



RECEIVED

By Alameda County Environmental Health at 2:28 pm, May 21, 2014

Carryl MacLeod
Project Manager
Marketing Business Unit

**Chevron Environmental
Management Company**
6101 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 790-6506
CMacleod@chevron.com

May 20, 2014

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 *First Quarter 2014 Semi-Annual Groundwater Monitoring Report* for former Chevron-branded service station 91723, located at 9757 San Leandro Street in Oakland, California. 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

**First Quarter 2014
Semi-Annual Groundwater
Monitoring Report**

Former Chevron-branded
Service Station 91723
9757 San Leandro Street
Oakland, California



Prepared for:
Chevron Environmental
Management Company
6101 Bollinger Canyon Road
San Ramon, CA 94583

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

May 20, 2014



May 20, 2014

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

Reference: **First Quarter 2014 Semi-Annual Groundwater Monitoring Report**
Former Chevron-branded Service Station 91723
9757 San Leandro Street, Oakland, California

Dear Mr. Detterman:

On behalf of Chevron Environmental Management Company (Chevron), Stantec Consulting Services Inc. (Stantec) is pleased to submit the *First Quarter 2014 Semi-Annual Groundwater Monitoring Report* for former Chevron-branded service station 91723, which was located at 9757 San Leandro Street, Oakland, Alameda County, California (the Site - shown on **Figure 1**). This report is presented in three sections: Site Background, First Quarter 2014 Groundwater Monitoring and Sampling Program, and Conclusions and Recommendations.

SITE BACKGROUND

The Site is a former Chevron-branded service station located on the western corner at the intersection of San Leandro Street and 98th Avenue in Oakland, California. The Site is currently a large parking area staging semi-trucks for a distribution company. A former service station operated at the Site from approximately 1946 to 1978. According to available records, Chevron purchased and began operation of the service station in 1968. Prior to 1966, three fuel underground storage tanks (USTs) and one fuel dispenser island (first generation) located in the eastern portion of the Site were removed. Second-generation fuel structures (installed between 1966 and 1968) included three fuel USTs located in the north-central portion of the Site, one waste oil UST located in the western portion of the Site, and five fuel dispenser islands (four located in the central portion of the Site and one located in the southern portion of the Site). In 1978, the service station was closed and all second-generation fuel structures were removed from the Site.

Land use near the Site consists primarily of commercial and industrial properties. The Site is bounded on the northwest and southwest by a former food processing plant, on the northeast by San Leandro Street followed by railroad tracks, and on the southeast by 98th Avenue followed by commercial businesses. A former Shell-branded service station was located immediately adjacent to and northwest of the Site.

In the *Third Quarter 2013 Semi-Annual Groundwater Monitoring Report*, dated November 1, 2013, Stantec recommended methyl tertiary-butyl ether (MtBE) analysis be discontinued and the frequency of monitored natural attenuation (MNA) evaluations be reduced to annual and measured during Third Quarters. These recommendations were implemented commencing First Quarter 2014.

FIRST QUARTER 2014 SEMI-ANNUAL GROUNDWATER MONITORING REPORT

Former Chevron-branded Service Station 91723

May 20, 2014

Page 2 of 6

FIRST QUARTER 2014 GROUNDWATER MONITORING AND SAMPLING PROGRAM

Blaine Tech Services, Inc. (Blaine Tech) performed the First Quarter 2014 groundwater monitoring and sampling event on March 21, 2014. Blaine Tech's standard operating procedures (SOPs) and field data sheets are included in **Attachment A**. Blaine Tech gauged depth-to-groundwater in five Site wells (MW-2, MW-5, MW-6, MW-8, and MW-9) prior to collecting groundwater samples for laboratory analysis. All five Site wells were sampled this quarter.

Investigation-derived waste (IDW) generated during the First Quarter 2014 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 an assessment of whether groundwater samples were collected when groundwater elevations were measured across the well screen intervals are presented in **Table 1**. All wells are currently screened across the prevailing groundwater table with the exception of well MW-2, where the groundwater elevation is measured above the upper screen interval, and the entire screen interval is currently submerged. Groundwater elevation data from Third Quarter 2011 to present are included in **Table 2**. A groundwater elevation contour map (based on First Quarter 2014 data) is shown on **Figure 2**. The direction of groundwater flow at the time of sampling was generally towards the west-southwest at an approximate hydraulic gradient ranging from 0.001 to 0.003 feet per foot (ft/ft). This is generally consistent with the historical direction of groundwater flow, as shown by the Rose Diagram on **Figure 3** illustrating the direction of groundwater flow from Third Quarter 1988 to present.

Schedule of Laboratory Analysis

Groundwater samples were collected and analyzed for the presence of total petroleum hydrocarbons as gasoline range organics (TPH-GRO) and benzene, toluene, ethylbenzene, and total xylenes (BTEX compounds) using United States Environmental Protection Agency (US EPA) Method 8260B (SW-846). Field measurements of post-purge dissolved oxygen (DO) and oxidation-reduction potential (ORP) were collected using an in-line flow-through cell.

Groundwater Analytical Results

During First Quarter 2014, groundwater samples were collected from five Site wells (MW-2, MW-5, MW-6, MW-8, and MW-9). Groundwater analytical results from Third Quarter 2011 to present are included in **Table 2**. Parameters used to evaluate MNA are presented in **Table 3**. 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**. A benzene isoconcentration map is shown on **Figure 6**.

Certified laboratory analysis reports and chain-of-custody documents are presented as **Attachment B**. Hydrographs based on groundwater elevations and analytical results from Third Quarter 2011 to present are included in **Attachment C**. A summary of First Quarter 2014 groundwater analytical results follows:

- **TPH-GRO** was detected in two Site wells this quarter, at concentrations of 100 micrograms per liter ($\mu\text{g/L}$; well MW-5) and 270 $\mu\text{g/L}$ (well MW-8), which are historical lows for each

FIRST QUARTER 2014 SEMI-ANNUAL GROUNDWATER MONITORING REPORT

Former Chevron-branded Service Station 91723

May 20, 2014

Page 3 of 6

respective well. In addition, the concentration in well MW-2 (below the laboratory reporting limit [LRL] of 22 µg/L) is a historical low.

- **Benzene** was detected in one Site well this quarter, at a concentration of 2 µg/L (well MW-8), which is a historical low for this well.
- **Toluene** was not detected above the LRL (0.5 µg/L) in any Site well sampled this quarter. The concentration in well MW-8 is a historical low.
- **Ethylbenzene** was not detected above the LRL (0.5 µg/L) in any Site well sampled this quarter. The concentration in well MW-8 is a historical low.
- **Total Xylenes** were detected in one Site well this quarter, at a concentration of 0.6 µg/L (well MW-8), which is a historical low for this well.

CONCLUSIONS AND RECOMMENDATIONS

Concentrations of TPH-GRO and benzene were observed to be equal to or above the California Regional Water Quality Control Board – San Francisco Bay Region (RWQCB) Environmental Screening Levels (ESLs) for groundwater that is a current or potential source of drinking water as follows:

- TPH-GRO concentrations equal or exceed the ESL of 100 µg/L in wells MW-5 and MW-8; and
- The benzene concentration exceeds the ESL of 1 µg/L in well MW-8.

Maximum concentrations of TPH-GRO, benzene, and total xylenes are currently observed in well MW-8, which is located in the northern portion of the Site near the former second-generation USTs. TPH-GRO was also detected at 100 µg/L in well MW-5, located near the former first-generation dispenser island. Due to TPH-GRO and BTEX compounds being reported below LRLs in well MW-6 (cross-gradient of well MW-8) and the potential for two distinct source areas, dissolved TPH-GRO is currently represented as two distinct plumes on **Figure 5**, the longest of which is currently defined to below ESLs within approximately 40 feet down-gradient of the source area. Concentrations of toluene and ethylbenzene were below LRLs in all Site wells this quarter. In addition, during First Quarter 2014, historical low concentrations of TPH-GRO were observed in wells MW-2, MW-5, and MW-8, and historical low concentrations of BTEX compounds were observed in well MW-8, with decreases from Third Quarter 2013 to First Quarter 2014 by up to one order of magnitude. TPH-GRO concentrations fluctuate slightly with changes in groundwater elevations, but they demonstrate an overall stable to decreasing trend in Site wells. Concentrations of BTEX compounds, which are only observed in well MW-8, also demonstrate an overall decreasing trend.

During Third Quarter 2013, the longest dissolved-phase plume was defined to below ESLs within approximately 200 feet down-gradient of the source area, and during First Quarter 2014, the longest dissolved-phase plume was defined to below ESLs within approximately 40 feet down-gradient of the source area. Third Quarter 2013 data will conservatively be used for the following evaluation of Low-Threat UST Case Closure Policy (LTCP) groundwater-specific criteria.

Current and historical groundwater quality data indicate that the dissolved-phase petroleum hydrocarbon plume at the Site is generally stable or decreasing in size and concentration. Site groundwater conditions satisfy LTCP Groundwater-Specific Criteria Scenario 2 as follows:

FIRST QUARTER 2014 SEMI-ANNUAL GROUNDWATER MONITORING REPORT

Former Chevron-branded Service Station 91723

May 20, 2014

Page 4 of 6

- The contaminant plume that exceeds water quality objectives (WQOs) is less than 250 feet in length. Based on dissolved-phase TPH-GRO concentrations that equal or exceed the ESL for groundwater that is a current or potential source of drinking water of 100 µg/L, a conservative estimate of the contaminant plume based on Third Quarter 2013 groundwater data is 200 feet or less in length.
- There is no free product. Free product was reportedly observed while advancing soil boring SB-8 at 7 feet below ground surface (bgs) in 1996; however, free product has not been measured or documented in any other borings or Site wells to-date.
- The nearest existing water supply well or surface water body is greater than 1,000 feet from the defined plume boundary. As documented in the *Site Conceptual Model and Data Gap Work Plan*, dated March 31, 2014, during the active water supply well survey conducted in 2013, seven water supply wells were reported within a 0.25-mile radius of the Site and all were identified as for industrial use. Although wells as close as 100 feet from the Site were reported, all wells at or in the vicinity of the Site were field verified and found to be destroyed. All other wells within a 0.25-mile radius (at distances ranging from 435 to 765 feet from the Site) are located up-gradient or cross-gradient based on the predominant direction of groundwater flow (west), and are unlikely to be impacted by the dissolved-phase petroleum hydrocarbon plume associated with the Site. No surface water bodies were identified within a 0.5-mile radius of the Site.
- The dissolved concentration of benzene is less than 3,000 µg/L, and the dissolved concentration of MtBE is less than 1,000 µg/L. As shown on **Figure 4**, during First Quarter 2014, benzene was detected at a maximum concentration of 2 µg/L (well MW-8). MtBE is no longer analyzed in groundwater at the Site; however, when it was last analyzed during Third Quarter 2013, and MtBE was not detected above the LRL of 0.5 µg/L in any Site well sampled.

Dissolved concentrations observed on Site during First Quarter 2014 further support this evaluation of the LTCP groundwater-specific criteria; therefore, Stantec recommends that Site groundwater monitoring and sampling cease.

A *Site Conceptual Model and Data Gap Work Plan* was submitted to Alameda County Environmental Health (ACEH) on March 31, 2014. Data gaps identified in the report included the status and condition of former Site wells MW-1, MW-4, MW-7, and MW-10 and the need for additional assessment to evaluate soil vapor quality at the Site and to determine if Site conditions meet the petroleum vapor intrusion to indoor air criteria set forth in the LTCP.

During the groundwater monitoring and sampling event on March 21, 2014, Blaine Tech conducted a visual survey of the Site and vicinity to evaluate the status and conditions of former Site wells MW-1, MW-4, MW-7, and MW-10. No documentation of the abandonment or destruction of these wells was found during the water well survey conducted in 2013. However, Blaine Tech was only able to locate what appears to be well MW-10. The observed well was 4-inches in diameter, with a depth-to-groundwater measurement of 9.33 feet below top of casing (TOC) and a depth-to-bottom measurement of 20.05 feet below TOC. The observed location, the diameter of the well, and the depth-to-bottom measurement are consistent with specifications for well MW-10, based on historical figures and the well construction log included in the *Site Conceptual Model and Data Gap Work Plan*. The lid to the well vault was missing bolts, but the overall integrity of the well casing and vault appeared to be in good condition.

FIRST QUARTER 2014 SEMI-ANNUAL GROUNDWATER MONITORING REPORT

Former Chevron-branded Service Station 91723

May 20, 2014

Page 5 of 6

Wells MW-1, MW-4, and MW-7 were unable to be located and may have been paved over or potentially abandoned or destroyed.

To address the need for a soil vapor quality evaluation, Stantec proposed the resampling of permanent on-site soil vapor wells VP-1 through VP-5 and included a proposed scope of work for that sampling in the *Site Conceptual Model and Data Gap Work Plan*. On April 22, 2014, Stantec inspected the vapor wells to evaluate their conditions. The tubing and connections of all vapor wells appear to be in good condition for the collection of additional soil vapor samples.

