



Stantec

**First Quarter 2013 Annual
Groundwater Monitoring Report**

**Former Chevron-branded Service
Station 90517
3900 Piedmont Avenue
Oakland, California
Case #: RO0000138**

RECEIVED

By Alameda County Environmental Health at 11:47 am, Mar 25, 2013

Submitted to:

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

Prepared for:

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

Submitted by:

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

March 22, 2013



Carryl MacLeod
Project Manager
Marketing Business Unit

**Chevron Environmental
Management Company**
6101 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 790-6506
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March 22, 2013

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 2013 Annual Groundwater Monitoring Report* for former Chevron-branded service station 90517, located at 3900 Piedmont Avenue in Oakland, California (**Case #:** RO0000138). 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



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15575 Los Gatos Boulevard, Building C
Los Gatos, CA 95032
Tel: (408) 356-6124
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Stantec

March 22, 2013

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

RE: **First Quarter 2013 Annual Groundwater Monitoring Report**
Former Chevron-branded Service Station 90517
3900 Piedmont Avenue
Oakland, California
Case #: RO0000138

Dear Mr. Detterman:

On behalf of Chevron Environmental Management Company (Chevron), Stantec Consulting Services Inc. (Stantec) is pleased to submit the *First Quarter 2013 Annual Groundwater Monitoring Report* for former Chevron-branded service station 90517, which was located at 3900 Piedmont Avenue, Oakland, Alameda County, California (the Site - shown on **Figure 1**). This report is presented in three sections: Site Background, First Quarter 2013 Groundwater Monitoring and Sampling Program, and Conclusions and Recommendations.

SITE BACKGROUND

The Site is a former Chevron-branded service station located on the eastern corner at the intersection of Piedmont Avenue and Montell Street in Oakland, California. The Site is currently occupied by a one-story commercial building and associated parking areas. The Site background is summarized according to the *Case Closure Request*, prepared by Conestoga-Rovers & Associates (CRA) and dated October 12, 2010, and indicates a Chevron-branded service station operated at the Site from at least 1940 until 1978.

Based on a Site Plan from 1940, first-generation Site features consisted of three gasoline underground storage tanks (USTs; 928-gallon, 440-gallon, and 550-gallon) located in the southwestern portion of the Site, a lubrication building with a waste oil sump in the eastern corner of the Site, two fuel dispenser islands located in the western portion of the Site, and a small station building located adjacent to the fuel dispenser islands. Based on a Site Plan from 1955, the first-generation gasoline USTs were removed and three second-generation gasoline USTs (3,000-gallon, 5,000-gallon, and 7,500-gallon) were installed to the northwest of the first-generation USTs. A 1,000-gallon waste oil UST is shown to the northwest of the lubrication building and two hydraulic hoists are shown within the building. In addition, the first-generation fuel dispenser islands were removed and second-generation fuel dispenser islands were installed to the east of the first-generation fuel dispenser islands. Based on a Site Plan from 1971, the mid-size gasoline UST is identified as 5,700-gallon instead of 5,000-gallon. In 1978,

the service station was closed and all remaining Site features, including underground fuel structures, were removed. The existing commercial building was then constructed.

Land use near the Site consists of a mixture of commercial and residential properties. The Site is bounded on the northwest by Piedmont Avenue, to the northeast by a commercial building that appears to be vacant, to the southeast by residences, and on the southwest by Montell Street.

FIRST QUARTER 2013 GROUNDWATER MONITORING AND SAMPLING PROGRAM

Gettler-Ryan, Inc. (G-R) performed the First Quarter 2013 groundwater monitoring and sampling event on February 9, 2013. G-R's standard operating procedures (SOPs) and field data sheets are included in **Attachment A**. G-R gauged depth-to-groundwater in four Site wells (MW-1 through MW-4) prior to collecting groundwater samples for laboratory analysis. Three Site wells (MW-1, MW-3, and MW-4) were sampled this quarter. Well MW-2 was gauged for depth-to-groundwater only as it is not a part of the groundwater sampling program.

Investigation-derived waste (IDW) generated during the First Quarter 2013 groundwater monitoring and sampling event was transported by Clean Harbors Environmental Services to Evergreen Oil in Newark, 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 four Site wells (MW-1 through MW-4) were screened across the groundwater table. Current and historical groundwater elevation data are presented in **Table 2**. A groundwater elevation contour map (based on First Quarter 2013 data) is shown on **Figure 2**. The direction of groundwater flow at the time of sampling was generally towards the west-northwest at an approximate hydraulic gradient ranging from 0.012 to 0.017 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 First Quarter 2010 to the present.

Schedule of Laboratory Analysis

Groundwater samples were collected and analyzed for total petroleum hydrocarbons (TPH) as gasoline range organics (TPH-GRO), TPH as diesel range organics (TPH-DRO) both with and without silica gel cleanup, TPH as motor oil (TPH-MO) both with and without silica gel cleanup, and total TPH both with and without silica gel cleanup using United States Environmental Protection Agency (US EPA) Method 8015B modified (SW-846). *n*-Hexane extractable material (HEM; oil and grease) and silica gel treated HEM (SGT-HEM; TPH) were analyzed using US EPA Method 1664A. Benzene, toluene, ethylbenzene, and total xylenes (BTEX compounds), fuel oxygenates, including methyl *tertiary*-butyl ether (MtBE), *tertiary*-butyl alcohol (TBA), *tertiary*-amyl methyl ether (TAME), ethyl *tertiary*-butyl ether (EtBE), di-isopropyl ether (DIPE), 1,2-dichloroethane (1,2-DCA), and 1,2-dibromoethane (1,2-DBA), ethanol, and priority pollutant list (PPL) volatiles were analyzed using US EPA Method 8260B (SW-846). Heavy metals, including cadmium, chromium, lead, nickel, and zinc were analyzed using US EPA Method 6010B (SW-846).

Groundwater Analytical Results

During First Quarter 2013, groundwater samples were collected from three Site wells (MW-1, MW-3, and MW-4). Current and historical groundwater analytical results are included in **Table 2** through **Table 6**. A figure showing the latest groundwater analytical data plotted on a Site map is included as **Figure 4**. A TPH-GRO isoconcentration map is shown on **Figure 5**. A TPH-DRO isoconcentration map is shown on **Figure 6**. A TPH-MO isoconcentration map is shown on **Figure 7**. A benzene isoconcentration map is shown on **Figure 8**. An isoconcentration map was not developed for MtBE as concentrations in all Site wells sampled were below 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.

Certified laboratory analysis reports and chain-of-custody documents are presented as **Attachment B**. Hydrographs based on current and historical groundwater elevations and analytical results for wells that were sampled this quarter are included in **Attachment C**. A summary of First Quarter 2013 groundwater analytical results follows. Historical trends were not evaluated for TPH-DRO, TPH-MO, and total TPH (with silica gel cleanup), HEM, SGT-HEM, TBA, TAME, EtBE, DIPE, 1,2-DCA, 1,2-DBA, ethanol, cadmium, chromium, lead, nickel, and zinc as these constituents were recently added to the laboratory analytical program and limited data are available.

