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**Second Quarter 2016
Annual Groundwater
Monitoring Report**

Former Chevron-branded
Service Station 94612
3616 San Leandro Street
Oakland, California
Case #: RO0000233



Prepared for:
Chevron Environmental
Management Company
6001 Bollinger Canyon Road
San Ramon, CA 94583

Prepared by:
Stantec Consulting Services Inc.
15575 Los Gatos Blvd., Building C
Los Gatos, CA 95032

July 1, 2016



Carryl MacLeod
Project Manager
Marketing Business Unit

**Chevron Environmental
Management Company**
6001 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 842-3201
CMacleod@chevron.com

July 1, 2016

Mr. Mark Detterman
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Dear Mr. Detterman:

Attached for your review is the *Second Quarter 2016 Annual Groundwater Monitoring Report* for former Chevron-branded service station 94612, located at 3616 San Leandro Street in Oakland, California (**Case #:** RO0000233). This report was prepared by Stantec Consulting Services Inc. (Stantec), upon whose assistance and advice I have relied. I declare under penalty of perjury that the information and/or recommendations contained in the attached report are true and correct, to the best of my knowledge.

If you should have any further questions, please do not hesitate to contact me or the Stantec project manager, Travis Flora, at (408) 356-6124 ext. 238, or travis.flora@stantec.com.

Sincerely,

A handwritten signature in cursive script that reads "Carryl MacLeod".

Carryl MacLeod
Project Manager



July 1, 2016

Attention: **Mr. Mark Detterman**
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502

Reference: **Second Quarter 2016 Annual Groundwater Monitoring Report**
Former Chevron-branded Service Station 94612
3616 San Leandro Street, Oakland, California
Case #: RO0000233

Dear Mr. Detterman:

On behalf of Chevron Environmental Management Company (Chevron), Stantec Consulting Services Inc. (Stantec) is pleased to submit the *Second Quarter 2016 Annual Groundwater Monitoring Report* for former Chevron-branded service station 94612, which was located at 3616 San Leandro Street, Oakland, Alameda County, California (Site - shown on **Figure 1**). This report is presented in three sections: Site Background, Second Quarter 2016 Groundwater Monitoring and Sampling Program, and Conclusions and Recommendations.

SITE BACKGROUND

The Site is a former Chevron-branded service station located on the northern corner at the intersection of San Leandro Street and 37th Avenue in Oakland, California. The Site is currently comprised of two parcels (Alameda County Assessor's Parcel Number [APN] 33-2178-9-1 and APN 33-2178-10) owned by separate private parties. A one-story commercial warehouse occupies the northwestern parcel, while the southeastern parcel is a paved parking lot. A Chevron-branded service station operated at the Site from approximately 1967 until 1976. Stantec reviewed Alameda County Environmental Health (ACEH) files, and specific dates of operational history are unclear.

Former Site features consisted of three gasoline underground storage tanks (USTs; two 10,000-gallon and one 5,000-gallon) located in the northwestern portion of the Site, a 1,000-gallon waste oil UST located in the northern portion of the Site, two fuel dispenser islands located in the southern portion of the Site, associated product piping, and a station building with two hydraulic hoists located in the center of the Site. In 1976, the service station was closed and all Site features were removed. The Site remained a vacant lot until the existing warehouse was constructed in approximately 1988.

Land use near the Site consists of a mixture of commercial and residential properties. The Site is bounded to the northwest by a residence, to the northeast by a Bay Area Rapid Transit (BART) parking lot and elevated rail tracks, on the southeast by 37th Avenue followed by a commercial building, and on the southwest by San Leandro Street followed by a mixed commercial and residential area.

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SECOND QUARTER 2016 GROUNDWATER MONITORING AND SAMPLING PROGRAM

Gettler-Ryan Inc. (G-R) performed the Second Quarter 2016 groundwater monitoring and sampling event on May 2, 2016. G-R's standard operating procedures (SOPs) and field data sheets are included in **Attachment A**. G-R gauged depth-to-groundwater (DTW) in four Site wells (VH-1, MW-2, MW-3, and MW-4) prior to collecting groundwater samples for laboratory analysis. All four Site wells were sampled. G-R indicated well VH-1 was inaccessible with the sampling truck; therefore, purging was not conducted at well VH-1 prior to sample collection.

Investigation-derived waste (IDW) generated during the Second Quarter 2016 groundwater monitoring and sampling event was transported by Clean Harbors Environmental Services to Seaport Environmental in Redwood City, California.

Groundwater Elevation and Gradient

Well construction details and a screen interval assessment for each Site well are presented in **Table 1**. Wells MW-2, MW-3, and MW-4 are currently screened across the prevailing groundwater table, while the DTW measurement in well VH-1 is above the respective screen interval, and the screen interval is currently entirely submerged. Current and historical groundwater elevation data are presented in **Table 2**. A groundwater elevation contour map (based on Second Quarter 2016 data) is shown on **Figure 2**. The direction of groundwater flow at the time of sampling was generally towards the southwest at an average hydraulic gradient of approximately 0.017 feet per foot (ft/ft). This is generally consistent with the historical direction of groundwater flow, as shown by the groundwater flow direction rose diagram on **Figure 3** illustrating the direction of groundwater flow from First Quarter 1993 to present.

Schedule of Laboratory Analysis

Groundwater samples were analyzed for total petroleum hydrocarbons as gasoline range organics (TPH-GRO) using United States Environmental Protection Agency (US EPA) Method 8015B (SW-846) and benzene, toluene, ethylbenzene, and total xylenes (BTEX compounds) and methyl *tertiary*-butyl ether (MtBE) using US EPA Method 8260B (SW-846). In addition, the groundwater sample collected from well MW-3 was analyzed for total petroleum hydrocarbons as diesel range organics (TPH-DRO) with silica gel cleanup using US EPA Method 8015B (SW-846).

Groundwater Analytical Results

During Second Quarter 2016, groundwater samples were collected from four Site wells (VH-1, MW-2, MW-3, and MW-4). Current and historical groundwater analytical results and field parameters are included in **Table 2** through **Table 6**. A figure showing the latest groundwater analytical data plotted on a Site map is included as **Figure 4**. A TPH-GRO isoconcentration map is shown on **Figure 5**. Isoconcentration maps were not developed for benzene and MtBE because concentrations were below California Regional Water Quality Control Board – San Francisco Bay Region Environmental Screening Levels (ESLs) or method detection limits (MDLs). An isoconcentration map was not developed for TPH-DRO because it was only analyzed at one well.

Certified laboratory analysis reports and chain-of-custody documents are presented as **Attachment B**. Hydrographs based on current and historical groundwater elevations and analytical results are included in **Attachment C**. A summary of Second Quarter 2016 groundwater analytical results follows:

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- **TPH-GRO** was detected in three Site wells, at concentrations of 310 micrograms per liter ($\mu\text{g/L}$; well VH-1), 2,000 $\mu\text{g/L}$ (well MW-3), and 3,000 $\mu\text{g/L}$ (well MW-2).
- **TPH-DRO** was detected in the one Site well in which it was analyzed (well MW-3), at a concentration of 160 $\mu\text{g/L}$.
- **Benzene** was detected in one Site well, at a concentration of 0.5 $\mu\text{g/L}$ (well MW-2).
- **Toluene** was not detected above the MDL (0.5 $\mu\text{g/L}$) in any Site well sampled.
- **Ethylbenzene** was not detected above the MDL (0.5 $\mu\text{g/L}$) in any Site well sampled.
- **Total Xylenes** were not detected above the MDL (0.5 $\mu\text{g/L}$) in any Site well sampled.
- **MtBE** was detected in three Site wells, at concentrations of 0.8 $\mu\text{g/L}$ (well MW-3), 0.9 $\mu\text{g/L}$ (well MW-2), and 1 $\mu\text{g/L}$ (well VH-1).

CONCLUSIONS AND RECOMMENDATIONS

Maximum concentrations of TPH-GRO and BTEX compounds were historically observed in well VH-1, located approximately 6 feet from the former gasoline USTs; however, between Second Quarter 2013 and Second Quarter 2014, concentrations of TPH-GRO and BTEX compounds in well VH-1 decreased by approximately one order of magnitude. During Second Quarter 2015 and Second Quarter 2016, maximum concentration of TPH-GRO was observed in well MW-2, located approximately 3 feet from the former southernmost dispenser island. Toluene, ethylbenzene, and total xylenes were not detected above MDLs, and benzene was not detected above its ESL (1 $\mu\text{g/L}$).

In a letter dated May 6, 2014, ACEH conditionally approved Stantec's *Site Conceptual Model and Data Gap Work Plan*, dated February 28, 2014, and requested a Soil and Groundwater Investigation Report by July 7, 2014. Due to issues obtaining an encroachment permit from the City of Oakland, Stantec requested extensions on the due date for the Soil and Groundwater Investigation Report in letters dated August 19 and November 21, 2014, and January 20, 2015.

Stantec obtained the necessary encroachment permit from the City of Oakland and scheduled utility locating activities for March 2, 2015, and Site assessment drilling activities for March 5, 2015. During utility locating activities, a high priority petroleum pipeline was discovered underground adjacent to the proposed soil boring locations. On March 3, 2015, ACEH and Stantec reviewed Site photographs and discussed the petroleum pipeline and potential alternate soil boring locations. During that conversation, Stantec proposed relocating the soil borings to private properties located down-gradient of the previously proposed locations.

Due to issues obtaining access to the off-site private properties, Stantec requested additional extensions on the due date for the Soil and Groundwater Investigation Report in letters dated March 27, July 13, and October 16, 2015. On May 13, 2016, ACEH sent letters to the off-site property owners encouraging cooperation for access. There is currently no set due date for the Soil and Groundwater Investigation Report.

If you have any questions, please contact the Stantec Project Manager, Travis Flora, at (408) 356-6124 or Travis.Flora@stantec.com.

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LIMITATIONS

This document entitled Second Quarter 2016 Annual Groundwater Monitoring Report was prepared by Stantec Consulting Services Inc. ("Stantec") for the account of Chevron Environmental Management Company (the "Client"). Any reliance on this document by any third party is strictly prohibited. The material in it reflects Stantec's professional judgment in light of the scope, schedule and other limitations stated in the document and in the contract between Stantec and the Client. The opinions in the document are based on conditions and information existing at the time the document was published and do not take into account any subsequent changes. In preparing the document, Stantec did not verify information supplied to it by others. Any use which a third party makes of this document is the responsibility of such third party. Such third party agrees that Stantec shall not be responsible for costs or damages of any kind, if any, suffered by it or any other third party as a result of decisions made or actions taken based on this document.

Prepared by Erin O'Malley
(signature)

Erin O'Malley
Project Engineer

Reviewed by Marisa Kaffenberger
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Marisa Kaffenberger
Senior Engineer

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Dorota Runyan, P.E.
Senior Engineer



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Attachments:

Table 1 – Well Details / Screen Interval Assessment – Second Quarter 2016

Table 2 – Groundwater Monitoring Data and Analytical Results

Table 3 – Groundwater Analytical Results – Oxygenate Compounds

Table 4 – Groundwater Analytical Results – Metals and Volatile Organic Compounds

Table 5 – Groundwater Analytical Results – PCBs

Table 6 – Dissolved Oxygen Levels

Figure 1 – Site Location Map

Figure 2 – Groundwater Elevation Contour Map – Second Quarter 2016

Figure 3 – Groundwater Flow Direction Rose Diagram – Second Quarter 2016

Figure 4 – Site Plan Showing Groundwater Concentrations – Second Quarter 2016

Figure 5 – TPH-GRO Isoconcentration Map – Second Quarter 2016

Attachment A – Gettler-Ryan Inc. Field Data Sheets and Standard Operating Procedures –
Second Quarter 2016

Attachment B – Certified Laboratory Analysis Reports and Chain-of-Custody Documents

Attachment C – Hydrographs

cc:

Ms. Carryl MacLeod, Chevron Environmental Management Company, 6001 Bollinger Canyon Road, San Ramon, CA 94583 – Electronic Copy

Mr. Terry McIlraith, Vivian McIlraith Trust, 407 Castello Road, Lafayette, CA 94549

Ms. Jana Ratto Armstrong, Ratto Land Company – Electronic Copy

TABLES

Table 1
Well Details / Screen Interval Assessment
Second Quarter 2016
Former Chevron-Branded Service Station 94612
3616 San Leandro Street, Oakland, California

Well ID	Date Installed	Well Type	Casing Diameter (inches)	Top of Casing (feet above msl)	Construction Well Depth (feet bgs)	Current Well Depth ¹ (feet below TOC)	Current Depth to Groundwater ¹ (feet below TOC)	Screen Interval (feet bgs)	Screen Interval Assessment
VH-1	08/09/88	Monitoring	4	27.91	30.00	28.97	8.30	10-30	Depth-to-groundwater above screen interval.
MW-2	02/01/93	Monitoring	2	28.05	20.00	19.45	9.01	5-20	Depth-to-groundwater within screen interval.
MW-3	02/01/93	Monitoring	2	29.04	20.00	17.96	8.55	5-20	Depth-to-groundwater within screen interval.
MW-4	08/15/95	Monitoring	2	27.27	20.00	17.85	7.64	7-20	Depth-to-groundwater within screen interval.

Notes:
bgs = below ground surface
msl = mean sea level
TOC = top of casing
¹ = As measured on May 2, 2016.

