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By Alameda County Environmental Health 11:17 am, May 27, 2015

**First Quarter 2015
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 22, 2015



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 22, 2015

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 2015 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



May 22, 2015

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

Reference: First Quarter 2015 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 2015 Semi-Annual Groundwater Monitoring Report* for former Chevron-branded service station 91723, which was located at 9757 San Leandro Street, Oakland, Alameda County, California (Site - shown on **Figure 1**). This report is presented in three sections: Site Background, First Quarter 2015 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.

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.

Halogenated volatile organic compound (HVOC) analysis was added to the groundwater monitoring and sampling program in First Quarter 2015 to address Alameda County Environmental Health's (ACEH's) concern about the potential for HVOCs in Site groundwater.

FIRST QUARTER 2015 GROUNDWATER MONITORING AND SAMPLING PROGRAM

Gettler-Ryan Inc. (G-R) performed the First Quarter 2015 groundwater monitoring and sampling event on March 10, 2015. G-R's standard operating procedures (SOPs) and field data sheets are included in **Attachment A**. G-R gauged depth-to-groundwater (DTW) in five Site wells (MW-2,

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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 2015 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-5, MW-6, MW-8, and MW-9 are currently screened across the prevailing groundwater table, while the DTW measurement in well MW-2 was above the screen interval, and the screen interval is currently entirely submerged. Groundwater elevation data from Third Quarter 2011 to present are included in **Table 2**. A groundwater elevation contour map (based on First Quarter 2015 data) is shown on **Figure 2**. The direction of groundwater flow beneath the Site at the time of sampling was variable and toward well MW-2, at an approximate hydraulic gradient of 0.002 feet per foot (ft/ft) in both the west-southwest and southeast directions. The historical direction of groundwater flow has predominantly been toward the west, as shown by the historical groundwater flow direction rose diagram on **Figure 3**, however, directions of groundwater flow were not included for events where the groundwater flow direction varied.

Schedule of Laboratory Analysis

Groundwater samples were collected and analyzed for the presence of total petroleum hydrocarbons as gasoline range organics (TPH-GRO); benzene, toluene, ethylbenzene, and total xylenes (BTEX); and HVOCs using United States Environmental Protection Agency (US EPA) Method 8260B (SW-846).

Groundwater Analytical Results

During First Quarter 2015, 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** and **Table 3**. Only detected HVOCs are shown in **Table 3**. Historical monitored natural attenuation (MNA) data are presented in **Table 4**. A figure showing the latest groundwater TPH-GRO and BTEX 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 2015 groundwater analytical results follows:

- **TPH-GRO** was detected in three Site wells this quarter, at concentrations of 28 micrograms per liter ($\mu\text{g/L}$; well MW-6), 120 $\mu\text{g/L}$ (well MW-5), and 1,500 $\mu\text{g/L}$ (well MW-8), which are within historical limits for each respective well.
- **Benzene** was detected in one Site well this quarter, at a concentration of 36 $\mu\text{g/L}$ (well MW-8), which is within historical limits for this well.

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- **Toluene** was detected in one Site well this quarter, at a concentration of 1 µg/L (well MW-8), which is within historical limits for this well.
- **Ethylbenzene** was detected in one Site well this quarter, at a concentration of 5 µg/L (well MW-8), which is within historical limits for this well.
- **Total Xylenes** were detected in one Site well this quarter, at a concentration of 6 µg/L (well MW-8), which is within historical limits for this well.

A summary of the First Quarter 2015 detections reported above method detection limits (MDLs) from the HVOC analysis by US EPA Method 8260B follows:

- **1,1-Dichloroethane** was detected in well MW-9 at a concentration of 1 µg/L.
- **1,1-Dichloroethene (DCE)** was detected in well MW-9 at a concentration of 0.7 µg/L.
- **cis-1,2-DCE** was detected in well MW-9 at a concentration of 0.6 µg/L.

CONCLUSIONS AND RECOMMENDATIONS

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

- TPH-GRO concentrations 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.

The maximum concentration of TPH-GRO and the only detections of BTEX compounds 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 above the ESL in well MW-5, located near the former first-generation dispenser island. Due to TPH-GRO being reported below ESLs 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**.

HVOCs were added to the analytical program for First Quarter 2015, and all detected HVOC concentrations in well MW-9 were below their respective ESLs. HVOCs were not detected above MDLs in any other Site well. Based on these data, Stantec recommends discontinuing HVOC analyses in groundwater.

Current and historical groundwater quality data indicate that the dissolved-phase petroleum hydrocarbon plume at the Site is stable or decreasing in overall size and concentration. Site groundwater conditions satisfy low-threat UST case closure policy (LTCP) Groundwater-Specific Criteria Scenario 2 as follows:

- The contaminant plume that exceeds water quality objectives (WQOs) is less than 250 feet in length. Based on dissolved-phase benzene concentrations that exceed the ESL for groundwater that is a current or potential source of drinking water of 1 µg/L, a conservative estimate of the contaminant plume based on First Quarter 2015 groundwater data is approximately 70 feet or less in length. However, during Third Quarter 2014, the length of the TPH-GRO plume was estimated to be greater than the length of the benzene plume, at approximately 210 feet. Due to the large variance in

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plume length between Third Quarter 2014 and First Quarter 2015 (210 feet versus 70 feet), Stantec is conservatively assuming the plume is less than 250 feet in length and more than 100 feet 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 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 to be no longer present. 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. As requested by ACEH in correspondence dated May 29, 2014, a map and table showing all water supply well locations within a 0.25-mile radius of the Site were provided in the *Response to Technical Comments and Data Gap Work Plan Addendum*, dated August 15, 2014. 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. During First Quarter 2015, benzene was detected at a maximum concentration of 36 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, MtBE was not detected above the MDL of 0.5 µg/L in any Site well sampled.

Because groundwater conditions at the Site currently meet LTCP Groundwater-Specific Criteria, Stantec recommends reducing the groundwater monitoring and sampling frequency to annual during First Quarter until the Site meets all other LTCP media-specific criteria.

The *Site Conceptual Model and Data Gap Work Plan* was submitted to ACEH on March 31, 2014. Data gaps identified in the report included the status and condition of former Site wells 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. To address the need for a soil vapor quality evaluation, Stantec proposed resampling permanent on-Site soil vapor wells VP-1 through VP-5 and included a proposed scope of work.

ACEH provided technical comments on the *Site Conceptual Model and Data Gap Work Plan* in a letter dated May 29, 2014, and requested a Data Gap Work Plan Addendum. The *Response to Technical Comments and Data Gap Work Plan Addendum* was submitted on August 15, 2014. In addition to the scope of work for soil vapor investigation already proposed, Stantec proposed the advancement of three shallow soil borings (SB-24, SB-25, and SB-26) to evaluate petroleum hydrocarbons in soil near former fueling features. In an email dated October 1, 2014, ACEH responded to the *Response to Technical Comments and Data Gap Work Plan Addendum* and requested a meeting to discuss the assessment approach at the Site.

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In the meeting held on November 7, 2014, ACEH expressed their concerns regarding the assessment approach at the Site and requested a Revised Work Plan Addendum to address those concerns. In response, Stantec submitted the *Revised Data Gap Work Plan Addendum* on February 20, 2015. In that addendum, Stantec proposed additional work to address ACEH's concerns regarding perceived data gaps impeding Site closure. In addition to the scope of work already proposed in the *Site Conceptual Model and Data Gap Work Plan* and *Response to Technical Comments and Data Gap Work Plan Addendum*, Stantec proposed advancing soil boring SB-24 (located nearest the former waste oil UST) deeper than previously proposed in order to collect a groundwater sample from the boring. Wear metals and HVOCs were added to the list of analytes for samples collected from this boring. Stantec also proposed the advancement of eight additional on-Site soil borings (SB-27 through SB-34), inclusion of HVOC analysis in the next routine groundwater monitoring and sampling event (implemented during First Quarter 2015), and completion of a utility survey that evaluates potential preferential pathways. The proposed scope of work was conditionally approved by ACEH in a letter dated April 14, 2015.

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 First Quarter 2015 Semi-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 Bella Egan for _____
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Attachments:

Table 1 – Well Details / Screen Interval Assessment – First Quarter 2015

Table 2 – Groundwater Monitoring Data and Analytical Results

Table 3 – Groundwater Analytical Results – Halogenated Volatile Organic Compounds

Table 4 – Monitored Natural Attenuation Parameters

Figure 1 – Site Location Map

Figure 2 – Groundwater Elevation Contour Map – First Quarter 2015

Figure 3 – Groundwater Flow Direction Rose Diagram – Historical

Figure 4 – Site Plan Showing Groundwater Concentrations – First Quarter 2015

Figure 5 – TPH-GRO Isoconcentration Map – First Quarter 2015

Figure 6 – Benzene Isoconcentration Map – First Quarter 2015

Attachment A – Gettler-Ryan Inc. Field Data Sheets and Standard Operating Procedures –
First Quarter 2015

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

Attachment C – Hydrographs

cc:

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

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TABLES

Table 1
Well Details / Screen Interval Assessment
First Quarter 2015

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 below TOC)	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	21.52	9.30	12-22	Depth-to-groundwater above screen interval.
MW-5	05/18/88	Monitoring	2	21.84	20.00	17.63	9.36	7-20	Depth-to-groundwater within screen interval.
MW-6	05/18/88	Monitoring	2	21.71	20.00	19.55	9.47	7-20	Depth-to-groundwater within screen interval.
MW-8	05/19/88	Monitoring	2	21.84	20.00	18.18	9.61	7-20	Depth-to-groundwater within screen interval.
MW-9	08/04/89	Monitoring	4	20.55	20.00	20.21	8.10	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 10, 2015.