- **TPH-GRO** was detected in two Site wells this quarter, at concentrations of 75 micrograms per liter ($\mu\text{g/L}$; well MW-3) and 1,800 $\mu\text{g/L}$ (well MW-4), which are within historical limits for each respective well.
- **TPH-DRO (with silica gel cleanup)** was detected in two Site wells this quarter, at concentrations of 220 $\mu\text{g/L}$ (well MW-1) and 1,500 $\mu\text{g/L}$ (well MW-4).
- **TPH-MO (with silica gel cleanup)** was detected in one Site well this quarter, at a concentration of 700 $\mu\text{g/L}$ (well MW-1).
- **Total TPH (with silica gel cleanup)** was detected in one Site well this quarter, at a concentration of 700 $\mu\text{g/L}$ (well MW-1).
- **HEM** was detected in one Site well this quarter, at a concentration of 1,600 $\mu\text{g/L}$ (well MW-1).
- **SGT-HEM** was detected in three Site wells this quarter, at concentrations of 1,900 $\mu\text{g/L}$ (well MW-4) and 2,400 $\mu\text{g/L}$ (wells MW-1 and MW-3).
- **Benzene** was detected in one Site well this quarter, at a concentration of 77 $\mu\text{g/L}$ (well MW-4), which is within historical limits for this well.
- **Toluene** was detected in one Site well this quarter, at a concentration of 17 $\mu\text{g/L}$ (well MW-4), which is within historical limits for this well.
- **Ethylbenzene** was detected in one Site well this quarter, at a concentration of 4 $\mu\text{g/L}$ (well MW-4), which is within historical limits for this well.

- **Total Xylenes** were detected in one Site well this quarter, at a concentration of 10 µg/L (well MW-4), which is a historical low for this well.
- **MtBE** was detected in one Site well this quarter, at a concentration of 0.8 µg/L (well MW-4), which is the lowest detected concentration for this well.
- **TBA** was detected in one Site well this quarter, at a concentration of 5 µg/L (well MW-4).
- **TAME** was not detected above the laboratory reporting limit (LRL; 0.5 µg/L) in any Site well sampled this quarter.
- **EtBE** was not detected above the LRL (0.5 µg/L) in any Site well sampled this quarter.
- **DIPE** was not detected above the LRL (0.5 µg/L) in any Site well sampled this quarter.
- **1,2-DCA** was not detected above the LRL (0.5 µg/L) in any Site well sampled this quarter.
- **1,2-DBA** was not detected above the LRL (0.5 µg/L) in any Site well sampled this quarter.
- **Ethanol** was not detected above the LRL (50 µg/L) in any Site well sampled this quarter.
- **Cadmium** was detected in one Site well this quarter, at a concentration of 0.49 µg/L (well MW-4).
- **Chromium** was detected in three Site wells this quarter, at concentrations of 34.6 µg/L (well MW-3), 37.7 µg/L (well MW-1), and 54.7 µg/L (well MW-4).
- **Lead** was detected in three Site wells this quarter, at concentrations of 5.4 µg/L (well MW-1), 8.4 µg/L (well MW-3), and 17.5 µg/L (well MW-4).
- **Nickel** was detected in three Site wells this quarter, at concentrations of 40.6 µg/L (well MW-3), 42.0 µg/L (well MW-1), and 145 µg/L (well MW-4).
- **Zinc** was detected in three Site wells this quarter, at concentrations of 36.1 µg/L (well MW-1), 52.1 µg/L (well MW-3), and 664 µg/L (well MW-4).

A summary of the First Quarter 2013 detections reported above LRLs from the PPL volatile analyses performed follows:

- **Acetone** was detected in one Site well this quarter, at a concentration of 13 µg/L (well MW-4).
- **2-Butanone** was detected in one Site well this quarter, at a concentration of 5 µg/L (well MW-4).

- **sec-Butylbenzene** was detected in one Site well this quarter, at a concentration of 1 µg/L (well MW-4).
- **Isopropylbenzene** was detected in one Site well this quarter, at a concentration of 14 µg/L (well MW-4).
- **p-Isopropyltoluene** was detected in one Site well this quarter, at a concentration of 1 µg/L (well MW-4).
- **n-Propylbenzene** was detected in one Site well this quarter, at a concentration of 7 µg/L (well MW-4).

CONCLUSIONS AND RECOMMENDATIONS

Concentrations were conservatively compared to RWQCB ESLs for groundwater that is a current or potential source of drinking water, and TPH-GRO, TPH-DRO, TPH-MO, and total TPH (with silica gel cleanup), HEM, SGT-HEM, benzene, cadmium, chromium, lead, nickel, and zinc were observed above ESLs as follows:

- The TPH-GRO concentration exceeds the ESL of 100 µg/L in well MW-4;
- TPH-DRO concentrations (with silica gel cleanup) exceed the ESL of 100 µg/L in wells MW-1 and MW-4;
- The TPH-MO concentration (with silica gel cleanup) exceeds the ESL of 100 µg/L in well MW-1;
- The total TPH concentration (with silica gel cleanup) exceeds the ESL of 100 µg/L in well MW-1;
- The HEM concentration exceeds the ESL of 100 µg/L in well MW-1;
- SGT-HEM concentrations exceed the ESL of 100 µg/L in wells MW-1, MW-3, and MW-4;
- The benzene concentration exceeds the ESL of 1 µg/L in well MW-4;
- The cadmium concentration exceeds the ESL of 0.25 µg/L in well MW-4;
- The chromium concentration exceeds the ESL of 50 µg/L in well MW-4;
- Lead concentrations exceed the ESL of 2.5 µg/L in wells MW-1, MW-3, and MW-4;
- Nickel concentrations exceed the ESL of 8.2 µg/L in wells MW-1, MW-3, and MW-4; and
- The zinc concentration exceeds the ESL of 81 µg/L in well MW-4.

Maximum concentrations of TPH-GRO, TPH-DRO (with silica gel cleanup), BTEX compounds, MtBE, TBA, select heavy metals, and select PPL volatiles were observed in well MW-4, located approximately 20 feet down-gradient of the northern-most first-generation fuel dispenser island. Maximum concentrations of TPH-MO and total TPH (with silica gel cleanup), HEM, and SGT-HEM were observed in well MW-1, located in the vicinity of the former waste oil UST and waste oil sump. SGT-HEM, lead, and nickel were the only constituents to exceed ESLs in well MW-3, located approximately 15 feet west of the former second-generation USTs.

