
Xylene (Total)	N.D.	0.5	ug/l	94		77-120		
Batch number: D122191AA	Sample number(s): 6732586							
Benzene	N.D.	0.5	ug/l	97	88	77-121	9	30
Batch number: 12215A07A	Sample number(s): 6732585-6732590							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	116	119	75-135	3	30
Batch number: 122080011A	Sample number(s): 6732586-6732590							
TPH-DRO water C10-C28	N.D.	50.	ug/l	100	94	56-122	6	20
Batch number: 122080012A	Sample number(s): 6732586-6732590							
TPH-DRO water C10-C28 w/Si Gel	N.D.	50.	ug/l	88	81	50-124	7	20

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: D122171AA	Sample number(s): 6732585-6732590 UNSPK: 6732587								
Benzene	465 (2)	753 (2)	72-134	27	30				
Ethylbenzene	102	105	71-134	3	30				
Toluene	103	109	80-125	5	30				
Xylene (Total)	100	101	79-125	1	30				

Surrogate Quality Control

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

Analysis Name: UST VOCs by 8260B - Water
Batch number: D122171AA
Dibromofluoromethane 1,2-Dichloroethane-d4 Toluene-d8 4-Bromofluorobenzene

*- Outside of specification

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

Quality Control Summary

Client Name: Chevron
Reported: 08/07/12 at 03:53 PM

Group Number: 1324410

Surrogate Quality Control

6732585	99	102	99	95
6732586	98	98	100	101
6732587	97	99	99	97
6732588	100	100	100	99
6732589	97	100	101	102
6732590	97	97	100	99
Blank	98	100	100	96
LCS	98	102	99	99
MS	98	101	100	101
MSD	97	101	99	100

Limits: 80-116 77-113 80-113 78-113

Analysis Name: UST VOCs by 8260B - Water

Batch number: D122191AA

Dibromofluoromethane 1,2-Dichloroethane-d4 Toluene-d8 4-Bromofluorobenzene

Blank	102	99	99	95
LCS	99	101	99	97
LCSD	99	103	99	98

Limits: 80-116 77-113 80-113 78-113

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

Batch number: 12215A07A

Trifluorotoluene-F

6732585	73
6732586	74
6732587	87
6732588	72
6732589	92
6732590	80
Blank	81
LCS	91
LCSD	88

Limits: 63-135

Analysis Name: TPH-DRO water C10-C28

Batch number: 122080011A

Orthoterphenyl

6732586	82
6732587	74
6732588	96
6732589	72
6732590	90
Blank	99
LCS	105
LCSD	104

Limits: 50-154

Analysis Name: TPH-DRO water C10-C28 w/Si Gel

Batch number: 122080012A

*- Outside of specification

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

Quality Control Summary

Client Name: Chevron
Reported: 08/07/12 at 03:53 PM

Group Number: 1324410

Surrogate Quality Control

Orthoterphenyl

6732586	88
6732587	90
6732588	76
6732589	85
6732590	82
Blank	86
LCS	95
LCSD	93

Limits: 50-154

*- Outside of specification

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

Chevron California Region Analysis Request/Chain of Custody



IL AMBER
 72412-62

For Lancaster Laboratories use only
 Acct. #: 10904 Sample # 6732585-90 Group #: 010058

Please forward the lab results directly to the Lead Consultant and cc: G-R.

G# 1324410

Facility #: SS#206127-OML G-R#386498 Global ID#T06019744728
 Site Address: 2301-2337 BLANDING AVENUE, ALAMEDA, CA
 Chevron PM: MB Lead Consultant: CRASB Silva
G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568
 Consultant/Office: Deanna L. Harding (deanna@grinc.com)
 Consultant Prj. Mgr.:
 Consultant Phone #: 925-551-7555 Fax #: 925-551-7899
 Sampler: Jim Hezar

Sample Identification			Date Collected		Time Collected		Grab		Composite		Matrix			Analyses Requested																																																																	
														Preservation Codes																																																																	
														<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2">Potable</td> <td colspan="2">NPDES</td> <td colspan="2">Oil</td> <td colspan="2">Air</td> <td colspan="2">Total Number of Containers</td> <td colspan="2">BTEX + ME 8260</td> <td colspan="2">TPH 8015 MOD GRO</td> <td colspan="2">TPH 8015 MOD DRO</td> <td colspan="2">Silica Gel Cleanup</td> <td colspan="2">Oxygenates</td> <td colspan="2">Total Lead</td> <td colspan="2">Method</td> <td colspan="2">Dissolved Lead</td> <td colspan="2">Method</td> </tr> </table>										Potable		NPDES		Oil		Air		Total Number of Containers		BTEX + ME 8260		TPH 8015 MOD GRO		TPH 8015 MOD DRO		Silica Gel Cleanup		Oxygenates		Total Lead		Method		Dissolved Lead		Method																													
Potable		NPDES		Oil		Air		Total Number of Containers		BTEX + ME 8260		TPH 8015 MOD GRO		TPH 8015 MOD DRO		Silica Gel Cleanup		Oxygenates		Total Lead		Method		Dissolved Lead		Method																																																					
QA			7/23/12											<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2">8021</td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> </tr> <tr> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> </tr> </table>																				8021																																													
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Preservative Codes
 H = HCl T = Thiosulfate
 N = HNO₃ B = NaOH
 S = H₂SO₄ O = Other