Please feel free to contact me if you have any questions regarding the contents of this report.

Sincerely,

Stantec Consulting Services Inc.



Travis L. Flora

Associate Project Manager

Phone: (408)356-6124

Travis.Flora@stantec.com

Attachments:

Table 1 – Well Details / Screen Interval Assessment – First Quarter 2014

Table 2 – Groundwater Monitoring Data and Analytical Results

Table 3 – Monitored Natural Attenuation Parameters

Figure 1 – Site Location Map

Figure 2 – Groundwater Elevation Contour Map – First Quarter 2014

Figure 3 – Rose Diagram – First Quarter 2014

Figure 4 – Site Plan Showing Groundwater Concentrations – First Quarter 2014

Figure 5 – TPH-GRO Isoconcentration Map – First Quarter 2014

Figure 6 – Benzene Isoconcentration Map – First Quarter 2014

Attachment A – Blaine Tech Groundwater Monitoring Report – First Quarter 2014

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

Attachment C – Hydrographs

cc:

Ms. Carryl MacLeod, Chevron Environmental Management Company, 6101 Bollinger Canyon Road, San Ramon, CA 94583 – Electronic Copy

Linda Hothem Trust c/o Mr. Jan Greben, Greben & Associates, 1332 Anacapa Street, Suite 110, Santa Barbara, CA 93101

Ms. Jean Kida, Gerber Products, 12 Vreeland Road, Florham Park, NJ 07932

FIRST QUARTER 2014 SEMI-ANNUAL GROUNDWATER MONITORING REPORT

Former Chevron-branded Service Station 91723

May 20, 2014

Page 6 of 6

This document entitled First Quarter 2014 Semi-Annual Groundwater Monitoring Report was prepared by Stantec Consulting Services Inc. for the account of Chevron Environmental Management Company. The material in it reflects Stantec's best judgment in light of the information available to it at the time of preparation. Any use which a third party makes of this report, or any reliance on or decisions made based on it, are the responsibilities of such third parties. Stantec Consulting Services Inc. accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

Prepared by Erin O'Malley
(signature)

Erin O'Malley
Project Engineer

Reviewed by Marisa Kaffenberger
(signature)

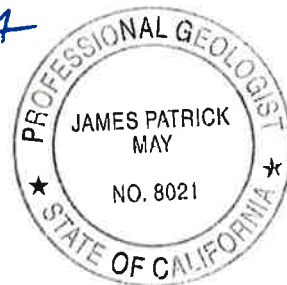
Marisa Kaffenberger
Senior Engineer

Reviewed by [Signature]
(signature)

Travis L. Flora
Associate Project Manager

Reviewed by James P. May 20 MAY 2014
(signature)

James P. May, P.G.
Senior Geologist



TABLES

Table 1
Well Details / Screen Interval Assessment
First Quarter 2014
Former Chevron-Branded Service Station 91723
9757 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 bgs)	Current Depth to Groundwater ¹ (feet below TOC)	Screen Interval (feet bgs)	Screen Interval Assessment
MW-2	04/18/87	Monitoring	2	21.31	22.00	21.55	9.35	12-22	Depth-to-groundwater above screen interval.
MW-5	05/18/88	Monitoring	2	21.84	20.00	17.50	9.41	7-20	Depth-to-groundwater within screen interval.
MW-6	05/18/88	Monitoring	2	21.71	20.00	19.60	9.38	7-20	Depth-to-groundwater within screen interval.
MW-8	05/19/88	Monitoring	2	21.84	20.00	18.20	9.49	7-20	Depth-to-groundwater within screen interval.
MW-9	08/04/89	Monitoring	4	20.55	20.00	20.10	8.87	5.5-20	Depth-to-groundwater within screen interval.
Notes: bgs = below ground surface msl = mean sea level TOC = top of casing ¹ = As measured prior to groundwater sampling on March 21, 2014.									

Table 2
Groundwater Monitoring Data and Analytical Results
Former Chevron-Branded Service Station 91723
9757 San Leandro Street, Oakland, California

WELL ID/ DATE	TOC (ff.)	DTW (ff.)	GWE (msf)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MtBE (µg/L)
MW-2									
09/23/11	21.31	9.78	11.53	180	<0.5	<0.5	0.6	0.6	0.6
12/29/11	21.31	9.73	11.58	100	<0.5	<0.5	0.7	0.9	<0.5
03/30/12	21.31	8.02	13.29	180	<0.5	<0.5	2	4	<0.5
06/12/12	21.31	9.58	11.73	99	<0.5	<0.5	<0.5	<0.5	<0.5
09/27/12	21.31	9.81	11.50	93	<0.5	<0.5	<0.5	<0.5	<0.5
03/13/13	21.31	9.52	11.79	110	<0.5	<0.5	<0.5	<0.5	<0.5
09/17/13	21.31	9.96	11.35	94	<0.5	<0.5	<0.5	<0.5	<0.5
03/21/14	21.31	9.35	11.96	<22	<0.5	<0.5	<0.5	<0.5	--
MW-5									
09/23/11	21.84	9.85	11.99	190	<0.5	<0.5	<0.5	<0.5	<0.5
12/29/11	21.84	9.91	11.93	180	<0.5	<0.5	<0.5	<0.5	<0.5
03/30/12	21.84	7.92	13.92	190	<0.5	<0.5	<0.5	<0.5	<0.5
06/12/12	21.84	9.65	12.19	260	<0.5	<0.5	<0.5	<0.5	<0.5
09/27/12	21.84	9.83	12.01	230	<0.5	<0.5	<0.5	<0.5	<0.5
03/13/13	21.84	9.55	12.29	200	<0.5	<0.5	<0.5	<0.5	<0.5
09/17/13	21.84	9.93	11.91	140	<0.5	<0.5	<0.5	<0.5	<0.5
03/21/14	21.84	9.41	12.43	100	<0.5	<0.5	<0.5	<0.5	--
MW-6									
09/23/11	21.71	9.99	11.72	<22	<0.5	<0.5	<0.5	<0.5	0.7
12/29/11	21.71	9.93	11.78	<22	<0.5	<0.5	<0.5	<0.5	0.6
03/30/12	21.71	8.00	13.71	<22	<0.5	<0.5	<0.5	<0.5	<0.5
06/12/12	21.71	9.76	11.95	66	<0.5	<0.5	<0.5	<0.5	<0.5
09/27/12	21.71	9.93	11.78	27	<0.5	<0.5	<0.5	<0.5	<0.5
03/13/13	21.71	9.70	12.01	<22	<0.5	<0.5	<0.5	<0.5	<0.5
09/17/13	21.71	10.06	11.65	34	<0.5	<0.5	<0.5	<0.5	<0.5
03/21/14	21.71	9.38	12.33	<22	<0.5	<0.5	<0.5	<0.5	--
MW-8									
09/23/11	21.84	10.15	11.69	1,900	55	2	10	8	<0.5
12/29/11	21.84	10.10	11.74	1,300	31	1	5	5	<0.5
03/30/12	21.84	8.12	13.72	2,200	65	3	20	14	<0.5
06/12/12	21.84	9.90	11.94	2,300	49	2	14	14	<0.5

Table 2
Groundwater Monitoring Data and Analytical Results
Former Chevron-Branded Service Station 91723
9757 San Leandro Street, Oakland, California

WELL ID/ DATE	TOC (ff.)	DTW (ff.)	GWE (msl)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MtBE (µg/L)
MW-8 (cont)									
09/27/12	21.84	10.12	11.72	1,900	43	2	10	8	<0.5
03/13/13	21.84	9.86	11.98	1,400	31	1	7	5	<0.5
09/17/13	21.84	10.34	11.50	2,100	60	2	11	9	<0.5
03/21/14	21.84	9.49	12.35	270	2	<0.5	<0.5	0.6	--
MW-9									
09/23/11	20.55	9.30	11.25	<22	<0.5	<0.5	<0.5	<0.5	<0.5
12/29/11	20.55	9.51	11.04	<22	<0.5	<0.5	<0.5	<0.5	<0.5
03/30/12	20.55	7.52	13.03	<22	<0.5	<0.5	<0.5	<0.5	<0.5
06/12/12	20.55	9.14	11.41	<22	<0.5	<0.5	<0.5	<0.5	<0.5
09/27/12	20.55	9.24	11.31	<22	<0.5	<0.5	<0.5	<0.5	<0.5
03/13/13	20.55	9.07	11.48	<22	<0.5	<0.5	<0.5	<0.5	<0.5
09/17/13	20.55	9.51	11.04	<22	<0.5	<0.5	<0.5	<0.5	<0.5
03/21/14	20.55	8.87	11.68	<22	<0.5	<0.5	<0.5	<0.5	--
TRIP BLANK									
QA									
09/23/11	--	--	--	<22	<0.5	<0.5	<0.5	<0.5	<0.5
12/29/11	--	--	--	<22	<0.5	<0.5	<0.5	<0.5	<0.5
03/30/12	--	--	--	<22	<0.5	<0.5	<0.5	<0.5	<0.5
06/12/12	--	--	--	<22	<0.5	<0.5	<0.5	<0.5	<0.5
09/27/12	--	--	--	<22	<0.5	<0.5	<0.5	<0.5	<0.5
03/13/13	--	--	--	<22	<0.5	<0.5	<0.5	<0.5	<0.5
09/17/13	--	--	--	<22	<0.5	<0.5	<0.5	<0.5	<0.5
03/21/14	--	--	--	<22	<0.5	<0.5	<0.5	<0.5	--

Table 2
Groundwater Monitoring Data and Analytical Results
Former Chevron-Branded Service Station 91723
9757 San Leandro Street, Oakland, California

EXPLANATIONS:

Current groundwater monitoring data provided by Blaine Tech Services, Inc. Current laboratory analytical results provided by Eurofins Lancaster Laboratories.

TOC = Top of Casing
(ft.) = Feet

DTW = Depth to Water

GWE = Groundwater Elevation

(msl) = Mean Sea Level

TPH-GRO = Total Petroleum Hydrocarbons as 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

QA = Quality Assurance/Trip Blank

Table 3
Monitored Natural Attenuation Parameters
Former Chevron-Branded Service Station 91723
9757 San Leandro Street, Oakland, California

WELL ID/ DATE	METHANE (µg/L)	NITRATE (µg/L)	SULFATE (µg/L)	ALKALINITY TO pH 4.5 (µg/L as CaCO ₃)	ALKALINITY TO pH 8.3 (µg/L as CaCO ₃)	FERROUS IRON (µg/L)	SULFIDE (µg/L)	POST-PURGE DO (mg/L)	POST-PURGE ORP (mV)
MW-2									
03/30/12	330	320	10,600	545,000	<460	2,200	<270 ¹	1.08	219
06/12/12	300	290	12,900	460,000	<700	1,400	<220 ¹	0.86	135
09/27/12	250	710	14,200	448,000	<700	450	99	0.91	138
03/13/13	680	<250	13,000	503,000	--	700	<54	1.39	-7
09/17/13	370	<250	12,000	506,000	--	690	130	0.74	8
03/21/14	--	--	--	--	--	--	--	1.48	-36
MW-5									
03/30/12	110	440	30,200	370,000	<460	300	<270 ¹	1.11	222
06/12/12	120	890	44,800	387,000	<700	7,300	<220 ¹	0.87	124
09/27/12	110	980	30,200	370,000	<700	7,400	<110 ¹	0.98	136
03/13/13	170	570	30,600	398,000	--	2,600	<54	1.19	-34
09/17/13	110	900	31,200	373,000	--	2,000	<54	0.46	-4
03/21/14	--	--	--	--	--	--	--	1.31	-28
MW-6									
03/30/12	62	<250	5,600	455,000	<460	210	<54	1.12	223
06/12/12	190	<250	6,300	458,000	<700	4,700	<110 ¹	0.84	115
09/27/12	170	640	8,500	434,000	<700	8,800	<110 ¹	0.96	133
03/13/13	190	<250	4,400	473,000	--	6,200	<54	2.61	7
09/17/13	120	<250	6,300	444,000	--	4,600	98	0.49	-14
03/21/14	--	--	--	--	--	--	--	1.16	26
MW-8									
03/30/12	2,100	2,300	32,200	454,000	<460	29,300	780 ¹	1.15	230
06/12/12	1,700	<250	9,200	441,000	<700	43,200	<220 ¹	0.98	47
09/27/12	1,900	420	7,900	444,000	<700	35,600	<270 ¹	1.21	50
03/13/13	1,800	<250	9,700	450,000	--	32,300	<540 ¹	1.61	-85
09/17/13	1,700	<250	5,700	468,000	--	22,300	<220 ¹	0.38	-78
03/21/14	--	--	--	--	--	--	--	1.09	-51

Table 3
Monitored Natural Attenuation Parameters
Former Chevron-Branded Service Station 91723
9757 San Leandro Street, Oakland, California

WELL ID/ DATE	METHANE (µg/L)	NITRATE (µg/L)	SULFATE (µg/L)	ALKALINITY TO pH 4.5 (µg/L as CaCO ₃)	ALKALINITY TO pH 8.3 (µg/L as CaCO ₃)	FERROUS IRON (µg/L)	SULFIDE (µg/L)	POST-PURGE DO (mg/L)	POST-PURGE ORP (mV)
MW-9									
03/30/12	<5.0	<250	7,400	381,000	<460	31	<54	1.34	179
06/12/12	<5.0	2,900	32,900	397,000	<700	340	<54	0.92	128
09/27/12	<5.0	1,700	32,200	398,000	<700	53	<54	1.10	141
03/13/13	<3.0	2,400	33,400	414,000	--	<8.0	<54	1.38	189
09/17/13	<3.0	910	29,200	414,000	--	<10	<54	1.41	124
03/21/14	--	--	--	--	--	--	--	1.04	72

Table 3
Monitored Natural Attenuation Parameters
Former Chevron-Branded Service Station 91723
9757 San Leandro Street, Oakland, California

EXPLANATIONS:

Current groundwater monitoring data provided by Blaine Tech Services, Inc. Current laboratory analytical results provided by Eurofins Lancaster Laboratories.

