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Alameda County
Environmental Health

Mike Bauer
Project Manager
Marketing Business Unit

**Chevron Environmental
Management Company**
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Brea, CA 92821
Tel (714) 671-3200
Fax (714) 671-3440
mbauer@chevron.com

March 18, 2011

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

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 *First Quarter 2011 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>

March 18, 2011

Reference No. 631916

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

Re: First Quarter 2011
Groundwater Monitoring and Sampling Report
Former Signal Oil Marine Storage and Distribution Facility
(Chevron Bulk Plant 20-6127)
2301-2311 Blanding Avenue
Alameda, California
ACEH Case No. RO0002466

Dear Mr. Wickham:

Conestoga-Rovers & Associates (CRA) is submitting this *First Quarter 2011 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 January 21, 2011 *Groundwater Monitoring and Sampling Data Package* is included as Attachment A. Current groundwater monitoring and sampling data are presented in Table 1 and well construction specifications are summarized in Table 2. Lancaster Laboratories' January 28, 2011 *Analytical Results* are included as Attachment B. Historical groundwater monitoring and sampling data are included as Attachment C.

RESULTS OF FIRST QUARTER 2011 EVENT

On January 14, 2011, G-R monitored and sampled the site wells per the established schedule. Monitoring data related to this event is included in G-R's monitoring data package (Attachment A).

Results of the current monitoring event indicate the following:

- Groundwater Flow Direction Northerly
- Hydraulic Gradient 0.01
- Depth to Water 3.12 to 10.97 feet below grade

Equal
Employment Opportunity
Employer



March 18, 2011

Reference No. 631916

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

TABLE A GROUNDWATER ANALYTICAL DATA						
<i>Well ID</i>	<i>TPHd (µg/L)</i>	<i>TPHg (µg/L)</i>	<i>Benzene (µg/L)</i>	<i>Toluene (µg/L)</i>	<i>Ethylbenzene (µg/L)</i>	<i>Total Xylenes (µg/L)</i>
<i>ESLs</i>	100	100	1	40	30	20
MW-1RA	1,500	790	160	2	1	1
MW-1RB	960	150	1	<0.5	<0.5	<0.5
MW-2	68	<50	<0.5	<0.5	<0.5	<0.5
MW-3	1,000	91	<0.5	<0.5	<0.5	<0.5
MW-4	<50	<50	<0.5	<0.5	<0.5	<0.5
MW-5	1,800	2,100	61	4	1	6
MW-6	560	120	3	<0.5	<0.5	<0.5

Notes:
ESL Environmental screening level
Concentrations in **Bold** exceed their respective ESL.

CONCLUSIONS AND RECOMMENDATIONS

Results of this current quarterly monitoring and sampling of wells MW-2 through MW-5 are consistent with the past four quarters. Wells MW-1RA, MW-1RB and MW-6 were sampled for the second time during this quarter. The sampling results 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).
- Concentrations are generally decreasing in site wells where concentrations are detected above groundwater ESLs.

CRA recommends continuing quarterly monitoring and sampling of current wells and recently installed wells MW-1RA, MW-1RB, and MW-6 to verify concentration trends over time.



**CONESTOGA-ROVERS
& ASSOCIATES**

March 18, 2011

Reference No. 631916

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ANTICIPATED FUTURE ACTIVITIES

Groundwater Monitoring

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

Additional Activity

CRA completed a second indoor air sampling event in November 2010 and is currently preparing a summary report. The summary report will be submitted to ACEH by March 31, 2011.

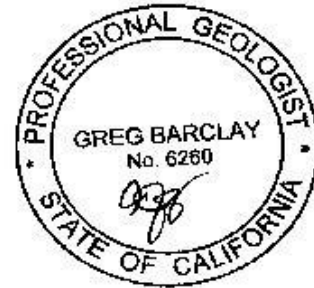
Please contact Brian Silva at (916) 889-8908 if you have any questions or require additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Brian Silva

Greg Barclay, PG 6260



AA/aa/19
Encl.