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

WELL ID/ DATE	TOC (ft.)	DTW (ft.)	GWE (msl)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
Groundwater ESL				100	1	40	30	20	5
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	--
09/11/14	21.31	9.93	11.38	99	<0.5	<0.5	<0.5	<0.5	--
03/10/15	21.31	9.30	12.01	<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	--
09/11/14	21.84	9.94	11.90	150	<0.5	<0.5	<0.5	<0.5	--
03/10/15	21.84	9.36	12.48	120	<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	--
09/11/14	21.71	10.07	11.64	52	<0.5	<0.5	<0.5	<0.5	--
03/10/15	21.71	9.47	12.24	28	<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

WELL ID/ DATE	TOC (ft.)	DTW (ft.)	GWE (msl)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
Groundwater ESL				100	1	40	30	20	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
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	--
09/11/14	21.84	10.22	11.62	3,000	44	2	13	8	--
03/10/15	21.84	9.61	12.23	1,500	36	1	5	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	--
09/11/14	20.55	9.43	11.12	<22	<0.5	<0.5	<0.5	<0.5	--
03/10/15	20.55	8.10	12.45	<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	--
09/11/14	--	--	--	<22	<0.5	<0.5	<0.5	<0.5	--
03/10/15	--	--	--	<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 Gettler-Ryan 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

ESL = California Regional Water Quality Control Board - San Francisco Bay Region Environmental Screening Level for groundwater that is a current or potential source of drinking water

Table 3
Groundwater Analytical Results - Halogenated Volatile Organic Compounds
 Former Chevron-Branded Service Station 91723
 9757 San Leandro Street, Oakland, California

WELL ID/ DATE	1,1-DCA (µg/L)	1,1-DCE (µg/L)	cis -1,2-DCE (µg/L)
Groundwater ESL	5	6	6
MW-2			
03/10/15	<0.5	<0.5	<0.5
MW-5			
03/10/15	<0.5	<0.5	<0.5
MW-6			
03/10/15	<0.5	<0.5	<0.5
MW-8			
03/10/15	<0.5	<0.5	<0.5
MW-9			
03/10/15	1	0.7	0.6

EXPLANATIONS:

Current groundwater monitoring data provided by Gettler-Ryan Inc.
 Current laboratory analytical results provided by Eurofins Lancaster Laboratories.

1,1-DCA = 1,1-Dichloroethane
 1,1-DCE = 1,1-Dichloroethene
 cis -1,2-DCE = cis -1,2-Dichloroethene
 (µg/L) = Micrograms per liter

ESL = California Regional Water Quality Control Board - San Francisco Bay Region
 Environmental Screening Level for groundwater that is a current or potential
 source of drinking water

Table 4
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
09/11/14	490	<250	10,400	487,000	--	4,500	<270 ¹	0.26	125
03/10/15	--	--	--	--	--	--	--	1.5	156
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
09/11/14	99	<250	34,900	375,000	--	18,200	<270 ¹	0.11	81
03/10/15	--	--	--	--	--	--	--	1.4	143
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
09/11/14	320	<250	6,000	447,000	--	10,400	<54	0.21	109
03/10/15	--	--	--	--	--	--	--	1.6	179

Table 4
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-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
09/11/14	2,900	<250	3,700	417,000	--	59,500	<540 ¹	0.04	28
03/10/15	--	--	--	--	--	--	--	1.1	-76
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
09/11/14	<3.0	2,700	35,300	383,000	--	<10	<54	0.35	134
03/10/15	--	--	--	--	--	--	--	1.7	175

Table 4
Monitored Natural Attenuation Parameters
Former Chevron-Branded Service Station 91723
9757 San Leandro Street, Oakland, California

EXPLANATIONS:

Current groundwater monitoring data provided by Gettler-Ryan Inc. Current laboratory analytical results provided by Eurofins Lancaster Laboratories.

($\mu\text{g/L}$) = Micrograms per liter

($\mu\text{g/L as CaCO}_3$) = 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 MINUTE 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

SITE LOCATION MAP

FIGURE:

1

JOB NUMBER:

211602332

DRAWN BY:

JRO

CHECKED BY:

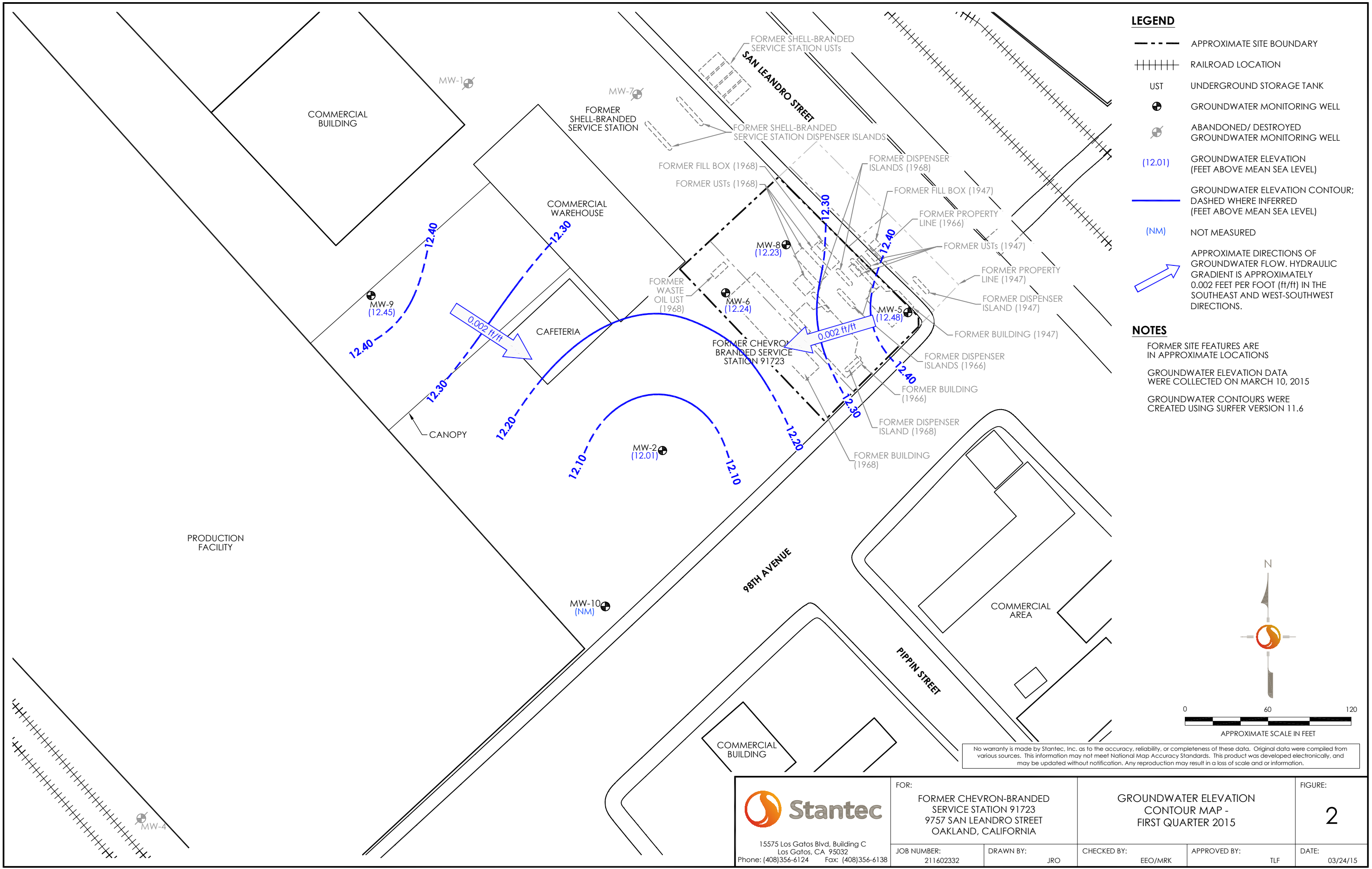
EEO/MRK

APPROVED BY:

TLF

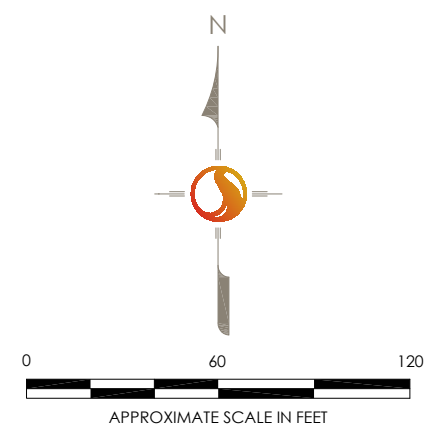
DATE:

03/24/15




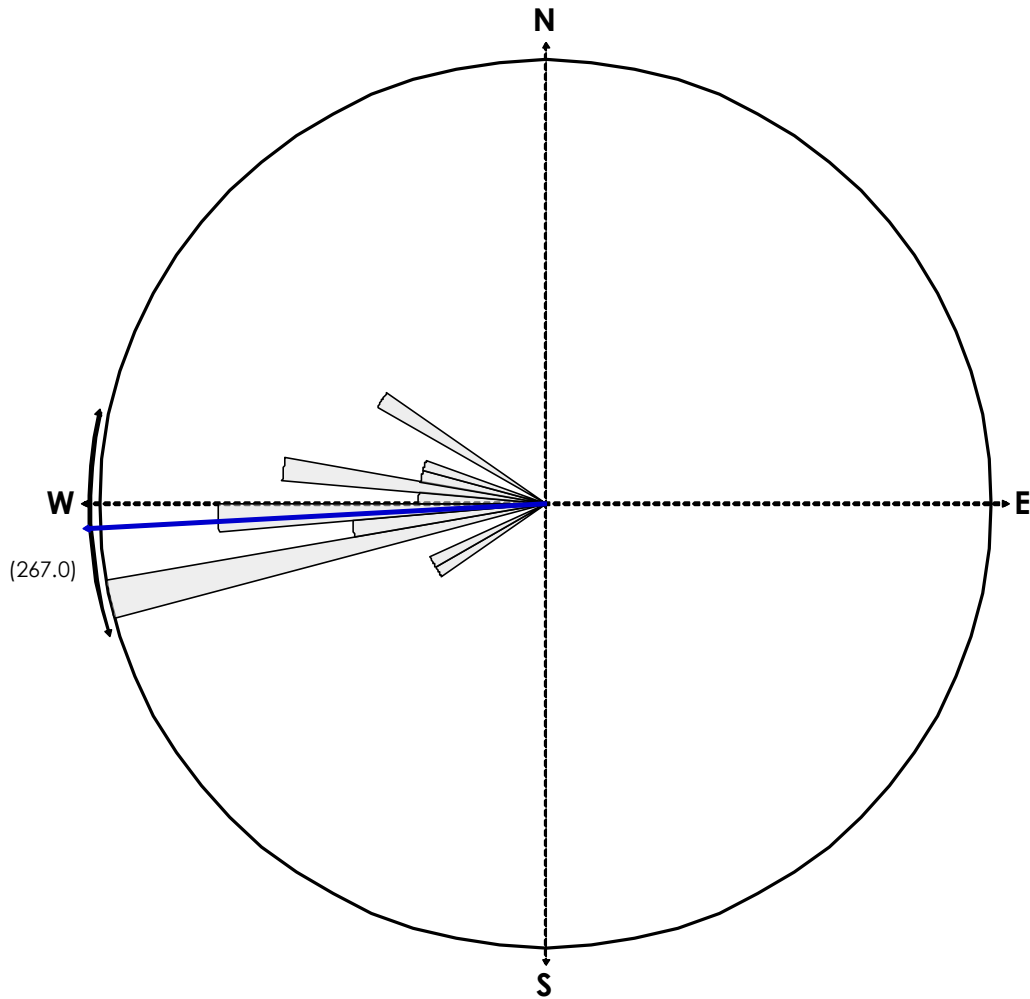
- LEGEND**
- APPROXIMATE SITE BOUNDARY
 - ++++ RAILROAD LOCATION
 - UST UNDERGROUND STORAGE TANK
 - ⊕ GROUNDWATER MONITORING WELL
 - ⊖ ABANDONED/ DESTROYED GROUNDWATER MONITORING WELL
 - (12.01) GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
 - GROUNDWATER ELEVATION CONTOUR; DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL)
 - (NM) NOT MEASURED
 - ↗ APPROXIMATE DIRECTIONS OF GROUNDWATER FLOW. HYDRAULIC GRADIENT IS APPROXIMATELY 0.002 FEET PER FOOT (ft/ft) IN THE SOUTHEAST AND WEST-SOUTHWEST DIRECTIONS.

- NOTES**
- FORMER SITE FEATURES ARE IN APPROXIMATE LOCATIONS
 - GROUNDWATER ELEVATION DATA WERE COLLECTED ON MARCH 10, 2015
 - GROUNDWATER CONTOURS WERE CREATED USING SURFER VERSION 11.6



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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 91723 9757 SAN LEANDRO STREET OAKLAND, CALIFORNIA	GROUNDWATER ELEVATION CONTOUR MAP - FIRST QUARTER 2015		FIGURE: 2
	JOB NUMBER: 211602332	DRAWN BY: JRO	CHECKED BY: EEO/MRK	APPROVED BY: TLF

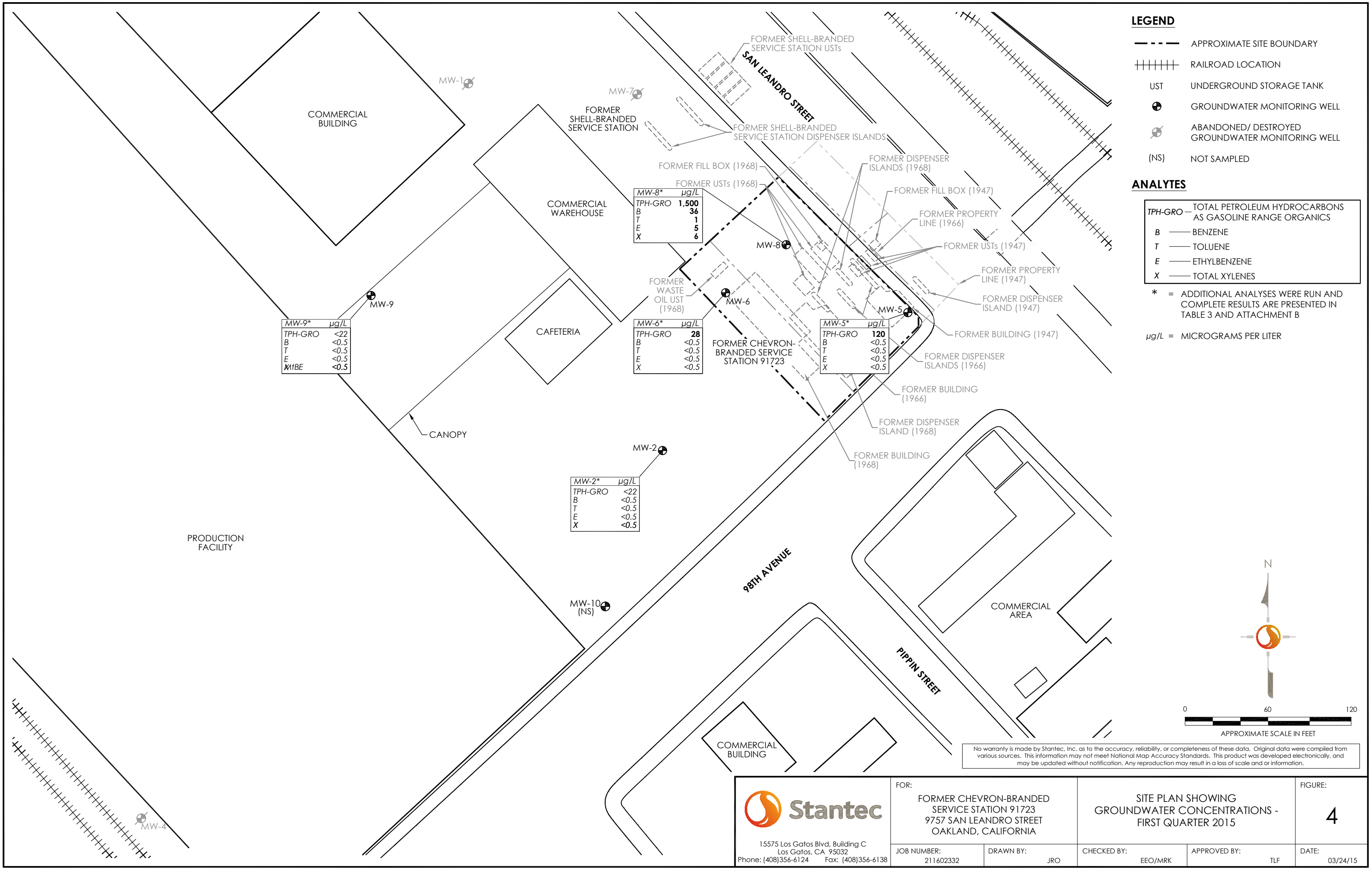


EQUAL AREA PLOT

Number of Points 30
 Class Size 5
 Vector Mean 267.00
 Vector Magnitude 29.05
 Consistency Ratio 0.97

NOTE: ROSE DIAGRAM IS BASED ON THE DIRECTION OF GROUNDWATER FLOW BEGINNING THIRD QUARTER 1988. DIRECTIONS OF GROUNDWATER FLOW WERE NOT INCLUDED FOR EVENTS WHERE THE GROUNDWATER FLOW DIRECTION VARIED.

 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 FLOW DIRECTION ROSE DIAGRAM - HISTORICAL		FIGURE: 3
	JOB NUMBER: 211602332	DRAWN BY: JRO	CHECKED BY: EEO/MRK	APPROVED BY: TLF	DATE: 03/24/15



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

* = ADDITIONAL ANALYSES WERE RUN AND COMPLETE RESULTS ARE PRESENTED IN TABLE 3 AND ATTACHMENT B

µg/L = MICROGRAMS PER LITER

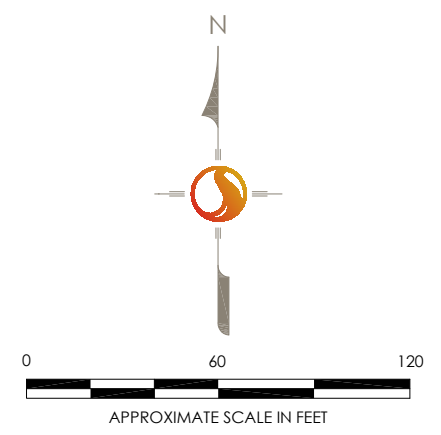
MW-9*	µg/L
TPH-GRO	<22
B	<0.5
T	<0.5
E	<0.5
X	<0.5