(µg/L) = Micrograms per liter

(µg/L as CaCO₃) = Micrograms per liter as calcium carbonate

DO = Dissolved Oxygen

(mg/L) = Milligrams per liter

ORP = Oxidation Reduction Potential

(mV) = Millivolts

-- = Not Measured/Not Analyzed

¹ Laboratory report indicates reporting limits were raised due to interference from the sample matrix.

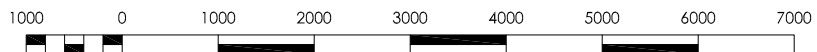
FIGURES



CALIFORNIA



SCALE IN MILES



SCALE IN FEET

REFERENCE: USGS 7.5 QUADRANGLE;
SAN LEANDRO, 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 91723
9757 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

JOB NUMBER:
211602332

DRAWN BY:
NMB

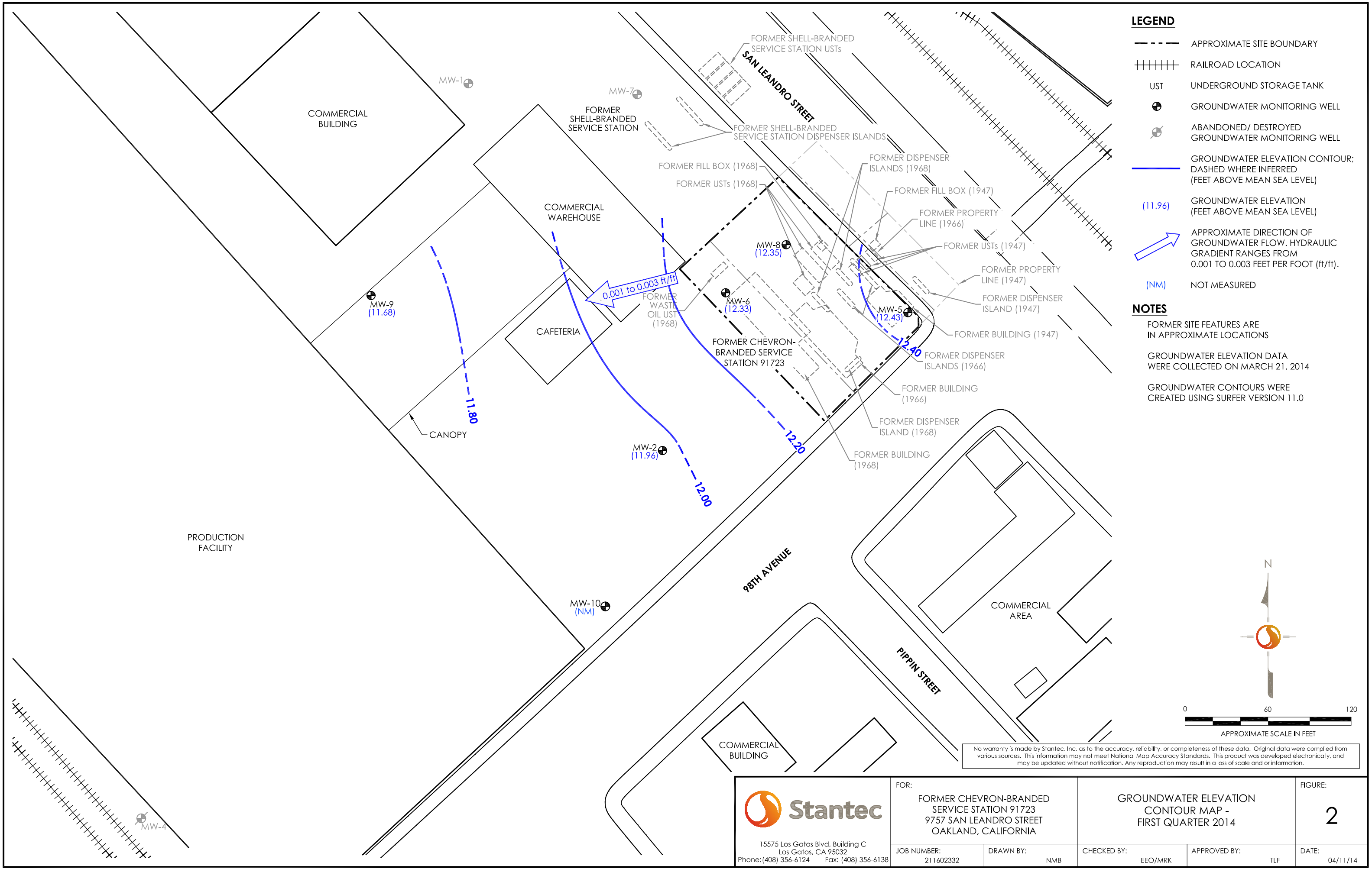
CHECKED BY:
EEO/MRK

APPROVED BY:
TLF

FIGURE:

1

DATE:
04/11/14



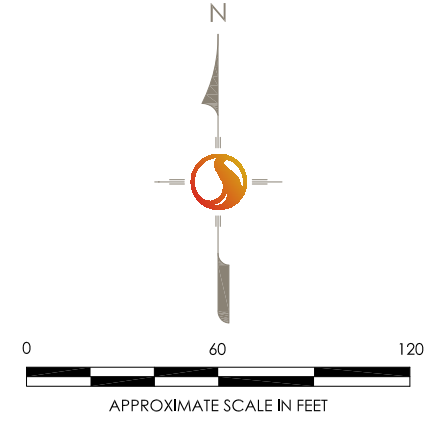
- LEGEND**
- APPROXIMATE SITE BOUNDARY
 - ++++ RAILROAD LOCATION
 - UST UNDERGROUND STORAGE TANK
 - ⊕ GROUNDWATER MONITORING WELL
 - ⊖ ABANDONED/ DESTROYED GROUNDWATER MONITORING WELL
 - GROUNDWATER ELEVATION CONTOUR; DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL)
 - (11.96) GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
 - ➔ APPROXIMATE DIRECTION OF GROUNDWATER FLOW. HYDRAULIC GRADIENT RANGES FROM 0.001 TO 0.003 FEET PER FOOT (ft/ft).
 - (NM) NOT MEASURED

NOTES


FORMER SITE FEATURES ARE IN APPROXIMATE LOCATIONS

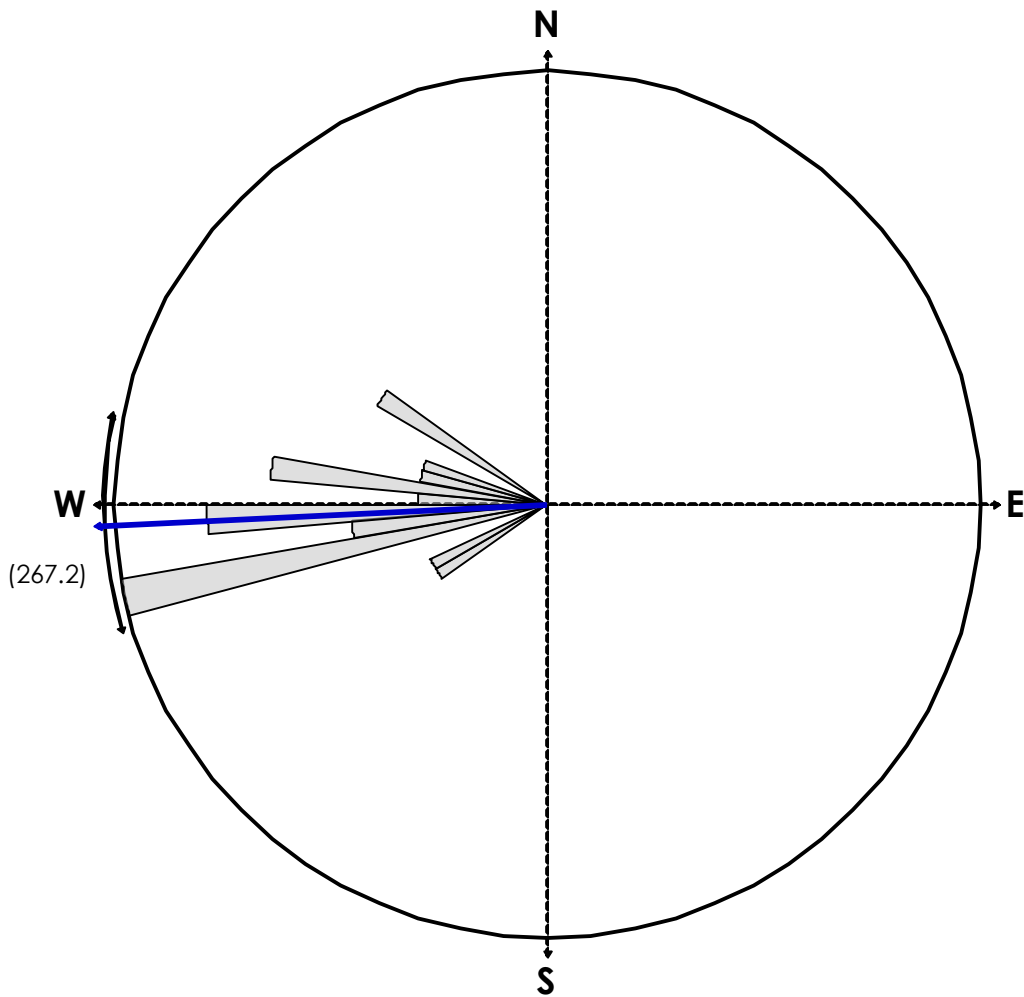
GROUNDWATER ELEVATION DATA WERE COLLECTED ON MARCH 21, 2014

GROUNDWATER CONTOURS WERE CREATED USING SURFER VERSION 11.0



No warranty is made by Stantec, Inc. as to the accuracy, reliability, or completeness of these data. Original data were compiled from various sources. This information may not meet National Map Accuracy Standards. This product was developed electronically, and may be updated without notification. Any reproduction may result in a loss of scale and/or information.