Table 2
Groundwater Monitoring Data and Analytical Results
Former Chevron-branded Service Station 94612
3616 San Leandro Street
Oakland, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-MO (µg/L)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MIBE (µg/L)	TOG (µg/L)
VH-1												
08/10/88	--	13.00	--	--	--	11,000	3,300	200	520	540	--	--
06/01/89	--	10.32	--	--	--	15,000	2,200	120	540	310	--	--
09/15/89	--	15.69	--	--	--	5,600	1,900	90	350	160	--	--
12/08/89	--	14.77	--	--	--	11,000	1,900	69	270	99	--	--
03/07/91	--	11.26	--	--	--	4,500	820	39	120	77	--	--
09/24/91	--	12.98	--	--	--	3,300	520	19	39	27	--	--
01/08/92	--	13.77	--	--	--	5,000	600	34	81	76	--	--
04/20/92	--	8.18	--	--	--	7,400	670	60	110	140	--	--
03/26/93	27.85	6.71	21.14	--	--	4,900	600	40	72	94	--	--
05/27/93	27.85	8.58	19.27	--	--	13,000	1,600	120	230	220	--	--
08/18/93	27.85	10.46	17.39	--	--	2,700	210	10	8.1	18	--	--
11/03/93	27.85	12.57	15.28	--	--	4,600	680	42	35	68	--	--
02/10/94	27.85	9.08	18.77	--	--	1,900	260	19	22	29	--	--
05/12/94	27.85	8.09	19.76	--	--	2,000	390	28	3.9	29	--	--
08/26/94	27.85	10.75	17.10	--	--	4,900	500	<5.0	23	31	--	--
11/14/94	27.85	9.45	18.40	--	--	760	69	<2.0	<2.0	2.2	--	--
02/01/95	27.85	5.97	21.88	--	--	1,300	120	5.9	<0.5	13	--	--
05/12/95	27.85	7.71	20.14	--	--	4,400	460	31	45	49	--	--
08/22/95	27.85	9.26	18.59	--	--	2,900	310	15	28	32	--	--
12/19/95	27.85	8.80	19.05	--	--	930	53	<2.5	<2.5	<2.5	39	--
01/31/96	27.85	5.50	22.35	--	--	3,700	320	<10	41	40	180	--
04/30/96	27.85	8.04	19.81	--	--	3,900	270	<20	<20	<20	120	--
08/01/96	27.85	9.18	18.67	--	--	2,700	140	11	18	28	200	--
10/30/96	27.85	10.76	17.09	--	--	2,700	140	<12	<12	<12	280	--
02/07/97	27.85	8.10	19.75	--	--	220	13	0.6	<0.5	1.6	15	--
05/07/97	27.85	9.52	18.33	--	--	5,200	33	12	21	26	330	--
07/22/97	27.85	10.42	17.43	--	--	4,200	80	<10	16	24	400	--
11/03/97	27.85	11.00	16.85	--	--	2,400	150	6.8	6.5	9.5	510	--
01/28/98	27.85	7.10	20.75	--	--	850	69	4.8	5.0	11	38/48 ¹²	--
05/08/98	27.85	7.71	20.14	--	--	4,200	200	30	40	42	310/200 ¹²	--
07/29/98	27.85	9.45	18.40	--	--	3,800	54	10	27	30	35/290 ¹²	--
11/06/98	27.85	10.70	17.15	--	--	4,800	100	20	12	23	360/210 ¹²	--
02/09/99 ⁵	27.85	5.98	21.87	--	--	2,950	79.5	<10	<10	<10	435/312 ¹²	--
05/13/99	27.85	8.14	19.71	--	--	4,180	147	12.8	16.5	20.3	433/245 ¹²	--
09/07/99	27.85	9.91	17.94	--	--	2,750	57.6	<5.0	6.53	<5.0	297/233 ¹²	--
11/24/99	27.85	10.49	17.36	--	--	2,550	38	3.18	2.54	5.21	216 ^{1,12}	--
02/25/00	27.85	6.65	21.20	--	--	120	2.7	<0.5	<0.5	<0.5	20.5/11.9 ¹²	--

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Oakland, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-MO (µg/L)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MIBE (µg/L)	TOG (µg/L)
VH-1 (cont)												
05/10/00	27.85	8.09	19.76	--	--	1,400 ⁸	63	3.3	3.1	4.9	230/110 ¹²	--
7/31/00 ¹¹	27.85	9.55	18.30	--	--	360 ⁸	22	2.7	1.6	3.1	100/88 ¹²	--
10/30/00 ¹¹	27.85	9.94	17.91	--	--	987 ¹⁰	47.0	1.00	<0.500	1.80	153/130 ¹²	--
02/05/01	27.91	8.68	19.23	--	--	2,670	42.7	<5.00	<5.00	<5.00	225/160 ¹²	--
05/07/01 ¹¹	27.91	8.30	19.61	--	--	1,800 ⁶	100	8.2	10	7.9	440/110 ¹²	--
08/06/01 ¹¹	27.91	9.82	18.09	--	--	1,000 ⁶	67	6.1	2.1	7.1	270/140 ¹²	--
11/12/01 ¹¹	27.91	10.62	17.29	--	--	220	1.2	<0.50	<0.50	<1.5	63/61 ¹²	--
02/11/02 ¹¹	27.91	8.08	19.83	--	--	1,700	33	<5.0	6.3	3.8	64/52 ¹²	--
05/13/02 ¹¹	27.91	8.70	19.21	--	--	2,700	54	4.1	5.6	6.2	100/80 ¹²	--
08/09/02 ¹¹	27.91	9.41	18.50	--	--	2,400	37	2.4	1.2	3.4	86/89 ¹²	--
11/07/02 ¹¹	27.91	10.57	17.34	--	--	150	1.3	<0.50	<0.50	<1.5	56/50 ¹²	--
02/04/03 ¹¹	27.91	8.28	19.63	--	--	1,700	40	3.1	7.8	5.0	100/53 ¹²	--
05/05/03 ¹¹	27.91	7.50	20.41	--	--	2,100	44	3.4	3.7	5.2	96/62 ¹²	--
09/06/03 ^{11,14}	27.91	9.60	18.31	--	--	690	7	0.6	<0.5	0.6	59	--
11/14/03 ^{11,14}	27.91	9.92	17.99	--	--	1,000	3	0.6	2	0.7	47	--
02/13/04 ^{14,15}	27.91	7.93	19.98	--	--	2,400	30	2	4	3	47	--
05/13/04 ¹⁴	27.91	8.67	19.24	--	--	1,900	49	4	3	5	74	--
08/17/04 ¹⁴	27.91	9.65	18.26	--	--	1,800	11	1	0.9	2	58	--
11/10/04	27.91	INACCESSIBLE	--	--	--	--	--	--	--	--	--	--
02/08/05 ¹⁴	27.91	7.83	20.08	--	--	2,700	26	3	4	5	48	--
06/03/05 ¹⁴	27.91	8.20	19.71	--	--	3,100	40	5	6	9	45	--
08/05/05 ¹⁴	27.91	10.10	17.81	--	--	2,500	34	4	0.6	6	46	--
12/02/05 ¹⁴	27.91	8.98	18.93	--	--	3,500	69	7	2	8	57	--
03/03/06 ¹⁴	NP ¹⁸	27.91	7.25	20.66	--	--	4,100	37	6	6	40	--
05/31/06 ¹⁴	NP ¹⁸	27.91	8.17	19.74	--	--	4,100	33	5	3	34	--
08/18/06 ¹⁴	27.91	9.12	18.79	--	--	3,300	23	4	1	5	33	--
11/17/06 ¹⁴	27.91	9.27	18.64	--	--	3,200	18	3	0.6	3	33	--
02/09/07 ¹⁴	NP ¹⁸	27.91	8.38	19.53	--	--	3,600	23	4	2	28	--
05/11/07 ¹⁴	NP ¹⁸	27.91	8.38	19.53	--	--	3,200	14	3	1	26	--
08/10/07 ¹⁴	NP ¹⁸	27.91	9.50	18.41	--	--	2,400	10	2	0.6	21	--
11/08/07 ¹⁴	NP ¹⁸	27.91	9.66	18.25	--	--	3,000	10	2	0.5	18	--
02/07/08 ¹⁴	NP ¹⁸	27.91	7.15	20.76	--	--	4,000	14	3	5	14	--
05/02/08 ¹⁴	NP ¹⁸	27.91	8.95	18.96	--	--	3,000	14	3	2	17	--
07/31/08 ¹⁴	NP ¹⁸	27.91	9.68	18.23	--	--	2,700	13	2	0.8	14	--
11/13/08 ¹⁴	NP ¹⁸	27.91	10.18	17.73	--	--	2,500	6	1	<0.5	12	--
02/02/09 ¹⁴	NP ¹⁸	27.91	9.91	18.00	--	--	4,000	7	1	<0.5	12	--
05/01/09 ¹⁴	NP ¹⁸	27.91	9.16	18.75	--	--	3,900	20	3	3	15	--
08/10/09 ¹⁴	NP ¹⁸	27.91	9.67	18.24	--	--	1,400	6	1	<0.5	11	--
01/29/10 ¹⁴	NP ¹⁸	27.91	7.23	20.68	--	--	3,700	24	4	5	13	--

Table 2
Groundwater Monitoring Data and Analytical Results
Former Chevron-branded Service Station 94612
3616 San Leandro Street
Oakland, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-MO (µg/L)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MIBE (µg/L)	TOG (µg/L)	
VH-1 (cont)													
08/23/10 ¹⁴	NP ¹⁸	27.91	9.28	18.63	--	--	3,600	18	3	2	4	9	--
08/22/11 ¹⁴		27.91	9.28	18.63	--	--	3,400	12	2	0.8	3	7	--
05/10/12 ¹⁴	NP ¹⁸	27.91	8.26	19.65	--	--	3,100	12	3	2	4	6	--
05/08/13 ¹⁴	NP ¹⁸	27.91	8.98	18.93	--	--	3,500	12	2	1	5	5	--
05/13/14 ¹⁴	NP ¹⁸	27.91	8.71	19.20	--	--	390	<0.5	<0.5	<0.5	<0.5	2	--
05/14/15 ¹⁴	NP ¹⁸	27.91	9.15	18.76	--	--	290	<0.5	<0.5	<0.5	<0.5	2	--
05/02/16¹⁴	NP¹⁸	27.91	8.30	19.61	--	--	310	<0.5	<0.5	<0.5	<0.5	1	--
MW-2													
02/16/93		27.51	--	--	--	--	9,200	720	110	250	170	--	--
03/26/93		27.51	7.62	19.89	--	--	--	--	--	--	--	--	--
05/27/93		27.51	9.47	18.04	--	--	360	5.3	2.1	1.8	2.5	--	--
08/18/93		27.51	11.05	16.46	--	--	9,400	1,100	76	110	100	--	--
11/03/93		27.51	12.95	14.56	--	--	8,600	390	20	2.7	120	--	--
02/10/94		27.51	9.79	17.72	--	--	2,700	370	38	44	41	--	--
05/12/94		27.51	8.92	18.59	--	--	3,800	650	76	15	62	--	--
08/26/94		27.51	11.37	16.14	--	--	16,000	1,300	270	28	120	--	--
11/14/94		27.51	10.03	17.48	--	--	5,100	390	10	43	27	--	--
02/01/95		27.51	7.04	20.47	--	--	6,900	520	82	170	110	--	--
05/12/95		27.51	8.75	18.76	--	--	7,700	510	83	110	100	--	--
08/22/95		27.51	10.16	17.35	--	--	4,500	220	16	61	47	--	--
12/19/95		27.51	9.46	18.05	--	--	2,900	240	<10	19	18	220	--
01/31/96		27.51	5.60	21.91	--	--	3,900	320	18	72	39	<25	--
04/30/96		27.51	8.83	18.68	--	--	5,600	200	36	55	47	170	--
08/01/96		27.51	10.26	17.25	--	--	6,200	190	15	62	59	220	--
10/30/96		27.51	11.48	16.03	--	--	5,700	190	<25	67	36	260	--
02/07/97		27.51	9.40	18.11	--	--	8,300	210	34	70	59	330	--
05/07/97		27.51	9.94	17.57	--	--	6,900	190	12	38	37	530	--
07/22/97		27.51	11.15	16.36	--	--	10,000	18	25	62	41	630	--
11/03/97		27.51	11.58	15.93	--	--	6,500	260	8.5	26	14	590/9.6 ^{4,12}	--
01/28/98		27.51	8.13	19.38	--	--	6,700	65	13	67	54	280/94 ¹²	--
05/08/98		27.51	8.62	18.89	--	--	5,500	91	38	43	61	220/62 ¹²	--
07/29/98		27.51	10.45	17.06	--	--	3,600	41	8.9	3.6	14	16/94 ¹²	--
11/06/98		27.51	11.62	15.89	--	--	6,900	77	<5.0	14	17	290/110 ¹²	--
02/09/99 ⁵		27.51	6.90	20.61	--	--	8,070	75.6	<10	<10	<10	397/144 ¹²	--
05/13/99		27.51	9.30	18.21	--	--	5,890	120	<5.0	12.5	26.6	401/69.4 ¹²	--
09/07/99		27.51	10.94	16.57	--	--	5,820	41.2	<5.0	14.6	<5.0	260/145 ¹²	--
11/24/99		27.51	11.53	15.98	--	--	5,940	40.9	<10	10.8	<10	120 ^{1,12}	--

Table 2
Groundwater Monitoring Data and Analytical Results
Former Chevron-branded Service Station 94612
3616 San Leandro Street
Oakland, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-MO (µg/L)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MIBE (µg/L)	TOG (µg/L)
MW-2 (cont)												
02/25/00	27.51	6.51	21.00	--	--	6,370	101	9.37	39.8	33.2	321/121 ¹²	--
05/10/00	27.51	9.02	18.49	--	--	6,100 ⁸	110	13	27	31	560/120 ¹²	--
07/31/00 ¹¹	27.51	10.33	17.18	--	--	3,000 ⁸	75	14	28	28	200/130 ¹²	--
10/30/00 ¹¹	27.51	10.56	16.95	--	--	6,810 ¹⁰	162	<5.00	8.05	<15.0	372/140 ¹²	--
02/05/01 ¹¹	28.05	9.58	18.47	--	--	5,860	28.4	6.86	16.2	11.8	285/140 ¹²	--
05/07/01 ¹¹	28.05	9.20	18.85	--	--	4,700 ⁶	120	15	30	42	540/88 ¹²	--
08/06/01 ¹¹	28.05	10.74	17.31	--	--	3,700 ⁶	120	<20	28	33	490/110 ¹²	--
11/12/01 ¹¹	28.05	11.45	16.60	--	--	7,000	29	<10	27	22	93/98 ¹²	--
02/11/02 ¹¹	28.05	9.06	18.99	--	--	5,900	43	15	24	27	90/86 ¹²	--
05/13/02 ¹¹	28.05	9.64	18.41	--	--	5,500	26	5.2	23	26	120/47 ¹²	--
08/09/02 ¹¹	28.05	10.29	17.76	--	--	5,700	26	3.7	26	50	100/69 ¹²	--
11/07/02 ¹¹	28.05	11.27	16.78	--	--	5,900	33	4.4	23	21	<100/69 ¹²	--
02/04/03 ¹¹	28.05	9.13	18.92	--	--	5,400	22	4.7	13	14	<50/55 ¹²	--
05/05/03 ¹¹	28.05	8.38	19.67	--	--	4,500	23	4.7	12	15	<50/31 ¹²	--
09/06/03 ^{11,14}	28.05	10.40	17.65	--	--	3,200	13	2	7	7	54	--
11/14/03 ^{11,14}	28.05	10.62	17.43	--	--	4,000	11	2	7	6	55	--
02/13/04 ^{14,15}	28.05	8.79	19.26	--	--	6,200	6	2	8	8	31	--
05/13/04 ¹⁴	28.05	9.56	18.49	--	--	3,200	6	3	13	11	34	--
08/17/04 ¹⁴	28.05	10.48	17.57	--	--	4,300	7	1	6	5	46	--
11/10/04 ¹⁴	28.05	9.53	18.52	--	--	3,000	5	1	6	7	37	--
02/08/05 ¹⁴	28.05	8.71	19.34	--	--	4,700	3	2	10	8	22	--
06/03/05 ¹⁴	28.05	9.01	19.04	--	--	4,100	4	3	15	11	23	--
08/05/05 ¹⁴	28.05	9.76	18.29	--	--	3,500	4	1	<0.5	8	23	--
12/02/05 ¹⁴	28.05	9.64	18.41	--	--	2,900	4	2	3	3	24	--
03/03/06 ¹⁴	28.05	8.04	20.01	--	--	3,800	5	6	4	5	9	--
05/31/06 ¹⁴	28.05	9.01	19.04	--	--	4,600	2	1	3	3	8	--
08/18/06 ¹⁴	28.05	9.91	18.14	--	--	4,300	2	1	11	7	14	--
11/17/06 ¹⁴	28.05	9.95	18.10	--	--	4,600	2	0.7	7	4	14	--
02/09/07 ¹⁴	28.05	9.10	18.95	--	--	3,600	1	0.6	3	3	9	--
05/11/07 ¹⁴	28.05	9.12	18.93	--	--	3,600	2	1	5	5	8	--
08/10/07 ¹⁴	28.05	10.20	17.85	--	--	3,600	1	1	7	4	9	--
11/08/07 ¹⁴	28.05	10.35	17.70	--	--	3,600	2	0.7	5	2	7	--
02/07/08 ¹⁴	28.05	7.92	20.13	--	--	5,000	1	1	5	3	5	--
05/02/08 ¹⁴	28.05	9.49	18.56	--	--	3,300	1	0.9	3	2	4	--
07/31/08 ¹⁴	28.05	10.35	17.70	--	--	3,000	2	0.6	2	1	5	--
11/13/08 ¹⁴	28.05	10.81	17.24	--	--	3,800	2	0.5	2	0.8	4	--
02/02/09 ¹⁴	28.05	9.97	18.08	--	--	3,500	2	0.6	2	1	5	--
05/01/09 ¹⁴	28.05	9.70	18.35	--	--	3,900	2	1	4	3	4	--
08/10/09 ¹⁴	28.05	10.38	17.67	--	--	3,100	2	0.8	2	1	4	--