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

Comments / Remarks

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

Turnaround Time Requested (TAT) (please circle)

STD TAT 72 hour 48 hour
 24 hour 4 day 5 day

Relinquished by: [Signature] Date: 7/23/12 Time: 1600 Received by: [Signature] Date: 23 JUL 12 Time: 1234

Relinquished by: [Signature] Date: 24 JUL 12 Time: 1630 Received by: [Signature] Date: Time:

Data Package Options (please circle if required)

QC Summary Type I - Full **EDF/EDD**
 Type VI (Raw Data) Coelt Deliverable not needed
 WIP (RWQCB)
 Disk

Relinquished by: [Signature] Date: Time: Received by: Date: Time:

Relinquished by Commercial Carrier:
 UPS FedEx Other: Received by: [Signature] Date: 7-25-12 Time: 1020

Temperature Upon Receipt: 18-16.1 °C Custody Seals Intact? Yes No

Chevron California Region Analysis Request/Chain of Custody



Please forward the lab results directly to the Lead Consultant and cc: G-E.

072712-09

For Lancaster Laboratories use only
 Acct. #: 10904 Sample # 6740116-53 ~~6732585-90~~ ^{AKO 8/12/12} Group #: 010091
1325778
1324410

Facility #: SS/206127-QML G.R.#386498 Global ID#T06019744728
 Site Address: 2301-2337 BLANDING AVENUE, ALAMEDA, CA
 Chevron PM: ME Lead Consultant: CRASB Silve
G.R. Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568
 Consultant/Office: Deanna L. Harding (deanna@grinc.com)
 Consultant Prj. Mgr.: Deanna L. Harding (deanna@grinc.com)
 Consultant Phone #: 925-551-7555 Fax #: 925-551-7899
 Sampler: FRANK TERRINO

Matrix		Analyses Requested													
		Preservation Codes													
Soil	Water	Oil	Air	Total Number of Containers	BTEX	8260	8021	TPH 8015 MOD GRO	TPH 8015 MOD DRO	8260 full scan	Oxygenates	Total Lead	Method	Dissoved Lead	Method
						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								

Preservative Codes
 H = HCl T = Thiosulfate
 N = HNO₃ B = NaOH
 S = H₂SO₄ O = Other

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

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers
<u>QA</u>	<u>7.27.12</u>								
<u>MW-1RA</u>		<u>1535</u>	<input checked="" type="checkbox"/>						<u>6</u>
<u>MW-1RB</u>		<u>1525</u>	<input checked="" type="checkbox"/>						<u>6</u>
<u>MW-2</u>		<u>1222</u>	<input checked="" type="checkbox"/>						<u>6</u>
<u>MW-3</u>		<u>1255</u>	<input checked="" type="checkbox"/>						<u>6</u>
<u>MW-4</u>		<u>1515</u>	<input checked="" type="checkbox"/>						<u>6</u>
<u>MW-5</u>		<u>1335</u>	<input checked="" type="checkbox"/>						<u>6</u>
<u>MW-6</u>		<u>1505</u>	<input checked="" type="checkbox"/>						<u>6</u>

Comments / Remarks
MW-2 + MW-4 reported separately per B. Silve jmp 8/2/12
 TPH-DRO WITH SILICA GEL REQUESTING 10 GRAM COLUMN CLEANUP WITH CAPRIC ACID REVERSE SURROGATE

Turnaround Time Requested (TAT) (please circle)
 STD. TAT 72 hour 48 hour
 24 hour 4 day 5 day

Data Package Options (please circle if required)
 QC Summary Type I - Full **EDF/EDD**
 Type VI (Raw Data) Coelt Deliverable not needed
 WIP (RWQCB)
 Disk

Relinquished by: <u>[Signature]</u>	Date: <u>7.27.12</u>	Time: <u>1635</u>	Received by: <u>[Signature]</u>	Date: <u>27 JUL 12</u>	Time: <u>1635</u>
Relinquished by: <u>[Signature]</u>	Date: <u>7/31/12</u>	Time: <u>1630</u>	Received by: <u>FE</u>	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by Commercial Carrier: <u>FedEx</u>	UPS	Other	Received by: <u>[Signature]</u>	Date: <u>8-1-12</u>	Time: <u>935</u>
Temperature Upon Receipt: <u>3.9</u> °C	Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	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 of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Data Qualifiers:

C – result confirmed by reanalysis.