 15575 Los Gatos Blvd, Building C Los Gatos, CA 95032 Phone: (408) 356-6124 Fax: (408) 356-6138	FOR: FORMER CHEVRON-BRANDED SERVICE STATION 91723 9757 SAN LEANDRO STREET OAKLAND, CALIFORNIA	GROUNDWATER ELEVATION CONTOUR MAP - FIRST QUARTER 2014		FIGURE: 2
	JOB NUMBER: 211602332	DRAWN BY: NMB	CHECKED BY: EEO/MRK	APPROVED BY: TLF

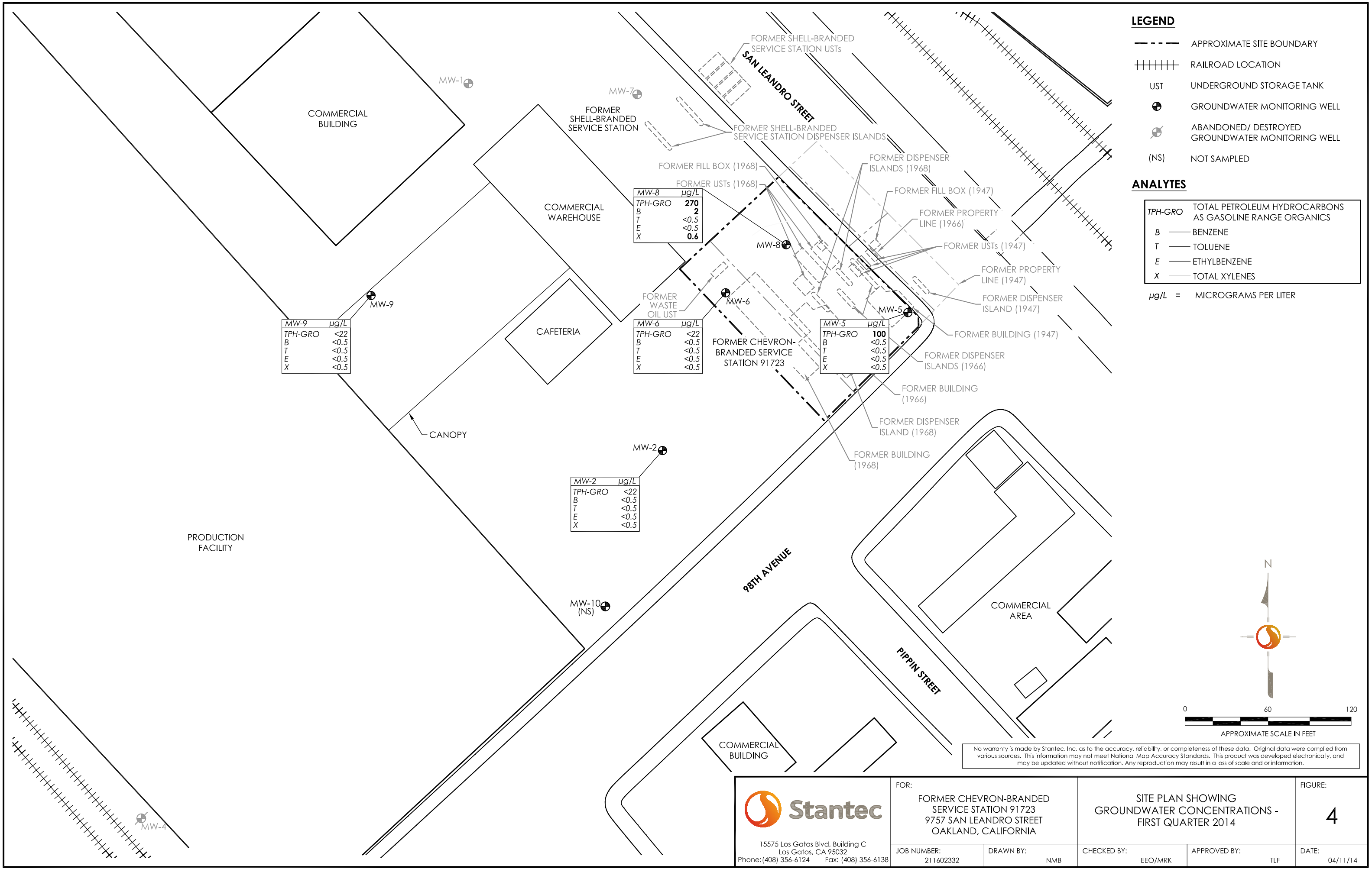


EQUAL AREA PLOT

Number of Points 29
 Class Size 5
 Vector Mean 267.24
 Vector Magnitude 28.06
 Consistency Ratio 0.97

NOTE: ROSE DIAGRAM IS BASED ON THE DIRECTION OF GROUNDWATER FLOW BEGINNING THIRD QUARTER 1988.

 15575 Los Gatos Blvd, Building C Los Gatos, CA 95032 Phone: (408) 356-6124 Fax: (408) 356-6138	FOR: FORMER CHEVRON-BRANDED SERVICE STATION 91723 9757 SAN LEANDRO STREET OAKLAND, CALIFORNIA		ROSE DIAGRAM - FIRST QUARTER 2014		FIGURE: 3
	JOB NUMBER: 211602332	DRAWN BY: NMB	CHECKED BY: EEO/MRK	APPROVED BY: TLF	DATE: 04/11/14



- LEGEND**
- APPROXIMATE SITE BOUNDARY
 - ++++ RAILROAD LOCATION
 - UST
 - ⊕ GROUNDWATER MONITORING WELL
 - ⊖ ABANDONED/ DESTROYED GROUNDWATER MONITORING WELL
 - (NS) NOT SAMPLED

- ANALYTES**
- TPH-GRO — TOTAL PETROLEUM HYDROCARBONS AS GASOLINE RANGE ORGANICS
 - B — BENZENE
 - T — TOLUENE
 - E — ETHYLBENZENE
 - X — TOTAL XYLENES
- μg/L = MICROGRAMS PER LITER

MW-9	μg/L
TPH-GRO	<22
B	<0.5
T	<0.5
E	<0.5
X	<0.5

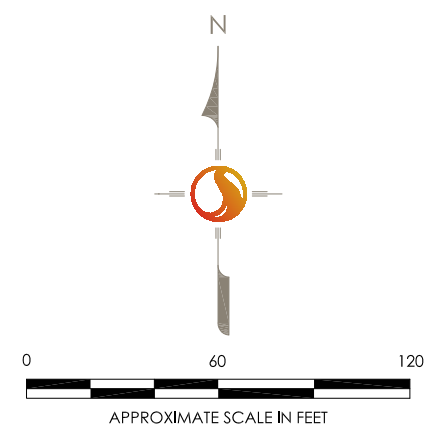
MW-8	μg/L
TPH-GRO	270
B	2
T	<0.5
E	<0.5
X	0.6

MW-6	μg/L
TPH-GRO	<22
B	<0.5
T	<0.5
E	<0.5
X	<0.5

MW-5	μg/L
TPH-GRO	100
B	<0.5
T	<0.5
E	<0.5
X	<0.5

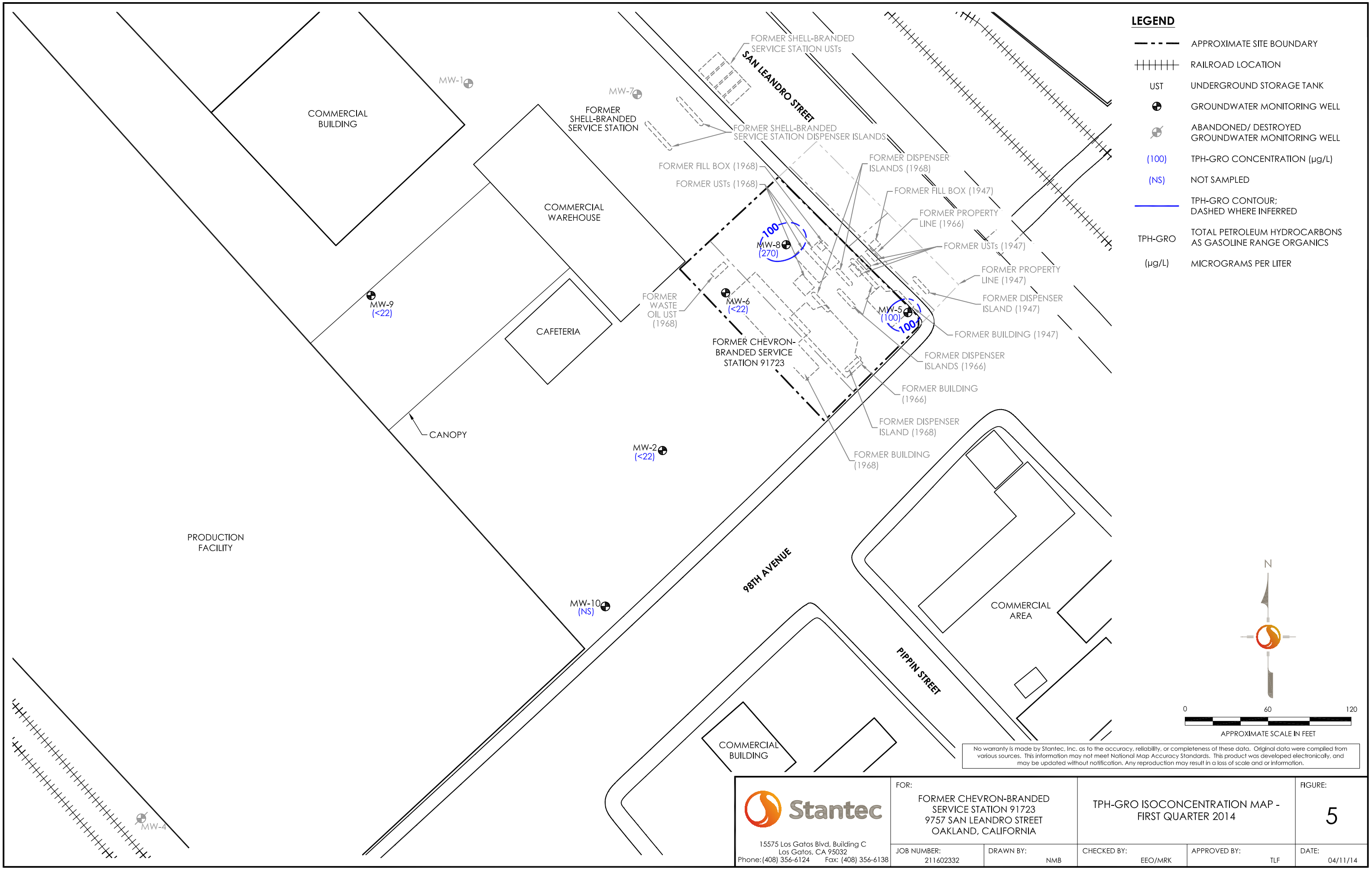
MW-2	μg/L
TPH-GRO	<22
B	<0.5
T	<0.5
E	<0.5
X	<0.5

MW-10 (NS)

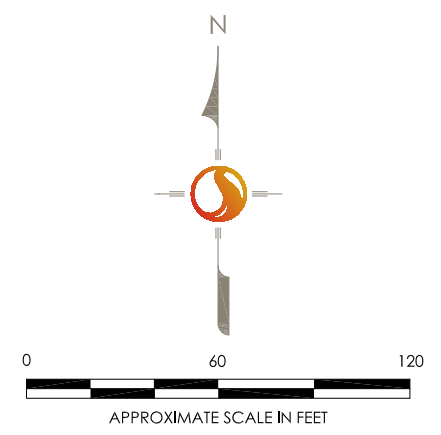


No warranty is made by Stantec, Inc. as to the accuracy, reliability, or completeness of these data. Original data were compiled from various sources. This information may not meet National Map Accuracy Standards. This product was developed electronically, and may be updated without notification. Any reproduction may result in a loss of scale and/or information.


<p>15575 Los Gatos Blvd, Building C Los Gatos, CA 95032 Phone: (408) 356-6124 Fax: (408) 356-6138</p>	<p>FOR: FORMER CHEVRON-BRANDED SERVICE STATION 91723 9757 SAN LEANDRO STREET OAKLAND, CALIFORNIA</p>	<p>SITE PLAN SHOWING GROUNDWATER CONCENTRATIONS - FIRST QUARTER 2014</p>		<p>FIGURE: 4</p>
	<p>JOB NUMBER: 211602332</p>	<p>DRAWN BY: NMB</p>	<p>CHECKED BY: EEO/MRK</p>	<p>APPROVED BY: TLF</p>