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WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-MO (µg/L)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MIBE (µg/L)	TOG (µg/L)
MW-2 (cont)												
01/29/10 ¹⁴	28.05	7.98	20.07	--	--	3,200	1	0.8	2	1	5	--
08/23/10 ¹⁴	28.05	10.03	18.02	--	--	3,500	1	0.6	1	0.7	3	--
08/22/11 ¹⁴	28.05	9.73	18.32	--	--	3,700	1	0.6	1	0.9	3	--
05/10/12 ¹⁴	28.05	8.95	19.10	--	--	2,600	0.8	0.8	1	1	2	--
05/08/13 ¹⁴	28.05	9.66	18.39	--	--	2,800	0.9	0.5	0.5	0.7	2	--
05/13/14 ¹⁴	28.05	9.41	18.64	--	--	2,400	0.8	<0.5	<0.5	<0.5	2	--
05/14/15 ¹⁴	28.05	9.85	18.20	--	--	2,400	0.7	<0.5	<0.5	<0.5	1	--
05/02/16¹⁴	28.05	9.01	19.04	--	--	3,000	0.5	<0.5	<0.5	<0.5	0.9	--
MW-3												
02/16/93	28.50	--	--	--	--	3,500	<0.5	8.1	4.6	7.7	--	--
03/26/93	28.50	7.18	21.32	--	--	--	--	--	--	--	--	--
05/27/93	28.50	9.33	19.17	--	--	4,200	580	84	150	100	--	--
08/18/93	28.50	12.00	16.50	--	1,400	910	12	3.7	6.2	3.8	--	<5,000
11/03/93	28.50	13.29	15.21	--	--	5,300	29	1.9	0.6	27	--	--
02/10/94	28.50	9.63	18.87	--	<50	63	<0.5	0.7	<0.5	<0.5	--	--
05/12/94	28.50	8.77	19.73	--	84	<50	<0.5	0.5	<0.5	<0.5	--	--
08/26/94	28.50	11.42	17.08	--	--	2,100	12	<0.5	5.0	0.5	--	--
11/14/94	28.50	10.07	18.43	--	--	140	0.78	<0.5	<0.5	<0.5	--	--
02/01/95	28.50	6.29	22.21	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/12/95	28.50	8.07	20.43	--	540 ²	330	13	1.1	1.9	0.69	--	--
08/22/95	28.50	9.95	18.55	--	550 ²	980	32	<1.0	<1.0	<1.0	--	--
12/19/95	28.50	9.40	19.10	--	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/31/96	28.50	5.05	23.45	--	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/30/96	28.50	8.40	20.10	--	240 ²	320	2.4	<0.5	0.75	<0.5	7.8	--
08/01/96	28.50	9.80	18.70	--	470 ²	980	9.6	<0.5	0.98	2.2	54	--
10/30/96	28.50	11.48	17.02	--	760 ²	2,000	14	<10	<10	<10	140	--
02/07/97	28.50	8.60	19.90	--	61 ²	200 ²	<0.5	<0.5	<0.5	<0.5	8.9	--
05/07/97	28.50	9.01	19.49	--	550 ²	3,500	14	3.9	3.6	8.0	160	--
07/22/97	28.50	11.12	17.38	--	800 ²	3,500	55	<10	<10	<10	150	--
11/03/97	28.50	11.51	16.99	--	910 ²	4,100	140	<5.0	<5.0	<5.0	380	--
01/28/98	28.50	7.34	21.16	--	--	1,100	24	<1.2	<1.2	2.8	33/6.1 ¹²	--
05/08/98	28.50	8.06	20.44	--	250 ²	990	3.6	7.7	0.7	2.2	37/7.5 ¹²	--
07/29/98	28.50	10.25	18.25	--	290 ²	1,200	13	<0.5	<0.5	1.4	11/28 ¹²	--
11/06/98	28.50	11.39	17.11	--	390 ²	2,600	5.3	<2.5	<2.5	3.0	91/41 ¹²	--
02/09/99 ⁵	28.50	6.10	22.40	--	184 ²	406	<1.0	4.03	<1.0	<1.0	17.7/1.97 ¹²	--
05/13/99	28.50	9.12	19.38	--	--	615	13.8	1.05	<0.5	<0.5	43.5/21.2 ¹²	--
09/07/99	28.50	10.73	17.77	--	528 ²	2,710	<5.0	<5.0	<5.0	<5.0	96.3/57.9 ¹²	--

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MW-3 (cont)												
11/24/99	28.50	11.13	17.37	--	1,070 ²	5,530	<5.0	<5.0	5.59	<5.0	66 ^{1,12}	--
02/25/00	28.50	6.28	22.22	--	--	189	4.68	<0.5	<0.5	<0.5	11.9/<2.0 ¹²	--
03/01/00	28.50	6.70	21.80	--	380 ²	--	--	--	--	--	--	--
05/10/00	28.50	8.60	19.90	--	830 ⁷	1,600 ⁶	22	<10	<10	<10	100/51 ¹²	--
07/31/00 ¹¹	28.50	10.07	18.43	--	490 ⁷	2,200 ⁶	76	10	<5.0	13	230/52 ¹²	--
10/30/00 ¹¹	28.50	10.53	17.97	--	580 ⁹	3,320 ¹⁰	<5.00	<5.00	<5.00	<15.0	147/64 ¹²	--
02/05/01 ¹¹	29.04	9.26	19.78	--	--	3,960	<5.00	6.02	<5.00	<5.00	159/70 ¹²	--
05/07/01 ¹¹	29.04	8.75	20.29	--	--	2,800 ⁶	61	12	<10	20	230/49 ¹²	--
05/10/01 ¹¹	29.04	8.83	20.21	--	390 ¹³	--	--	--	--	--	--	--
08/06/01 ¹¹	29.04	10.45	18.59	--	870 ⁷	1,600 ⁶	39	14	1.3	5.6	130/43 ¹²	--
11/12/01 ¹¹	29.04	11.22	17.82	--	1,400	3,100	3.6	23	2.3	5.6	40/46 ¹²	--
02/11/02 ¹¹	29.04	8.38	20.66	--	700	4,000	10	<5.0	4.2	5.5	44/42 ¹²	--
05/13/02 ¹¹	29.04	9.20	19.84	--	730	2,500	18	<5.0	<5.0	5.2	44/32 ¹²	--
08/09/02 ¹¹	29.04	10.17	18.87	--	560	2,700	17	<5.0	<5.0	<10	45/33 ¹²	--
11/07/02 ¹¹	29.04	11.13	17.91	--	660	2,600	24	<5.0	2.0	4.8	51/37 ¹²	--
02/04/03 ¹¹	29.04	8.60	20.44	--	370	2,200	13	1.5	2.7	5.0	<50/24 ¹²	--
05/05/03 ¹¹	29.04	7.82	21.22	--	580	2,100	14	1.8	2.0	3.9	<20/19 ¹²	--
09/06/03 ^{11,14}	29.04	10.25	18.79	--	780	1,800	2	0.6	0.6	1	28	--
11/14/03 ^{11,14}	29.04	10.52	18.52	--	860	2,000	1	0.6	0.6	0.9	30	--
02/13/04 ^{14,15}	29.04	8.28	20.76	--	590	3,600	1	0.6	1	2	21	--
05/13/04 ¹⁴	29.04	9.17	19.87	--	670	1,600	1	<0.5	0.5	1	20	--
08/17/04 ¹⁴	29.04	10.25	18.79	--	900	2,500	1	<0.5	<0.5	0.7	25	--
11/10/04 ¹⁴	29.04	9.23	19.81	--	780	1,500	1	0.6	0.5	1	27	--
02/08/05 ¹⁴	29.04	8.12	20.92	--	530	2,500	1	0.6	2	3	11	--
06/03/05 ¹⁴	29.04	8.57	20.47	--	600	1,700	1	<0.5	0.7	1	9	--
08/05/05 ¹⁴	29.04	10.60	18.44	--	530 ¹⁶	980	0.6	<0.5	<0.5	0.8	9	--
12/02/05 ¹⁴	29.04	9.58	19.46	--	1,400 ¹⁷	2,400	1	2	0.8	1	7	--
03/03/06 ¹⁴	29.04	7.58	21.46	--	530	2,300	0.8	1	<0.5	1	4	--
05/31/06 ¹⁴	29.04	8.53	20.51	--	480	2,700	0.6	<0.5	<0.5	0.8	4	--
08/18/06 ¹⁴	29.04	9.71	19.33	--	410	2,700	<0.5	<0.5	<0.5	0.6	6	--
11/17/06 ¹⁴	29.04	9.81	19.23	--	390	2,600	<0.5	<0.5	<0.5	1	4	--
02/09/07 ¹⁴	29.04	8.88	20.16	--	640	2,100	<0.5	<0.5	<0.5	1	3	--
05/11/07 ¹⁴	29.04	8.71	20.33	--	350	1,400	<0.5	<0.5	<0.5	2	2	--
08/10/07 ¹⁴	29.04	9.98	19.06	--	340	1,300	<0.5	<0.5	<0.5	1	2	--
11/08/07 ¹⁴	29.04	10.11	18.93	--	440	1,400	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/07/08 ¹⁴	29.04	7.28	21.76	--	320	2,100	<0.5	0.7	1	2	0.7	--
05/02/08 ¹⁴	29.04	9.18	19.86	--	260	1,300	<0.5	<0.5	<0.5	<0.5	2	--
07/31/08 ¹⁴	29.04	10.13	18.91	--	500	2,900	<0.5	<0.5	<0.5	<0.5	1	--
11/13/08 ¹⁴	29.04	10.58	18.46	--	880	1,800	<0.5	<0.5	<0.5	<0.5	2	--

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MW-3 (cont)												
02/02/09 ¹⁴	29.04	9.58	19.46	--	310 ¹⁹	2,000	<0.5	<0.5	<0.5	<0.5	2	--
05/01/09 ¹⁴	29.04	9.40	19.64	--	51 ²⁰	1,500	<0.5	<0.5	<0.5	<0.5	2	--
08/10/09 ¹⁴	29.04	10.21	18.83	--	470	1,300	<0.5	<0.5	<0.5	<0.5	3	--
01/29/10 ¹⁴	29.04	7.39	21.65	--	420	2,600	<0.5	<0.5	2	1	1	--
08/23/10 ¹⁴	29.04	9.70	19.34	--	410	2,000	<0.5	<0.5	<0.5	<0.5	2	--
08/22/11 ¹⁴	29.04	9.96	19.08	<41/<40 ²¹	500/250 ²¹	2,500	<0.5	<0.5	<0.5	<1	2	--
05/10/12 ¹⁴	29.04	8.50	20.54	--	350/160 ²¹	1,300	<0.5	<0.5	<0.5	<0.5	1	--
05/08/13 ¹⁴	29.04	9.40	19.64	--	460/140 ^{21,22}	1,700	<0.5	<0.5	<0.5	<0.5	2	--
05/13/14 ¹⁴	29.04	9.03	20.01	--	200/140 ^{21,22}	1,200	<0.5	<0.5	<0.5	<0.5	1	--
05/14/15 ¹⁴	29.04	9.53	19.51	--	260/120 ^{21,22}	1,800	<0.5	<0.5	<0.5	<0.5	1	--
05/02/16¹⁴	29.04	8.55	20.49	--	160^{21,22}	2,000	<0.5	<0.5	<0.5	<0.5	0.8	--
MW-4												
08/22/95	27.27	9.11	18.16	--	--	9,600	100	<10	<10	<10	--	--
12/19/95	27.27	8.30	18.97	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/31/96	27.27	5.60	21.67	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/30/96	27.27	7.00	20.27	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
08/01/96	27.27	9.15	18.12	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/30/96	27.27	10.74	16.53	--	--	110	<0.5	<0.5	<0.5	<0.5	<2.5	--
02/07/97	27.27	7.80	19.47	--	--	80	<0.5	<0.5	<0.5	<0.5	4.1	--
05/07/97	27.27	5.85	21.42	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/22/97	27.27	10.05	17.22	--	--	150	<0.5	<0.5	<0.5	<0.5	<2.5	--
11/03/97	27.27	10.72	16.55	--	--	52	0.9	<0.5	<0.5	<0.5	-- ³	--
01/28/98	27.27	6.51	20.76	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5/<2.0 ¹²	--
05/08/98	27.27	7.02	20.25	--	--	56	<0.5	<0.5	<0.5	<0.5	<2.5/<2.0 ¹²	--
07/29/98	27.27	8.95	18.32	--	--	<50	0.9	<0.5	<0.5	<0.5	<2.5/<2.0 ¹²	--
11/06/98	27.27	10.59	16.68	--	--	72	<0.5	<0.5	<0.5	<0.5	<2.5/<2.0 ¹²	--
02/09/99	27.27	5.86	21.41	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0/<1.1 ¹²	--
05/13/99	27.27	7.95	19.32	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0/<2.0 ¹²	--
09/07/99	27.27	9.48	17.79	--	--	70.2	<0.5	<0.5	<0.5	<0.5	<2.0/<1.0 ¹²	--
11/24/99	27.27	10.05	17.22	--	--	227	<0.5	<0.5	<0.5	<0.5	<0.5 ¹²	--
02/25/00	27.27	INACCESSIBLE		--	--	--	--	--	--	--	--	--
03/01/00	27.27	6.17	21.10	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5/<2.0 ¹²	--
05/10/00	27.27	INACCESSIBLE - CAR PARKED OVER WELL		--	--	--	--	--	--	--	--	--
07/31/00	27.27	9.37	17.90	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5/<2.0 ¹²	--
10/30/00	27.27	9.47	17.80	--	--	54.0 ¹⁰	<0.500	<0.500	<0.500	<1.50	<2.50/<2.0 ¹²	--
02/05/01	27.27	INACCESSIBLE - CAR PARKED OVER WELL		--	--	--	--	--	--	--	--	--
05/07/01	27.27	7.81	19.46	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5/<2.0 ¹²	--