Based on concentrations of TPH-GRO, TPH-DRO, TPH-MO, and total TPH (with silica gel cleanup), HEM, SGT-HEM, benzene, cadmium, chromium, lead, nickel, and zinc exceeding

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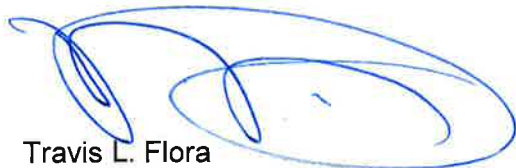
ESLs, Stantec recommends continuing the current annual groundwater monitoring and sampling program.

In a letter dated April 14, 2011, Alameda County Environmental Health (ACEH) requested a work plan for additional subsurface investigation and a vapor intrusion evaluation. CRA submitted the *Revised Work Plan for Additional Site Investigation* on June 13, 2011. The proposed scope of work included installation of sub-slab vapor probes within the on-site commercial building and collection of soil vapor samples to evaluate potential vapor intrusion risk. In a letter dated March 28, 2012, ACEH requested a work plan addendum to incorporate a subsurface investigation to further evaluate on-site soil impacts. ACEH also requested modifications to the scope of work for the vapor intrusion evaluation. CRA submitted the *Work Plan Addendum and Results of Additional Groundwater Monitoring* on June 13, 2012. The work plan addendum scope of work included the requested modifications to the proposed vapor intrusion evaluation and proposed advancement of five soil boreholes in the planter/walkway areas adjacent to the on-site building and collection of soil samples. In a letter dated August 16, 2012, ACEH concurred with the work plan addendum, with the condition that one of the sub-slab vapor sampling probes be relocated due to its likely proximity to sewer and water lines and requested that a revised Figure 2 be submitted.

On October 3, 2012, Stantec requested an extension for revising Figure 2 and for the execution of fieldwork and submittal of the final report. ACEH responded in an email dated October 17, 2012, which agreed with the revised Figure 2 extension, but requested that no work proceed on the subsurface investigation until ACEH has had the opportunity to review the case against the new Low-Threat Closure Policy (LTCP). Stantec submitted the *Revised Figure 2 Showing Proposed Borehole and Vapor Probe Locations* on October 31, 2012, and recommended modifications to the work plan addendum, removing of one of the proposed soil boreholes to condense soil borehole locations and cancelling of sub-slab vapor probes due to access concerns and proximity to building utilities. To address the potential for vapor intrusion risks, Stantec instead proposed the installation of three shallow soil vapor probes around the building perimeter and subsequent collection of soil vapor samples. The LTCP review by ACEH is pending.

If you have any questions regarding the contents of this report, please contact the Stantec project manager, Travis Flora, at (408) 356-6124 or travis.flora@stantec.com.

Sincerely,
Stantec Consulting Services Inc.



Travis L. Flora
Project Manager

Stantec

First Quarter 2013 Annual Groundwater Monitoring Report
Former Chevron-branded Service Station 90517
March 22, 2013
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Attachments:

Table 1 – Well Details / Screen Interval Assessment – First Quarter 2013
Table 2 – Groundwater Monitoring Data and Analytical Results
Table 3 – Groundwater Analytical Results – Oxygenate Compounds
Table 4 – Groundwater Analytical Results – PPL Volatiles
Table 5 – Groundwater Analytical Results – Metals
Table 6 – Groundwater Analytical Results – PCBs

Figure 1 – Site Location Map
Figure 2 – Groundwater Elevation Contour Map – First Quarter 2013
Figure 3 – Rose Diagram – First Quarter 2013
Figure 4 – Site Plan Showing Groundwater Concentrations – First Quarter 2013
Figure 5 – TPH-GRO Isoconcentration Map – First Quarter 2013
Figure 6 – TPH-DRO Isoconcentration Map – First Quarter 2013
Figure 7 – TPH-MO Isoconcentration Map – First Quarter 2013
Figure 8 – Benzene Isoconcentration Map – First Quarter 2013

Attachment A – Gettler-Ryan, Inc. Field Data Sheets and Standard Operating Procedures –
First Quarter 2013
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

Neil and Diane Goodhue, 300 Hillside Avenue, Piedmont, CA 94611

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First Quarter 2013 Annual Groundwater Monitoring Report
Former Chevron-branded Service Station 90517
March 22, 2013
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LIMITATIONS AND CERTIFICATION

This report was prepared in accordance with the scope of work outlined in Stantec's contract and with generally accepted professional engineering and environmental consulting practices existing at the time this report was prepared and applicable to the location of the site. It was prepared for the exclusive use of Chevron for the express purpose stated above. Any re-use of this report for a different purpose or by others not identified above shall be at the user's sole risk without liability to Stantec. To the extent that this report is based on information provided to Stantec by third parties, Stantec may have made efforts to verify this third party information, but Stantec cannot guarantee the completeness or accuracy of this information. The opinions expressed and data collected are based on the conditions of the site existing at the time of the field investigation. No other warranties, expressed or implied are made by Stantec.

Prepared by:

Erin O'Malley

Erin O'Malley
Engineering Project Specialist

Reviewed by:

Marisa Kaffenberger

Marisa Kaffenberger
Associate Engineer

All information, conclusions, and recommendations provided by Stantec in this document regarding the Subject Property have been prepared under the supervision of and reviewed by the Licensed Professional whose signature appears below:

Licensed Approver:

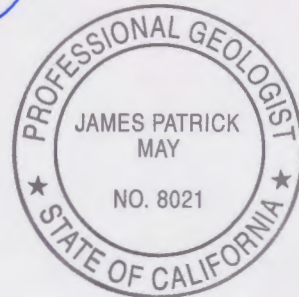
Name: James May, P.G.

Date: 22 MARCH 2013

Signature:

James P. May

Stamp:



Tables

Table 1
Well Details / Screen Interval Assessment
First Quarter 2013
Former Chevron-Branded Service Station 90517
3900 Piedmont Avenue, 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-1	7/21/1998	Monitoring	2	87.89	16.50	16.62	7.47	3.5-16.5	Depth-to-groundwater within screen interval.
MW-2	7/21/1998	Monitoring	2	86.09	16.50	16.50	5.80	3.5-16.5	Depth-to-groundwater data only; depth-to-groundwater within screen interval.
MW-3	7/21/1998	Monitoring	2	86.28	17.50	17.72	6.87	4.5-17.5	Depth-to-groundwater within screen interval.
MW-4	7/21/1998	Monitoring	2	87.22	16.50	16.28	8.14	3.5-16.5	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 February 9, 2013.									