**CONESTOGA-ROVERS
& ASSOCIATES**

March 18, 2011

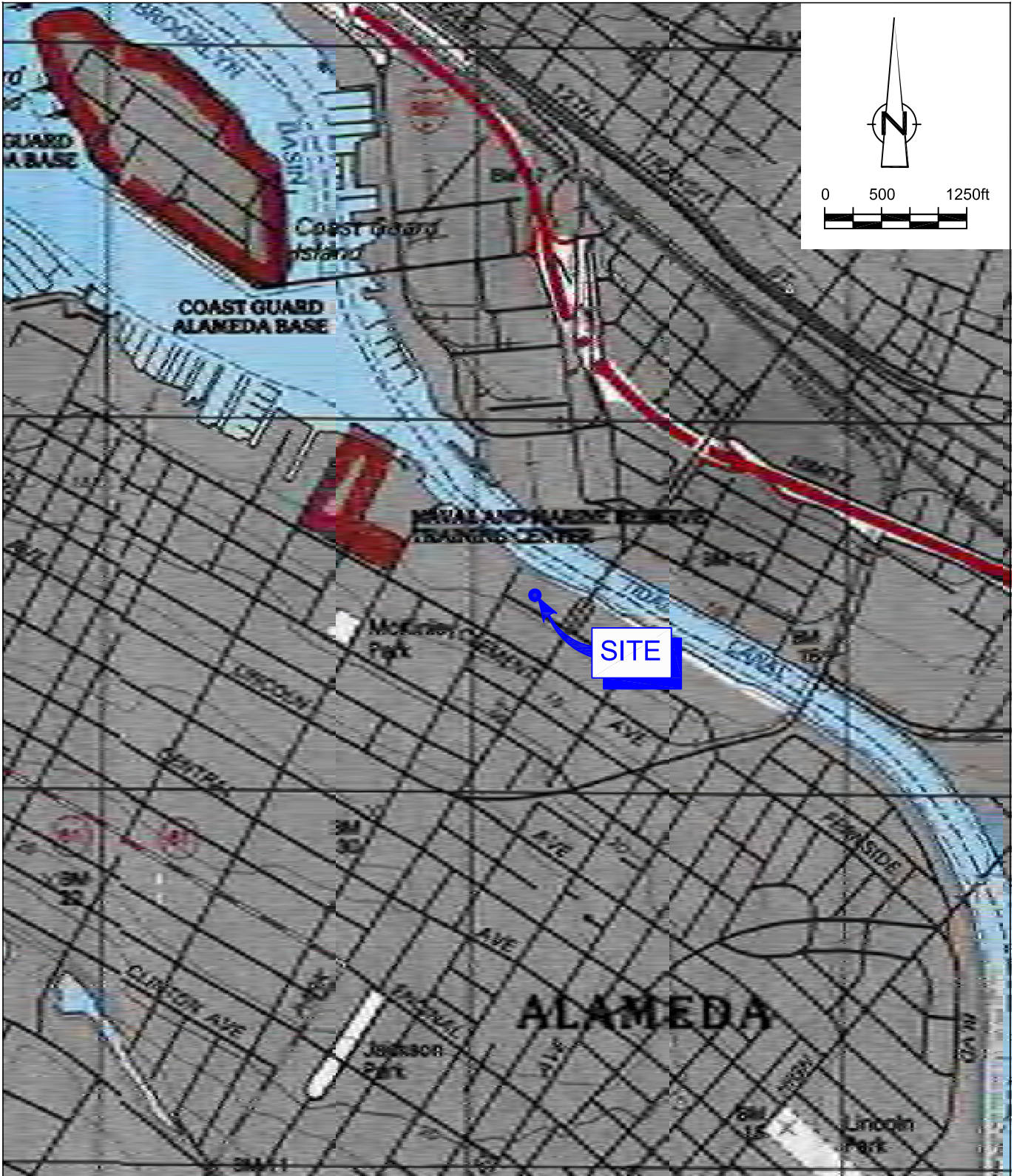
Reference No. 631916

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Figure 1	Vicinity Map
Figure 2	Groundwater Elevation Contour Map - January 14, 2011
Figure 3	TPHd Concentrations in Groundwater - January 14, 2011
Figure 4	TPHg Concentrations in Groundwater - January 14, 2011
Figure 5	Benzene Concentrations in Groundwater - January 14, 2011
Table 1	Groundwater Monitoring and Sampling Data
Table 2	Well Construction Specifications
Attachment A	Monitoring Data Package
Attachment B	Laboratory Analytical Report
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

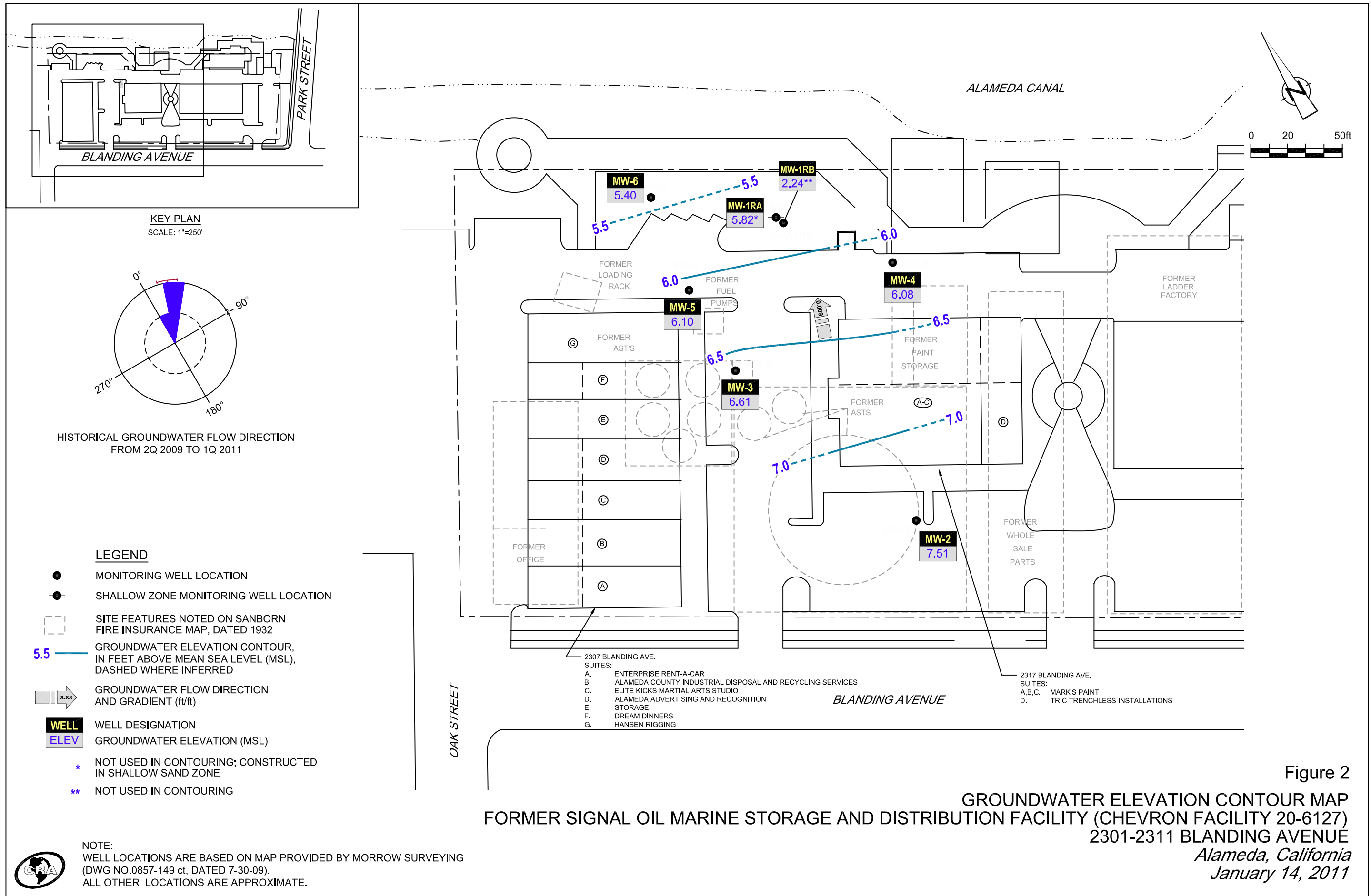


SOURCE: TOPOI MAPS.