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WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-MO (µg/L)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MIBE (µg/L)	TOG (µg/L)
MW-4 (cont)												
08/06/01	27.27	9.78	17.49	--	--	<50	1.1	0.52	<0.50	1.1	6.0/<2.0 ¹²	--
11/12/01	27.27	10.41	16.86	--	--	93	<0.50	<0.50	<0.50	<1.5	<2.5/<2 ¹²	--
02/11/02	27.27	7.64	19.63	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 ¹²	--
05/13/02	27.27	8.32	18.95	--	--	54	<0.50	0.84	<0.50	<1.5	<2.5/<2 ¹²	--
08/09/02	27.27	9.25	18.02	--	--	54	<0.50	<0.50	<0.50	<1.5	<2.5/<2 ¹²	--
11/07/02	27.27	10.42	16.85	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 ¹²	--
02/04/03	27.27	7.75	19.52	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<0.5 ¹²	--
05/05/03	27.27	6.90	20.37	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5/<0.5 ¹²	--
09/06/03 ¹⁴	27.27	9.50	17.77	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/14/03 ¹⁴	27.27	9.80	17.47	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/13/04 ¹⁴	27.27	7.36	19.91	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/13/04 ¹⁴	27.27	8.28	18.99	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/17/04 ¹⁴	27.27	9.63	17.64	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/10/04 ¹⁴	27.27	8.46	18.81	--	--	52	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/08/05 ¹⁴	27.27	7.20	20.07	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
06/03/05 ¹⁴	27.27	7.61	19.66	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/05/05 ¹⁴	27.27	9.44	17.83	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
12/02/05 ¹⁴	27.27	8.35	18.92	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
03/03/06 ¹⁴	27.27	6.45	20.82	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/31/06 ¹⁴	27.27	7.51	19.76	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/18/06 ¹⁴	27.27	8.42	18.85	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/17/06 ¹⁴	27.27	8.96	18.31	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/09/07 ¹⁴	27.27	7.73	19.54	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/11/07 ¹⁴	27.27	7.60	19.67	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/10/07 ¹⁴	27.27	9.01	18.26	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/08/07 ¹⁴	27.27	9.26	18.01	--	--	<50	<0.5	<0.5	<0.5	1	1	--
02/07/08 ¹⁴	27.27	6.38	20.89	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/02/08 ¹⁴	27.27	8.12	19.15	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/31/08 ¹⁴	27.27	9.28	17.99	--	--	75	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/13/08 ¹⁴	27.27	9.93	17.34	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/02/09 ¹⁴	27.27	9.02	18.25	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/01/09 ¹⁴	27.27	8.29	18.98	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/10/09 ¹⁴	27.27	9.50	17.77	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
01/29/10 ¹⁴	27.27	6.57	20.70	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/23/10 ¹⁴	27.27	8.96	18.31	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/22/11 ¹⁴	27.27	8.85	18.42	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/10/12 ¹⁴	27.27	7.55	19.72	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/08/13 ¹⁴	27.27	8.58	18.69	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--

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MW-4 (cont)												
05/13/14 ¹⁴	27.27	8.29	18.98	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/14/15 ¹⁴	27.27	8.81	18.46	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/02/16¹⁴	27.27	7.64	19.63	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
TRIP BLANK												
05/27/93	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
08/18/93	--	--	--	--	1,400	<50	<0.5	<0.5	<0.5	<1.5	--	<5,000
11/03/93	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/10/94	--	--	--	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/12/94	--	--	--	--	84	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/26/94	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/14/94	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/01/95	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/12/95	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/22/95	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/19/95	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/31/96	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/30/96	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
08/01/96	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/30/96	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
02/07/97	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/07/97	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/22/97	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/28/98	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0 ¹²	--
05/08/98	--	--	--	--	--	--	--	--	--	--	<2.0 ¹²	--
07/29/98	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0 ¹²	--
11/06/98	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
02/09/99	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
05/13/99	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0/<2.0 ¹²	--
09/07/99	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
11/24/99	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
02/25/00	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
03/01/00	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/10/00	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
07/31/00	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
10/30/00	--	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<1.50	<2.50	--
02/05/01	--	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
05/07/01	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--

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TRIP BLANK (cont)				--	--	--	--	--	--	--	--	--
05/10/01	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
08/06/01	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
QA				--	--	--	--	--	--	--	--	--
11/12/01	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
02/11/02	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
05/13/02	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
08/09/02	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
11/07/02	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
02/04/03	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
05/05/03	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
09/06/03 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/14/03 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/13/04 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/13/04 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/17/04 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/10/04 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/08/05 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
06/03/05 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/05/05 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
12/02/05 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
03/03/06 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/31/06 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/18/06 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/17/06 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/09/07 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/11/07 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/10/07 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/08/07 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/07/08 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/02/08 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/31/08 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/13/08 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/02/09 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/01/09 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/10/09 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/08/13 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/13/14 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/14/15 ¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/02/16¹⁴	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--

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EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to May 10, 2000 were compiled from reports prepared by Blaine Tech Services, Inc. Groundwater monitoring data and laboratory analytical results from May 10, 2000 to May 10, 2012 were provided by Gettler-Ryan Inc. Current groundwater monitoring data was provided by Gettler-Ryan Inc. Current laboratory analytical results were provided by Eurofins Lancaster Laboratories.

TOC = Top of Casing (ft.) = Feet	DRO = Diesel Range Organics GRO = Gasoline Range Organics	TOG = Total Oil and Grease (µg/L) = Micrograms per liter
GWE = Groundwater Elevation (msl) = Mean sea level	B = Benzene T = Toluene	NP = No purge -- = Not Measured/Not Analyzed
DTW = Depth to Water	E = Ethylbenzene	QA = Quality Assurance/Trip Blank
TPH = Total Petroleum Hydrocarbons	X = Xylenes	
MO = Motor Oil	MtBE = Methyl tertiary-butyl ether	

* TOC elevations were re-surveyed on March 8, 2001, by Virgil Chavez Land Surveying. The benchmark for the survey was a City of Oakland benchmark, being a cut square top of curb at the centerline return at the northwest corner of East 14th and 37th Avenue, (Benchmark Elevation = 38.21 feet, NGVD 29).

- ¹ Lab could not get a good ion chromatogram match for MtBE. See laboratory report.
- ² Chromatogram pattern indicates an unidentified hydrocarbon.
- ³ No value for MtBE could be determined; see lab report for analyses.
- ⁴ Confirmation run.
- ⁵ ORC was installed.
- ⁶ Laboratory report indicates gasoline C6-C12.
- ⁷ Laboratory report indicates unidentified hydrocarbons <C16.
- ⁸ Laboratory report indicates gasoline C6-C12 + unidentified hydrocarbons <C6.
- ⁹ Laboratory report indicates unidentified hydrocarbons >C16.
- ¹⁰ Laboratory report indicates hydrocarbon pattern present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
- ¹¹ ORC in well.
- ¹² MtBE by EPA Method 8260.
- ¹³ Laboratory report indicates unidentified hydrocarbons C9-C17.
- ¹⁴ BTEX and MtBE by EPA Method 8260.
- ¹⁵ ORC removed from well.
- ¹⁶ Laboratory report indicates the observed sample pattern is not typical of #2 fuel/diesel. It eludes in the TPH-DRO range earlier and later than #2 fuel.
- ¹⁷ Laboratory report indicates the observed sample pattern is not typical of #2 fuel/diesel. It eludes in the TPH-DRO range earlier than #2 fuel.
- ¹⁸ No purge; unable to access well with truck.
- ¹⁹ Laboratory report indicates the LCS/LCSD recovery for the TPH-DRO analysis is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.
- ²⁰ Laboratory report indicates the surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction. Therefore, all results are reported from the original extract. The TPH-DRO result for the reextraction was 190 ug/L.
- ²¹ Analyzed with silica gel cleanup.
- ²² Laboratory report indicates the reverse surrogate, capric acid, is present at <1%.

Table 3
Groundwater Analytical Results - Oxygenate Compounds
 Former Chevron-branded Service Station 94612
 3616 San Leandro Street
 Oakland, California

WELL ID	DATE	ETHANOL (µg/L)	TBA (µg/L)	DIPE (µg/L)	EtBE (µg/L)	TAME (µg/L)
VH-1	02/05/01	<500	<50	<2.0	<2.0	<2.0
MW-2	02/05/01	<500	<50	<2.0	<2.0	<2.0
MW-3	02/05/01	<500	<50	<2.0	<2.0	<2.0
	08/22/11	<50	<5	<0.5	<0.5	<0.5

Table 3
Groundwater Analytical Results - Oxygenate Compounds

Former Chevron-branded Service Station 94612
3616 San Leandro Street
Oakland, California

EXPLANATIONS:

TBA = Tertiary-Butyl Alcohol

DIPE = Di-Isopropyl Ether

EtBE = Ethyl Tertiary-Butyl Ether

TAME = Tertiary-Amyl Methyl Ether

(µg/L) = Micrograms per liter

-- = Not Analyzed

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

Table 4
Groundwater Analytical Results - Metals and PPL Volatiles

Former Chevron-branded Service Station 94612
 3616 San Leandro Street
 Oakland, California

WELL ID/ DATE	Cadmium (µg/L)	Chromium (µg/L)	Lead (µg/L)	Nickel (µg/L)	Zinc (µg/L)	n- Butylbenzene (µg/L)	sec- Butylbenzene (µg/L)	tert- Butylbenzene (µg/L)	Naphthalene (µg/L)
MW-3									
08/22/11	2.6	173	8.3	308	123	3	3	4	2

EXPLANATIONS:

(µg/L) = Micrograms per liter

PPL = priority pollutant list

Only metals and PPL volatiles with historically detected concentrations are shown.

ANALYTICAL METHODS:

PPL volatiles by EPA Method 8260B

Wear metals by EPA Method 6010B

Table 5
Groundwater Analytical Results - PCBs
 Former Chevron-branded Service Station 94612
 3616 San Leandro Street
 Oakland, California

WELL ID/ DATE	PCB- 1016 (µg/L)	PCB- 1221 (µg/L)	PCB- 1232 (µg/L)	PCB- 1242 (µg/L)	PCB- 1248 (µg/L)	PCB- 1254 (µg/L)	PCB- 1260 (µg/L)
MW-3 08/22/11	<0.099	<0.099	<0.099	<0.099	<0.099	<0.099	<0.15

EXPLANATIONS:

(µg/L) = Micrograms per liter
 PCBs = Polychlorinated Biphenyls

ANALYTICAL METHODS:

PCBs by EPA Method 8082

**Table 6
Dissolved Oxygen Levels**

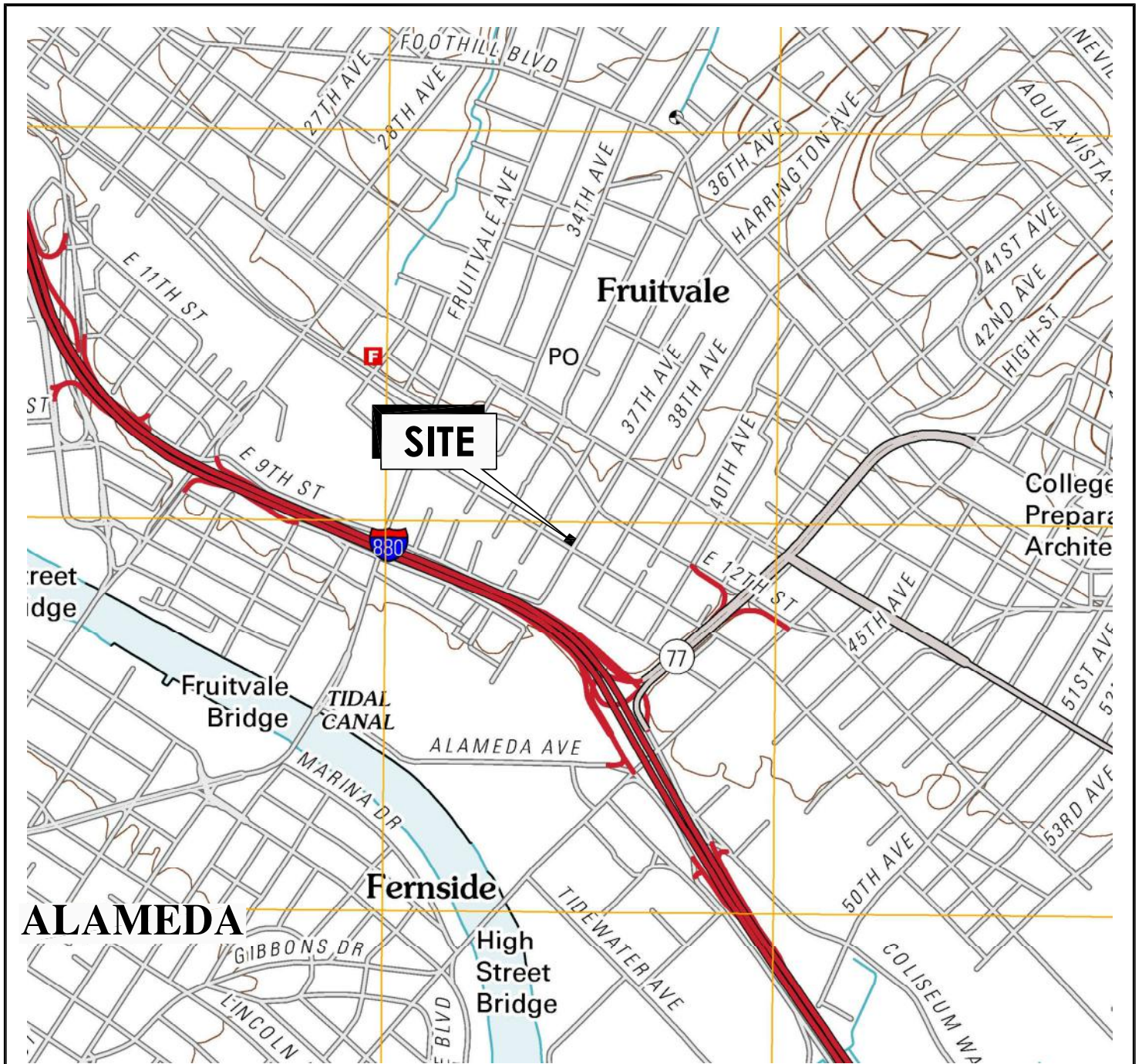
Former Chevron-branded Service Station 94612
3616 San Leandro Street
Oakland, California