MW-8*	µg/L
TPH-GRO	1,500
B	36
T	1
E	5
X	6

MW-6*	µg/L
TPH-GRO	28
B	<0.5
T	<0.5
E	<0.5
X	<0.5

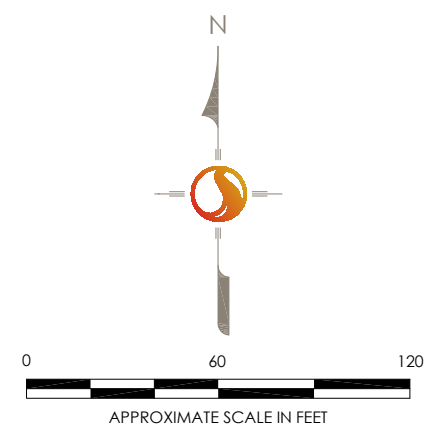
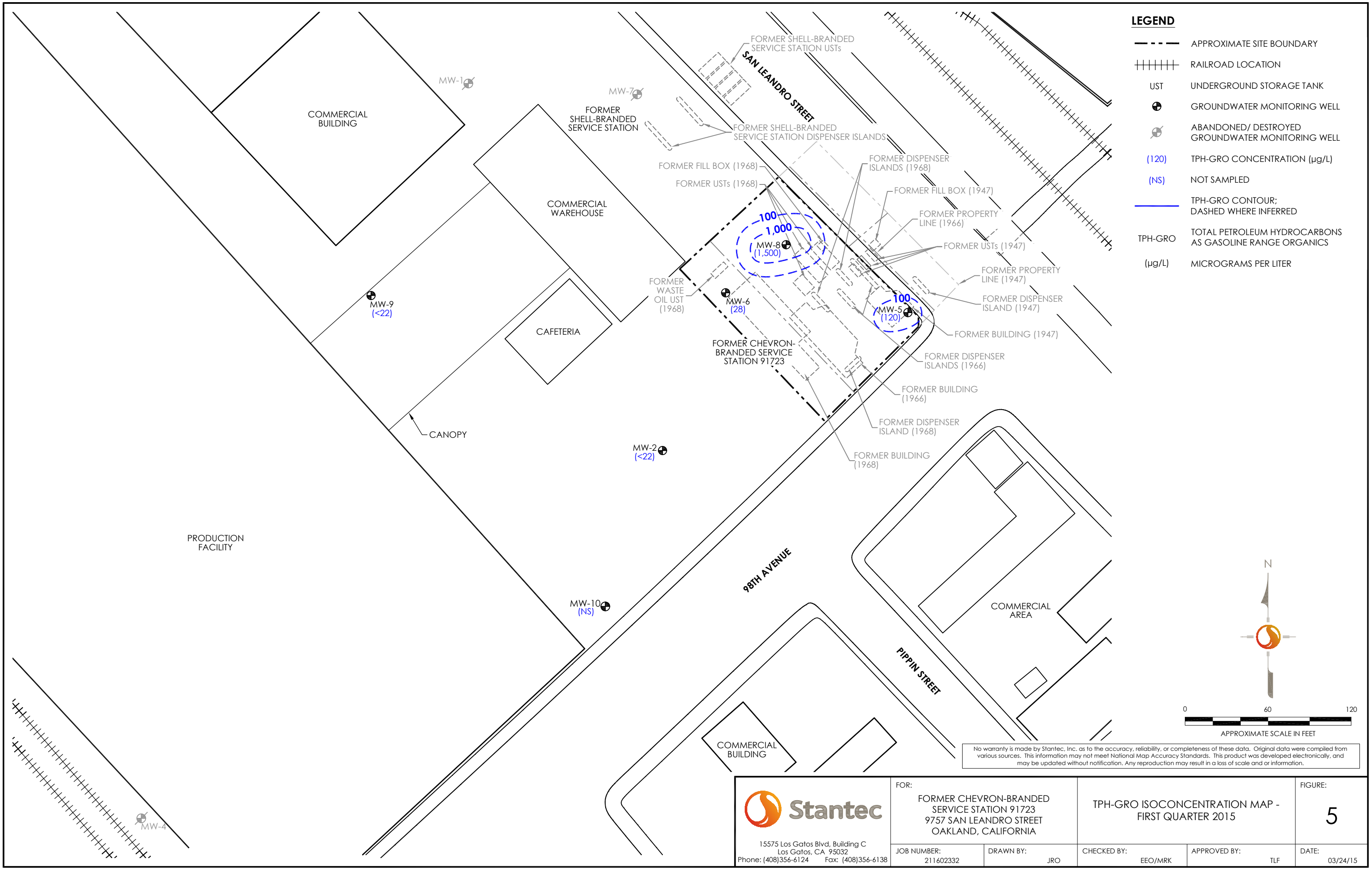
MW-5*	µg/L
TPH-GRO	120
B	<0.5
T	<0.5
E	<0.5
X	<0.5

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



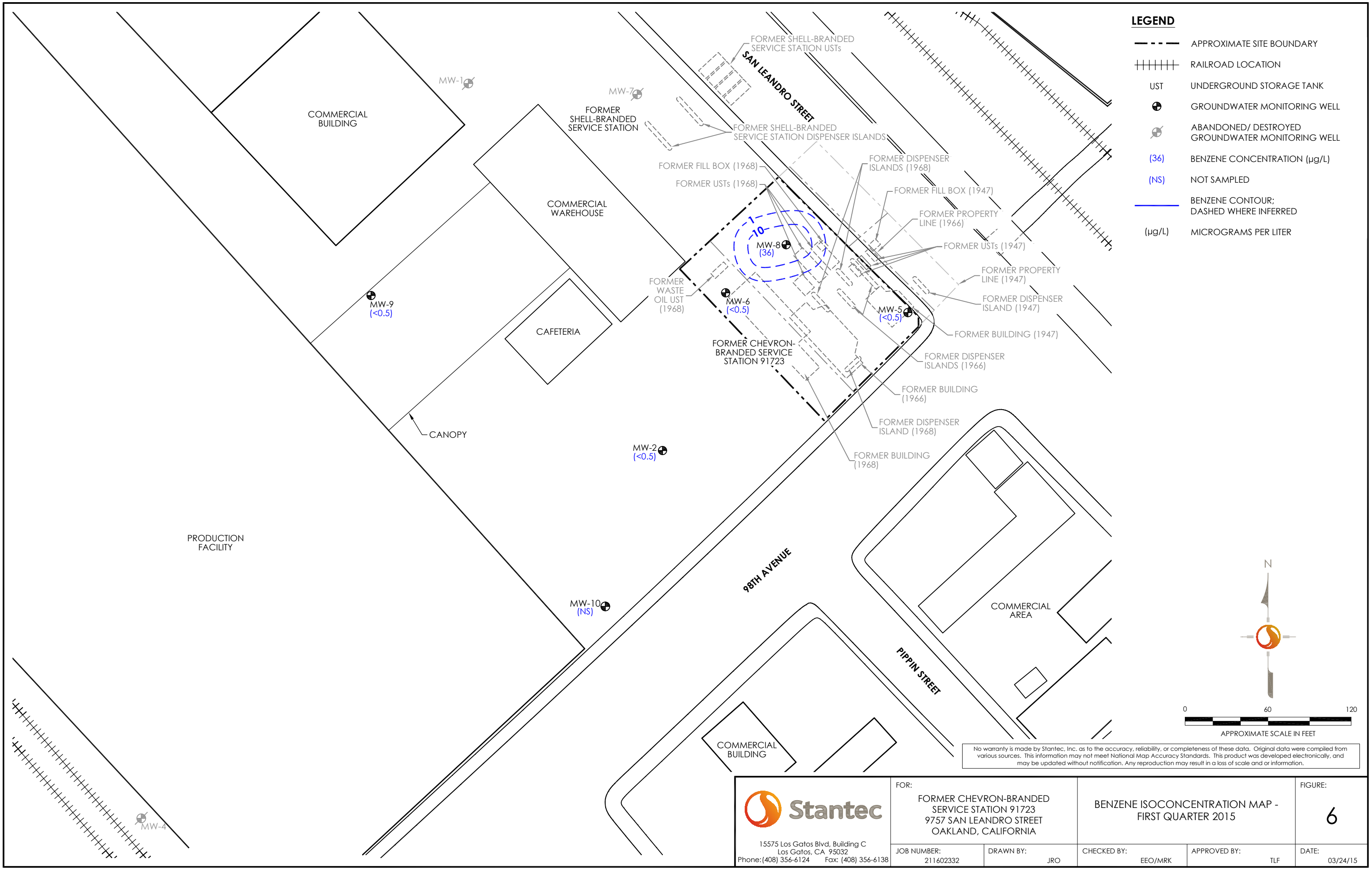
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 15575 Los Gatos Blvd, Building C Los Gatos, CA 95032 Phone: (408)356-6124 Fax: (408)356-6138	FOR: FORMER CHEVRON-BRANDED SERVICE STATION 91723 9757 SAN LEANDRO STREET OAKLAND, CALIFORNIA	SITE PLAN SHOWING GROUNDWATER CONCENTRATIONS - FIRST QUARTER 2015			FIGURE: 4
	JOB NUMBER: 211602332	DRAWN BY: JRO	CHECKED BY: EEO/MRK	APPROVED BY: TLF	DATE: 03/24/15



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<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 91723 9757 SAN LEANDRO STREET OAKLAND, CALIFORNIA		FIGURE:	
	JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
	211602332	JRO	EEO/MRK	TLF	03/24/15



<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 91723 9757 SAN LEANDRO STREET OAKLAND, CALIFORNIA		BENZENE ISOCONCENTRATION MAP - FIRST QUARTER 2015		FIGURE:			
	JOB NUMBER:	211602332	DRAWN BY:	JRO	CHECKED BY:	EEO/MRK	APPROVED BY:	TLF	DATE:

ATTACHMENT A

**Gettler-Ryan Inc. Field Data Sheets and Standard
Operating Procedures – First Quarter 2015**



TRANSMITTAL

Revised March 27, 2015
March 20, 2015
G-R # 385899

To: Mr. Travis Flora
STANTEC
15575 Los Gatos Blvd., Building C
Los Gatos, California 95032

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

RE: **Former Chevron Station**
SS# 9-1723
9757 San Leandro Street.
Oakland, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Report First Semi Annual Event of March 10, 2015

COMMENTS:

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

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

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

WELL CONDITION STATUS SHEET

Client/
Facility #: **Chevron #9-1723**

Site Address: **9757 San Leandro Street**

City: **Oakland, CA**

Job #: **386496**

Event Date: **3.10.15**

Sampler: **FT**

WELL ID	Vault Frame Condition	Gasket/O-Ring (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Bolt Flanges B=Broken S=Stripped R=Retaped	Apron Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) Inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK ⓪ N	REPLACE CAP ⓪ N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Y/N
MW-2	OK							Y	Y	MORRISON/12"1/2	
MW-5	OK	NA			OK					CHRISTY Box	
MW-6	OK	NA	NA	NA	B	OK	OK			CHRISTY Box w/⓪ PLATE COVER	Y
MW-8	OK									EMCO 12"1/2	
MW-9	OK	OK	M	OK	OK					12" BOX POSSIBLY AN EMCO	

Comments MW-9 WELL BOX IS POSSIBLY AN EMCO, HAS A METAL PLATE COVER. NO BOLTS BUT WELL BOX HAS FLANGES.