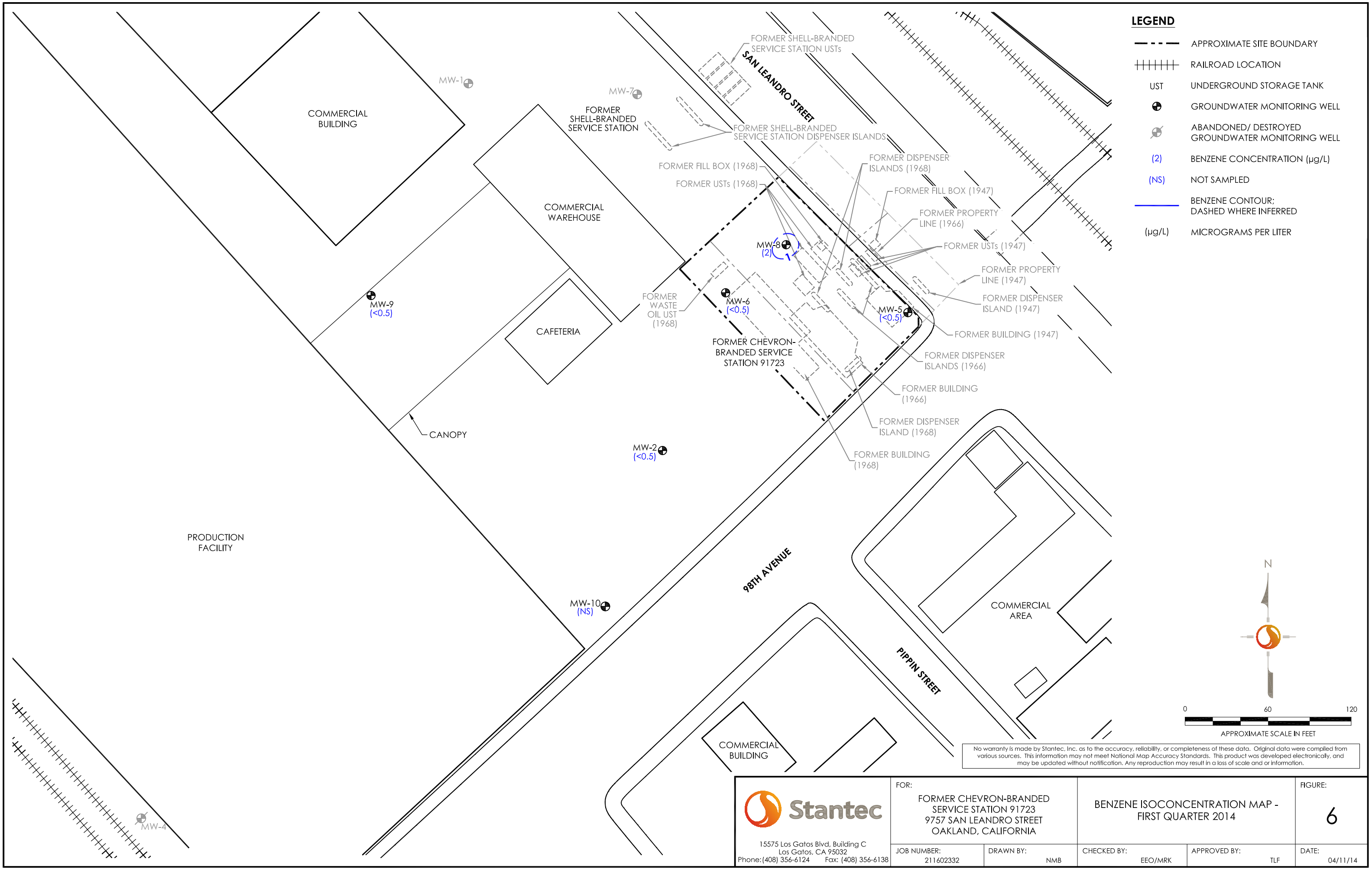



- LEGEND**
- APPROXIMATE SITE BOUNDARY
 - ++++ RAILROAD LOCATION
 - UST
 - ⊕ GROUNDWATER MONITORING WELL
 - ⊖ ABANDONED/ DESTROYED GROUNDWATER MONITORING WELL
 - (100) TPH-GRO CONCENTRATION (µg/L)
 - (NS) NOT SAMPLED
 - TPH-GRO CONTOUR; DASHED WHERE INFERRED
 - TPH-GRO TOTAL PETROLEUM HYDROCARBONS AS GASOLINE RANGE ORGANICS (µg/L)
 - MICROGRAMS PER LITER



No warranty is made by Stantec, Inc. as to the accuracy, reliability, or completeness of these data. Original data were compiled from various sources. This information may not meet National Map Accuracy Standards. This product was developed electronically, and may be updated without notification. Any reproduction may result in a loss of scale and/or information.

 15575 Los Gatos Blvd, Building C Los Gatos, CA 95032 Phone: (408) 356-6124 Fax: (408) 356-6138	FOR: FORMER CHEVRON-BRANDED SERVICE STATION 91723 9757 SAN LEANDRO STREET OAKLAND, CALIFORNIA	TPH-GRO ISOCONCENTRATION MAP - FIRST QUARTER 2014		FIGURE: 5
	JOB NUMBER: 211602332	DRAWN BY: NMB	CHECKED BY: EEO/MRK	APPROVED BY: TLF



 <p>15575 Los Gatos Blvd, Building C Los Gatos, CA 95032 Phone: (408) 356-6124 Fax: (408) 356-6138</p>	FOR:	BENZENE ISOCONCENTRATION MAP -		FIGURE:
	FORMER CHEVRON-BRANDED SERVICE STATION 91723 9757 SAN LEANDRO STREET OAKLAND, CALIFORNIA		FIRST QUARTER 2014	
JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
211602332	NMB	EEO/MRK	TLF	04/11/14

ATTACHMENT A
Blaine Tech Groundwater Monitoring Report –
First Quarter 2014



March 26, 2014

Chevron Environmental Management Company
Caryl McLeod
6111 Bollinger Canyon Rd.
San Ramon, CA 94583

First Quarter 2014 Monitoring at
Former Chevron Service Station 9-1723
9757 San Leandro St.
Oakland, CA

Monitoring performed on March 21, 2014

Blaine Tech Services, Inc. Groundwater Monitoring Event 140321-JO1

This submission covers the routine monitoring of groundwater wells conducted on March 21, 2014 at this location. Five monitoring wells were measured for depth to groundwater (DTW). Five monitoring wells were sampled. All sampling activities were performed in accordance with local, state and federal guidelines.

Water levels measurements were collected using an electronic slope indicator. All sampled wells were purged of three case volumes, depending on well recovery, or until water temperature, pH and conductivity stabilized. Purging was accomplished using electric submersible pumps, positive air displacement pumps, or stainless steel, Teflon, or disposable bailers. Subsequent sample collection and sample handling was performed in accordance with EPA protocols. Alternately, where applicable, wells were sampled utilizing no-purge methodology. All reused equipment was decontaminated in an integrated stainless steel sink with de-ionized water supplied Hotsy pressure washer and Liquinox or equivalent.

First Quarter Groundwater Monitoring at Chevron 91723, 9757 San Leandro St, Oakland, CA

SAN JOSE

SACRAMENTO

LOS ANGELES

SAN DIEGO

1680 ROGERS AVENUE

SAN JOSE, CA 95112-1105

(408) 573-0555

FAX (408) 573-7771

LIC. 746684

www.blainetech.com

Samples were delivered under chain-of-custody to Lancaster Laboratories of Lancaster, Pennsylvania, for analysis. Monitoring well purgewater and equipment rinsate water was collected and transported under bill-of-lading to Blaine Tech of San Jose, California.

Enclosed documentation from this event includes copies of the Well Gauging Sheet, Well Monitoring Data Sheets, and Chain-of-Custody.

Blaine Tech Services, Inc.'s activities at this site consisted of objective data and sample collection only. No interpretation of analytical results, defining of hydrogeologic conditions or formulation of recommendations was performed.

Please call if you have any questions.

Sincerely,



Dustin Becker
Blaine Tech Services, Inc.
Senior Project Manager

attachments: SOP
Well Gauging Sheet
Individual Well Monitoring Data Sheets
Wellhead Inspection Form
Bill of Lading
Calibration Log

cc: Stantec
Attn: Travis Flora
15575 Los Gatos Blvd Building C
Los Gatos, CA 95032

First Quarter Groundwater Monitoring at Chevron 91723, 9757 San Leandro St, Oakland, CA

SAN JOSE

SACRAMENTO

LOS ANGELES

SAN DIEGO

1680 ROGERS AVENUE

SAN JOSE, CA 95112-1105

(408) 573-0555

FAX (408) 573-7771

LIC. 746684

www.blainetech.com

BLAINE TECH SERVICES, INC. METHODS AND PROCEDURES FOR THE ROUTINE MONITORING OF GROUNDWATER WELLS AT CHEVRON SITES

Blaine Tech Services, Inc. performs environmental sampling and documentation as an independent third party. We specialize in groundwater monitoring assignments and intentionally limit the scope of our services to those centered on the generation of objective information.

To avoid conflicts of interest, Blaine Tech Services, Inc. personnel do not evaluate or interpret the information we collect. As a state licensed contractor (C-57 well drilling –water – 746684) performing strictly technical services, we do not make any professional recommendations and perform no consulting of any kind.

SAMPLING PROCEDURES OVERVIEW

SAFETY

All groundwater monitoring assignments performed for Chevron comply with Chevron's safety guidelines, 29 CFR 1910.120 and SB-198 Injury and Illness Prevention Program (IIPP). All Field Technicians receive the full 40-hour 29CFR 1910.120 OSHA SARA HAZWOPER course, medical clearance and on-the-job training prior to commencing any work on any Chevron site.

INSPECTION AND GAUGING

Wells are inspected prior to evacuation and sampling. The condition of the wellhead is checked and noted according to a wellhead inspection checklist.

Standard measurements include the depth to water (DTW) and the total well depth (TD) obtained with industry standard electronic water level indicators that are graduated in increments of hundredths of a foot.

The water in each well is inspected for the presence of immiscibles. When free product is suspected, its presence is confirmed using an electronic interface probe (e.g. GeoTech). No samples are collected from a well containing product.

TRADITIONAL PURGING & SAMPLING

Evacuation

Depth to water measurements are collected by our personnel prior to purging and minimum purge volumes are calculated anew for each well based on the height of the water column and the diameter of the well. Expected purge volumes are never less than three case volumes and are set at no less than four case volumes in some jurisdictions.

Well purging devices are selected on the basis of the well diameter and the total volume to be evacuated. In most cases the well will be purged using an electric submersible pump (i.e. Grundfos) suspended near (but not touching) the bottom of the well.

Parameter Stabilization

Well purging completion standards include minimum purge volumes, but additionally require stabilization of specific groundwater parameters prior to sample collection. Typical groundwater parameters used to measure stability are electrical conductivity, pH, and temperature. Instrument readings are obtained at regular intervals during the evacuation process (no less than once per case volume).

Stabilization standards for routine quarterly monitoring of fuel sites include the following: Temperature is considered to have stabilized when successive readings do not fluctuate more than +/- 1 degree Celsius. Electrical conductivity is considered stable when successive readings are within 10%. pH is considered to be stable when successive readings remain constant or vary no more than 0.2 of a pH unit.

Sample Collection

All samples are collected using disposable bailers.

Sample Containers

Sample material is decanted directly from the sampling bailer into sample containers provided by the laboratory that will analyze the samples. The transfer of sample material from the bailer to the sample container conforms to specifications contained in the USEPA T.E.G.D. The type of sample container, material of construction, method of closure and filling requirements are specific to the intended analysis. Chemicals needed to preserve the sample material are commonly placed inside the sample containers by the laboratory or glassware vendor prior to delivery of the bottle to our personnel. The laboratory sets the number of replicate containers.

Dewatered Wells

Normal evacuation removes no less than three case volumes of water from the well. However, less water may be removed in cases where the well dewateres and does not immediately recharge.

Measuring Recharge

Upon completion of well purging, a depth to water measurement is collected and noted to ensure that the well has recharged to within 80% of its static, pre-purge level prior to sampling.

Wells that do not immediately show 80% recharge or dewatered wells will be allowed approximately 2 hours to recharge prior to sampling or will be sampled at site departure. All wells requiring off-site traffic control in the public right-of-way, the 80% recharge rule may be disregarded in the interests of Health and Safety. The sample may be collected as soon as there is sufficient water. The water level at time of sampling will be noted.

Dissolved Oxygen Measurements

Dissolved Oxygen readings are taken pre- and/or post-purge using YSI meters (e.g. YSI Model 550) or HACH field test kits.

The YSI meters are able to collect accurate in-situ readings. The probe allows downhole measurements to be taken from wells with diameters as small as two inches. The probe and reel is decontaminated between wells as described above. The meter is calibrated

as per the instructions in the operating manual. The probe is lowered into the water column and the reading is allowed to stabilize prior to collection.

Oxidation Reduction Potential Measurements (ORP)

All readings are obtained with either Corning or Myron-L meters (e.g. Corning ORP-65 or a Myron-L Ultrameter). The meter is cleaned between wells as described above. The meter is calibrated at the start of each day according to the instruction manual.

LOW FLOW SAMPLING USING SAMPLE-PRO BLADDER PUMP

Calibration

Calibrate YSI Flow Cell as per manufacturer's specifications. Thoroughly rinse probe and cup between parameters. Calibration order as follows:

1. pH (use 3-point calibration of 7, 4, 10)
2. Oxygen Reduction Potential (ORP)
3. Specific Conductance
4. Dissolved Oxygen (DO) (calibrate simulating 100% oxygen saturation)

Purging & Sampling Collection

1. Insert new bladder into Sample-Pro pump housing.
2. Remove dedicated PE tubing from the well or start with new PE tubing cut to the required length.
3. Attach the PE tubing to the Sample-Pro Bladder Pump.
4. Gently lower the Sample-Pro Bladder Pump, and PE tubing into the well, placing the Sample-Pro Bladder Pump intake at the center of the screened interval. Take care to minimize disturbance to the water column.
5. Direct effluent line into YSI 556 Flow Cell.
6. Set Sample-Pro Bladder Pump speed at 100 - 500 ml/min.
7. Collect water quality parameter measurements for temperature, pH, conductivity, turbidity, DO and ORP every 3-5 minutes.
8. Monitor drawdown during purging with electronic water level meter. Record water level with each parameter measurement. **MAXIMUM DRAWDOWN IS 0.33 FEET.**
9. Collect parameter measurements until stability is achieved. Stability is defined as three consecutive measurements where:

Temp	± 1 ° Celsius
pH	± 0.1
Conductivity	± 3%
Turbidity	± 10% NTU
DO	± 0.3 mg/l
ORP	± 10 Mv

10. Sample may be collected once stability is achieved and at least one system volume of water removed from the well.
11. Disconnect effluent line from YSI 556 Flow Cell.
12. Sample through effluent line while maintaining constant flow rate.
13. Remove Sample-Pro Bladder Pump, and PE tubing from well.
14. Detach and reinstall dedicated PE tubing in well.