Figure 1

VICINITY MAP
 FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY
 (CHEVRON FACILITY 20-6127)
 2301-2311 BLANDING AVENUE
 Alameda, California





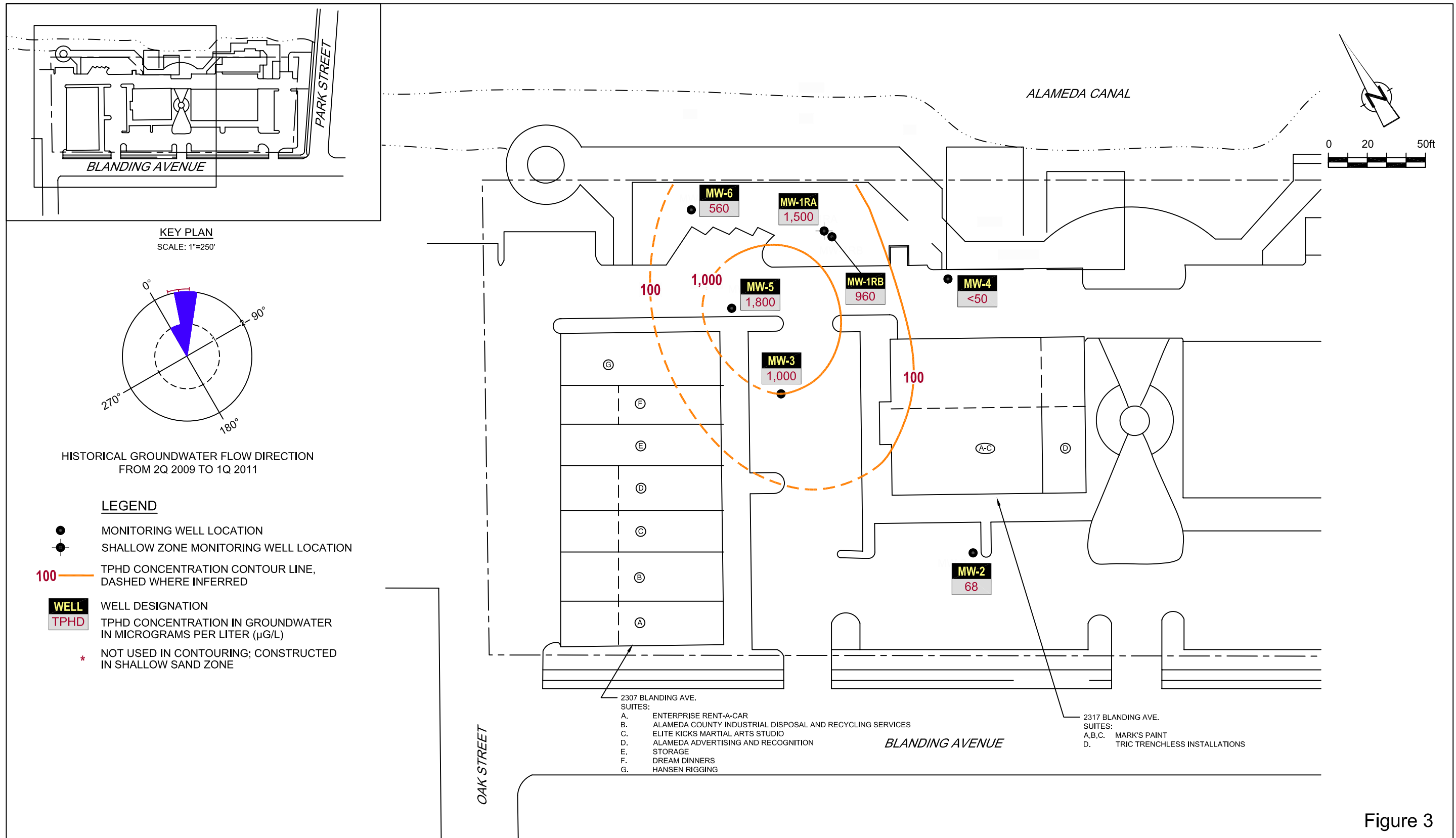


Figure 3
 TPHD CONCENTRATION CONTOUR MAP
 FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY (CHEVRON FACILITY 20-6127)
 2301-2311 BLANDING AVENUE
 Alameda, California
 January 14, 2011

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.