Table 2
Groundwater Monitoring Data and Analytical Results
Former Chevron-branded Service Station 90517
3900 Piedmont Avenue
Oakland, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TOTAL TPH (µg/L)	TPH-MO (µg/L)	HEM (µg/L)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MtBE (µg/L)
MW-1													
08/03/98	87.89	12.43	75.46	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
11/23/98	87.89	9.05	78.84	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0
02/08/99	87.89	6.50	81.39	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
05/07/99	87.89	7.13	80.76	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
08/23/99	87.89	9.15	78.74	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
11/03/99	87.89	9.54	78.35	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
02/15/00	87.89	5.90	81.99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
05/12/00 ³	87.89	7.05	80.84	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
07/31/00	87.89	8.40	79.49	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
10/30/00	87.89	8.65	79.24	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.50	<2.50
02/27/01	87.89	5.83	82.06	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.50
05/15/01	87.89	7.71	80.18	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.50
08/23/01	87.89	DRY	--	--	--	--	--	--	--	--	--	--	--
02/25/02	87.89	6.71	81.18	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
08/05/02	87.89	8.89	79.00	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
02/11/03	87.89	7.36	80.53	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
08/09/03 ⁵	87.89	9.47	78.42	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/25/04 ⁵	87.89	6.30	81.59	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/23/04 ⁵	87.89	10.12	77.77	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/11/05 ⁵	87.89	6.79	81.10	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/15/05 ⁵	87.89	8.89	79.00	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/10/06 ⁵	87.89	6.65	81.24	--	--	--	--	<50	1	<0.5	<0.5	<0.5	<0.5
08/02/06 ⁵	87.89	7.73	80.16	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/09/07 ⁵	87.89	7.77	80.12	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/23/07 ⁵	87.89	9.59	78.30	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/18/08 ⁵	87.89	7.41	80.48	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/12/08 ⁵	87.89	9.78	78.11	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/19/09 ⁵	87.89	5.61	82.28	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/07/09	87.89	10.22	77.67	NOT PART OF GROUNDWATER SAMPLING PROGRAM									
01/29/10	87.89	6.04	81.85	NOT PART OF GROUNDWATER SAMPLING PROGRAM									
08/11/10	87.89	8.35	79.54	NOT PART OF GROUNDWATER SAMPLING PROGRAM									
02/02/11	87.89	6.54	81.35	NOT PART OF GROUNDWATER SAMPLING PROGRAM									
01/31/12	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--	--
05/10/12 ⁵	87.89	7.28	80.61	2,800 ⁶ / 1,300 ^{6,7,8}	2,800 ⁶ / 1,300 ^{6,7,8}	--	1,400/ 720 ^{7,8}	<50	<0.5	<0.5	<0.5	<1	<0.5
02/09/13⁵	87.89	7.47	80.42	1,400⁶/ 700^{6,7,8}	1,400⁶/ 700^{6,7,8}	1,600/ 2,400⁷	650/ 220^{7,8}	<50	<0.5	<0.5	<0.5	<0.5	<0.5

Table 2
Groundwater Monitoring Data and Analytical Results
Former Chevron-branded Service Station 90517
3900 Piedmont Avenue
Oakland, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TOTAL TPH (µg/L)	TPH-MO (µg/L)	HEM (µg/L)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MtBE (µg/L)
MW-2													
08/03/98	86.09	11.34	74.75	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	3.4
11/23/98	86.09	6.90	79.19	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0
02/08/99	86.09	5.23	80.86	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
05/07/99	86.09	6.12	79.97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
08/23/99	86.09	6.41	79.68	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
11/03/99	86.09	7.29	78.80	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
02/15/00	86.09	4.49	81.60	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
05/12/00	86.09	5.90	80.19	--	--	--	--	4,000 ³	240	26	100	76	<100
07/31/00	86.09	6.58	79.51	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
10/30/00	86.09	6.23	79.86	--	--	--	--	<51	<0.50	2.92	<0.50	1.88	4.89
02/27/01	86.09	4.60	81.49	--	--	--	--	<52	<0.50	<0.50	<0.50	<0.50	<2.50
05/15/01	86.09	6.3	79.79	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.50
08/23/01	86.09	7.28	78.81	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
02/25/02	86.09	5.61	80.48	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
08/05/02	86.09	7.10	78.99	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
02/11/03	86.09	7.45	78.64	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
08/09/03 ⁵	86.09	7.65	78.44	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/25/04 ⁵	86.09	4.85	81.24	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/23/04 ⁵	86.09	8.23	77.86	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/11/05 ⁵	86.09	5.93	80.16	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/15/05 ⁵	86.09	7.59	78.50	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/10/06 ⁵	86.09	5.73	80.36	--	--	--	--	<50	0.6	<0.5	<0.5	<0.5	<0.5
08/02/06 ⁵	86.09	6.95	79.14	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/09/07 ⁵	86.09	6.29	79.80	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/23/07 ⁵	86.09	7.40	78.69	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/18/08 ⁵	86.09	6.47	79.62	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/12/08 ⁵	86.09	7.08	79.01	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/19/09 ⁵	86.09	6.50	79.59	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/07/09	86.09	8.51	77.58	NOT PART OF GROUNDWATER SAMPLING PROGRAM				--	--	--	--	--	--
01/29/10	86.09	6.29	79.80	NOT PART OF GROUNDWATER SAMPLING PROGRAM				--	--	--	--	--	--
08/11/10	86.09	7.20	78.89	NOT PART OF GROUNDWATER SAMPLING PROGRAM				--	--	--	--	--	--
02/02/11	86.09	6.87	79.22	NOT PART OF GROUNDWATER SAMPLING PROGRAM				--	--	--	--	--	--
01/31/12	86.09	6.81	79.28	NOT PART OF GROUNDWATER SAMPLING PROGRAM				--	--	--	--	--	--
02/09/13	86.09	5.80	80.29	NOT PART OF GROUNDWATER SAMPLING PROGRAM				--	--	--	--	--	--