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 #9-1723 Job Number: 386496
 Site Address: 9757 San Leandro Street Event Date: 3.10.15 (inclusive)
 City: Oakland, CA Sampler: FT

Well ID: MW-2 Date Monitored: 3.10.15
 Well Diameter: 2 1/4 in.
 Total Depth: 21.52 ft.
 Depth to Water: 9.30 ft. Check if water column is less than 0.50 ft.
12.22 xVF .17 = 2.07 x3 case volume = Estimated Purge Volume: 6.0 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.74

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): 1130 Weather Conditions: FOL
 Sample Time/Date: 1152 / 3.10.15 Water Color: LT. BRN. Odor: Y / N
 Approx. Flow Rate: / gpm. Sediment Description: S. SILTY
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 9.34

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)
<u>1134</u>	<u>2.0</u>	<u>7.83</u>	<u>892</u>	<u>19.9</u>	_____	_____
<u>1138</u>	<u>4.0</u>	<u>7.80</u>	<u>899</u>	<u>20.3</u>	_____	_____
<u>1142</u>	<u>6.0</u>	<u>7.77</u>	<u>905</u>	<u>20.8</u>	_____	_____
					POST: <u>1.5</u>	POST: <u>106</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-GRO GC/MS/BTEX(8260B)</u>
	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>HVOC's(8260)</u>
	x voa vial	<u>YES</u>	<u>NP</u>	<u>LANCASTER</u>	<u>NITRATE/SULFATE(EPA 300.0)</u>
	x 250ml poly	<u>YES</u>	<u>NP</u>	<u>LANCASTER</u>	<u>ALKALINITY TO pH 4.5 & 8.3(SM20 2320 B)</u>
	x 250ml amber	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>FERROUS IRON(SM20 3500 Fe B)</u>
	x voa vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>METHANE(8015B)</u>
	x 250ml clear glass	<u>YES</u>	<u>NaOH & ZnAc</u>	<u>LANCASTER</u>	<u>SULFIDE(SM20 4500 S2D)</u>

COMMENTS: Monitored 12" oil

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: Add/Replaced Plug: (2")



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-1723 Job Number: 386496
 Site Address: 9757 San Leandro Street Event Date: 3.10.15 (inclusive)
 City: Oakland, CA Sampler: FT

Well ID: MW-5 Date Monitored: 3.10.15
 Well Diameter: Ø 14 in.
 Total Depth: 17.63 ft.
 Depth to Water: 9.36 ft. Check if water column is less than 0.50 ft.
8.27 xVF .17 = 1.40 x3 case volume = Estimated Purge Volume: 4.0 gal.

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

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.01

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): 1210 Weather Conditions: Fog
 Sample Time/Date: 1229 / 3.10.15 Water Color: Clear Odor: Y 10
 Approx. Flow Rate: / gpm. Sediment Description: Silty
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 9.38

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (US) / mS (µmhos/cm)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)
<u>1213</u>	<u>1.5</u>	<u>7.69</u>	<u>1121</u>	<u>19.0</u>	_____	_____
<u>1216</u>	<u>3.0</u>	<u>7.66</u>	<u>1128</u>	<u>19.4</u>	_____	_____
<u>1219</u>	<u>4.0</u>	<u>7.63</u>	<u>1132</u>	<u>19.9</u>	_____	_____
_____	_____	_____	_____	_____	POST: <u>1.4</u>	POST: <u>143</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-5</u>	<u>3</u> x voa vial	YES	HCL	LANCASTER	TPH-GRO GC/MS/BTEX(8260B)
	<u>3</u> x voa vial	YES	HCL	LANCASTER	HVOC's(8260)
	x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	x 250ml poly	YES	NP	LANCASTER	ALKALINITY TO pH 4.5 & 8.3(SM20 2320 B)
	x 250ml amber	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe B)
	x voa vial	YES	HCL	LANCASTER	METHANE(8015B)
	x 250ml clear glass	YES	NaOH & ZnAc	LANCASTER	SULFIDE(SM20 4500 S2D)

COMMENTS: CHRISTY BOY (OK)

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: Add/Replaced Plug: (2")



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-1723 Job Number: 386496
 Site Address: 9757 San Leandro Street Event Date: 3.10.15 (inclusive)
 City: Oakland, CA Sampler: FT

Well ID: MW-6 Date Monitored: 3.10.15
 Well Diameter: 2 1/4 in.
 Total Depth: 19.55 ft.
 Depth to Water: 9.47 ft. Check if water column is less than 0.50 ft.
10.08 xVF .17 = 1.71 x3 case volume = Estimated Purge Volume: 5.0 gal.

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

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.48

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): 1055 Weather Conditions: Fog / Sunny
 Sample Time/Date: 1115 / 3.10.15 Water Color: LT. Bwn. Odor: Y / 0
 Approx. Flow Rate: ✓ gpm. Sediment Description: S. Silty
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 9.99

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (US) mS (µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1058</u>	<u>1.5</u>	<u>7.79</u>	<u>915</u>	<u>19.0</u>		
<u>1101</u>	<u>3.0</u>	<u>7.76</u>	<u>921</u>	<u>19.7</u>		
<u>1105</u>	<u>5.0</u>	<u>7.75</u>	<u>927</u>	<u>19.9</u>		
					<u>POST: 1.6</u>	<u>POST: 179</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-6</u>	<u>3</u> x voa vial	YES	HCL	LANCASTER	TPH-GRO GC/MS/BTEX(8260B)
	<u>3</u> x voa vial	YES	HCL	LANCASTER	HVOC's(8260)
	x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	x 250ml poly	YES	NP	LANCASTER	ALKALINITY TO pH 4.5 & 8.3(SM20 2320 B)
	x 250ml amber	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe B)
	x voa vial	YES	HCL	LANCASTER	METHANE(8015B)
	x 250ml clear glass	YES	NaOH & ZnAc	LANCASTER	SULFIDE(SM20 4500 S2D)

COMMENTS: CRISTY BOX & COVER (DAMAGED BOX) (SEE PHOTO)

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: Add/Replaced Plug: (2")



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-1723 Job Number: 386496
 Site Address: 9757 San Leandro Street Event Date: 3.10.15 (inclusive)
 City: Oakland, CA Sampler: FT

Well ID: MW-8 Date Monitored: 3.10.15
 Well Diameter: 2 1/4 in.
 Total Depth: 18.18 ft.
 Depth to Water: 9.61 ft. Check if water column is less than 0.50 ft.
8.57 xVF .17 = 1.45 x3 case volume = Estimated Purge Volume: 4.0 gal.

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

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.32

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): 1245 Weather Conditions: Fair
 Sample Time/Date: 1305 13.10.15 Water Color: Gray Odor: Oil N Strong
 Approx. Flow Rate: ✓ gpm. Sediment Description: Silty
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 9.65

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (US) mS (µmhos/cm)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)
<u>1248</u>	<u>1.5</u>	<u>7.58</u>	<u>1512</u>	<u>19.2</u>		
<u>1251</u>	<u>3.0</u>	<u>7.55</u>	<u>1519</u>	<u>19.7</u>		
<u>1254</u>	<u>4.0</u>	<u>7.53</u>	<u>1524</u>	<u>20.1</u>		
					POST: <u>1.1</u>	POST: <u>-76</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-8</u>	<u>3</u> x voa vial	YES	HCL	LANCASTER	TPH-GRO GC/MS/BTEX(8260B)
	<u>3</u> x voa vial	YES	HCL	LANCASTER	HVOC's(8260)
	x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	x 250ml poly	YES	NP	LANCASTER	ALKALINITY TO pH 4.5 & 8.3(SM20 2320 B)
	x 250ml amber	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe B)
	x voa vial	YES	HCL	LANCASTER	METHANE(8015B)
	x 250ml clear glass	YES	NaOH & ZnAc	LANCASTER	SULFIDE(SM20 4500 S2D)

COMMENTS: Enclosed

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: Add/Replaced Plug: (2")



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-1723 Job Number: 386496
 Site Address: 9757 San Leandro Street Event Date: 3.10.15 (inclusive)
 City: Oakland, CA Sampler: FT

Well ID: MW-9 Date Monitored: 3.10.15
 Well Diameter: 8 1/4 in.
 Total Depth: 20.21 ft.
 Depth to Water: 8.10 ft. Check if water column is less than 0.50 ft.
12.11 xVF .66 = 7.99 x3 case volume = Estimated Purge Volume: 24.0 gal.

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

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.52

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): 1015 Weather Conditions: Fair
 Sample Time/Date: 1040 13.10.15 Water Color: CLEAN Odor: Y / N
 Approx. Flow Rate: 2.0 gpm. Sediment Description: NONE
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 8.20

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)
<u>1019</u>	<u>8.0</u>	<u>7.71</u>	<u>931</u>	<u>19.1</u>		
<u>1023</u>	<u>16.0</u>	<u>7.68</u>	<u>940</u>	<u>19.8</u>		
<u>1027</u>	<u>24.0</u>	<u>7.64</u>	<u>949</u>	<u>20.2</u>		
					POST: <u>1.7</u>	POST: <u>175</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-9	3 x voa vial	YES	HCL	LANCASTER	TPH-GRO GC/MS/BTEX(8260B)
	3 x voa vial	YES	HCL	LANCASTER	HVOC's(8260)
	x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	x 250ml poly	YES	NP	LANCASTER	ALKALINITY TO pH 4.5 & 8.3(SM20 2320 B)
	x 250ml amber	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe B)
	x voa vial	YES	HCL	LANCASTER	METHANE(8015B)
	x 250ml clear glass	YES	NaOH & ZnAc	LANCASTER	SULFIDE(SM20 4500 S2D)

COMMENTS: 12" BOX POSSIBLY AN EMER. HAS A METAL PLATE COVER. NO BOLTS BUT WELL BOX HAS FLANGES.

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: Add/Replaced Plug: (4")

Chevron California Region Analysis Request/Chain of Custody



Lancaster Laboratories

For Eurofins Lancaster Laboratories use only

Acct. # _____ Group # _____ Sample # _____

Instructions on reverse side correspond with circled numbers.