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but \geq IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>$ 25%	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA $<$ 0.995

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

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

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

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

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

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

August 09, 2012

Project: 206127

Submittal Date: 08/01/2012
Group Number: 1325778
PO Number: 0015094797
Release Number: BAUER
State of Sample Origin: CAClient Sample DescriptionMW-2-W-120727 Grab Water
MW-4-W-120727 Grab WaterLancaster Labs (LLI) #6740149
6740151

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

ELECTRONIC COPY TO
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ELECTRONIC COPY TO
ELECTRONIC COPY TO
ELECTRONIC COPY TO

CRA c/o Gettler-Ryan

Chevron c/o CRA

Chevron

CRA

Attn: Rachelle Munoz

Attn: Report Contact

Attn: Anna Avina

Attn: Brian Silva

Respectfully Submitted,



Jill M. Parker
Senior Specialist

(717) 556-7262

Sample Description: MW-2-W-120727 Grab Water
 Facility# 206127 Job# 386498 GRD
 2301-2337 Blanding-Alameda T06019744728 MW-2

LLI Sample # WW 6740149
 LLI Group # 1325778
 Account # 10904

Project Name: 206127

Collected: 07/27/2012 12:22 by FT Chevron
 L4310
 Submitted: 08/01/2012 09:35 6001 Bollinger Canyon Rd.
 Reported: 08/09/2012 20:14 San Ramon CA 94583

61272

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l ug/l					
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles SW-846 8015B ug/l ug/l					
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	P122202AA	08/07/2012 10:13	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P122202AA	08/07/2012 10:13	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12215A07A	08/04/2012 00:35	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	12215A07A	08/04/2012 00:35	Catherine J Schwarz	1

Sample Description: MW-4-W-120727 Grab Water
 Facility# 206127 Job# 386498 GRD
 2301-2337 Blanding-Alameda T06019744728 MW-4

LLI Sample # WW 6740151
 LLI Group # 1325778
 Account # 10904

Project Name: 206127

Collected: 07/27/2012 15:15 by FT Chevron
 Submitted: 08/01/2012 09:35 L4310
 Reported: 08/09/2012 20:14 6001 Bollinger Canyon Rd.
 San Ramon CA 94583

61274

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l ug/l					
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles SW-846 8015B ug/l ug/l					
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	P122202AA	08/07/2012 10:41	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P122202AA	08/07/2012 10:41	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12215A07A	08/04/2012 01:01	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	12215A07A	08/04/2012 01:01	Catherine J Schwarz	1

Quality Control Summary

Client Name: Chevron Group Number: 1325778
Reported: 08/09/12 at 08:14 PM

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

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

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: P122202AA	Sample number(s): 6740149,6740151							
Benzene	N.D.	0.5	ug/l	102		77-121		
Ethylbenzene	N.D.	0.5	ug/l	93		79-120		
Toluene	N.D.	0.5	ug/l	99		79-120		
Xylene (Total)	N.D.	0.5	ug/l	98		77-120		
Batch number: 12215A07A	Sample number(s): 6740149,6740151							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	116	119	75-135	3	30

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: P122202AA	Sample number(s): 6740149,6740151 UNSPK: 6740151								
Benzene	105	103	72-134	2	30				
Ethylbenzene	97	95	71-134	2	30				
Toluene	101	100	80-125	2	30				
Xylene (Total)	99	98	79-125	1	30				

Surrogate Quality Control

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

Analysis Name: UST VOCs by 8260B - Water
Batch number: P122202AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6740149	102	101	96	90
6740151	102	101	97	91
Blank	100	102	97	90
LCS	101	106	97	93
MS	101	100	96	94
MSD	100	103	96	94
Limits:	80-116	77-113	80-113	78-113

*- Outside of specification

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

Quality Control Summary

Client Name: Chevron
Reported: 08/09/12 at 08:14 PM

Group Number: 1325778

Surrogate Quality Control

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 12215A07A
Trifluorotoluene-F

6740149	70
6740151	72
Blank	81
LCS	91
LCSD	88

Limits: 63-135

*- Outside of specification

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

Chevron California Region Analysis Request/Chain of Custody



Please forward the lab results directly to the Lead Consultant and cc: G-R.