WELL ID	DATE	PRE-PURGE D.O. (mg/L)
VH-1	05/10/00	0.90
	07/31/00	1.25
	10/30/00	1.97
	05/07/01	1.10
	08/06/01	1.40
	11/12/01	0.90
	02/11/02	1.10
	05/13/02	0.70
MW-2	05/10/00	0.57
	07/31/00	1.26
	10/30/00	1.25
	05/07/01	0.90
	08/06/01	1.10
	11/12/01	0.80
	02/11/02	0.60
	05/13/02	0.80
MW-3	05/10/00	1.56
	07/31/00	1.46
	10/30/00	1.18
	05/07/01	0.70
	08/06/01	0.90
	11/12/01	0.50
	02/11/02	0.80
	05/13/02	1.80
MW-4	07/31/00	0.64
	10/30/00	0.97
	05/07/01	0.50
	08/06/01	0.70
	11/12/01	1.00
	02/11/02	1.00
	05/13/02	2.90

EXPLANATIONS:

D.O. = Dissolved Oxygen
(mg/L) = Milligrams per liter
-- = Not Measured

FIGURES



CALIFORNIA



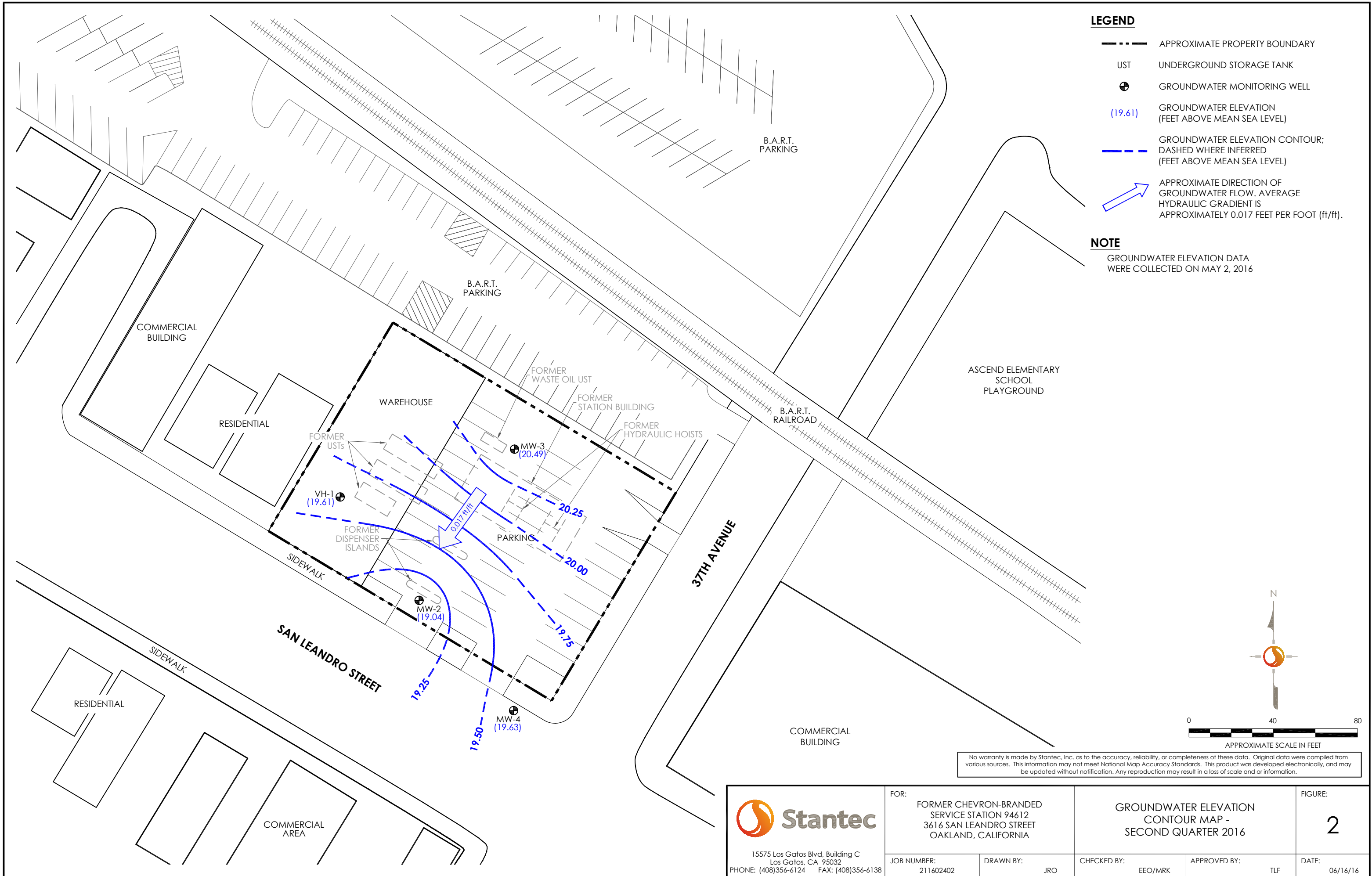
SCALE IN MILES



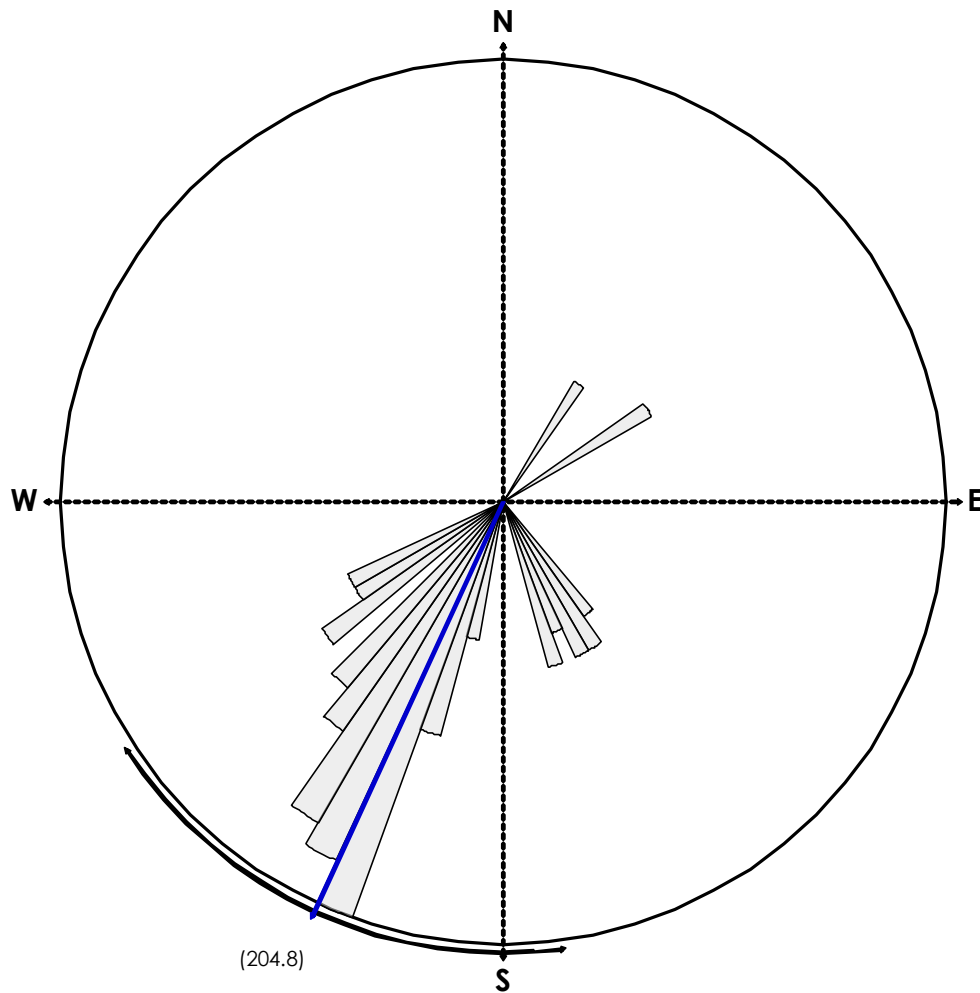
SCALE IN FEET

REFERENCE: USGS 7.5 MINUTE QUADRANGLE; OAKLAND EAST, CALIFORNIA; 2012

 15575 Los Gatos Blvd, Building C Los Gatos, CA 95032 PHONE: (408)356-6124 FAX: (408)356-6138	FOR: FORMER CHEVRON-BRANDED SERVICE STATION 94612 3616 SAN LEANDRO STREET OAKLAND, CALIFORNIA		SITE LOCATION MAP		FIGURE: 1
	JOB NUMBER: 211602402	DRAWN BY: JRO	CHECKED BY: EEO/MRK	APPROVED BY: TLF	DATE: 06/16/16



<p>15575 Los Gatos Blvd, Building C Los Gatos, CA 95032 PHONE: (408)356-6124 FAX: (408)356-6138</p>	FOR:	FORMER CHEVRON-BRANDED SERVICE STATION 94612 3616 SAN LEANDRO STREET OAKLAND, CALIFORNIA	GROUNDWATER ELEVATION CONTOUR MAP - SECOND QUARTER 2016		FIGURE:
	JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
	211602402	JRO	EEO/MRK	TLF	06/16/16






EQUAL AREA PLOT

Number of Points 64
 Class Size 5
 Vector Mean 204.81
 Vector Magnitude 53.63
 Consistency Ratio 0.84

NOTE: ROSE DIAGRAM IS BASED ON THE DIRECTION OF GROUNDWATER FLOW BEGINNING FIRST QUARTER 1993.

 15575 Los Gatos Blvd, Building C Los Gatos, CA 95032 PHONE: (408)356-6124 FAX: (408)356-6138	FOR: FORMER CHEVRON-BRANDED SERVICE STATION 94612 3616 SAN LEANDRO STREET OAKLAND, CALIFORNIA		GROUNDWATER FLOW DIRECTION ROSE DIAGRAM - SECOND QUARTER 2016		FIGURE: 3
	JOB NUMBER: 211602402	DRAWN BY: JRO	CHECKED BY: EEO/MRK	APPROVED BY: TLF	DATE: 06/16/16

LEGEND

-  APPROXIMATE PROPERTY BOUNDARY
-  UST UNDERGROUND STORAGE TANK
-  GROUNDWATER MONITORING WELL

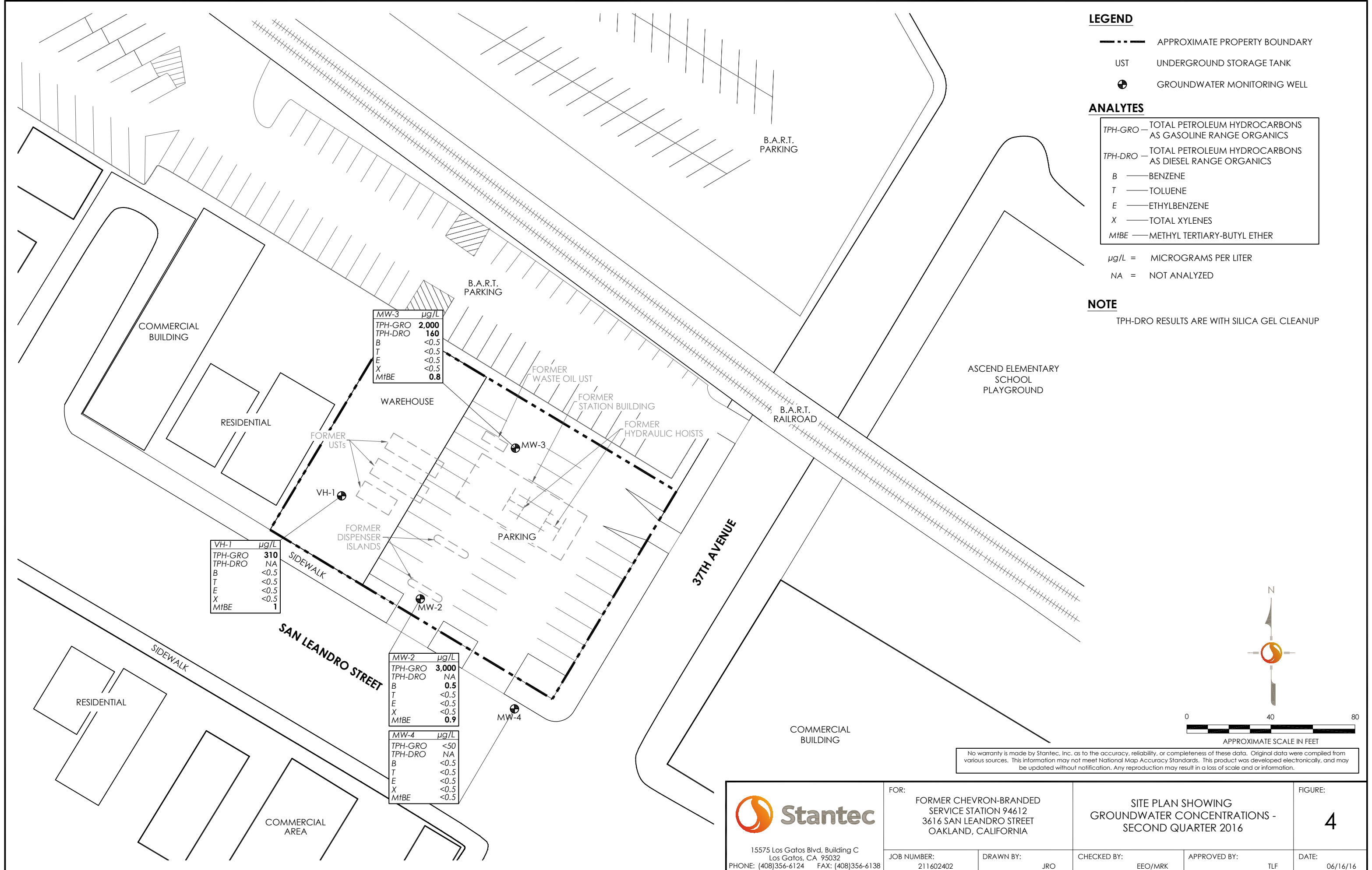
ANALYTES

- TPH-GRO — TOTAL PETROLEUM HYDROCARBONS AS GASOLINE RANGE ORGANICS
- TPH-DRO — TOTAL PETROLEUM HYDROCARBONS AS DIESEL RANGE ORGANICS
- B — BENZENE
- T — TOLUENE
- E — ETHYLBENZENE
- X — TOTAL XYLENES
- MtBE — METHYL TERTIARY-BUTYL ETHER