031015-04

1 Client Information				4 Matrix				5 Analyses Requested										6 Remarks								
Facility: SS19-1723-OML G-R#388496 Global ID#T0600101789 Site Address: 9757 SAN LEANDRO STREET, OAKLAND, CA Chevron Ref: STANTECTF Lead Consultant: Flora Consultant/Office: Grinc-Ryan, Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568 Consultant Project Mgr.: Deanna E. Harding, deanna@grinc.com Consultant Phone #: (925) 551-7444 x180 Sampler: FRANK TENNINO				Sediment <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/> Ground <input checked="" type="checkbox"/> Surface <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/>				Total Number of Containers: _____ BTEX: 8021 <input type="checkbox"/> 8260 <input checked="" type="checkbox"/> B TPH-GRO: 8015 <input type="checkbox"/> 8260 <input checked="" type="checkbox"/> B TPH-DRO 8015 without Silica Gel Cleanup <input type="checkbox"/> TPH-DRO 8015 with Silica Gel Cleanup <input type="checkbox"/> 8260 Full Scan <input type="checkbox"/> Oxygenates _____ Method _____ Total Lead _____ Method _____ Dissolved Lead _____ Method _____ HVDC's (8260B)										SCR #: _____ <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								
2 Sample Identification		Soil Depth	3 Collected		Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX	8021	8260	TPH-GRO	8015	8260	TPH-DRO 8015 without Silica Gel Cleanup	TPH-DRO 8015 with Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead	Method	Dissolved Lead	Method	9	
QA			3.10.15							2	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
MW-2				1152	X					6	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
MW-5				1229	X					6	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
MW-6				1115	X					6	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
MW-8				1305	X					6	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
MW-9				1040	X					6	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
7 Turnaround Time Requested (TAT) (please circle)				Relinquished by: _____ Date: 3.10.15 Time: 1415				Received by: <i>a. Salpe</i> Date: 16 MAR 15 Time: 1415								9										
Standard 5 day 4 day 72 hour 48 hour 24 hour				EDF/EDD				Relinquished by Commercial Carrier: _____				Received by: _____														
8 Data Package (circle if required)				EDD (circle if required)				UPS _____ FedEx _____ Other _____ Temperature Upon Receipt _____ °C				Custody Seals Intact? Yes No														
Type I - Full				EDFFLAT (default)																						
Type VI (Raw Data)				Other: _____																						

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:

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

March 23, 2015

Project: 91723

Submittal Date: 03/11/2015
Group Number: 1544462
PO Number: 0015167993
Release Number: CMACLEOD

State of Sample Origin: CA

<u>Client Sample Description</u>	<u>Lancaster Labs (LL) #</u>
QA-T-150310 NA Water	7800115
MW-2-W-150310 Grab Groundwater	7800116
MW-5-W-150310 Grab Groundwater	7800117
MW-6-W-150310 Grab Groundwater	7800118
MW-8-W-150310 Grab Groundwater	7800119
MW-9-W-150310 Grab Groundwater	7800120

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	Gettler-Ryan Inc.	Attn: Gettler Ryan
ELECTRONIC COPY TO	Stantec	Attn: Laura Viesselman
ELECTRONIC COPY TO	Stantec International	Attn: Travis Flora
ELECTRONIC COPY TO	Stantec	Attn: Erin O'Malley
ELECTRONIC COPY TO	Stantec	Attn: Marisa Kaffenberger

Respectfully Submitted,



Amek Carter
Specialist

(717) 556-7252

Sample Description: QA-T-150310 NA Water
 Facility# 91723 Job# 386496 GRD
 9757 San Leandro-Oakland T0600101789

LL Sample # WW 7800115
 LL Group # 1544462
 Account # 10906

Project Name: 91723

Collected: 03/10/2015

Chevron

Submitted: 03/11/2015 10:00

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Reported: 03/23/2015 14:20

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	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

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	F150781AA	03/19/2015 12:24	Amanda K Richards	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F150781AA	03/19/2015 12:24	Amanda K Richards	1

Sample Description: MW-2-W-150310 Grab Groundwater
Facility# 91723 Job# 386496 GRD
9757 San Leandro-Oakland T0600101789

LL Sample # WW 7800116
LL Group # 1544462
Account # 10906

Project Name: 91723

Collected: 03/10/2015 11:52 by FT

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 03/11/2015 10:00

Reported: 03/23/2015 14:20

SLO02

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	C6-C12-TPH-GRO	n.a.	N.D.	22	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	Freon 113	76-13-1	N.D.	2	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1

General 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
---------	---------------	--------	--------	--------	------------------------	---------	-----------------

Sample Description: MW-2-W-150310 Grab Groundwater
 Facility# 91723 Job# 386496 GRD
 9757 San Leandro-Oakland T0600101789

LL Sample # WW 7800116
 LL Group # 1544462
 Account # 10906

Project Name: 91723

Collected: 03/10/2015 11:52 by FT

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 03/11/2015 10:00

Reported: 03/23/2015 14:20

SLO02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	VOCs- 5ml Water by 8260B	SW-846 8260B	1	W150801AA	03/21/2015 12:33	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W150801AA	03/21/2015 12:33	Linda C Pape	1

Sample Description: MW-5-W-150310 Grab Groundwater
Facility# 91723 Job# 386496 GRD
9757 San Leandro-Oakland T0600101789

LL Sample # WW 7800117
LL Group # 1544462
Account # 10906

Project Name: 91723

Collected: 03/10/2015 12:29 by FT

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 03/11/2015 10:00

Reported: 03/23/2015 14:20

SLO05

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	C6-C12-TPH-GRO	n.a.	120	22	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	Freon 113	76-13-1	N.D.	2	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1

General 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
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Sample Description: MW-5-W-150310 Grab Groundwater
Facility# 91723 Job# 386496 GRD
9757 San Leandro-Oakland T0600101789

LL Sample # WW 7800117
LL Group # 1544462
Account # 10906

Project Name: 91723

Collected: 03/10/2015 12:29 by FT

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 03/11/2015 10:00

Reported: 03/23/2015 14:20

SLO05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	VOCs- 5ml Water by 8260B	SW-846 8260B	1	W150801AA	03/21/2015 12:56	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W150801AA	03/21/2015 12:56	Linda C Pape	1

Sample Description: MW-6-W-150310 Grab Groundwater
Facility# 91723 Job# 386496 GRD
9757 San Leandro-Oakland T0600101789

LL Sample # WW 7800118
LL Group # 1544462
Account # 10906

Project Name: 91723

Collected: 03/10/2015 11:15 by FT

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 03/11/2015 10:00

Reported: 03/23/2015 14:20

SLO06

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	C6-C12-TPH-GRO	n.a.	28	22	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	Freon 113	76-13-1	N.D.	2	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1

General 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
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Sample Description: MW-6-W-150310 Grab Groundwater
Facility# 91723 Job# 386496 GRD
9757 San Leandro-Oakland T0600101789

LL Sample # WW 7800118
LL Group # 1544462
Account # 10906

Project Name: 91723

Collected: 03/10/2015 11:15 by FT

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 03/11/2015 10:00

Reported: 03/23/2015 14:20

SLO06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	VOCs- 5ml Water by	SW-846 8260B	1	W150801AA	03/21/2015 13:19	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W150801AA	03/21/2015 13:19	Linda C Pape	1

Sample Description: MW-8-W-150310 Grab Groundwater
Facility# 91723 Job# 386496 GRD
9757 San Leandro-Oakland T0600101789

LL Sample # WW 7800119
LL Group # 1544462
Account # 10906

Project Name: 91723

Collected: 03/10/2015 13:05 by FT

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 03/11/2015 10:00

Reported: 03/23/2015 14:20

SLO08

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Benzene	71-43-2	36	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	C6-C12-TPH-GRO	n.a.	1,500	22	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	5	0.5	1
10335	Freon 113	76-13-1	N.D.	2	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	1	0.5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	6	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1

General 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
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Sample Description: MW-8-W-150310 Grab Groundwater
Facility# 91723 Job# 386496 GRD
9757 San Leandro-Oakland T0600101789

LL Sample # WW 7800119
LL Group # 1544462
Account # 10906

Project Name: 91723

Collected: 03/10/2015 13:05 by FT

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 03/11/2015 10:00

Reported: 03/23/2015 14:20

SLO08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	VOCs- 5ml Water by 8260B	SW-846 8260B	1	W150801AA	03/21/2015 14:06	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W150801AA	03/21/2015 14:06	Linda C Pape	1

Sample Description: MW-9-W-150310 Grab Groundwater
Facility# 91723 Job# 386496 GRD
9757 San Leandro-Oakland T0600101789

LL Sample # WW 7800120
LL Group # 1544462
Account # 10906

Project Name: 91723

Collected: 03/10/2015 10:40 by FT

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 03/11/2015 10:00

Reported: 03/23/2015 14:20

SLO09

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	C6-C12-TPH-GRO	n.a.	N.D.	22	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	1	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	0.7	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	0.6	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	Freon 113	76-13-1	N.D.	2	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1

General 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
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Sample Description: MW-9-W-150310 Grab Groundwater
Facility# 91723 Job# 386496 GRD
9757 San Leandro-Oakland T0600101789

LL Sample # WW 7800120
LL Group # 1544462
Account # 10906

Project Name: 91723

Collected: 03/10/2015 10:40 by FT

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 03/11/2015 10:00

Reported: 03/23/2015 14:20

SLO09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	VOCs- 5ml Water by	SW-846 8260B	1	W150801AA	03/21/2015 13:43	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W150801AA	03/21/2015 13:43	Linda C Pape	1