PURGEWATER CONTAINMENT

All non-hazardous purgewater evacuated from each groundwater monitoring well is captured and contained in on-board storage tanks on the Sampling Vehicle and/or special water hauling trailers. Effluent from the decontamination of reusable apparatus (sounders, electric pumps and hoses etc.), consisting of groundwater combined with deionized water and non-phosphate soap, is also captured and pumped into effluent tanks.

Non-hazardous purgewater is transported under standard Bill of Lading or Non-Hazardous Waste Manifest to a Blaine Tech Services, Inc. facility before being transported to a Chevron approved disposal facility

TRIP BLANKS

Trip Blanks, if requested, are taken to the site and kept inside the sample cooler for the duration of the event. They are turned over to the laboratory for analysis with the samples from that site.

DUPLICATES

Duplicates, if requested, may be collected at a site.

SAMPLE STORAGE

All sample containers are promptly placed in food grade ice chests for storage in the field and transport (direct or via our facility) to the designated analytical laboratory. These ice chests contain quantities of restaurant grade ice as a refrigerant material. The samples are maintained in either an ice chest or a refrigerator until relinquished into the custody of the laboratory or laboratory courier.

DOCUMENTATION CONVENTIONS

A label must be affixed to all sample containers. In most cases these labels are generated by our office personnel and are partially preprinted. Labels can also be hand written by our field personnel. The site is identified with the store number and site address, as is the particular groundwater well from which the sample is drawn (e.g. MW-1, MW-2, S-1 etc.). The time and date of sample collection along with the initials of the person who collects the sample are handwritten onto the label. Field documentation is contemporaneous.

DECONTAMINATION

All equipment is brought to the site in clean and serviceable condition and is cleaned after use in each well and before subsequent use in any other well. Equipment such as hose reels, pumps and bailers is decontaminated before leaving the site.

The primary decontamination device is a commercial steam cleaner. The steam cleaner is de-tuned to function as a hot pressure washer that is then operated with high quality deionized water that is produced at our facility and stored onboard our sampling vehicle. Cleaning is

facilitated by the use of proprietary fixtures and devices included in the patented workstation (U.S. Patent 5,535,775) that is incorporated in each sampling vehicle.

Any sensitive equipment or parts (i.e. Dissolved Oxygen sensor membrane, water level indicator, etc.) that cannot be washed using the high pressure water, will be sprayed with a non-phosphate soap and deionized water solution and rinsed with deionized water.

FERROUS IRON MEASUREMENTS

All field measurements are collected at time of sampling with a HACH test kit.

CHEVRON WELL MONITORING DATA SHEET

Project #: 140321-J01	Station #: 140321-J01 9-1723
Sampler: Jo	Date: 3-21-14
Weather: clear	Ambient Air Temperature: 65°F
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8
Total Well Depth: 21.55	Depth to Water: 9.35
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.79	

Purge Method:

- Bailer
 Disposable Bailer
 Positive Air Displacement
 Electric Submersible
 Waterra
 Peristaltic
 Extraction Pump
 Other _____

Sampling Method:

- Bailer
 Disposable Bailer
 Extraction Port
 Dedicated Tubing
 Other: _____

1.9 (Gals.) X	3	= 5.7 Gals.
I Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or μS)	Turbidity (NTUs)	Gals. Removed	Observations
0857	63.0	6.98	930	71000	1.9	
0859	63.1	6.98	932	71000	3.8	
0901	63.1	6.97	937	>1000	5.7	

Did well dewater? Yes No Gallons actually evacuated: 5.7

Sampling Date: 3-21-14 Sampling Time: 0905 Depth to Water: 9.36

Sample I.D.: MW-2 Laboratory: Lancaster Other _____

Analyzed for: TPH-G BTEX MTBE OXYS Other: See coe

Duplicate I.D.: Analyzed for: TPH-G BTEX MTBE OXYS Other: _____

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	1.40 mg/L
	O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:

CHEVRON WELL MONITORING DATA SHEET

Project #: 140321-501	Station #: 9-1723
Sampler: Jo	Date: 3-21-14
Weather: clear	Ambient Air Temperature: 65° F
Well I.D.: MW-5	Well Diameter: (2) 3 4 6 8
Total Well Depth: 17.50	Depth to Water: 9.41
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.02	

Purge Method: Bailer Waterra Sampling Method: Bailer

Bailer Disposable Bailer Extraction Port
 Disposable Bailer Peristaltic Dedicated Tubing
 Positive Air Displacement Extraction Pump Other: _____
 Electric Submersible Other: _____

1.3 (Gals.) X	3	= 3.9 Gals.
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or μS)	Turbidity (NTUs)	Gals. Removed	Observations
0917	63.1	6.99	874	>1000	1.3	
0919	63.1	6.98	881	>1000	2.6	
0921	63.1	6.98	884	>1000	3.9	

Did well dewater? Yes No Gallons actually evacuated: 3.9

Sampling Date: 3-21-14 Sampling Time: 0925 Depth to Water: 9.49

Sample I.D.: MW-5 Laboratory: (Lancaster) Other _____

Analyzed for: TPH-G BTEX MTBE OXYS Other: See Loc

Duplicate I.D.: Analyzed for: TPH-G BTEX MTBE OXYS Other: _____

D.O. (if req'd): Pre-purge: _____ mg/L Post-purge: 1.31 mg/L

O.R.P. (if req'd): Pre-purge: _____ mV Post-purge: -28 mV

CHEVRON WELL MONITORING DATA SHEET

Project #: 140321-501	Station #: 9-1723
Sampler: 50	Date: 3-21-14
Weather: clear	Ambient Air Temperature:
Well I.D.: MW -6	Well Diameter: (2) 3 4 6 8
Total Well Depth: 19.60	Depth to Water: 9.38
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.42	

Purge Method:

- Bailer
 Disposable Bailer
 Positive Air Displacement
 Electric Submersible
 Waterra
 Peristaltic
 Extraction Pump
 Other _____

Sampling Method:

- Bailer
 Disposable Bailer
 Extraction Port
 Dedicated Tubing
 Other: _____

1.6 (Gals.) X	3	= 4.8 Gals.
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or μS)	Turbidity (NTUs)	Gals. Removed	Observations
0837	62.1	6.69	981	>1000	1.6	
0839	62.1	6.70	976	>1000	3.2	
0841	62.1	6.70	974	>1000	4.8	

Did well dewater? Yes No Gallons actually evacuated: 4.8

Sampling Date: 3-21-14 Sampling Time: 0845 Depth to Water: 9.42

Sample I.D.: MW -6 Laboratory: (Lancaster) Other _____

Analyzed for: TPH-G BTEX MTBE OXYS Other: See COC

Duplicate I.D.: Analyzed for: TPH-G BTEX MTBE OXYS Other:

D.O. (if req'd):	Pre-purge: mg/L	Post-purge: 1.16 mg/L
O.R.P. (if req'd):	Pre-purge: mV	Post-purge: 26 mV

CHEVRON WELL MONITORING DATA SHEET

Project #: 140321-301	Station #: 98 9-1723
Sampler: Jo	Date: 3-21-14
Weather: clear	Ambient Air Temperature: 65°F
Well I.D.: MW-8	Well Diameter: ② 3 4 6 8
Total Well Depth: 18.20	Depth to Water: 9.49
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.23	

Purge Method:

- Bailer
 Disposable Bailer
 Positive Air Displacement
 Electric Submersible
 Waterra
 Peristaltic
 Extraction Pump
 Other _____

Sampling Method:

- Bailer
 Disposable Bailer
 Extraction Port
 Dedicated Tubing
 Other: _____

13 (Gals.) X	3	= 39 Gals.
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations
0937	63.1	6.96	892	>1000	1.3	odor
0939	63.2	6.97	891	>1000	2.6	odor
0944	63.2	6.99	890	>1000	9.9	odor

Did well dewater? Yes No Gallons actually evacuated: 9.9

Sampling Date: 3-21-14 Sampling Time: 0945 Depth to Water: 9.54

Sample I.D.: MW-8 Laboratory: Lancaster Other _____

Analyzed for: TPH-G BTEX MTBE OXYS Other: Sol conc

Duplicate I.D.: Analyzed for: TPH-G BTEX MTBE OXYS Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	1.01 mg/L
	O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:

CHEVRON WELL MONITORING DATA SHEET

Project #: 140321-101	Station #: 9-1723
Sampler: 10	Date: 3-21-14
Weather: clear	Ambient Air Temperature: 65°F
Well I.D.: MW-9	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 20.10	Depth to Water: 8.87
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.11	

Purge Method:

- Bailer
 Disposable Bailer
 Positive Air Displacement
 Electric Submersible
 Waterra
 Peristaltic
 Extraction Pump
 Other _____

Sampling Method:

- Bailer
 Disposable Bailer
 Extraction Port
 Dedicated Tubing
 Other: _____

7.2 (Gals.) X	3	= 21.6 Gals.
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or μS)	Turbidity (NTUs)	Gals. Removed	Observations
0816	62.0	6.94	856	429	7.2	
0818	62.1	6.93	857	500	14.4	
0820	62.1	6.96	859	502	21.6	

Did well dewater? Yes No Gallons actually evacuated: 21.6

Sampling Date: 3-21-14 Sampling Time: 0825 Depth to Water: 9.27

Sample I.D.: MW-9 Laboratory: (Lancaster) Other _____

Analyzed for: TPH-G BTEX MTBE OXYS Other: SEE COL

Duplicate I.D.: Analyzed for: TPH-G BTEX MTBE OXYS Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	1.04 mg/L
	O.R.P. (if req'd):	mV	Post-purge:	72 mV

CHAIN OF CUSTODY FORM

Chevron Environmental Management Company ■ 6111 Bollinger Canyon Rd. ■ San Ramon, CA 94583

COC 1 of 1

Chevron Site Number: <u>91723</u> Chevron Site Global ID: <u>T0600101789</u> Chevron Site Address: <u>9757 San Leandro St., Oakland, CA</u> Chevron PM: <u>CARRYL MACLEOD</u> Chevron PM Phone No.: <u>(925)790-6506</u> <input checked="" type="checkbox"/> Retail and Terminal Business Unit (RTBU) Job <input checked="" type="checkbox"/> Construction/Retail Job			Chevron Consultant: <u>STANTEC</u> Address: <u>15575 Los Gatos Blvd., Bldg. C Los Gatos, CA</u> Consultant Contact: <u>Travis Flora</u> Consultant Phone No. <u>408-356-6124</u> Consultant Project No. <u>140321-101</u> Sampling Company: <u>Blaine Tech Services</u> Sampled By (Print): <u>[Signature]</u> Sampler Signature: <u>[Signature]</u>			ANALYSES REQUIRED											
Charge Code: <u>NWRTB 00SITE NUMBER-0- WBS</u> (WBS ELEMENTS: SITE ASSESSMENT: A1L REMEDIATION IMPLEMENTATION: R5L SITE MONITORING: OML OPERATION MAINTENANCE & MONITORING: M1L THIS IS A LEGAL DOCUMENT. ALL FIELDS MUST BE FILLED OUT CORRECTLY AND COMPLETELY.			Lancaster Laboratories <input checked="" type="checkbox"/> Lancaster, PA Lab Contact: Jill Parker 2425 New Holland Pike, Lancaster, PA 17601 Phone No: (717)656-2300		Other Lab _____ _____ _____ _____ _____ _____		Temp. Blank Check Time Temp. <u>0900</u> <u>1000</u> <u>1000</u> <u>1000</u> _____ _____ _____ _____		<input type="checkbox"/> H <input type="checkbox"/> MIBEX <input type="checkbox"/> BTEX <input type="checkbox"/> GRO <input type="checkbox"/> BTEX <input type="checkbox"/> Ca, Fe, K, Mg, Mn, Na <input type="checkbox"/> TITLE 22 METALS <input type="checkbox"/> PH <input type="checkbox"/> ETHANOL <input type="checkbox"/> TPH-D	<input type="checkbox"/> HVOC <input type="checkbox"/> HC SCREEN <input type="checkbox"/> DRO <input type="checkbox"/> MTBE <input type="checkbox"/> STLC <input type="checkbox"/> ALKALINITY <input type="checkbox"/> OIL & GREASE	Preservation Codes H =HCL T= Thiosulfate N =HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other	Special Instructions Must meet lowest detection limits possible for 8260 Compounds					
SAMPLE ID				Sample Time	# of Containers	Container Type											Notes/Comments
Field Point Name	Matrix	Top Depth	Date (yymmdd)														
<u>QA</u>	<u>T</u>		<u>140321</u>	<u>0800</u>	<u>2</u>	<u>V095</u>											
<u>MW-2</u>	<u>W</u>			<u>0905</u>	<u>6</u>												
<u>MW-5</u>				<u>0925</u>													
<u>MW-6</u>				<u>0845</u>													
<u>MW-8</u>				<u>0945</u>													
<u>MW-9</u>				<u>0825</u>													
Relinquished By			Company	Date/Time	Relinquished To			Company	Date/Time	Turnaround Time:							
[Signature]			<u>BTS</u>	<u>3-21-14/1545</u>	[Signature]			<u>BTS</u>	<u>3-21-14/1545</u>	Standard <input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/> 48 hours <input type="checkbox"/> 72 Hours <input type="checkbox"/> Other <input type="checkbox"/>							
Relinquished By <u>(60)</u>			Company	Date/Time	Relinquished To			Company	Date/Time	Sample Integrity: (Check by lab on arrival)							
[Signature]			<u>BTS</u>	<u>3-24-14 @ 1150</u>	[Signature]			<u>LLI</u>	<u>3/24/14 1150</u>	Intact: _____ On Ice: _____ Temp: _____							
Relinquished By			Company	Date/Time	Relinquished To			Company	Date/Time	COC #							