µg/L = MICROGRAMS PER LITER
 NA = NOT ANALYZED

NOTE

TPH-DRO RESULTS ARE WITH SILICA GEL CLEANUP

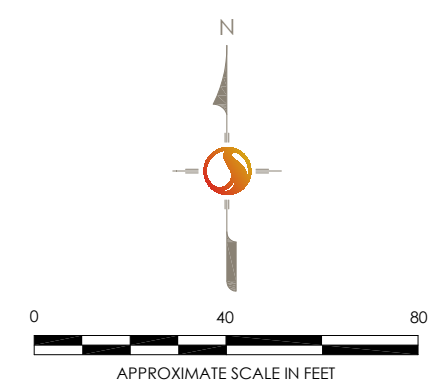


MW-3	µg/L
TPH-GRO	2,000
TPH-DRO	160
B	<0.5
T	<0.5
E	<0.5
X	<0.5
MtBE	0.8

VH-1	µg/L
TPH-GRO	310
TPH-DRO	NA
B	<0.5
T	<0.5
E	<0.5
X	<0.5
MtBE	1

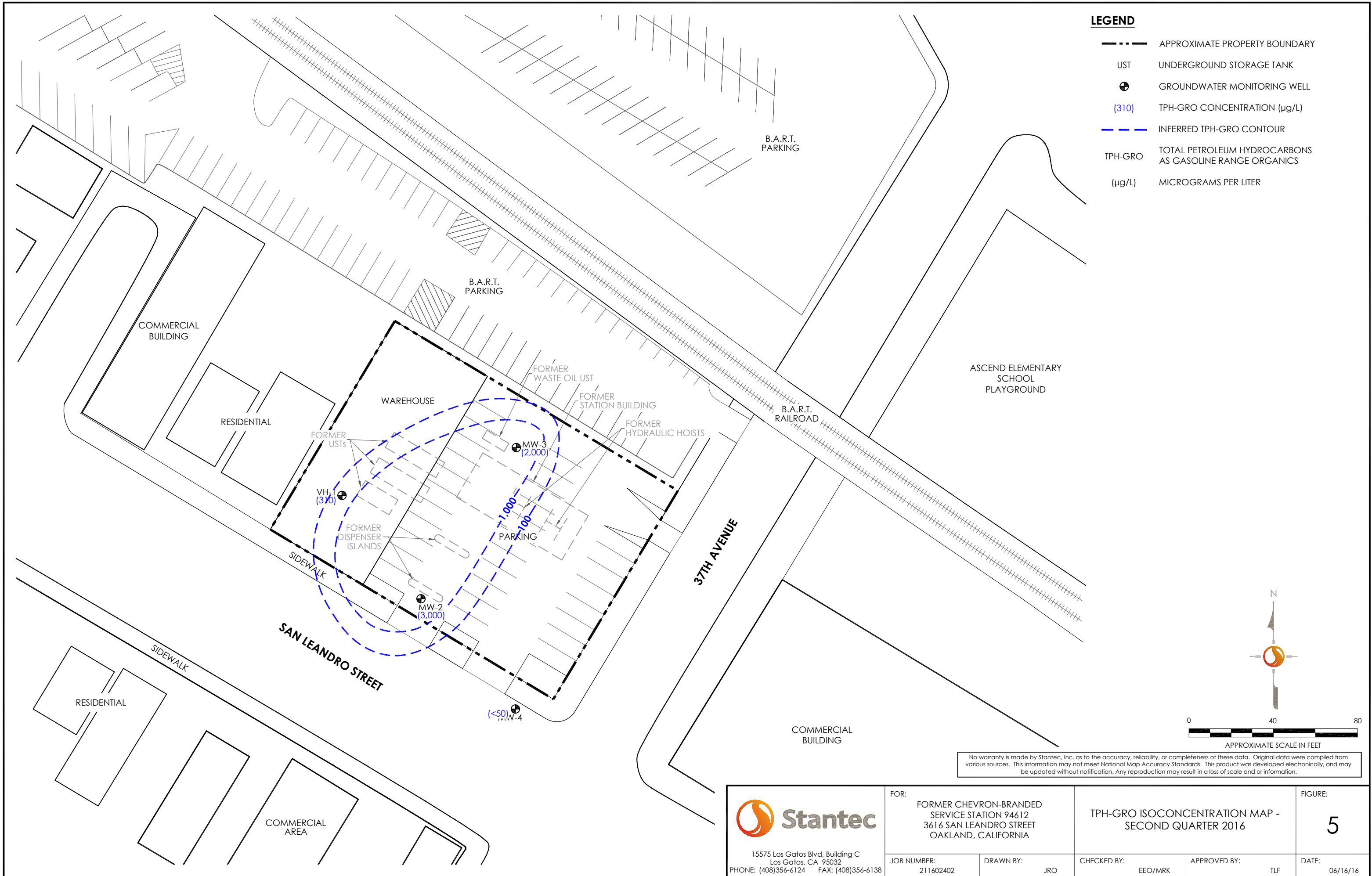
MW-2	µg/L
TPH-GRO	3,000
TPH-DRO	NA
B	0.5
T	<0.5
E	<0.5
X	<0.5
MtBE	0.9

MW-4	µg/L
TPH-GRO	<50
TPH-DRO	NA
B	<0.5
T	<0.5
E	<0.5
X	<0.5
MtBE	<0.5

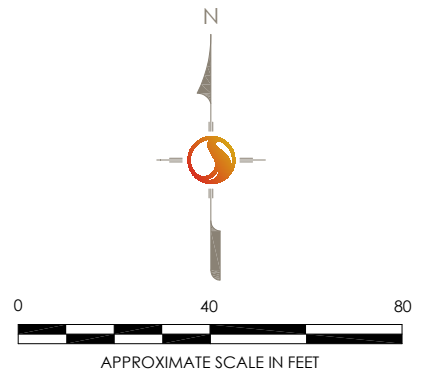


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 15575 Los Gatos Blvd, Building C Los Gatos, CA 95032 PHONE: (408)356-6124 FAX: (408)356-6138	FOR: FORMER CHEVRON-BRANDED SERVICE STATION 94612 3616 SAN LEANDRO STREET OAKLAND, CALIFORNIA	SITE PLAN SHOWING GROUNDWATER CONCENTRATIONS - SECOND QUARTER 2016		FIGURE: 4
	JOB NUMBER: 211602402	DRAWN BY: JRO	CHECKED BY: EEO/MRK	APPROVED BY: TLF



- LEGEND**
- APPROXIMATE PROPERTY BOUNDARY
 - UST UNDERGROUND STORAGE TANK
 - ⊕ GROUNDWATER MONITORING WELL
 - (310) TPH-GRO CONCENTRATION (µg/L)
 - - - INFERRED TPH-GRO CONTOUR
 - TPH-GRO TOTAL PETROLEUM HYDROCARBONS AS GASOLINE RANGE ORGANICS
 - (µg/L) MICROGRAMS PER LITER



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 15575 Los Gatos Blvd, Building C Los Gatos, CA 95032 PHONE: (408)356-6124 FAX: (408)356-6138	FOR: FORMER CHEVRON-BRANDED SERVICE STATION 94612 3616 SAN LEANDRO STREET OAKLAND, CALIFORNIA		TPH-GRO ISOCONCENTRATION MAP - SECOND QUARTER 2016		FIGURE: 5
	JOB NUMBER: 211602402	DRAWN BY: JRO	CHECKED BY: EEO/MRK	APPROVED BY: TLF	DATE: 06/16/16

ATTACHMENT A

**Gettler-Ryan Inc. Field Data Sheets and Standard
Operating Procedures – Second Quarter 2016**



GETTLER-RYAN INC.



TRANSMITTAL

May 12, 2016
G-R #386473

TO: Mr. Travis Flora
Stantec
15575 Los Gatos Boulevard
Los Gatos, CA 95032

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

RE: **Former Chevron Service Station
#9-4612
3616 San Leandro Street
Oakland, California
RO 0000233**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package Annual Event of May 2, 2016

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/9-4612

WELL CONDITION STATUS SHEET

Client/
 Facility #: **Chevron #9-4612**
 Site Address: **3616 San Leandro Street**
 City: **Oakland, CA**

Job #: **386473**
 Event Date: **5-2-16**
 Sampler: **AW**

WELL ID	Vault Frame Condition	Gasket/O-Ring (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Bolt Flanges B=Broken S=Stripped R=Retaped	Apron Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) Inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y/N	REPLACE CAP Y/N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Y/N
MW-2	OK	→	→	2S	OK	→		N	N	Mann / 8" / 2	N
MW-3	OK	→	→	2S	OK	→		↓	↓	↓	↓
MW-4	OK	→	→	→	→	→		↓	↓	Emro / 8" / 2	↓
VH-1	OK	N/A	→	→	OK	→		↓	↓	10x8" Box	↓

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 Seaport Environmental located in Redwood City, California.



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-4612
 Site Address: 3616 San Leandro Street
 City: Oakland, CA

Job Number: 386473
 Event Date: 5/2/16 (inclusive)
 Sampler: AW

Well ID: VH-1
 Well Diameter: 2 1/4 in.
 Total Depth: 28.97 ft.
 Depth to Water: 8.30 ft.
20.67 xVF = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Date Monitored: 5-2-16

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): _____

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

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

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

Start Time (purge): _____
 Sample Time/Date: 0835 / 5-2-16
 Approx. Flow Rate: _____ gpm.
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 8.30

Weather Conditions: Cloudy
 Water Color: Clear Odor: Y (N)
 Sediment Description: Clear

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (mS / μmhos/cm)	Temperature (°C / °F)	D.O. (mg/L)	ORP (mV)
<u>/</u>	<u>/</u>	<u>7.35</u>	<u>545</u>	<u>18.6</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

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

COMMENTS: Well Inaccessible via truck. No purge sample taken.

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-4612 Job Number: 386473
 Site Address: 3616 San Leandro Street Event Date: 5-2-16 (inclusive)
 City: Oakland, CA Sampler: AV

Well ID: MW-2 Date Monitored: 5-2-16
 Well Diameter: (2) 4 in.
 Total Depth: 19.45 ft.
 Depth to Water: 9.01 ft. Check if water column is less than 0.50 ft.
10.44 xVF .17 = 1.77 x3 case volume = Estimated Purge Volume: 5.5 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.09

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

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

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

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

Start Time (purge): 0625 Weather Conditions: Dawn
 Sample Time/Date: 0655 / 5-2-16 Water Color: Clear Odor: (D) / N Slight
 Approx. Flow Rate: - gpm. Sediment Description: Clear
 Did well de-water? N If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 10.55

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)
<u>0630</u>	<u>20</u>	<u>7.83</u>	<u>500</u>	<u>17.9</u>	_____	_____
<u>0635</u>	<u>40</u>	<u>7.78</u>	<u>516</u>	<u>18.0</u>	_____	_____
<u>0640</u>	<u>55</u>	<u>7.74</u>	<u>525</u>	<u>18.2</u>	_____	_____

LABORATORY INFORMATION

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

COMMENTS: _____

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-4612 Job Number: 386473
 Site Address: 3616 San Leandro Street Event Date: 5-2-16 (inclusive)
 City: Oakland, CA Sampler: AW

Well ID: MW-3 Date Monitored: 5-2-16
 Well Diameter: 2 1/4 in.
 Total Depth: 17.96 ft.
 Depth to Water: 8.55 ft. Check if water column is less than 0.50 ft.
9.41 x VF .17 = 1.59 x3 case volume = Estimated Purge Volume: 5.0 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.43

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

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): 0705 Weather Conditions: Down
 Sample Time/Date: 0735 / 5-2-16 Water Color: Clear Odor: DN Slight
 Approx. Flow Rate: - gpm. Sediment Description: Clear
 Did well de-water? N If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 9.98

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (PS) mS μmhos/cm	Temperature (C) (F)	D.O. (mg/L)	ORP (mV)
<u>0710</u>	<u>1.5</u>	<u>7.64</u>	<u>478</u>	<u>17.9</u>		
<u>0715</u>	<u>3.0</u>	<u>7.60</u>	<u>499</u>	<u>18.2</u>		
<u>0720</u>	<u>5.0</u>	<u>7.57</u>	<u>514</u>	<u>18.3</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>6</u> x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)
	<u>2</u> x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN

COMMENTS: _____

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-4612
 Site Address: 3616 San Leandro Street
 City: Oakland, CA

Job Number: 386473
 Event Date: 5/2/16 (inclusive)
 Sampler: AW

Well ID: MW-4
 Well Diameter: 2 1/4 in.
 Total Depth: 17.85 ft.
 Depth to Water: 7.64 ft.
10.21 xVF = .17 = 1.73

Date Monitored: 5-2-16

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: 5.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.68

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): 0745
 Sample Time/Date: 0815 / 5-2-16
 Approx. Flow Rate: - gpm.
 Did well de-water? N If yes, Time: _____ Volume: _____ gal.

Weather Conditions: Cloudy
 Water Color: Clear Odor: Y 10
 Sediment Description: Clear
 DTW @ Sampling: 9.19

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>0750</u>	<u>2.0</u>	<u>7.61</u>	<u>384</u>	<u>17.8</u>	_____	_____
<u>0755</u>	<u>4.0</u>	<u>7.64</u>	<u>399</u>	<u>17.8</u>	_____	_____
<u>0800</u>	<u>5.5</u>	<u>7.66</u>	<u>420</u>	<u>18.0</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>6</u> x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)
	x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN

COMMENTS: _____

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

Chevron California Region Analysis Request/Chain of Custody



500
Lancaster
Laboratories

050216-01

Acct. # _____ Group # _____ Sample # _____
For Eurofins Lancaster Laboratories use only
Instructions on reverse side correspond with circled numbers.