Quality Control Summary

Client Name: Chevron
Reported: 03/23/2015 14:20

Group Number: 1544462

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: F150781AA	Sample number(s): 7800115							
Benzene	N.D.	0.5	ug/l	88	88	78-120	0	30
C6-C12-TPH-GRO	N.D.	22.	ug/l	104	90	80-152	14	30
Ethylbenzene	N.D.	0.5	ug/l	86	88	80-120	2	30
Toluene	N.D.	0.5	ug/l	87	88	80-120	2	30
Xylene (Total)	N.D.	0.5	ug/l	88	88	80-120	1	30
Batch number: W150801AA	Sample number(s): 7800116-7800120							
Benzene	N.D.	0.5	ug/l	96	98	78-120	3	30
Bromodichloromethane	N.D.	0.5	ug/l	96	100	73-120	4	30
Bromoform	N.D.	0.5	ug/l	94	96	52-123	2	30
Bromomethane	N.D.	0.5	ug/l	94	95	53-130	1	30
C6-C12-TPH-GRO	N.D.	22.	ug/l	95	95	80-152	0	30
Carbon Tetrachloride	N.D.	0.5	ug/l	96	101	74-130	5	30
Chlorobenzene	N.D.	0.5	ug/l	99	101	80-120	2	30
Chloroethane	N.D.	0.5	ug/l	92	96	56-120	5	30
Chloroform	N.D.	0.5	ug/l	97	101	80-120	4	30
Chloromethane	N.D.	0.5	ug/l	90	97	63-120	8	30
Dibromochloromethane	N.D.	0.5	ug/l	102	103	72-120	2	30
1,2-Dichlorobenzene	N.D.	1.	ug/l	97	96	80-120	0	30
1,3-Dichlorobenzene	N.D.	1.	ug/l	95	97	80-120	1	30
1,4-Dichlorobenzene	N.D.	1.	ug/l	97	98	80-120	1	30
1,1-Dichloroethane	N.D.	0.5	ug/l	93	95	80-120	2	30
1,2-Dichloroethane	N.D.	0.5	ug/l	104	106	72-127	2	30
1,1-Dichloroethene	N.D.	0.5	ug/l	92	95	76-124	3	30
cis-1,2-Dichloroethene	N.D.	0.5	ug/l	96	100	80-120	3	30
trans-1,2-Dichloroethene	N.D.	0.5	ug/l	95	99	80-120	3	30
1,2-Dichloropropane	N.D.	0.5	ug/l	97	100	80-120	3	30
cis-1,3-Dichloropropene	N.D.	0.5	ug/l	100	102	80-120	2	30
trans-1,3-Dichloropropene	N.D.	0.5	ug/l	101	103	76-120	2	30
Ethylbenzene	N.D.	0.5	ug/l	100	102	80-120	2	30
Freon 113	N.D.	2.	ug/l	90	95	67-127	5	30
Methylene Chloride	N.D.	2.	ug/l	89	93	80-120	4	30
1,1,2,2-Tetrachloroethane	N.D.	0.5	ug/l	97	98	70-120	1	30
Tetrachloroethene	N.D.	0.5	ug/l	96	99	80-120	3	30
Toluene	N.D.	0.5	ug/l	97	101	80-120	4	30
1,1,1-Trichloroethane	N.D.	0.5	ug/l	85	88	66-126	3	30
1,1,2-Trichloroethane	N.D.	0.5	ug/l	100	103	80-120	3	30
Trichloroethene	N.D.	0.5	ug/l	98	102	80-120	4	30
Trichlorofluoromethane	N.D.	0.5	ug/l	101	105	58-135	4	30
Vinyl Chloride	N.D.	0.5	ug/l	97	101	69-120	5	30
m+p-Xylene	N.D.	0.5	ug/l	100	104	80-120	3	30
o-Xylene	N.D.	0.5	ug/l	99	101	80-120	2	30

*- Outside of specification

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

Quality Control Summary

Client Name: Chevron
Reported: 03/23/2015 14:20

Group Number: 1544462

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: 8260 BTEX+ GRO C6-C12
Batch number: F150781AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7800115	101	99	97	94
Blank	100	100	99	97
LCS	98	99	99	96
LCSD	100	102	99	97
Limits:	80-116	77-113	80-113	78-113

Analysis Name: VOCs- 5ml Water by 8260B
Batch number: W150801AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7800116	104	102	100	95
7800117	102	102	102	98
7800118	104	101	101	96
7800119	104	100	102	100
7800120	105	104	101	97
Blank	105	107	99	96
LCS	104	101	103	101
LCSD	101	102	102	101
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.

Chevron California Region Analysis Request/Chain of Custody



Lancaster Laboratories

Acct. # 10906 For Eurofins Lancaster Laboratories use only
 Group # 1544462 Sample # 1800115-20
Instructions on reverse side correspond with circled numbers.

031015-04

SCR #: 1051

① Client Information				④ Matrix				⑤ Analyses Requested												⑥ Remarks																			
Facility # <u>SS#9-1723-OML G-R#386496 Global ID#T0600101789</u>				<input type="checkbox"/> Sediment <input checked="" type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air Total Number of Containers _____				BTEX 8021 <input type="checkbox"/> 8260 <input checked="" type="checkbox"/> B TPH-GRO <u>GC/MS</u> 8015 <input type="checkbox"/> 8260 <input checked="" type="checkbox"/> B TPH-DRO 8015 without Silica Gel Cleanup <input type="checkbox"/> TPH-DRO 8015 with Silica Gel Cleanup <input type="checkbox"/> 8260 Full Scan _____ Oxygenates _____ Total Lead Method _____ Dissolved Lead Method _____ <u>HVOCs (8260B)</u>												<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																			
Site Address <u>9757 SAN LEANDRO STREET, OAKLAND, CA</u>																																							
Chevron PM <u>CM</u> STANTECTF Lead Consultant <u>Flora</u>																																							
Consultant/Office <u>Getter-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>Frank Tenninori</u>				Grab <input type="checkbox"/> Composite <input type="checkbox"/>				Total Number of Containers _____ BTEX 8021 <input type="checkbox"/> 8260 <input checked="" type="checkbox"/> B TPH-GRO <u>GC/MS</u> 8015 <input type="checkbox"/> 8260 <input checked="" type="checkbox"/> B TPH-DRO 8015 without Silica Gel Cleanup <input type="checkbox"/> TPH-DRO 8015 with Silica Gel Cleanup <input type="checkbox"/> 8260 Full Scan _____ Oxygenates _____ Total Lead Method _____ Dissolved Lead Method _____ <u>HVOCs (8260B)</u>																															
② Sample Identification		Soil Depth																				Collected																	
		Date	Time																			Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX	TPH-GRO	TPH-DRO 8015 without Silica Gel Cleanup	TPH-DRO 8015 with Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead	Dissolved Lead	Method	Method		
<u>QA</u>		<u>3.10.15</u>																							<u>W</u>		<u>2</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										
<u>MW-2</u>		↓	<u>1152</u>																			<input checked="" type="checkbox"/>					<u>6</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										<input checked="" type="checkbox"/>
<u>MW-5</u>		↓	<u>1229</u>																			<input checked="" type="checkbox"/>					<u>6</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										<input checked="" type="checkbox"/>
<u>MW-6</u>		↓	<u>1115</u>																			<input checked="" type="checkbox"/>					<u>6</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										<input checked="" type="checkbox"/>
<u>MW-8</u>		↓	<u>1305</u>	<input checked="" type="checkbox"/>					<u>6</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										<input checked="" type="checkbox"/>																		
<u>MW-9</u>		↓	<u>1040</u>	<input checked="" type="checkbox"/>			<u>W</u>		<u>6</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										<input checked="" type="checkbox"/>																		
⑦ Turnaround Time Requested (TAT) (please circle)				Relinquished by <u>[Signature]</u>				Date <u>3.10.15</u>		Time <u>1415</u>		Received by <u>[Signature]</u>		Date <u>16 MAR 15</u>		Time <u>1415</u>		⑨																					
<input checked="" type="radio"/> Standard 5 day <input type="radio"/> 72 hour 48 hour 24 hour				Relinquished by <u>[Signature]</u>				Date <u>16 MAR 15</u>		Time <u>1634</u>		Received by <u>[Signature]</u>																											
⑧ Data Package (circle if required)				Relinquished by Commercial Carrier:				Date		Time		Received by		Date		Time																							
<input type="radio"/> Type I - Full <input type="radio"/> Type VI (Raw Data)				<input type="checkbox"/> EDD (circle if required) <input type="checkbox"/> EDF/EDD <input type="checkbox"/> EDFFLAT (default) Other: _____				<input checked="" type="checkbox"/> UPS _____ <input type="checkbox"/> FedEx _____ <input type="checkbox"/> Other _____		<u>3.11.15</u>		<u>1000</u>		Temperature Upon Receipt <u>0.2-1.0</u> °C		Custody Seals Intact? <input checked="" type="radio"/> Yes <input type="radio"/> No																							

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	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, ISO17025) 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.

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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.