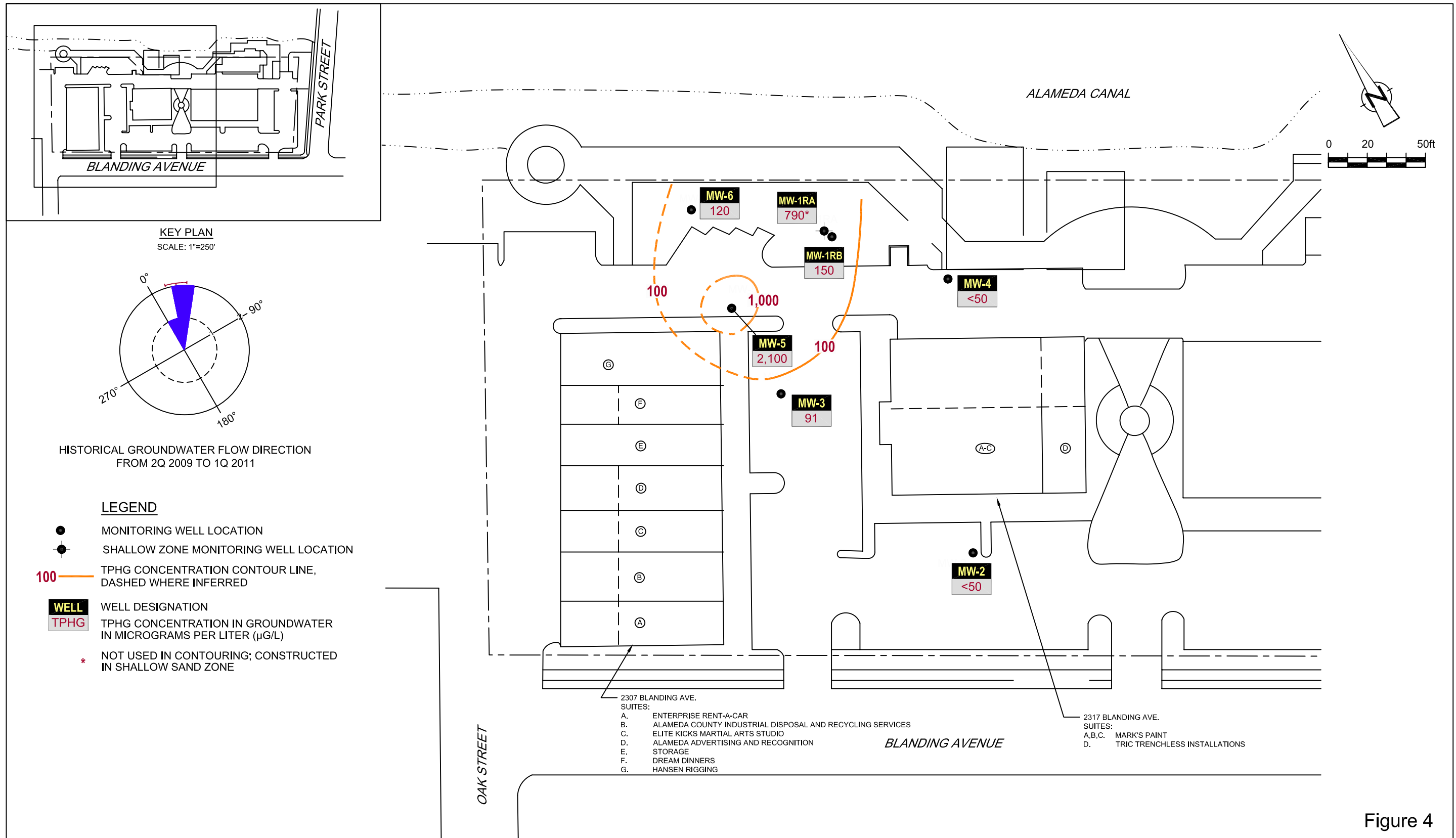


Figure 4
TPHG CONCENTRATION CONTOUR MAP
FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY (CHEVRON FACILITY 20-6127)
2301-2311 BLANDING AVENUE
Alameda, California
January 14, 2011

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.



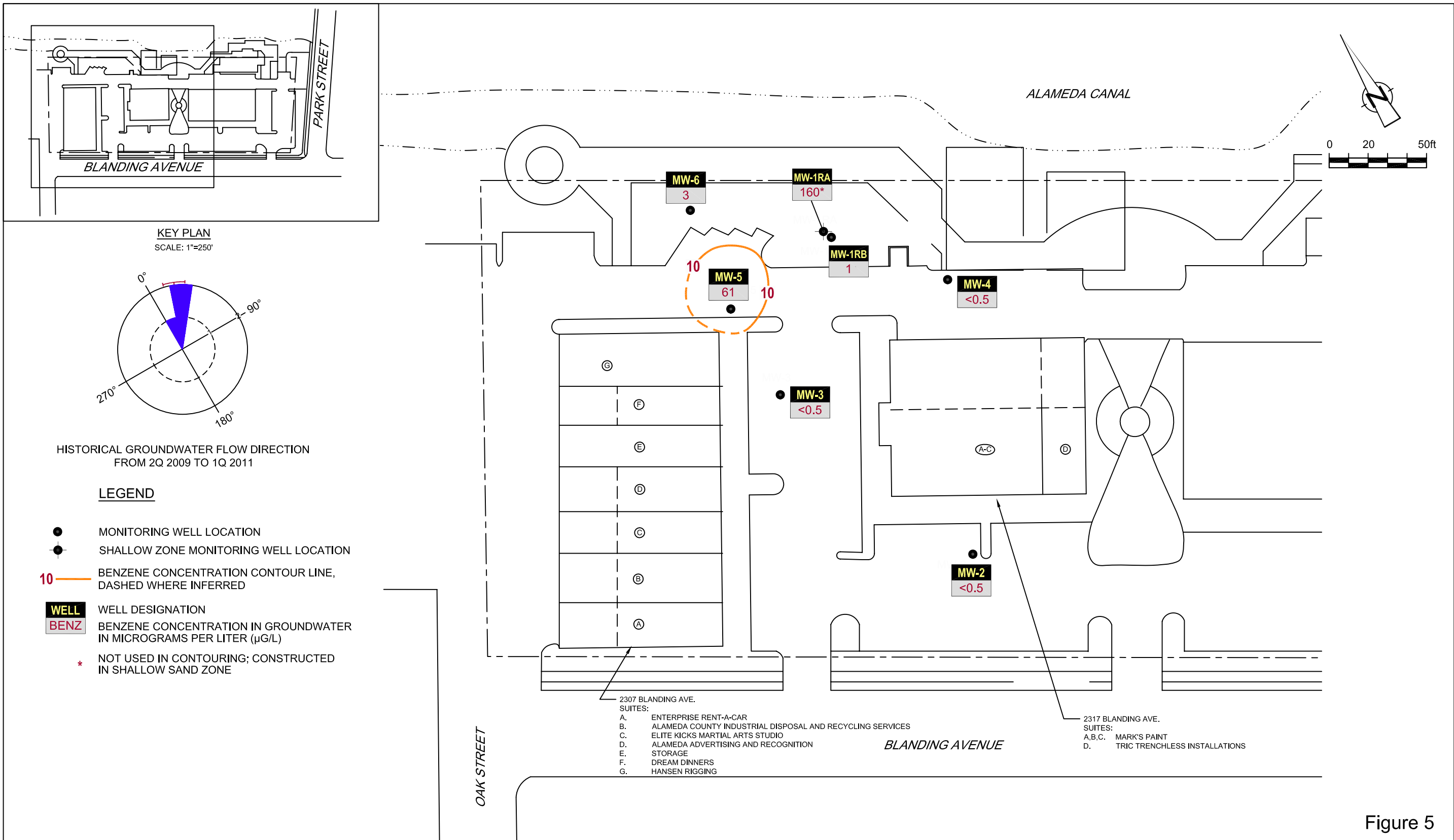


Figure 5
BENZENE CONCENTRATION CONTOUR MAP
FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY (CHEVRON FACILITY 20-6127)
2301-2311 BLANDING AVENUE
Alameda, California
January 14, 2011