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Former Chevron-branded Service Station 90517
3900 Piedmont Avenue
Oakland, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TOTAL TPH (µg/L)	TPH-MO (µg/L)	HEM (µg/L)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MtBE (µg/L)
MW-3													
08/03/98	86.28	12.08	74.20	--	--	--	--	4,000	160	<5.0	<5.0	73	180
11/23/98	86.28	7.69	78.59	--	--	--	--	4,000	67.7	7.56	17.1	24.5	41.2
02/08/99	86.28	6.27	80.01	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
05/07/99	86.28	6.96	79.32	--	--	--	--	1,800	53.6	8.96	33	18.6	21.4
08/23/99	86.28	7.92	78.36	--	--	--	--	3,970	155	24	88.8	39.8	185
11/03/99	86.28	7.92	78.36	--	--	--	--	3,320	108	19.9	98.4	44.8	<25
02/15/00	86.28	5.74	80.54	--	--	--	--	779	26.7	3.82	15.4	4.24	<12.5
05/12/00	86.28	6.76	79.52	--	--	--	--	12,000 ³	3,100	120	980	1,400	820
07/31/00	86.28	7.30	78.98	--	--	--	--	1,200 ³	32	<5.0	11	7.3	39
10/30/00	86.28	7.02	79.26	--	--	--	--	3,300 ⁴	119	<5.00	40	<15.0	<25.0
02/27/01	86.28	5.89	80.39	--	--	--	--	432 ³	15.5	1.53	14.9	1.06	15.7
05/15/01	86.28	7.07	79.21	--	--	--	--	3,220 ³	96.4	12.6	11.5	11.6	128
08/23/01	86.28	8.05	78.23	--	--	--	--	2,300	48	<10	<10	<10	100
02/25/02	86.28	6.73	79.55	--	--	--	--	3,100	27	2.1	4.8	6.6	<2.5
08/05/02	86.28	7.95	78.33	--	--	--	--	4,100	87	21	90	47	21
02/11/03	86.28	7.05	79.23	--	--	--	--	3,700	21	2.3	4.4	9	<20
08/09/03 ⁵	86.28	8.23	78.05	--	--	--	--	1,600	12	1	2	4	0.7
02/25/04 ⁵	86.28	5.85	80.43	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/23/04 ⁵	86.28	9.05	77.23	--	--	--	--	3,000	21	3	3	9	<0.5
02/11/05 ⁵	86.28	7.02	79.26	--	--	--	--	540	15	1	<0.5	0.8	<0.5
08/15/05 ⁵	86.28	8.41	77.87	--	--	--	--	2,600	11	1	1	2	<0.5
02/10/06 ⁵	86.28	6.93	79.35	--	--	--	--	970	20	2	<0.5	3	<0.5
08/02/06 ⁵	86.28	8.00	78.28	--	--	--	--	1,000	16	1	<0.5	3	<0.5
02/09/07 ⁵	86.28	7.33	78.95	--	--	--	--	590	3	<0.5	<0.5	0.5	<0.5
08/23/07 ⁵	86.28	8.83	77.45	--	--	--	--	2,700	18	4	2	8	<0.5
02/18/08 ⁵	86.28	7.27	79.01	--	--	--	--	1,300	8	1	0.6	1	<0.5
08/12/08 ⁵	86.28	9.58	76.70	--	--	--	--	2,000	21	3	1	4	<0.5
02/19/09 ⁵	86.28	6.76	79.52	--	--	--	--	810	<0.5	<0.5	<0.5	1	<0.5
08/07/09 ⁵	86.28	9.17	77.11	--	--	--	--	900	4	0.9	3	3	<0.5
01/29/10 ⁵	86.28	6.57	79.71	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/11/10 ⁵	86.28	8.61	77.67	--	--	--	--	1,800	9	2	6	5	<0.5
2/2/2011 ⁵	86.28	7.16	79.12	--	--	--	--	97	<0.5	<0.5	<0.5	<0.5	<0.5
01/31/12 ⁵	86.28	7.67	78.61	--	--	--	--	720	0.9	<0.5	<0.5	0.9	<0.5
02/09/13⁵	86.28	6.87	79.41	86^{6/} <41^{6,7,8}	86^{6/} <41^{6,7,8}	<1,400/⁷ 2,400⁷	120/^{7,8} <50^{7,8}	75	<0.5	<0.5	<0.5	<0.5	<0.5

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Oakland, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TOTAL TPH (µg/L)	TPH-MO (µg/L)	HEM (µg/L)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MtBE (µg/L)
MW-4													
08/03/98	87.22	12.92	74.30	--	--	--	--	1,900	110	12	<0.5	55	130
11/23/98	87.22	9.40	77.82	--	--	--	--	4,080	136	17.8	37.2	30.1	51.8
02/08/99 ¹	87.22	7.82	79.40	--	--	--	--	2,900	150	16	<5.0	15	230/30.7 ²
05/07/99	87.22	7.42	79.80	--	--	--	--	6,050	161	<25	39.8	36.9	<250/30.2 ²
08/23/99	87.22	9.39	77.83	--	--	--	--	3,930	203	37.6	58.6	42.2	255
11/03/99	87.22	9.81	77.41	--	--	--	--	5,350	324	44.7	91.5	56.1	<50
02/15/00	87.22	7.72	79.50	--	--	--	--	4,080	161	27.7	31.1	39.1	73.9
05/12/00	87.22	7.91	79.31	--	--	--	--	3,600 ³	170	27	49	64	170
07/31/00	87.22	8.65	78.57	--	--	--	--	2,900 ³	160	20	15	56	170
10/30/00	87.22	9.08	78.14	--	--	--	--	5,630 ⁴	301	17.8	11.8	51.5	<25.0
02/27/01	87.22	7.30	79.92	--	--	--	--	2,140 ³	95.1	12.8	53.4	43.0	235
05/15/01	87.22	8.15	79.07	--	--	--	--	4,580 ³	200	44.1	46.3	51.7	172
08/23/01	87.22	9.33	77.89	--	--	--	--	2,700	250	44	21	72	130
02/25/02	87.22	7.80	79.42	--	--	--	--	4,100	100	18	27	39	<10
08/05/02	87.22	7.10	80.12	--	--	--	--	4,100	130	18	50	20	<10
02/11/03	87.22	8.12	79.10	--	--	--	--	4,100	100	23	20	51	<50
08/09/03 ⁵	87.22	9.55	77.67	--	--	--	--	3,700	110	24	10	45	8
02/25/04 ⁵	87.22	8.06	79.16	--	--	--	--	5,400	94	28	34	49	5
08/23/04 ⁵	87.22	10.19	77.03	--	--	--	--	5,100	100	26	7	43	5
02/11/05 ⁵	87.22	7.97	79.25	--	--	--	--	3,900	58	16	25	16	2
08/15/05 ⁵	87.22	8.82	78.40	--	--	--	--	2,400	76	16	11	26	3
02/10/06 ⁵	87.22	7.81	79.41	--	--	--	--	1,600	68	16	8	27	4
08/10/06 ⁵	87.22	8.58	78.64	--	--	--	--	2,500	100	19	5	30	3
02/09/07 ⁵	87.22	8.71	78.51	--	--	--	--	6,200	200	39	16	52	3
08/23/07 ⁵	87.22	10.38	76.84	--	--	--	--	5,800	190	48	20	61	3
02/18/08 ⁵	87.22	8.11	79.11	--	--	--	--	4,900	110	24	11	32	2
08/12/08 ⁵	87.22	10.58	76.64	--	--	--	--	6,100	180	31	9	52	3
02/19/09 ⁵	87.22	7.72	79.50	--	--	--	--	2,900	84	20	5	24	2
08/07/09 ⁵	87.22	10.42	76.80	--	--	--	--	4,900	120	34	11	36	2
01/29/10 ⁵	87.22	8.02	79.20	--	--	--	--	3,800	49	15	4	17	1
08/11/10 ⁵	87.22	10.19	77.03	--	--	--	--	5,400	110	36	11	36	1
2/2/2011 ⁵	87.22	8.65	78.57	--	--	--	--	3,800	76	29	16	31	1
01/31/12 ⁵	87.22	9.24	77.98	--	--	--	--	6,700	110	32	7	34	1
02/09/13⁵	87.22	8.14	79.08	300^{6,9}/ <40^{6,7}	300^{6,9}/ <40^{6,7}	<1,400/ 1,900⁷	2,300/ 1,500^{7,8}	1,800	77	17	4	10	0.8