072712-09

For Lancaster Laboratories use only

Acct. #: 10904 Sample # 6740146-53 Group #: 010091

1325778

Facility #: <u>SS#206127-OML G R#386498 Global ID#T06019744728</u> Site Address: <u>2301-2337 BLANDING AVENUE, ALAMEDA, CA</u> Chevron PM: <u>ME</u> Lead Consultant: <u>CRASE Silva</u> Consultant/Office: <u>G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568</u> Consultant Prj. Mgr.: <u>Deanna L. Harding (deanna@grinc.com)</u> Consultant Phone #: <u>925-551-7555</u> Fax #: <u>925-551-7899</u> Sampler: <u>Frank Terrinoni</u>				Matrix <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Air		Analyses Requested <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="10">Preservation Codes</th> </tr> <tr> <td><input type="checkbox"/> BTEX</td> <td><input checked="" type="checkbox"/> 8260</td> <td><input checked="" type="checkbox"/> 8021</td> <td><input type="checkbox"/> TPH 8015 MOD GRC</td> <td><input type="checkbox"/> TPH 8015 MOD DFO</td> <td><input type="checkbox"/> Silica Gel Cleanup</td> <td><input type="checkbox"/> 8260 full scan</td> <td><input type="checkbox"/> Oxygenates</td> <td><input type="checkbox"/> Total Lead Method</td> <td><input type="checkbox"/> Dissolved Lead Method</td> <td><input type="checkbox"/></td> </tr> </table>										Preservation Codes										<input type="checkbox"/> BTEX	<input checked="" type="checkbox"/> 8260	<input checked="" type="checkbox"/> 8021	<input type="checkbox"/> TPH 8015 MOD GRC	<input type="checkbox"/> TPH 8015 MOD DFO	<input type="checkbox"/> Silica Gel Cleanup	<input type="checkbox"/> 8260 full scan	<input type="checkbox"/> Oxygenates	<input type="checkbox"/> Total Lead Method	<input type="checkbox"/> Dissolved Lead Method	<input type="checkbox"/>	Preservative Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other <input type="checkbox"/> J value reporting needed <input checked="" type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds 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	
Preservation Codes																																						
<input type="checkbox"/> BTEX	<input checked="" type="checkbox"/> 8260	<input checked="" type="checkbox"/> 8021	<input type="checkbox"/> TPH 8015 MOD GRC	<input type="checkbox"/> TPH 8015 MOD DFO	<input type="checkbox"/> Silica Gel Cleanup	<input type="checkbox"/> 8260 full scan	<input type="checkbox"/> Oxygenates	<input type="checkbox"/> Total Lead Method	<input type="checkbox"/> Dissolved Lead Method	<input type="checkbox"/>																												
Sample Identification		Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX	8260	8021	TPH 8015 MOD GRC	TPH 8015 MOD DFO	Silica Gel Cleanup	8260 full scan	Oxygenates	Total Lead Method	Dissolved Lead Method	Comments / Remarks																	
QA		7.27.12								2	X	X										Only MW-2 & MW-4 reported in this sample group per B. Silva. jmp TPH-DRO WITH SILICA GEL REQUESTING 10 GRAM COLUMN CLEAN-UP WITH CAPRIC ACID REVERSE SURROGATE 8/2/12																
MW-1RA			15:35	X						6	X	X																										
MW-1RB			15:25	X						6	X	X																										
MW-2			12:22	X						6	X	X																										
MW-3			12:55	X						6	X	X																										
MW-4			15:15	X						6	X	X																										
MW-5			13:35	X						6	X	X																										
MW-6			15:05	X						6	X	X																										
Turnaround Time Requested (TAT) (please circle) STD. TAT 72 hour 48 hour 24 hour 4 day 5 day				Relinquished by: <u>[Signature]</u> Date: <u>7/27/12</u> Time: <u>1635</u>				Received by: <u>[Signature]</u> Date: <u>27 JUL 12</u> Time: <u>1635</u>				Relinquished by: <u>[Signature]</u> Date: <u>7/31/12</u> Time: <u>1630</u>				Received by: <u>FE</u> Date: Time:																						
Data Package Options (please circle if required) QC Summary Type I - Full EDF/EDD Type VI (Raw Data) <input type="checkbox"/> Coelt Deliverable not needed WIP (RWQCB) Disk				Relinquished by: _____ Date: _____ Time: _____				Received by: _____ Date: _____ Time: _____				Relinquished by: _____ Date: _____ Time: _____				Received by: <u>[Signature]</u> Date: <u>8-1-12</u> Time: <u>935</u>																						
				Relinquished by Commercial Carrier: UPS FedEx Other _____				Temperature Upon Receipt: <u>3.9</u> °C				Custody Seals Intact? Yes No																										

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	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 of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Data Qualifiers:

C – result confirmed by reanalysis.

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but \geq IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>$ 25%	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA $<$ 0.995

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

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

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

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

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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
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 (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
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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* (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)
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