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 20-6127
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
MW-1	07/21/2010	13.49	9.47	4.02	440	-	65 J	<0.5	<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-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-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-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-4	07/21/2010	11.40	6.72	4.68	<50	-	<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 20-6127
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
MW-4	10/22/2010	11.40	6.87	4.53	-	91	<50	<0.5	<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	<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-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	-	-
QA	07/21/2010	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
QA	10/22/2010	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
QA	10/28/2010	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
QA	01/14/2011	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-

Abbreviations and Notes:

TOC = Top of Casing

DTW = Depth to Water

**GROUNDWATER MONITORING AND SAMPLING DATA
FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY
CHEVRON BULK PLANT 20-6127
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

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 = Xylene

MTBE = Methyl tert butyl ether

-- = Not available / not applicable

<x = Not detected above laboratory method detection limit

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

1 Destroyed and re-installed as MW-1RB.

2 Monitored only for the 10/28/10 Special Event

**WELL CONSTRUCTION SPECIFICATIONS
FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY
(CHEVRON BULK PLANT 20-6127)
2301-2311 BLANDING AVENUE
ALAMEDA, CALIFORNIA**

<i>Well ID</i>	<i>Date Installed</i>	<i>TOC</i>	<i>Total Depth (fbg)</i>	<i>Casing Diameter ¹ (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	Vapor only
VP-11	7/17/2009	NS	0.5	0.25	NA	NA	NA	Vapor only
VP-12	7/22/2009	NS	0.5	0.25	NA	NA	NA	Vapor only
VP-13	7/22/2009	NS	0.5	0.25	NA	NA	NA	Vapor only

Abbreviations/ Notes

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

¹ = Schedule 40 PVC casing material

fbg = Feet below grade

NA = Not applicable

NS = Not surveyed

ATTACHMENT A

MONITORING DATA PACKAGE



TRANSMITTAL

January 21, 2011
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 First Quarter Event of January 14, 2011

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

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 IWM to Chemical Waste Management located in Kettleman Hills, California.



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #206127 Job Number: 386498
 Site Address: 2301-2337 Blanding Avenue Event Date: 1-14-11 (inclusive)
 City: Alameda, CA Sampler: Joe

Well ID: MW-1RA Date Monitored: 1-14-11
 Well Diameter: 2 in.
 Total Depth: 12.70 ft.
 Depth to Water: 7.20 ft. Check if water column is less than 0.50 ft.
5.50 xVF 0.17 = 0.94 x3 case volume = Estimated Purge Volume: 3 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.30

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

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

Sampling Equipment:
 Disposable Bailer
 Pressure Bailer _____
 Discrete Bailer _____
 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: _____
 Product Transferred to: _____

Start Time (purge): 1220 Weather Conditions: cloudy
 Sample Time/Date: 1245/1-14-11 Water Color: clear Odor: DIN strong
 Approx. Flow Rate: _____ gpm. Sediment Description: none
 Did well de-water? If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 7.59

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm (µS))	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1224</u>	<u>1</u>	<u>6.62</u>	<u>1480</u>	<u>16.7</u>		
<u>1229</u>	<u>2</u>	<u>6.68</u>	<u>1496</u>	<u>17.1</u>		
<u>1235</u>	<u>3</u>	<u>6.74</u>	<u>1491</u>	<u>17.0</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1RA</u>	<u>6</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-GRO(8015)/BTEX(8260)</u>
	<u>2x 500ml ambers</u>	<u>YES</u>	<u>NP</u>	<u>LANCASTER</u>	<u>TPH-DRO w/sgc (8015)</u>

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: 1-14-11 (inclusive)
 City: Alameda, CA Sampler: Joc

Well ID: MW-1RB Date Monitored: 1-14-11
 Well Diameter: 2 in.
 Total Depth: 19.96 ft.
 Depth to Water: 10.97 ft. Check if water column is less than 0.50 ft.
8.99 xVF 0.17 = 1.53 x3 case volume = Estimated Purge Volume: 4.5 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.76

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

Sampling Equipment:
 Disposable Bailer
 Pressure Bailer _____
 Discrete Bailer _____
 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: _____
 Product Transferred to: _____

Start Time (purge): 1140 Weather Conditions: Cloudy
 Sample Time/Date: 1208 / 1-14-11 Water Color: clear Odor: 0.1N moderate
 Approx. Flow Rate: _____ gpm. Sediment Description: none
 Did well de-water? no If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 10.61

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1145</u>	<u>1.5</u>	<u>6.63</u>	<u>1587</u>	<u>17.3</u>		
<u>1150</u>	<u>3</u>	<u>6.70</u>	<u>1617</u>	<u>17.5</u>		
<u>1156</u>	<u>4.5</u>	<u>6.72</u>	<u>1622</u>	<u>17.1</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1RB</u>	<u>6 x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-GRO(8015)/BTEX(8260)</u>
	<u>2 x 500ml ambers</u>	<u>YES</u>	<u>NP</u>	<u>LANCASTER</u>	<u>TPH-DRO w/sgc (8015)</u>

COMMENTS: Monitored well several times. Well is very close to the estuary.

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: 1-14-11 (inclusive)
 City: Alameda, CA Sampler: Joe

Well ID: MW-2
 Well Diameter: 2 in.
 Total Depth: 15.60 ft.
 Depth to Water: 3.12 ft.

Date Monitored: 1-14-11

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

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 5.61
 xVF 0.17 = 2.12 x3 case volume = Estimated Purge Volume: 6.5 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 _____
 Discrete Bailer _____
 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: _____
 Product Transferred to: _____

Start Time (purge): 0805 Weather Conditions: cloudy
 Sample Time/Date: 0835 1-14-11 Water Color: clear Odor: Y1 (N)
 Approx. Flow Rate: _____ gpm. Sediment Description: none
 Did well de-water? no If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 3.70

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm (µS))	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>0813</u>	<u>2</u>	<u>7.40</u>	<u>1738</u>	<u>16.5</u>		
<u>0820</u>	<u>4</u>	<u>7.30</u>	<u>1746</u>	<u>16.7</u>		
<u>0826</u>	<u>6.5</u>	<u>7.34</u>	<u>1743</u>	<u>16.6</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-2	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc (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: 1-14-11 (inclusive)
 Sampler: Joe

Well ID: MW-3

Date Monitored: 1-14-11

Well Diameter: 2 in.