1 Client Information				4 Matrix				5 Analyses Requested														
Facility # 9349-4612-OML G-R#386473 Global WBS				<input type="checkbox"/> Sediment <input checked="" type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/> Soil <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Composite				Total Number of Containers BTEX + MTBE 8021 <input type="checkbox"/> 8260 <input checked="" type="checkbox"/> TPH-GRO 8015 <input type="checkbox"/> 8260 <input checked="" type="checkbox"/> TPH-DRO 8015 without Silica Gel Cleanup <input type="checkbox"/> TPH-DRO 8015 with Silica Gel Cleanup <input checked="" type="checkbox"/> 8260 Full Scan Oxygenates Total Lead Method _____ Dissolved Lead Method _____														
Site # 3016 SAN LEANDRO STREET, OAKLAND, CA																						
Client STANTECTF		Lead Consultant Flora																				
Consultant/Office Grinc-Ryan Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568																						
Consultant Project Mgr Deanna L. Harding, deanna@grinc.com																						
Consultant Phone # (925) 551-7444 x180																						
Sampler Alex Wong																						
2 Sample Identification		Soil Depth	3 Collected		Grab	Composite																
			Date	Time																		
QA			5-2-16	/	X		X	2	X	X												
VH-1			↓	0835	X		X	6	X	X												
MW-2			↓	1655	X		X	6	X	X												
MW-3			↓	0735	X		X	8	X	X				X								
MW-4			↓	0815	X		X	6	X	X												

SCR #: _____

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

6 Remarks

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

7 Turnaround Time Requested (TAT) (please circle)			Relinquished by _____		Date 5-2-16	Time 0945	Received by <i>C. Salazar</i>		Date 02 MAY 16	Time 0945
Standard 5 day 4 day 72 hour 48 hour 24 hours EDF/EDD			Relinquished by _____		Date _____	Time _____	Received by _____		Date _____	Time _____

8 Data Package (circle if required)		EDD (circle if required)		Relinquished by Commercial Carrier:			Received by _____		Date _____	Time _____
Type I - Full		EDFFLAT (default)		UPS _____ FedEx _____ Other _____						
Type VI (Raw Data)		Other: _____		Temperature Upon Receipt _____ °C			Custody Seals Intact?		Yes	No

ATTACHMENT B
Certified Laboratory Analysis Reports and
Chain-of-Custody Documents

ANALYTICAL RESULTS

Prepared by:

Prepared for:

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

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Report Date: May 20, 2016

Project: 94612

Submittal Date: 05/03/2016
Group Number: 1656412
PO Number: 0015188594
Release Number: CMACLEOD
State of Sample Origin: CA

Client Sample Description

	Lancaster Labs (LL) #
QA-T-160502 NA Water	8360873
VH-1-W-160502 Grab Groundwater	8360874
MW-2-W-160502 Grab Groundwater	8360875
MW-3-W-160502 Grab Groundwater	8360876
MW-4-W-160502 Grab Groundwater	8360877

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

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

Electronic Copy To Stantec International
Electronic Copy To Stantec
Electronic Copy To Stantec
Electronic Copy To Stantec
Electronic Copy To Gettler-Ryan Inc.

Attn: Travis Flora
Attn: Marisa Kaffenberger
Attn: Erin O'Malley
Attn: Laura Viesselman
Attn: Gettler Ryan

Respectfully Submitted,



Amek Carter
Specialist

(717) 556-7252

Sample Description: QA-T-160502 NA Water
Facility# 94612 Job# 386473 GRD
3616 San Leandro-Oakland T0600100333

LL Sample # WW 8360873
LL Group # 1656412
Account # 10906

Project Name: 94612

Collected: 05/02/2016

Chevron

Submitted: 05/03/2016 09:30

6001 Bollinger Canyon Rd L4310

Reported: 05/20/2016 15:36

San Ramon CA 94583

SLOQA

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

Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/MTBE	SW-846 8260B	1	Z161251AA	05/04/2016 19:38	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z161251AA	05/04/2016 19:38	Hu Yang	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16126A20A	05/05/2016 13:49	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	16126A20A	05/05/2016 13:49	Brett W Kenyon	1

Sample Description: VH-1-W-160502 Grab Groundwater
Facility# 94612 Job# 386473 GRD
3616 San Leandro-Oakland T0600100333

LL Sample # WW 8360874
LL Group # 1656412
Account # 10906

Project Name: 94612

Collected: 05/02/2016 08:35 by AW

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 05/03/2016 09:30

Reported: 05/20/2016 15:36

SLOV1

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	1	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles SW-846 8015B			ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	310	50	1

Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/MTBE	SW-846 8260B	1	Z161251AA	05/04/2016 21:38	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z161251AA	05/04/2016 21:38	Hu Yang	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16126A20A	05/05/2016 16:08	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	16126A20A	05/05/2016 16:08	Brett W Kenyon	1

Sample Description: MW-2-W-160502 Grab Groundwater
Facility# 94612 Job# 386473 GRD
3616 San Leandro-Oakland T0600100333

LL Sample # WW 8360875
LL Group # 1656412
Account # 10906

Project Name: 94612

Collected: 05/02/2016 06:55 by AW

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 05/03/2016 09:30

Reported: 05/20/2016 15:36

SLOM2

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10945	Benzene	71-43-2	0.5	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	0.9	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles SW-846 8015B			ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	3,000	50	1

Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/MTBE	SW-846 8260B	1	Z161261AA	05/05/2016 20:37	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z161261AA	05/05/2016 20:37	Hu Yang	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16127A20A	05/10/2016 05:21	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	16127A20A	05/10/2016 05:21	Jeremy C Giffin	1

Sample Description: MW-3-W-160502 Grab Groundwater
Facility# 94612 Job# 386473 GRD
3616 San Leandro-Oakland T0600100333

LL Sample # WW 8360876
LL Group # 1656412
Account # 10906

Project Name: 94612

Collected: 05/02/2016 07:35 by AW

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 05/03/2016 09:30

Reported: 05/20/2016 15:36

SLOM3

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	0.8	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles SW-846 8015B			ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	2,000	50	1
GC Petroleum SW-846 8015B			ug/l	ug/l	
Hydrocarbons w/Si					
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	160	50	1
The reverse surrogate, capric acid, is present at <1%.					

Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/MTBE	SW-846 8260B	1	Z161251AA	05/04/2016 22:02	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z161251AA	05/04/2016 22:02	Hu Yang	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16126A20A	05/05/2016 17:04	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	16126A20A	05/05/2016 17:04	Brett W Kenyon	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	161260024A	05/10/2016 11:12	Christine E Dolman	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	161260024A	05/06/2016 08:30	Kayla Yuditsky	1

Sample Description: MW-4-W-160502 Grab Groundwater
Facility# 94612 Job# 386473 GRD
3616 San Leandro-Oakland T0600100333

LL Sample # WW 8360877
LL Group # 1656412
Account # 10906

Project Name: 94612

Collected: 05/02/2016 08:15 by AW

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 05/03/2016 09:30

Reported: 05/20/2016 15:36

SLOM4

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

Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/MTBE	SW-846 8260B	1	Z161251AA	05/04/2016 22:26	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z161251AA	05/04/2016 22:26	Hu Yang	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16126A20A	05/05/2016 17:31	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	16126A20A	05/05/2016 17:31	Brett W Kenyon	1

Quality Control Summary

Client Name: Chevron
Reported: 05/20/2016 15:36

Group Number: 1656412

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

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

Method Blank

Analysis Name	Result	MDL
	ug/l	ug/l
Batch number: Z161251AA	Sample number(s): 8360873-8360874,8360876-8360877	
Benzene	N.D.	0.5
Ethylbenzene	N.D.	0.5
Methyl Tertiary Butyl Ether	N.D.	0.5
Toluene	N.D.	0.5
Xylene (Total)	N.D.	0.5
Batch number: Z161261AA	Sample number(s): 8360875	
Benzene	N.D.	0.5
Ethylbenzene	N.D.	0.5
Methyl Tertiary Butyl Ether	N.D.	0.5
Toluene	N.D.	0.5
Xylene (Total)	N.D.	0.5
Batch number: 16126A20A	Sample number(s): 8360873-8360874,8360876-8360877	
TPH-GRO N. CA water C6-C12	N.D.	50
Batch number: 16127A20A	Sample number(s): 8360875	
TPH-GRO N. CA water C6-C12	N.D.	50
Batch number: 161260024A	Sample number(s): 8360876	
TPH-DRO CA C10-C28 w/ Si Gel	N.D.	50

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l					
Batch number: Z161251AA	Sample number(s): 8360873-8360874,8360876-8360877								
Benzene	20	19.35			97		78-120		
Ethylbenzene	20	18.81			94		78-120		
Methyl Tertiary Butyl Ether	20	19.4			97		75-120		
Toluene	20	19.34			97		80-120		
Xylene (Total)	60	59.28			99		80-120		
Batch number: Z161261AA	Sample number(s): 8360875								
Benzene	20	19.29			96		78-120		
Ethylbenzene	20	18.74			94		78-120		
Methyl Tertiary Butyl Ether	20	19.56			98		75-120		
Toluene	20	19.74			99		80-120		
Xylene (Total)	60	58.7			98		80-120		

*- 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.

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

Quality Control Summary

Client Name: Chevron
Reported: 05/20/2016 15:36

Group Number: 1656412

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 16126A20A TPH-GRO N. CA water C6-C12	1100	1129.61	1100	1123.76	103	102	77-120	1	30
Batch number: 16127A20A TPH-GRO N. CA water C6-C12	1100	1123.5	1100	1122.43	102	102	77-120	0	30
Batch number: 161260024A TPH-DRO CA C10-C28 w/ Si Gel	1600	1034.79	1600	1144.76	65	72	40-105	10	20

MS/MSD

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

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: Z161251AA	Sample number(s): 8360873-8360874,8360876-8360877 UNSPK: P361513									
Benzene	N.D.	20	19.55	20	20.01	98	100	78-120	2	30
Ethylbenzene	N.D.	20	19.29	20	19.81	96	99	78-120	3	30
Methyl Tertiary Butyl Ether	26.55	20	44.47	20	44.62	90	90	75-120	0	30
Toluene	N.D.	20	20.04	20	20.55	100	103	80-120	3	30
Xylene (Total)	N.D.	60	60.08	60	61.54	100	103	80-120	2	30
Batch number: Z161261AA	Sample number(s): 8360875 UNSPK: P362780									
Benzene	N.D.	20	19.59	20	19.61	98	98	78-120	0	30
Ethylbenzene	N.D.	20	18.97	20	19.22	95	96	78-120	1	30
Methyl Tertiary Butyl Ether	N.D.	20	18.45	20	18.98	92	95	75-120	3	30
Toluene	N.D.	20	20	20	20.06	100	100	80-120	0	30
Xylene (Total)	N.D.	60	58.83	60	59.69	98	99	80-120	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: BTEX/MTBE
Batch number: Z161251AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8360873	102	100	96	91
8360874	98	97	95	92
8360876	97	95	96	97
8360877	102	100	95	89
Blank	101	98	96	90
LCS	99	99	95	96

*- 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.

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

Quality Control Summary

Client Name: Chevron
Reported: 05/20/2016 15:36

Group Number: 1656412

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.

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
MS	99	100	95	96
MSD	99	101	97	98
Limits:	80-116	77-113	80-113	78-113

Analysis Name: BTEX/MTBE
Batch number: Z161261AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8360875	97	95	97	94
Blank	99	98	92	92
LCS	98	99	96	96
MS	98	99	96	96
MSD	97	98	95	95
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 16126A20A

	Trifluorotoluene-F
8360873	95
8360874	100
8360876	115
8360877	93
Blank	83
LCS	101
LCSD	102
Limits:	63-135

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 16127A20A

	Trifluorotoluene-F
8360875	131
Blank	90
LCS	98
LCSD	99
Limits:	63-135

Analysis Name: TPH-DRO CA C10-C28 w/ Si Gel
Batch number: 161260024A

	Orthoterphenyl
8360876	71
Blank	73
LCS	73
LCSD	80
Limits:	42-126

*- 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.

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

Quality Control SummaryClient Name: Chevron
Reported: 05/20/2016 15:36Group Number: 1656412

*- 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.

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

Chevron California Region Analysis Request/Chain of Custody

eurofins
 050216-01

508
**Lancaster
 Laboratories**

Acct. # 10906

For Eurofins Lancaster Laboratories use only
 Group # 1652412 Sample # 8360873-77
Instructions on reverse side correspond with circled numbers.