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3900 Piedmont Avenue
Oakland, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TOTAL TPH (µg/L)	TPH-MO (µg/L)	HEM (µg/L)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MtBE (µg/L)
TRIP BLANK													
08/03/98	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
11/23/98	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0
02/08/99	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
05/07/99	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
08/23/99	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
11/03/99	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
02/15/00	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
05/12/00	--	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
07/31/00	--	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
10/30/00	--	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.50	<2.50
02/27/01	--	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.50
05/15/01	--	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.50
08/23/01	--	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
QA													
02/25/02	--	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
08/05/02	--	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
02/11/03	--	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
08/09/03 ⁵	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/25/04 ⁵	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/23/04 ⁵	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/11/05 ⁵	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/15/05 ⁵	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/10/06 ⁵	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/02/06 ⁵	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/09/07 ⁵	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/23/07 ⁵	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/18/08 ⁵	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/12/08 ⁵	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/19/09 ⁵	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/07/09 ⁵	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/09/13⁵	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5

Table 2
Groundwater Monitoring Data and Analytical Results
Former Chevron-branded Service Station 90517
3900 Piedmont Avenue
Oakland, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to May 12, 2000 were compiled from reports prepared by Blaine Tech Services, Inc. Groundwater monitoring data and laboratory analytical results from May 12, 2000 to May 12, 2012 were provided by Gettler-Ryan Inc. Current groundwater monitoring data was provided by Gettler-Ryan Inc. Current laboratory analytical results were provided by Eurofins Lancaster Laboratories.

TOC = Top of Casing (ft.) = Feet	DRO = Diesel Range Organics MO = Motor Oil	E = Ethylbenzene X = Xylenes (sum of m+p and o)
GWE = Groundwater Elevation (msl) = Mean sea level	GRO = Gasoline Range Organics HEM = N-Hexane Extractable Material (oil and grease)	MtBE = Methyl tertiary-butyl ether (µg/L) = Micrograms per liter
DTW = Depth to Water	B = Benzene	-- = Not Measured/Not Analyzed
TPH = Total Petroleum Hydrocarbons	T = Toluene	QA = Quality Assurance/Trip Blank

* TOC elevations are referenced to msl.

¹ Chromatogram pattern indicates gas and an unidentified hydrocarbon.

² Confirmation run.

³ Laboratory report indicates gasoline C₆-C₁₂.

⁴ Laboratory report indicates hydrocarbon pattern present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.

⁵ BTEX and MtBE by EPA Method 8260.

⁶ TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C₈ (n-octane) through C₄₀ (n-tetracontane) normal hydrocarbons.

⁷ Analyzed with silica gel cleanup.

⁸ Laboratory report indicates the reverse surrogate, capric acid, is present at <1%.

⁹ Laboratory report indicates the surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Table 3
Groundwater Analytical Results - Oxygenate Compounds
 Former Chevron-branded Service Station 90517
 3900 Piedmont Avenue
 Oakland, California

WELL ID/ DATE	ETHANOL (µg/L)	TBA (µg/L)	DIPE (µg/L)	EtBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	1,2-DBA (µg/L)
MW-1							
05/10/12	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
02/09/13	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-3							
02/09/13	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-4							
02/09/13	<50	5	<0.5	<0.5	<0.5	<0.5	<0.5

Table 3
Groundwater Analytical Results - Oxygenate Compounds
Former Chevron-branded Service Station 90517
3900 Piedmont Avenue
Oakland, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results on May 12, 2012 were provided by Gettler-Ryan Inc.

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

TBA = Tertiary-Butyl Alcohol

DIPE = Di-Isopropyl Ether

EtBE = Ethyl Tertiary-Butyl Ether

TAME = Tertiary-Amyl Methyl Ether

1,2-DCA = 1,2-Dichloroethane

1,2-DBA = 1,2-Dibromoethane

(µg/L) = Micrograms per liter

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

Table 4
Groundwater Analytical Results - PPL Volatiles
Former Chevron-branded Service Station 90517
3900 Piedmont Avenue
Oakland, California

WELL ID/ DATE	Acetone (µg/L)	2-Butanone (µg/L)	sec-Butyl- benzene (µg/L)	Isopropyl- benzene (µg/L)	Naphth- alene (µg/L)	n-Propyl- benzene (µg/L)	p-Isopropyl- toluene (µg/L)	Diethylphthalate (µg/L)
MW-1								
05/10/12	<6	<3	<1	<1	7	<1	<1	2
02/09/13	<6	<3	<1	<1	<1	<1	<1	--
MW-3								
02/09/13	<6	<3	<1	<1	<1	<1	<1	--
MW-4								
02/09/13	13	5	1	14	<1	7	1	--

Table 4
Groundwater Analytical Results - PPL Volatiles
Former Chevron-branded Service Station 90517
3900 Piedmont Avenue
Oakland, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results on May 12, 2012 were provided by Gettler-Ryan Inc.

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

Only constituents with currently or historically detected concentrations are shown. Complete analytical results for the current monitoring period can be found in Attachment B.

(µg/L) = Micrograms per liter

PPL = priority pollutant list

-- = Not Measured/Not Analyzed

Table 5
Groundwater Analytical Results - Metals
Former Chevron-branded Service Station 90517
3900 Piedmont Avenue
Oakland, California

WELL ID/ DATE	Cadmium (µg/L)	Chromium (µg/L)	Lead (µg/L)	Nickel (µg/L)	Zinc (µg/L)
MW-1					
05/10/12	<0.27	153	92.3	195	154
02/09/13	<0.36	37.7	5.4	42.0	36.1
MW-3					
02/09/13	<0.36	34.6	8.4	40.6	52.1
MW-4					
02/09/13	0.49	54.7	17.5	145	664

EXPLANATIONS:

(µg/L) = Micrograms per liter

ANALYTICAL METHOD:

Metals by EPA Method 6010B

Table 6
Groundwater Analytical Results - PCBs
Former Chevron-branded Service Station 90517
3900 Piedmont Avenue
Oakland, California

WELL ID/ DATE	PCB- 1016 (µg/L)	PCB- 1221 (µg/L)	PCB- 1232 (µg/L)	PCB- 1242 (µg/L)	PCB- 1248 (µg/L)	PCB- 1254 (µg/L)	PCB- 1260 (µg/L)
MW-1							
05/10/12	<0.095	<0.05	<0.19	<0.095	<0.095	<0.095	<0.14