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

Total Depth: 17.91 ft.

Depth to Water: 4.11 ft.

Check if water column is less than 0.50 ft.

13.80 xVF 0.17 = 2.35 x3 case volume = Estimated Purge Volume: 7 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.87

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer
 Pressure Bailer _____
 Discrete Bailer _____
 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
Product Transferred to:	_____

Start Time (purge): 0844 Weather Conditions: cloudy
 Sample Time/Date: 0915 1-14-11 Water Color: clear Odor: 01N light
 Approx. Flow Rate: _____ gpm. Sediment Description: none
 Did well de-water? no If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 4.53

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - (S))	Temperature (°/F)	D.O. (mg/L)	ORP (mV)
<u>0850</u>	<u>2.5</u>	<u>7.36</u>	<u>1864</u>	<u>17.7</u>	_____	_____
<u>0856</u>	<u>5</u>	<u>7.30</u>	<u>1866</u>	<u>17.2</u>	_____	_____
<u>0904</u>	<u>7</u>	<u>7.27</u>	<u>1857</u>	<u>17.1</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>6</u> x vov vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	<u>2</u> x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc (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: 1-14-11 (inclusive)
 City: Alameda, CA Sampler: Joc

Well ID: MW-4 Date Monitored: 1-14-11
 Well Diameter: 2 in.
 Total Depth: 20.23 ft.
 Depth to Water: 5.32 ft. Check if water column is less than 0.50 ft.
14.91 xVF 0.17 = 2.53 x3 case volume = Estimated Purge Volume: 8 gal.
 Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): 8.30

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 _____
 Discrete Bailer _____
 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: _____
 Product Transferred to: _____

Start Time (purge): 1350 Weather Conditions: cloudy
 Sample Time/Date: 1620 1-14-11 Water Color: clear Odor: Y10
 Approx. Flow Rate: _____ gpm. Sediment Description: none
 Did well de-water? no If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 6.24

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - 65)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)
<u>1356</u>	<u>7</u>	<u>7.12</u>	<u>1890</u>	<u>17.5</u>		
<u>1600</u>	<u>5</u>	<u>7.18</u>	<u>1925</u>	<u>17.4</u>		
<u>1607</u>	<u>8</u>	<u>7.16</u>	<u>1934</u>	<u>17.3</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</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 500ml ambers	<u>YES</u>	<u>NP</u>	<u>LANCASTER</u>	<u>TPH-DRO w/sgc (8015)</u>

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: 1-14-11 (inclusive)
 City: Alameda, CA Sampler: Joe

Well ID: MW-5 Date Monitored: 1-14-11
 Well Diameter: 2 in.
 Total Depth: 17.93 ft.
 Depth to Water: 4.40 ft. Check if water column is less than 0.50 ft.
13.53 x VF 0.17 = 2.30 x3 case volume = Estimated Purge Volume: 7 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.10

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 _____
 Discrete Bailer _____
 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
 Product Transferred to: _____

Start Time (purge): 1310 Weather Conditions: cloudy
 Sample Time/Date: 1342 11-14-11 Water Color: clear Odor: 01 N moderate
 Approx. Flow Rate: _____ gpm. Sediment Description: none
 Did well de-water? no If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 5.16

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)
<u>1315</u>	<u>2</u>	<u>6.71</u>	<u>2095</u>	<u>16.6</u>		
<u>1322</u>	<u>5.5</u>	<u>6.76</u>	<u>2115</u>	<u>16.9</u>		
<u>1330</u>	<u>7</u>	<u>6.80</u>	<u>2113</u>	<u>17.0</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-5</u>	<u>6</u> x vov vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-GRO(8015)/BTEX(8260)</u>
	<u>2</u> x 500ml ambers	<u>YES</u>	<u>NP</u>	<u>LANCASTER</u>	<u>TPH-DRO w/sgc (8015)</u>

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: 1-14-11 (inclusive)
 Sampler: Joe

Well ID: MW-6
 Well Diameter: 2 in.
 Total Depth: 20.04 ft.
 Depth to Water: 7.58 ft.

Date Monitored: 1-14-11

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

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.07
 $12.46 \times VF \ 0.17 = 2.12 \times 3 \text{ case volume} = \text{Estimated Purge Volume: } 6.5 \text{ gal.}$

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer
 Pressure Bailer _____
 Discrete Bailer _____
 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:	_____
Product Transferred to:	_____

Start Time (purge): 1055 Weather Conditions: cloudy
 Sample Time/Date: 1130 1-14-11 Water Color: clear Odor: 01N light
 Approx. Flow Rate: _____ gpm. Sediment Description: none
 Did well de-water? no If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 8.29

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1103</u>	<u>2</u>	<u>6.84</u>	<u>1988</u>	<u>17.0</u>	_____	_____
<u>1110</u>	<u>4</u>	<u>6.81</u>	<u>1992</u>	<u>16.8</u>	_____	_____
<u>1117</u>	<u>6.5</u>	<u>6.86</u>	<u>2008</u>	<u>17.2</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-6</u>	<u>6</u> x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	<u>2</u> x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc (8015)

COMMENTS:

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
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

January 28, 2011

Project: 206127

Submittal Date: 01/19/2011
Group Number: 1229577
PO Number: 0015060859
Release Number: BAUER
State of Sample Origin: CA

<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
QA-T-110114 NA Water	6186065
MW-1RA-W-110114 Grab Water	6186066
MW-1RB-W-110114 Grab Water	6186067
MW-2-W-110114 Grab Water	6186068
MW-3-W-110114 Grab Water	6186069
MW-4-W-110114 Grab Water	6186070
MW-5-W-110114 Grab Water	6186071
MW-6-W-110114 Grab Water	6186072