① Client Information				④ Matrix			⑤ Analyses Requested										⑥ Remarks									
Facility # <u>5549-4612-OML</u> G-R# <u>386473</u> Global ID# <u>0600100333</u>				<input type="checkbox"/> Sediment <input checked="" type="checkbox"/> Ground <input type="checkbox"/> Surface			Total Number of Containers: _____ BTEX + MTBE 8021 <input type="checkbox"/> 8260 <input checked="" type="checkbox"/> TPH-GRO 8015 <input type="checkbox"/> 8260 <input checked="" type="checkbox"/> TPH-DRO 8015 without Silica Gel Cleanup <input type="checkbox"/> TPH-DRO 8015 with Silica Gel Cleanup <input checked="" type="checkbox"/> 8260 Full Scan _____ Oxygenates _____ Total Lead Method _____ Dissolved Lead Method _____										SCR #: _____									
Site # <u>3016</u> <u>SAN LEANDRO STREET, OAKLAND, CA</u>				<input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air													<input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input checked="" type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits									
Chevron PM <u>STANTECTF</u> Lead Consultant <u>Flora</u>																										
Consultant/Client <u>Center-Ryan Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568</u>																										
Consultant Project Mgr. <u>Deanna L. Harding, deanna@grinc.com</u>																										
Consultant Phone # <u>(925) 551-7444 x180</u>																										
Sampler <u>Alex Wong</u>				③ Composite																						
② Sample Identification		Soil Depth	Collected		Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE	8021	8260	TPH-GRO	8015	TPH-DRO 8015 without Silica Gel Cleanup	TPH-DRO 8015 with Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead	Method	Dissolved Lead	Method	⑥ Remarks TPH-DRO WITH SILICA GEL REQUESTING 10 GRAM COLUMN CLEAN-UP WITH CAPRIC ACID REVERSE SURROGATE		
Date		Time																								
<u>QA</u>		<u>5-2-16</u>			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<u>2</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>															
<u>VH-1</u>		<u>0835</u>			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<u>6</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>															
<u>MW-2</u>		<u>0655</u>			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<u>6</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>															
<u>MW-3</u>		<u>0735</u>			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<u>8</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>											
<u>MW-4</u>		<u>0815</u>			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<u>6</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>															
⑦ Turnaround Time Requested (TAT) (please circle)				Relinquished by _____			Date <u>5-2-16</u> Time <u>0945</u>		Received by <u>A. Salazar</u>		Date <u>5-2-16</u> Time <u>0945</u>															
Standard <input type="checkbox"/> 5 day <input type="checkbox"/> 4 day <input type="checkbox"/> 72 hour <input type="checkbox"/> 48 hour <input type="checkbox"/> 24 hours <input checked="" type="checkbox"/> EDF/EDD				Relinquished by <u>A. Salazar</u>			Date _____ Time _____		Received by <u>FX</u>		Date _____ Time _____															
⑧ Data Package (circle if required)				Relinquished by Commercial Carrier:			Date _____ Time _____		Received by _____		Date _____ Time _____															
Type I - Full <input type="checkbox"/>				EDD (circle if required)			UPS _____ FedEx <input checked="" type="checkbox"/> Other _____		Temperature Upon Receipt <u>09-16</u> °C		Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No															
Type VI (Raw Data) <input type="checkbox"/>				EDFFLAT (default) <input type="checkbox"/>			Other: _____																			

Client: CA Office

San Leandro Street

Delivery and Receipt Information

Delivery Method: BASC Arrival Timestamp: 05/03/2016 9:30
 Number of Packages: 3 Number of Projects: 2
 State/Province of Origin: CA

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace ≥ 6mm:	No
Samples Chilled:	Yes	Total Trip Blank Qty:	2
Paperwork Enclosed:	Yes	Trip Blank Type:	HCL
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Timothy Cubberley (6520) at 11:50 on 05/03/2016

Samples Chilled Details: San Leandro Street

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

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT131	1.3	DT	Wet	Y	Bagged	N
2	DT131	1.6	DT	Wet	Y	Bagged	N
3	DT131	0.9	DT	Wet	Y	Bagged	N

Explanation of Symbols and Abbreviations

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

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

Laboratory Data Qualifiers:

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

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

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

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

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

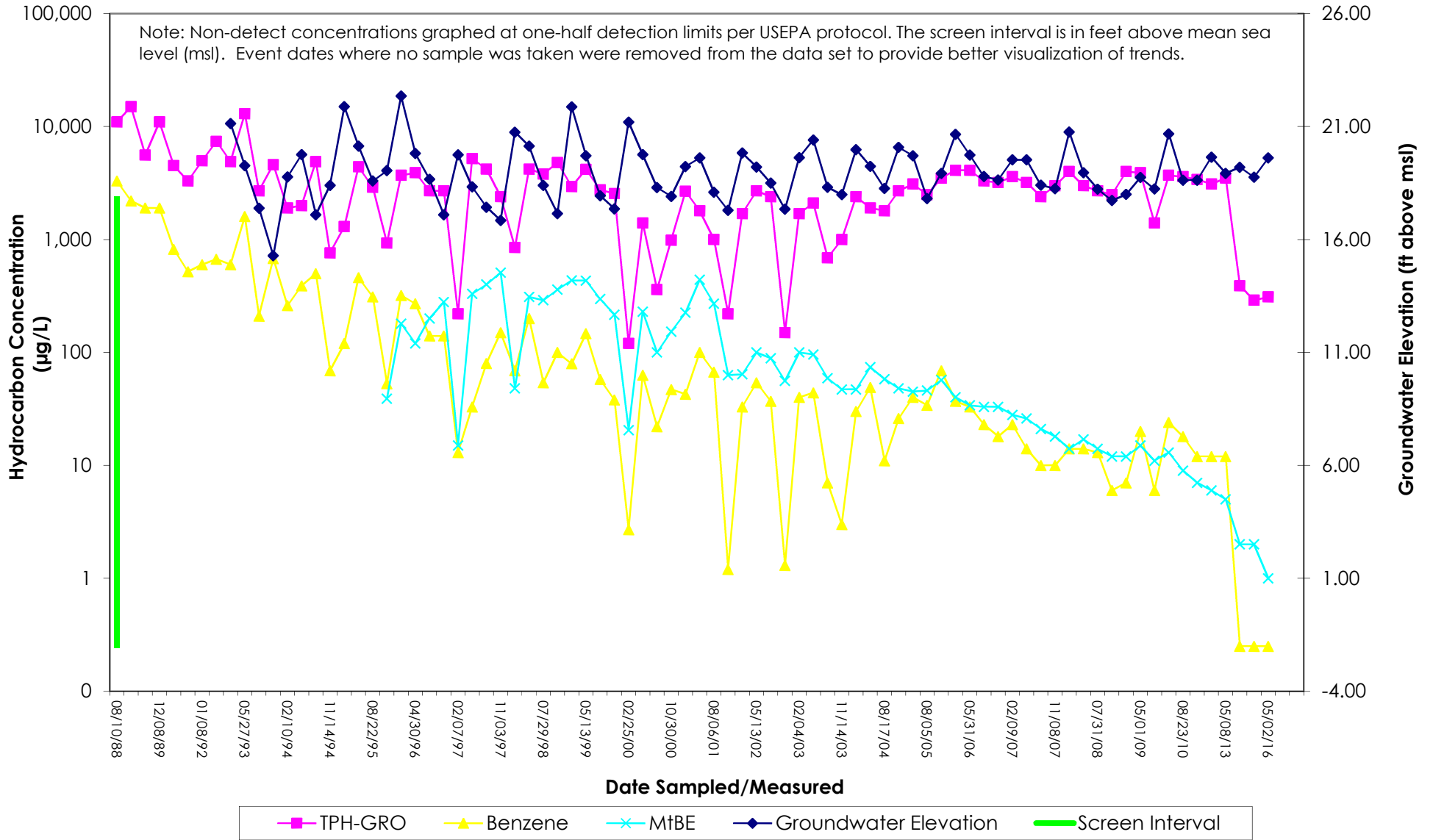
This report shall not be reproduced except in full, without the written approval of the laboratory.

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

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ATTACHMENT C
Hydrographs

VH-1 TPH-GRO, Benzene, & MtBE Concentrations and Groundwater Elevations vs. Time
 Former Chevron-branded Service Station 94612
 3616 San Leandro Street
 Oakland, California

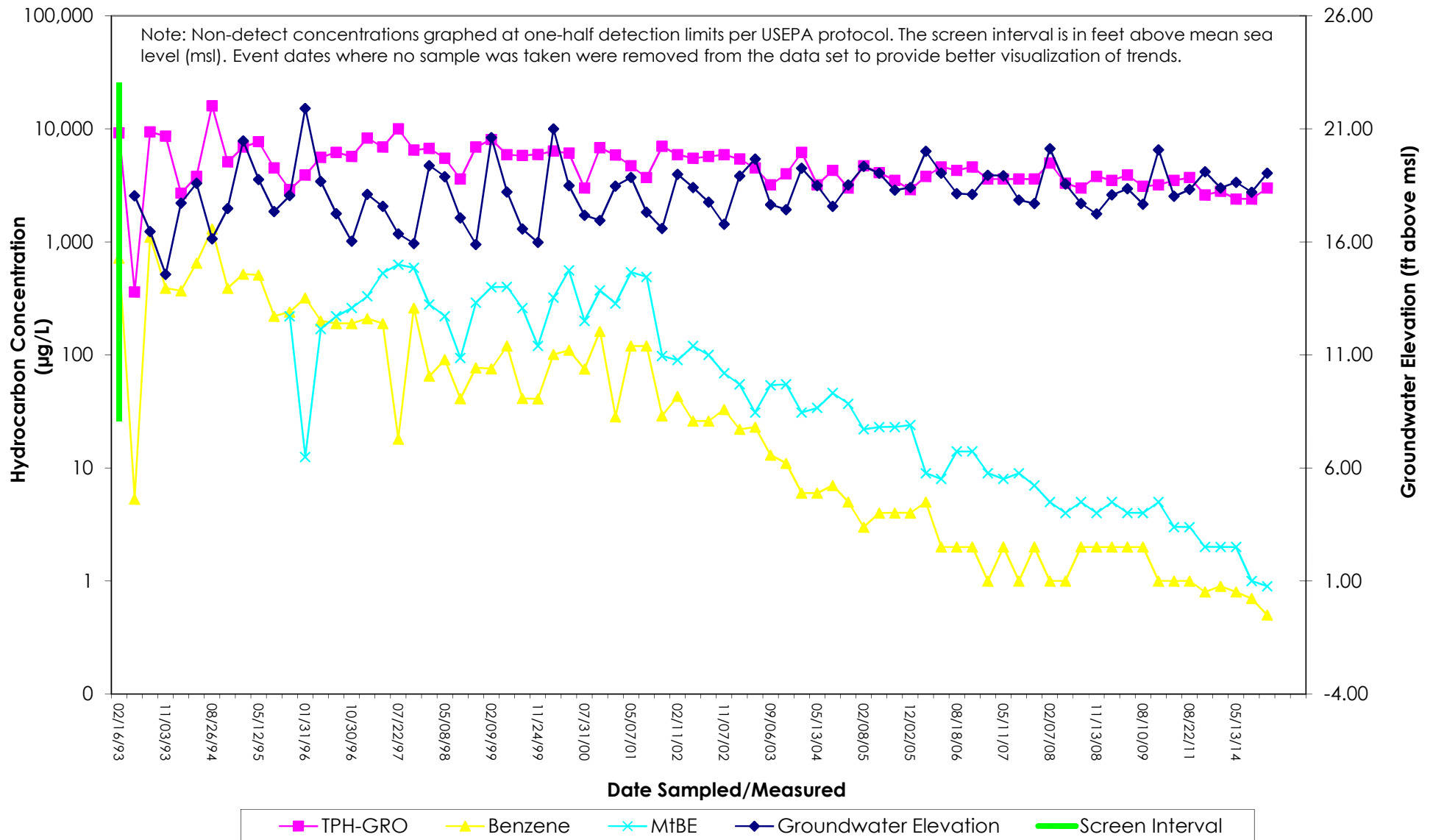


MW-2 TPH-GRO, Benzene, & MtBE Concentrations and Groundwater Elevations vs. Time

Former Chevron-branded Service Station 94612

3616 San Leandro Street

Oakland, California

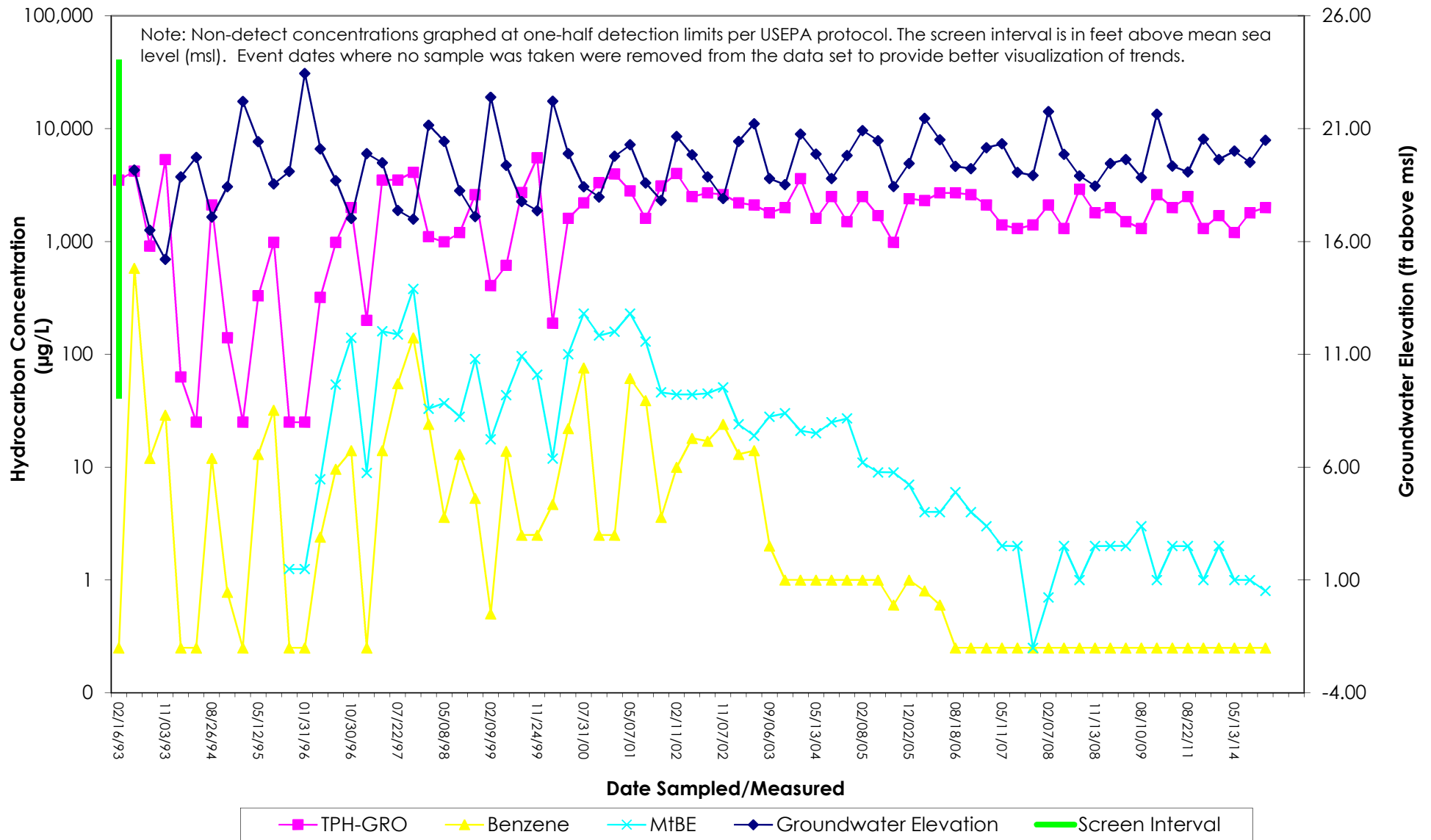


MW-3 TPH-GRO, Benzene, & MtBE Concentrations and Groundwater Elevations vs. Time

Former Chevron-branded Service Station 94612

3616 San Leandro Street

Oakland, California



MW-4 TPH-GRO, Benzene, & MtBE Concentrations and Groundwater Elevations vs. Time

Former Chevron-branded Service Station 94612

3616 San Leandro Street

Oakland, California