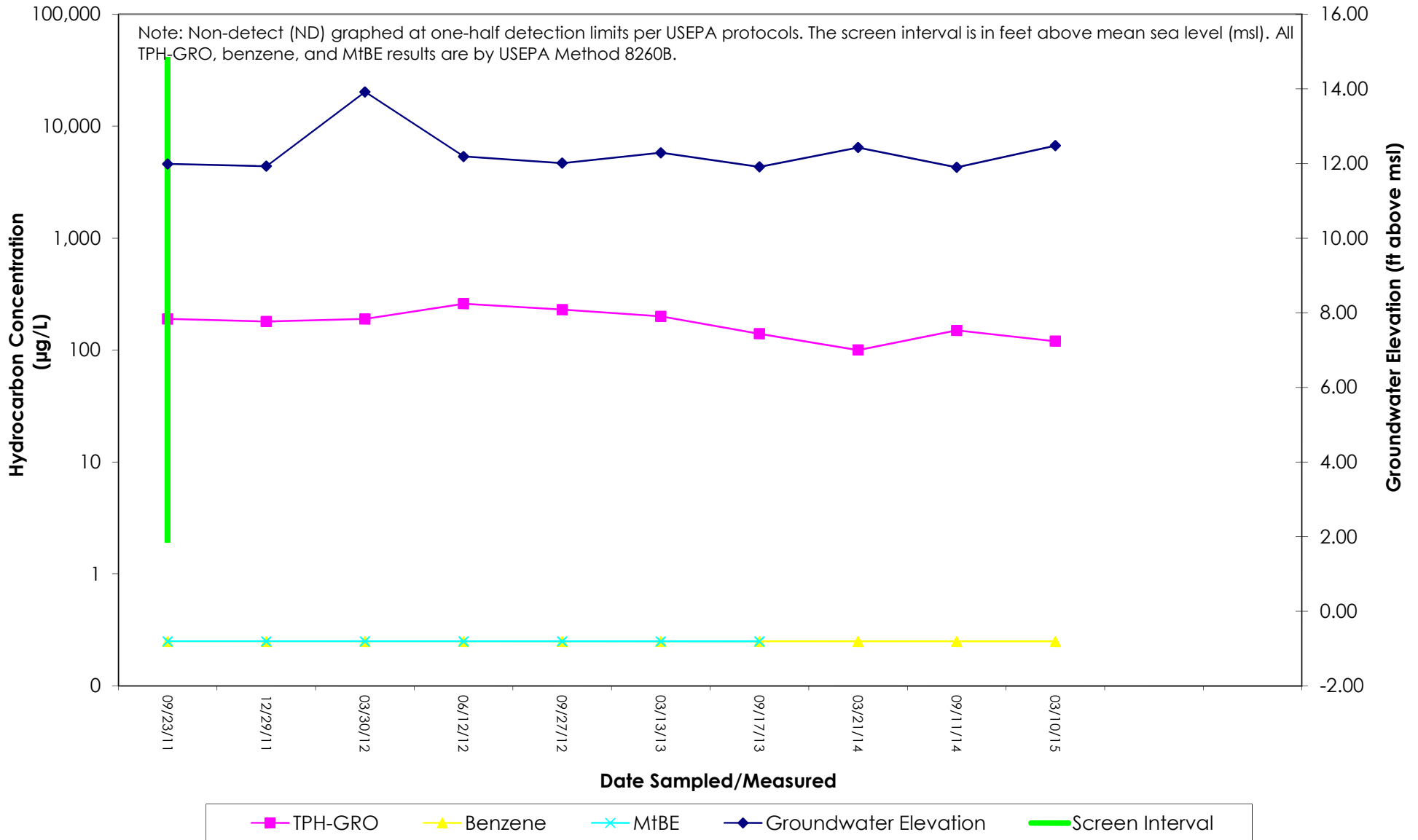
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ATTACHMENT C
Hydrographs

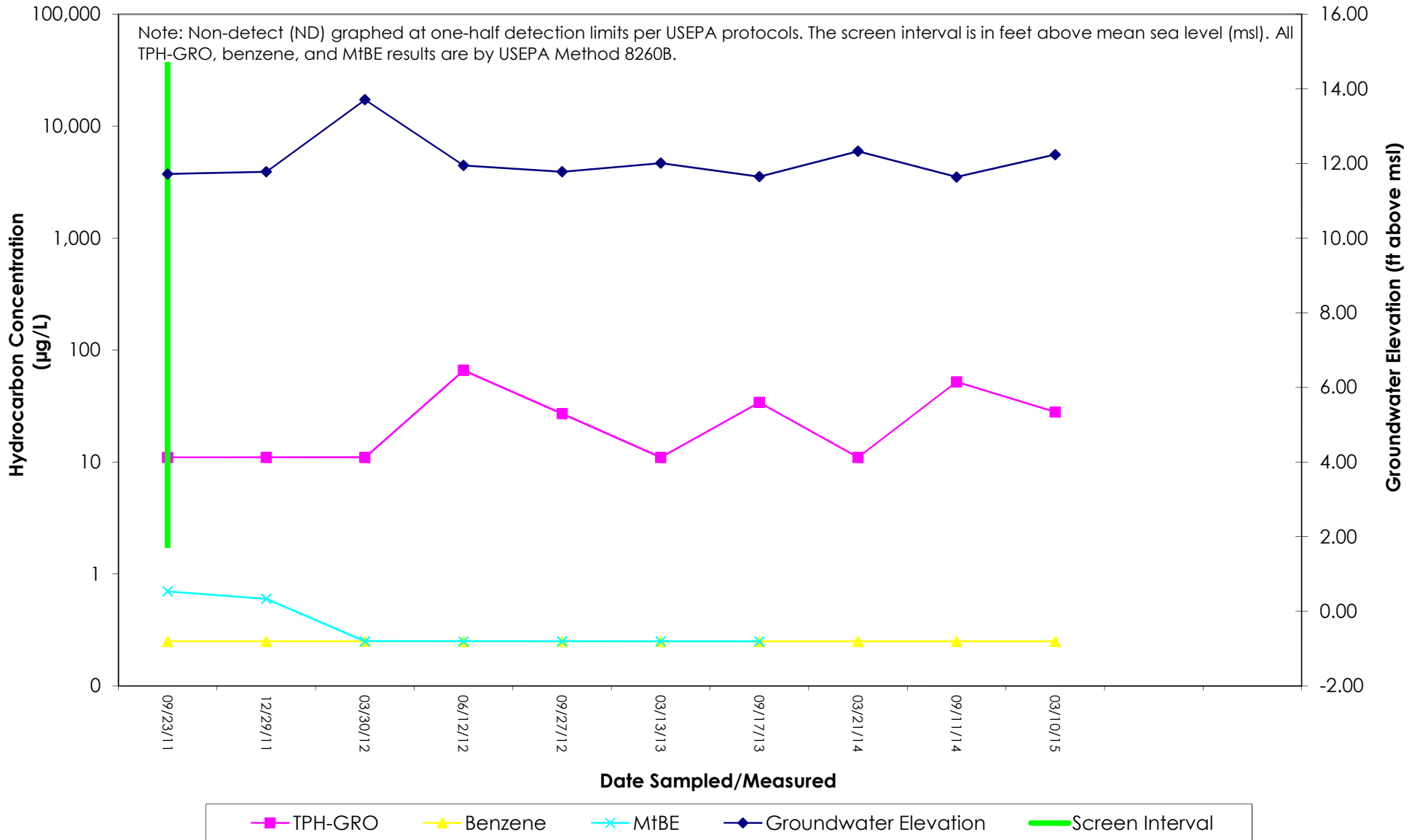
MW-2 TPH-GRO, Benzene, & MtBE Concentrations and Groundwater Elevations vs. Time
 Former Chevron-branded Service Station 91723
 9757 San Leandro Street
 Oakland, California



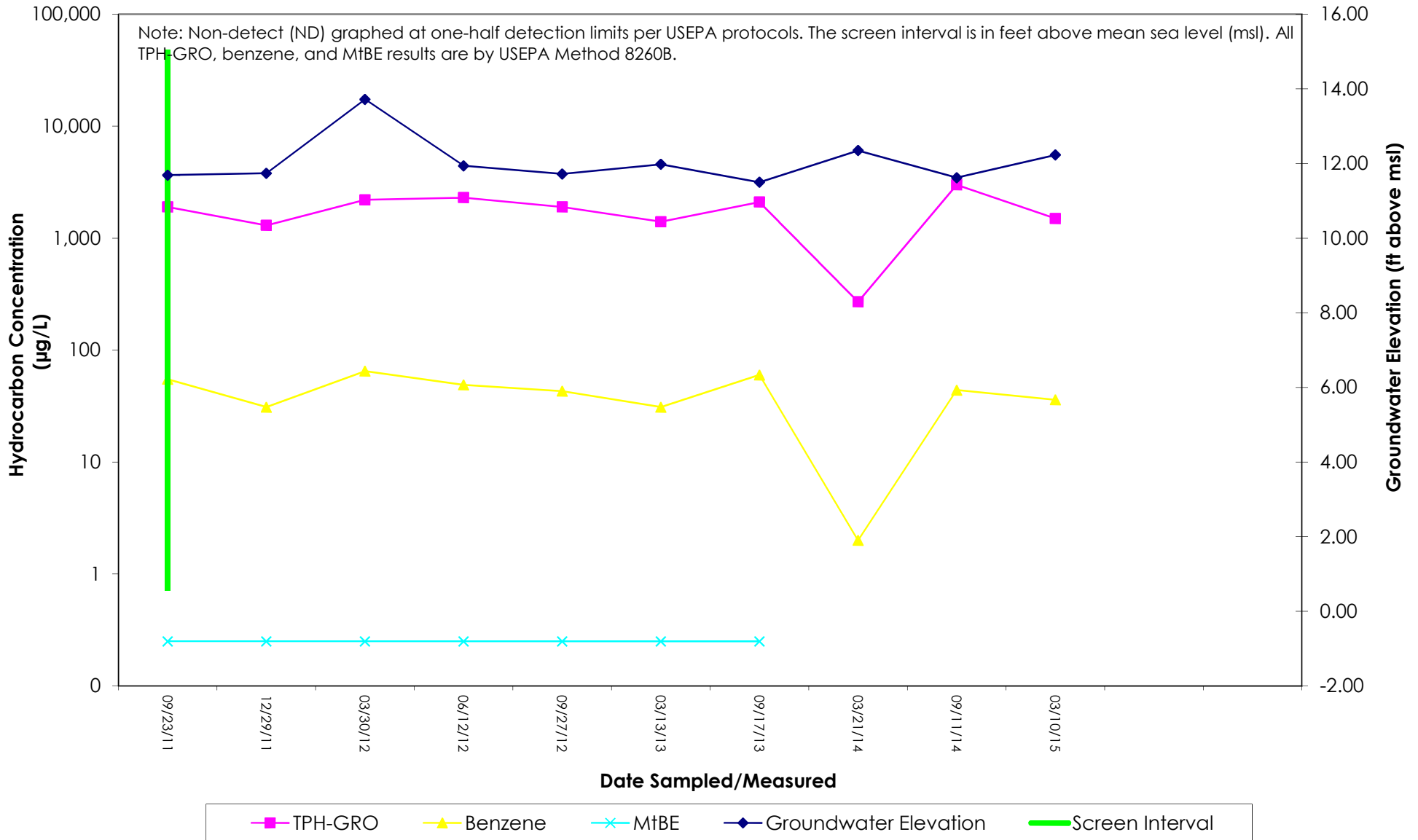
MW-5 TPH-GRO, Benzene, & MtBE Concentrations and Groundwater Elevations vs. Time
 Former Chevron-branded Service Station 91723
 9757 San Leandro Street
 Oakland, California



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