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

ELECTRONIC COPY TO	CRA c/o Gettler-Ryan	Attn: Rachelle Munoz
ELECTRONIC COPY TO	Chevron c/o CRA	Attn: Report Contact
ELECTRONIC COPY TO	Chevron	Attn: Anna Avina
ELECTRONIC COPY TO	CRA	Attn: Brian Silva

Questions? Contact your Client Services Representative
Jill M Parker at (717) 656-2300 Ext. 1241

Respectfully Submitted,



Robin C. Runkle
Senior Specialist



Analysis Report

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

Sample Description: QA-T-110114 NA Water
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728 QA

LLI Sample # WW 6186065
LLI Group # 1229577
Account # 10904

Project Name: 206127

Collected: 01/14/2011

Chevron

Submitted: 01/19/2011 09:40

6001 Bollinger Canyon Rd L4310

Reported: 01/28/2011 18:56

San Ramon CA 94583

6127Q

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	F110211AA	01/21/2011 13:28	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F110211AA	01/21/2011 13:28	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11020A07A	01/20/2011 19:15	Butch A Sokolowski	1
01146	GC VOA Water Prep	SW-846 5030B	1	11020A07A	01/20/2011 19:15	Butch A Sokolowski	1



Analysis Report

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

Sample Description: MW-1RA-W-110114 Grab Water
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728 MW-1RA

LLI Sample # WW 6186066
LLI Group # 1229577
Account # 10904

Project Name: 206127

Collected: 01/14/2011 12:45 by JA

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 01/19/2011 09:40

Reported: 01/28/2011 18:56

6127A

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	160	0.5	1
10943	Ethylbenzene	100-41-4	1	0.5	1
10943	Toluene	108-88-3	2	0.5	1
10943	Xylene (Total)	1330-20-7	1	0.5	1
GC Volatiles SW-846 8015B					
01728	TPH-GRO N. CA water C6-C12	n.a.	790	50	1
GC Extractable TPH SW-846 8015B					
w/Si Gel					
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	1,500	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	P110271AA	01/27/2011 12:54	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P110271AA	01/27/2011 12:54	Nicholas R Rossi	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11020A07A	01/20/2011 20:05	Butch A Sokolowski	1
01146	GC VOA Water Prep	SW-846 5030B	1	11020A07A	01/20/2011 20:05	Butch A Sokolowski	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	110200014A	01/21/2011 17:11	Melissa McDermott	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	110200014A	01/20/2011 16:15	Timothy J Attenberger	1



Analysis Report

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

Sample Description: MW-1RB-W-110114 Grab Water
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728 MW-1RB

LLI Sample # WW 6186067
LLI Group # 1229577
Account # 10904

Project Name: 206127

Collected: 01/14/2011 12:08 by JA

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 01/19/2011 09:40

Reported: 01/28/2011 18:56

6127B

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	1	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.	150	50	1
GC Extractable TPH SW-846 8015B					
w/Si Gel					
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	960	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	F110211AA	01/21/2011 14:32	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F110211AA	01/21/2011 14:32	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11020A07A	01/20/2011 20:31	Butch A Sokolowski	1
01146	GC VOA Water Prep	SW-846 5030B	1	11020A07A	01/20/2011 20:31	Butch A Sokolowski	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	110200014A	01/21/2011 17:33	Melissa McDermott	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	110200014A	01/20/2011 16:15	Timothy J Attenberger	1



Analysis Report

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

Sample Description: MW-2-W-110114 Grab Water
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728 MW-2

LLI Sample # WW 6186068
LLI Group # 1229577
Account # 10904

Project Name: 206127

Collected: 01/14/2011 08:35 by JA

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 01/19/2011 09:40

Reported: 01/28/2011 18:56

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
GC Extractable TPH					
	SW-846 8015B		ug/l	ug/l	
w/Si Gel					
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	68	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	F110211AA	01/21/2011 14:54	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F110211AA	01/21/2011 14:54	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11020A07A	01/20/2011 20:56	Butch A Sokolowski	1
01146	GC VOA Water Prep	SW-846 5030B	1	11020A07A	01/20/2011 20:56	Butch A Sokolowski	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	110200014A	01/21/2011 17:55	Melissa McDermott	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	110200014A	01/20/2011 16:15	Timothy J Attenberger	1



Analysis Report

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

Sample Description: MW-3-W-110114 Grab Water
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728 MW-3

LLI Sample # WW 6186069
LLI Group # 1229577
Account # 10904

Project Name: 206127

Collected: 01/14/2011 09:15 by JA

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 01/19/2011 09:40

Reported: 01/28/2011 18:56

61273

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.	91	50	1
GC Extractable TPH w/Si Gel					
		SW-846 8015B	ug/l	ug/l	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	1,000	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	F110211AA	01/21/2011 15:15	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F110211AA	01/21/2011 15:15	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11020A07A	01/20/2011 21:21	Butch A Sokolowski	1
01146	GC VOA Water Prep	SW-846 5030B	1	11020A07A	01/20/2011 21:21	Butch A Sokolowski	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	110200014A	01/21/2011 19:23	Melissa McDermott	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	110200014A	01/20/2011 16:15	Timothy J Attenberger	1



Analysis Report

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

Sample Description: MW-4-W-110114 Grab Water
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728 MW-4

LLI Sample # WW 6186070
LLI Group # 1229577
Account # 10904

Project Name: 206127

Collected: 01/14/2011 16:20 by JA

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 01/19/2011 09:40

Reported: 01/28/2011 18:56

61274

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
GC Extractable TPH SW-846 8015B					
w/Si Gel					
06610	TPH-DRO CA C10-C28 w/ Si Gel	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	F110201AA	01/20/2011 13:11	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F110201AA	01/20/2011 13:11	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11020A07A	01/20/2011 21:46	Butch A Sokolowski	1
01146	GC VOA Water Prep	SW-846 5030B	1	11020A07A	01/20/2011 21:46	Butch A Sokolowski	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	110200014A	01/21/2011 18:17	Melissa McDermott	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	110200014A	01/20/2011 16:15	Timothy J Attenberger	1



Analysis Report

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

Sample Description: MW-5-W-110114 Grab Water
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728 MW-5