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

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

ChevronTexaco
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

April 02, 2014

Project: 91723

Submittal Date: 03/25/2014

Group Number: 1461798

PO Number: 0015141332

Release Number: HOPKINS/CMACLEO

State of Sample Origin: CA

Client Sample Description

QA-T-140321 NA Water

MW-2-W-140321 NA Water

MW-5-W-140321 NA Water

MW-6-W-140321 NA Water

MW-8-W-140321 NA Water

MW-9-W-140321 NA Water

Lancaster Labs (LL)

7405697

7405698

7405699

7405700

7405701

7405702

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

ELECTRONIC Stantec

COPY TO

Attn: Laura Viesselman

ELECTRONIC Stantec

COPY TO

Attn: Travis Flora

ELECTRONIC Stantec

COPY TO

Attn: Marisa Kaffenberger

ELECTRONIC Stantec

COPY TO

Attn: Erin O'Malley

ELECTRONIC Blaine Tech Services, Inc.

COPY TO

Attn: Dustin Becker

Respectfully Submitted,



Natalie R. Luciano
Senior Specialist

(717) 556-7258

Sample Description: QA-T-140321 NA Water
Facility# 91723 BTST
9757 San Leandro-Oakland T0600101789

LL Sample # WW 7405697
LL Group # 1461798
Account # 10869

Project Name: 91723

Collected: 03/21/2014 08:00

ChevronTexaco

L4310

Submitted: 03/25/2014 09:50

6001 Bollinger Canyon Rd.

Reported: 04/02/2014 19:14

San Ramon CA 94583

1723Q

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles			SW-846 8260B	ug/l	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	C6-C12-TPH-GRO	n.a.	N.D.	22	1
10945	Ethylbenzene	100-41-4	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

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

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	8260 BTEX+ GRO C6-C12	SW-846 8260B	1	F140871AA	03/28/2014 09:00	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F140871AA	03/28/2014 09:00	Anita M Dale	1

Sample Description: MW-2-W-140321 NA Water
Facility# 91723 BTST
9757 San Leandro-Oakland T0600101789

LL Sample # WW 7405698
LL Group # 1461798
Account # 10869

Project Name: 91723

Collected: 03/21/2014 09:05 by JO ChevronTexaco
L4310
Submitted: 03/25/2014 09:50 6001 Bollinger Canyon Rd.
Reported: 04/02/2014 19:14 San Ramon CA 94583

17232

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	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	C6-C12-TPH-GRO	n.a.	N.D.	22	1
10945	Ethylbenzene	100-41-4	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

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

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	8260 BTEX+ GRO C6-C12	SW-846 8260B	1	F140871AA	03/28/2014 09:22	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F140871AA	03/28/2014 09:22	Anita M Dale	1

Sample Description: MW-5-W-140321 NA Water
Facility# 91723 BTST
9757 San Leandro-Oakland T0600101789

LL Sample # WW 7405699
LL Group # 1461798
Account # 10869

Project Name: 91723

Collected: 03/21/2014 09:25 by JO ChevronTexaco
L4310
Submitted: 03/25/2014 09:50 6001 Bollinger Canyon Rd.
Reported: 04/02/2014 19:14 San Ramon CA 94583

17235

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	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	C6-C12-TPH-GRO	n.a.	100	22	1
10945	Ethylbenzene	100-41-4	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

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

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	8260 BTEX+ GRO C6-C12	SW-846 8260B	1	F140872AA	03/28/2014 09:09	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F140872AA	03/28/2014 09:09	Anita M Dale	1

Sample Description: MW-6-W-140321 NA Water
Facility# 91723 BTST
9757 San Leandro-Oakland T0600101789

LL Sample # WW 7405700
LL Group # 1461798
Account # 10869

Project Name: 91723

Collected: 03/21/2014 08:45 by JO ChevronTexaco
L4310
Submitted: 03/25/2014 09:50 6001 Bollinger Canyon Rd.
Reported: 04/02/2014 19:14 San Ramon CA 94583

17236

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	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	C6-C12-TPH-GRO	n.a.	N.D.	22	1
10945	Ethylbenzene	100-41-4	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

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

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	8260 BTEX+ GRO C6-C12	SW-846 8260B	1	F140872AA	03/28/2014 09:31	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F140872AA	03/28/2014 09:31	Anita M Dale	1

Sample Description: MW-8-W-140321 NA Water
Facility# 91723 BTST
9757 San Leandro-Oakland T0600101789

LL Sample # WW 7405701
LL Group # 1461798
Account # 10869

Project Name: 91723

Collected: 03/21/2014 09:45 by JO

ChevronTexaco

L4310

Submitted: 03/25/2014 09:50

6001 Bollinger Canyon Rd.

Reported: 04/02/2014 19:14

San Ramon CA 94583

17238

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles			SW-846 8260B	ug/l	
10945	Benzene	71-43-2	2	0.5	1
10945	C6-C12-TPH-GRO	n.a.	270	22	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	0.6	0.5	1

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

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	8260 BTEX+ GRO C6-C12	SW-846 8260B	1	F140872AA	03/28/2014 10:37	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F140872AA	03/28/2014 10:37	Anita M Dale	1

Sample Description: MW-9-W-140321 NA Water
Facility# 91723 BTST
9757 San Leandro-Oakland T0600101789

LL Sample # WW 7405702
LL Group # 1461798
Account # 10869

Project Name: 91723

Collected: 03/21/2014 08:25 by JO

ChevronTexaco

L4310

Submitted: 03/25/2014 09:50

6001 Bollinger Canyon Rd.

Reported: 04/02/2014 19:14

San Ramon CA 94583

17239

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	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	C6-C12-TPH-GRO	n.a.	N.D.	22	1
10945	Ethylbenzene	100-41-4	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

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

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	8260 BTEX+ GRO C6-C12	SW-846 8260B	1	F140872AA	03/28/2014 10:58	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F140872AA	03/28/2014 10:58	Anita M Dale	1

Quality Control Summary

Client Name: ChevronTexaco
Reported: 04/02/14 at 07:14 PM

Group Number: 1461798

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

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

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: F140871AA	Sample number(s): 7405697-7405698							
Benzene	N.D.	0.5	ug/l	104		78-120		
C6-C12-TPH-GRO	N.D.	22.	ug/l	131	137	80-152	4	30
Ethylbenzene	N.D.	0.5	ug/l	108		79-120		
Toluene	N.D.	0.5	ug/l	109		80-120		
Xylene (Total)	N.D.	0.5	ug/l	101		80-120		
Batch number: F140872AA	Sample number(s): 7405699-7405702							
Benzene	N.D.	0.5	ug/l	101		78-120		
C6-C12-TPH-GRO	N.D.	22.	ug/l	126	127	80-152	0	30
Ethylbenzene	N.D.	0.5	ug/l	105		79-120		
Toluene	N.D.	0.5	ug/l	111		80-120		
Xylene (Total)	N.D.	0.5	ug/l	100		80-120		

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: F140871AA	Sample number(s): 7405697-7405698 UNSPK: 7405698								
Benzene	111	110	72-134	1	30				
Ethylbenzene	113	111	71-134	2	30				
Toluene	113	114	80-125	1	30				
Xylene (Total)	106	104	79-125	2	30				
Batch number: F140872AA	Sample number(s): 7405699-7405702 UNSPK: 7405700								
Benzene	107	104	72-134	3	30				
Ethylbenzene	109	108	71-134	0	30				
Toluene	111	109	80-125	2	30				
Xylene (Total)	101	101	79-125	0	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.

*- 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: ChevronTexaco
Reported: 04/02/14 at 07:14 PM

Group Number: 1461798

Surrogate Quality Control

Analysis Name: UST VOCs + GRO by 8260B-Water
Batch number: F140871AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7405697	91	94	108	103
7405698	91	96	109	105
Blank	90	94	109	103
LCS	90	96	111	107
LCSD	90	96	109	103
MS	93	96	110	106
MSD	89	97	109	108
Limits:	80-116	77-113	80-113	78-113

Analysis Name: UST VOCs + GRO by 8260B-Water
Batch number: F140872AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7405699	89	94	109	105
7405700	90	97	108	104
7405701	91	99	108	105
7405702	91	97	108	105
Blank	89	95	109	104
LCS	90	98	109	107
LCSD	90	97	109	106
MS	89	99	110	106
MSD	90	98	108	107
Limits:	80-116	77-113	80-113	78-113

*- Outside of specification

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

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter

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

> greater than

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.

Data Qualifiers:

C – result confirmed by reanalysis.

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

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

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

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

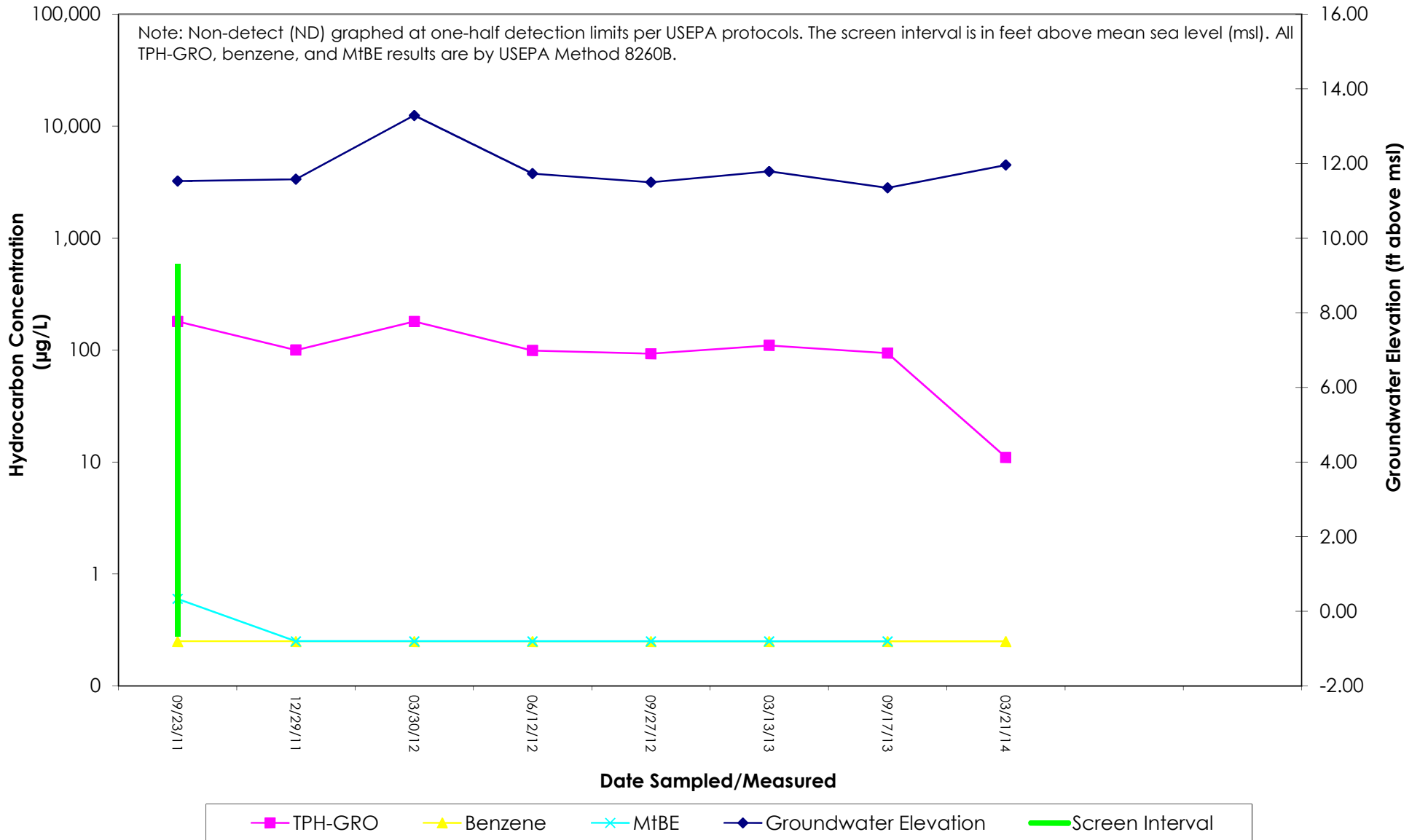
Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have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

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

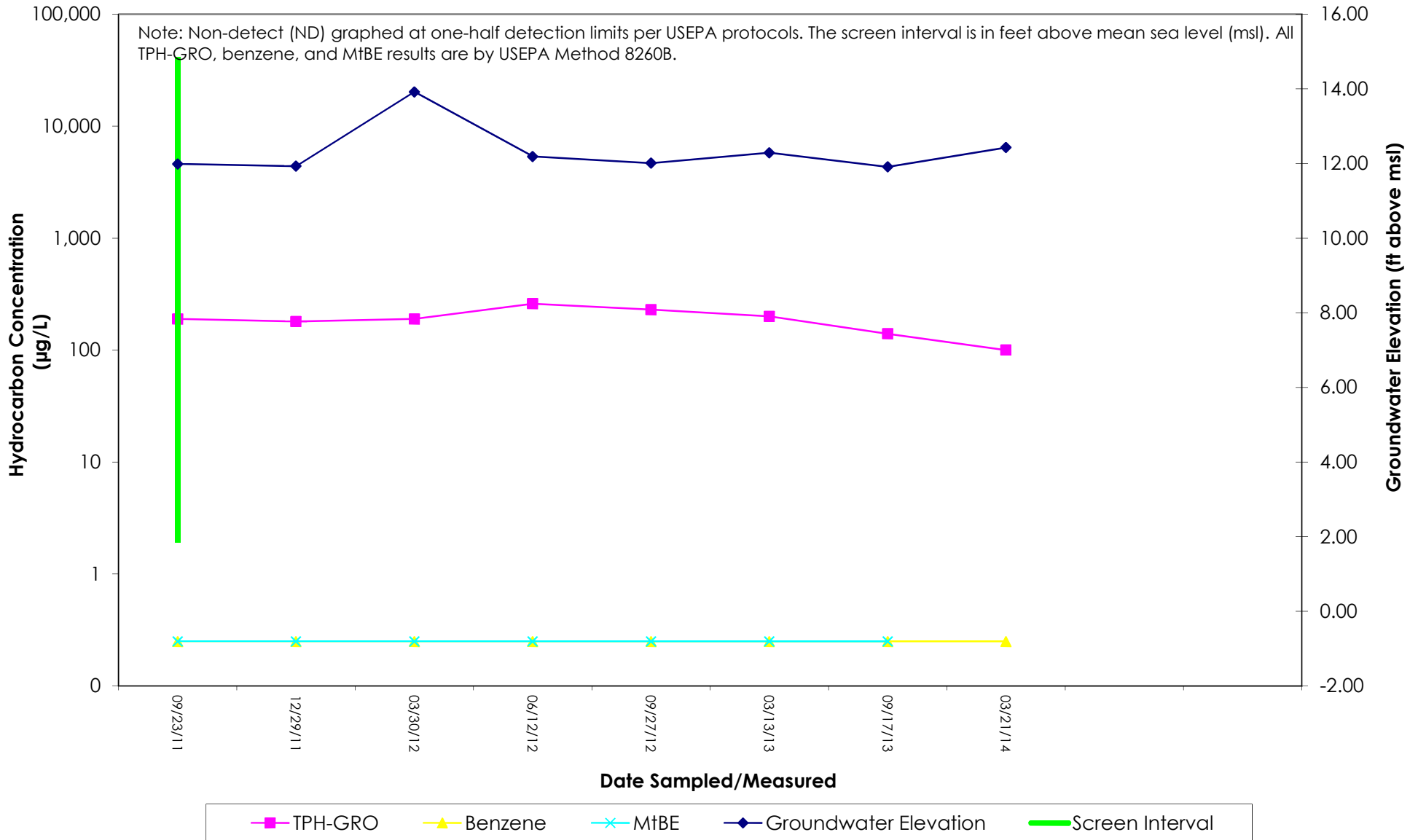
WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED,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

ATTACHMENT C
Hydrographs

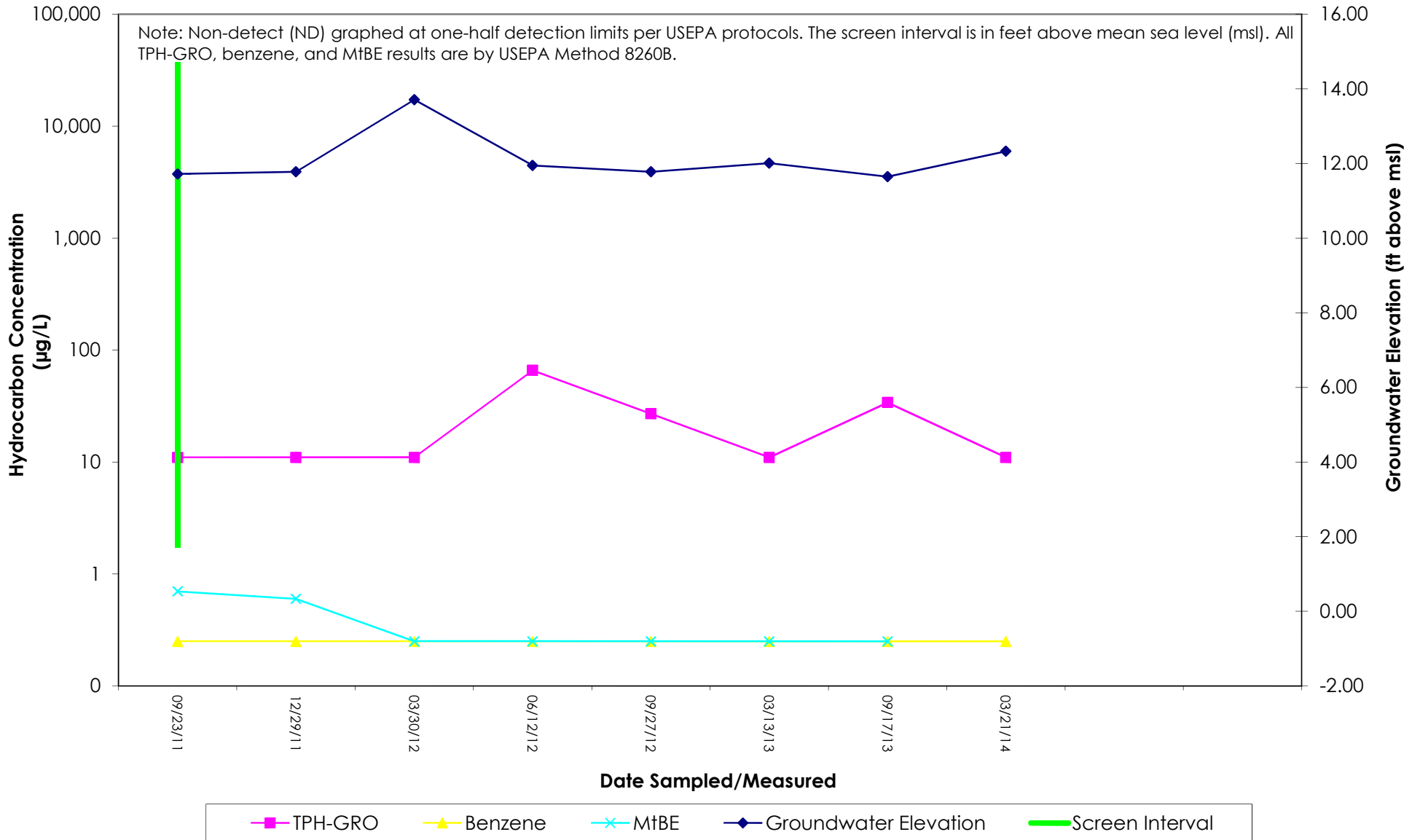
MW-2 TPH-GRO, Benzene, & MtBE Concentrations and Groundwater Elevations vs. Time
 Former Chevron-branded Service Station 91723
 9757 San Leandro Street
 Oakland, California



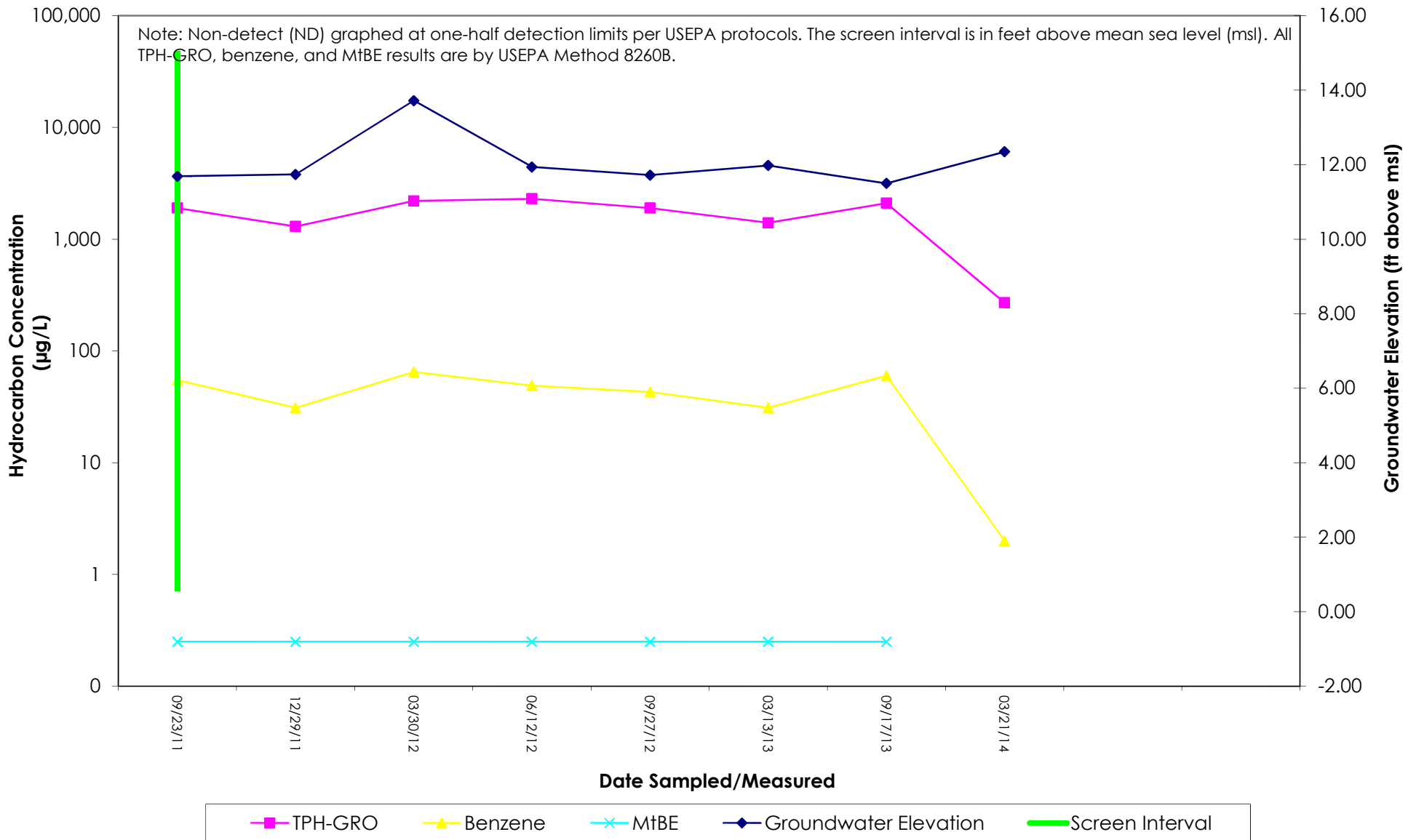
MW-5 TPH-GRO, Benzene, & MtBE Concentrations and Groundwater Elevations vs. Time
 Former Chevron-branded Service Station 91723
 9757 San Leandro Street
 Oakland, California



MW-6 TPH-GRO, Benzene, & MtBE Concentrations and Groundwater Elevations vs. Time
 Former Chevron-branded Service Station 91723
 9757 San Leandro Street
 Oakland, California



MW-8 TPH-GRO, Benzene, & MtBE Concentrations and Groundwater Elevations vs. Time
 Former Chevron-branded Service Station 91723
 9757 San Leandro Street
 Oakland, California



MW-9 TPH-GRO, Benzene, & MtBE Concentrations and Groundwater Elevations vs. Time

Former Chevron-branded Service Station 91723

9757 San Leandro Street

Oakland, California