LLI Sample # WW 6186071
LLI Group # 1229577
Account # 10904

Project Name: 206127

Collected: 01/14/2011 13:42 by JA

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 01/19/2011 09:40

Reported: 01/28/2011 18:56

61275

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	61	0.5	1
10943	Ethylbenzene	100-41-4	1	0.5	1
10943	Toluene	108-88-3	4	0.5	1
10943	Xylene (Total)	1330-20-7	6	0.5	1
GC Volatiles SW-846 8015B					
01728	TPH-GRO N. CA water C6-C12	n.a.	2,100	50	1
GC Extractable TPH SW-846 8015B					
w/Si Gel					
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	1,800	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	F110201AA	01/20/2011 13:32	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F110201AA	01/20/2011 13:32	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11020A07A	01/20/2011 22:12	Butch A Sokolowski	1
01146	GC VOA Water Prep	SW-846 5030B	1	11020A07A	01/20/2011 22:12	Butch A Sokolowski	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	110200014A	01/21/2011 18:39	Melissa McDermott	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	110200014A	01/20/2011 16:15	Timothy J Attenberger	1



Analysis Report

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

Sample Description: MW-6-W-110114 Grab Water
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728 MW-6

LLI Sample # WW 6186072
LLI Group # 1229577
Account # 10904

Project Name: 206127

Collected: 01/14/2011 11:30 by JA

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 01/19/2011 09:40

Reported: 01/28/2011 18:56

61276

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	3	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.	120	50	1
GC Extractable TPH w/Si Gel					
		SW-846 8015B	ug/l	ug/l	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	560	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	F110201AA	01/20/2011 13:53	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F110201AA	01/20/2011 13:53	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11020A07A	01/20/2011 22:37	Butch A Sokolowski	1
01146	GC VOA Water Prep	SW-846 5030B	1	11020A07A	01/20/2011 22:37	Butch A Sokolowski	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	110200014A	01/21/2011 19:01	Melissa McDermott	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	110200014A	01/20/2011 16:15	Timothy J Attenberger	1

Quality Control Summary

Client Name: Chevron

Group Number: 1229577

Reported: 01/28/11 at 06:56 PM

Matrix QC may not be reported if 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.

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: F110201AA	Sample number(s): 6186070-6186072							
Benzene	N.D.	0.5	ug/l	93		79-120		
Ethylbenzene	N.D.	0.5	ug/l	93		79-120		
Toluene	N.D.	0.5	ug/l	97		79-120		
Xylene (Total)	N.D.	0.5	ug/l	97		80-120		
Batch number: F110211AA	Sample number(s): 6186065,6186067-6186069							
Benzene	N.D.	0.5	ug/l	98		79-120		
Ethylbenzene	N.D.	0.5	ug/l	96		79-120		
Toluene	N.D.	0.5	ug/l	99		79-120		
Xylene (Total)	N.D.	0.5	ug/l	100		80-120		
Batch number: P110271AA	Sample number(s): 6186066							
Benzene	N.D.	0.5	ug/l	101		79-120		
Ethylbenzene	N.D.	0.5	ug/l	102		79-120		
Toluene	N.D.	0.5	ug/l	106		79-120		
Xylene (Total)	N.D.	0.5	ug/l	105		80-120		
Batch number: 11020A07A	Sample number(s): 6186065-6186072							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	109	109	75-135	0	30
Batch number: 110200014A	Sample number(s): 6186066-6186072							
TPH-DRO CA C10-C28 w/ Si Gel	N.D.	32.	ug/l	85	83	52-126	3	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: F110201AA	Sample number(s): 6186070-6186072 UNSPK: P185430								
Benzene	98	101	80-126	3	30				
Ethylbenzene	96	102	71-134	5	30				
Toluene	101	103	80-125	1	30				
Xylene (Total)	102	104	79-125	2	30				
Batch number: F110211AA	Sample number(s): 6186065,6186067-6186069 UNSPK: P186074								
Benzene	101	101	80-126	1	30				
Ethylbenzene	100	101	71-134	1	30				
Toluene	102	101	80-125	0	30				
Xylene (Total)	102	102	79-125	1	30				

*- Outside of specification

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

Quality Control Summary

 Client Name: Chevron
 Reported: 01/28/11 at 06:56 PM

Group Number: 1229577

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</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>BKG</u> <u>MAX</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>	
Batch number: P110271AA	Sample number(s): 6186066				UNSPK: P190759				
Benzene	107	107	80-126	0	30				
Ethylbenzene	107	109	71-134	2	30				
Toluene	111	113	80-125	2	30				
Xylene (Total)	109	112	79-125	3	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: F110201AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6186070	107	103	96	90
6186071	104	99	96	95
6186072	105	102	96	93
Blank	106	101	96	90
LCS	105	100	96	97
MS	105	104	97	98
MSD	105	104	97	97
Limits:	80-116	77-113	80-113	78-113

 Analysis Name: UST VOCs by 8260B - Water
 Batch number: F110211AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6186065	107	98	94	90
6186067	103	100	97	95
6186068	108	104	96	90
6186069	104	101	96	96
Blank	109	104	96	91
LCS	106	100	96	97
MS	105	102	99	97
MSD	105	100	98	97
Limits:	80-116	77-113	80-113	78-113

 Analysis Name: UST VOCs by 8260B - Water
 Batch number: P110271AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6186066	94	99	103	93
Blank	94	101	104	90
LCS	95	102	103	92
MS	94	102	103	91
MSD	93	102	104	91

*- 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: 01/28/11 at 06:56 PM

Group Number: 1229577

Surrogate Quality Control

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

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 11020A07A
Trifluorotoluene-F

6186065	91
6186066	96
6186067	96
6186068	92
6186069	93
6186070	92
6186071	153*
6186072	92
Blank	92
LCS	105
LCSD	101

Limits: 63-135

Analysis Name: TPH-DRO CA C10-C28 w/ Si Gel
Batch number: 110200014A
Orthoterphenyl

6186066	82
6186067	85
6186068	81
6186069	89
6186070	81
6186071	80
6186072	85
Blank	77
LCS	98
LCSD	102

Limits: 59-131

*- Outside of specification

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

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)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	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		
J	estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers	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.

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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
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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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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
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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