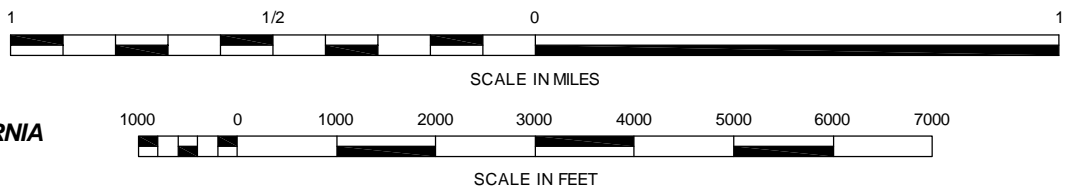
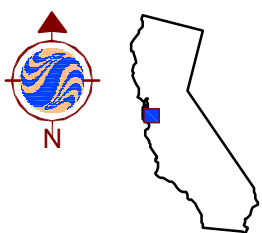
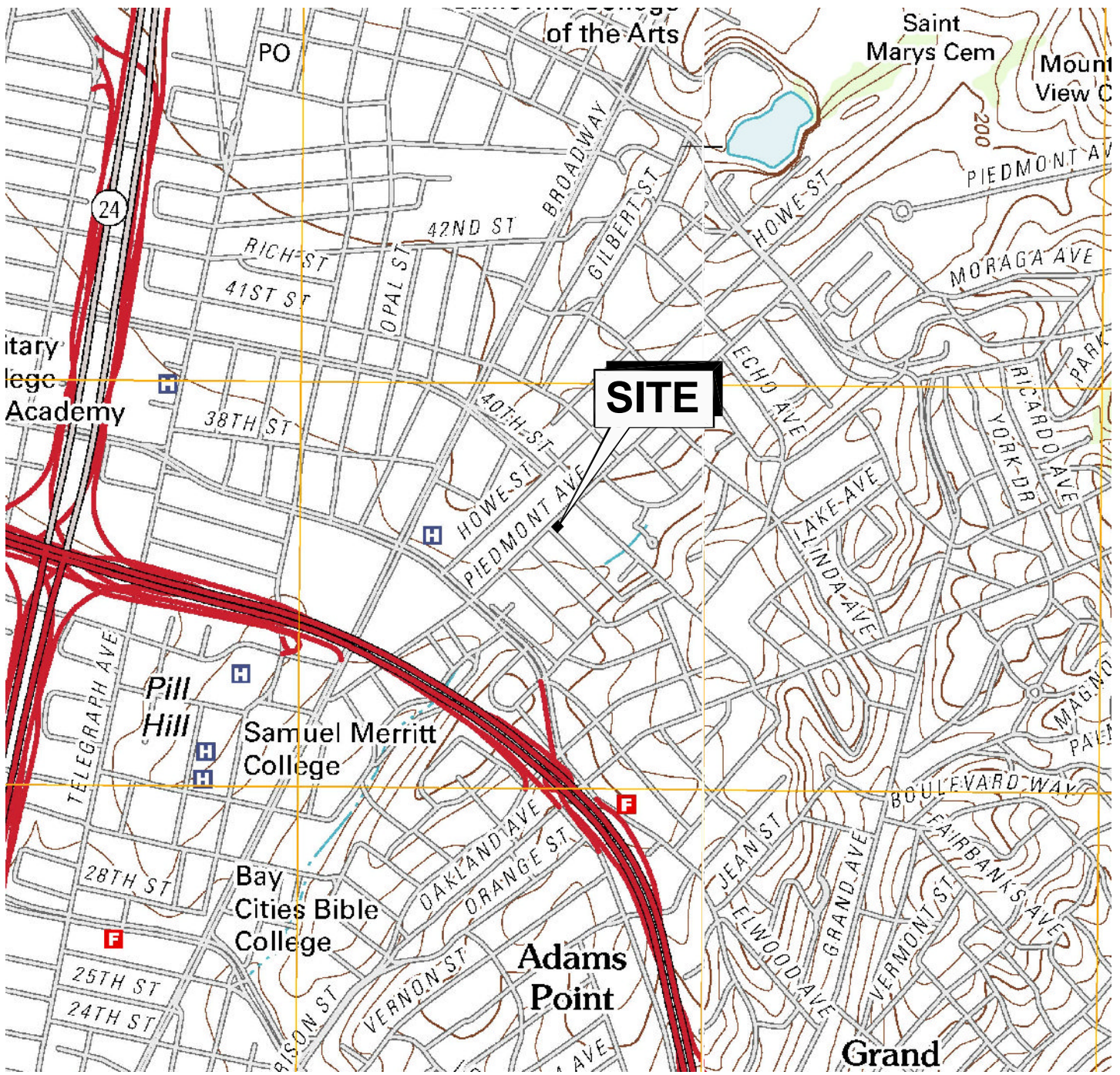
EXPLANATIONS:

(µg/L) = Micrograms per liter
PCB = Polychlorinated Biphenyl


ANALYTICAL METHOD:

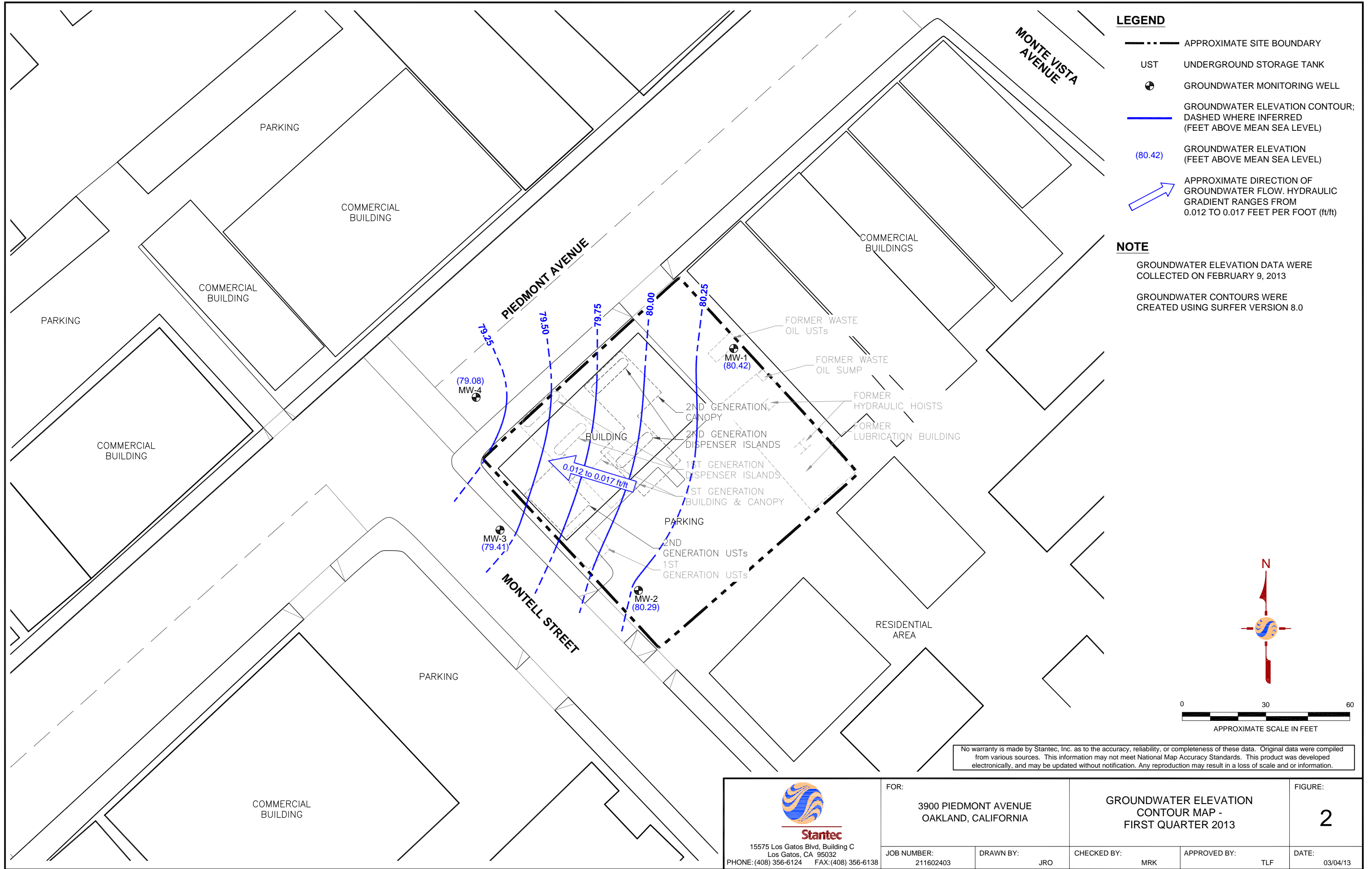
PCBs by EPA Method 8082

Figures




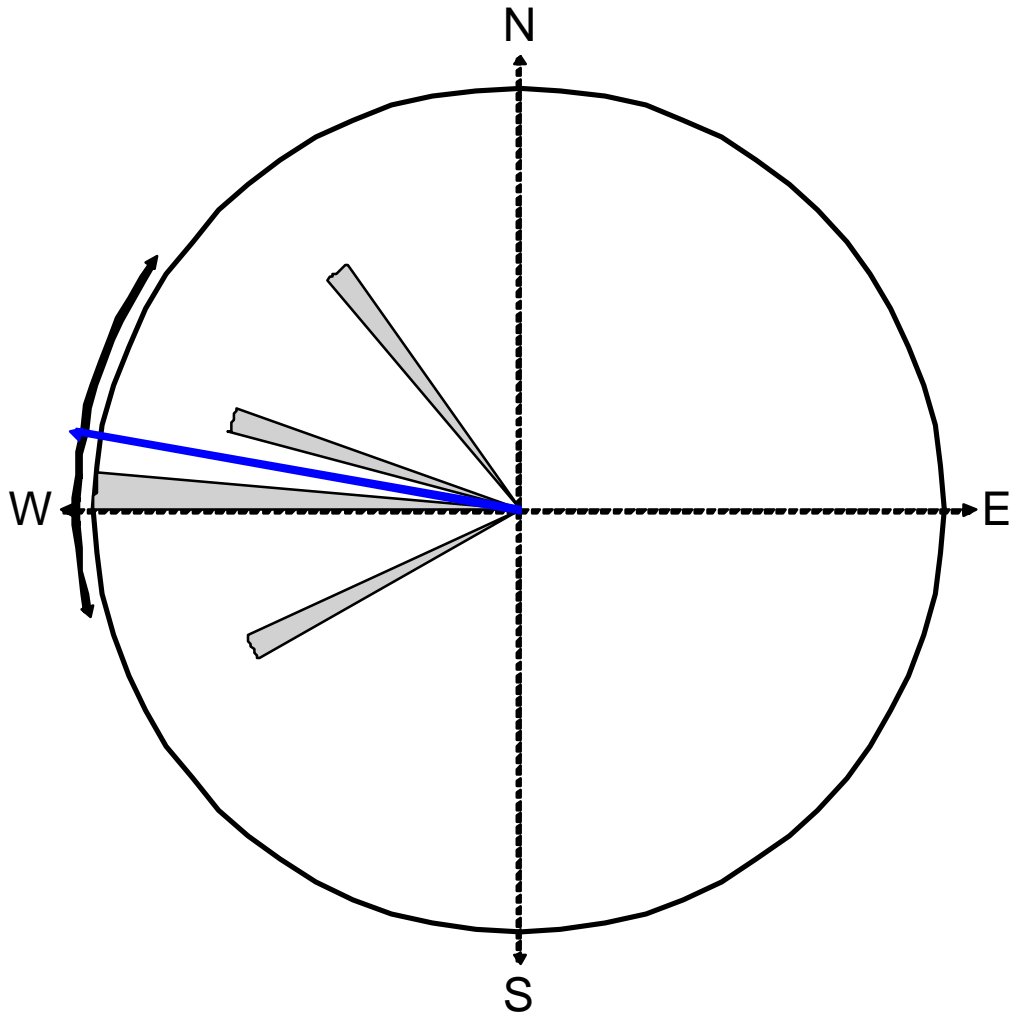
REFERENCE: USGS 7.5 MINUTE QUADRANGLE;
 OAKLAND WEST, CALIFORNIA; 2012 AND OAKLAND EAST, CALIFORNIA; 2012

 15575 Los Gatos Blvd, Building C Los Gatos, CA 95032 PHONE: (408) 356-6124 FAX: (408) 356-6138	FOR: 3900 PIEDMONT AVENUE OAKLAND, CALIFORNIA		SITE LOCATION MAP		FIGURE: 1
	JOB NUMBER: 211602403	DRAWN BY: JRO	CHECKED BY: MRK	APPROVED BY: TLF	DATE: 03/04/13



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 Stantec 15575 Los Gatos Blvd, Building C Los Gatos, CA 95032 PHONE: (408) 356-6124 FAX: (408) 356-6138	FOR:	GROUNDWATER ELEVATION CONTOUR MAP - FIRST QUARTER 2013		FIGURE:		
	3900 PIEDMONT AVENUE OAKLAND, CALIFORNIA	JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
	211602403	JRO	MRK	TLF	03/04/13	2

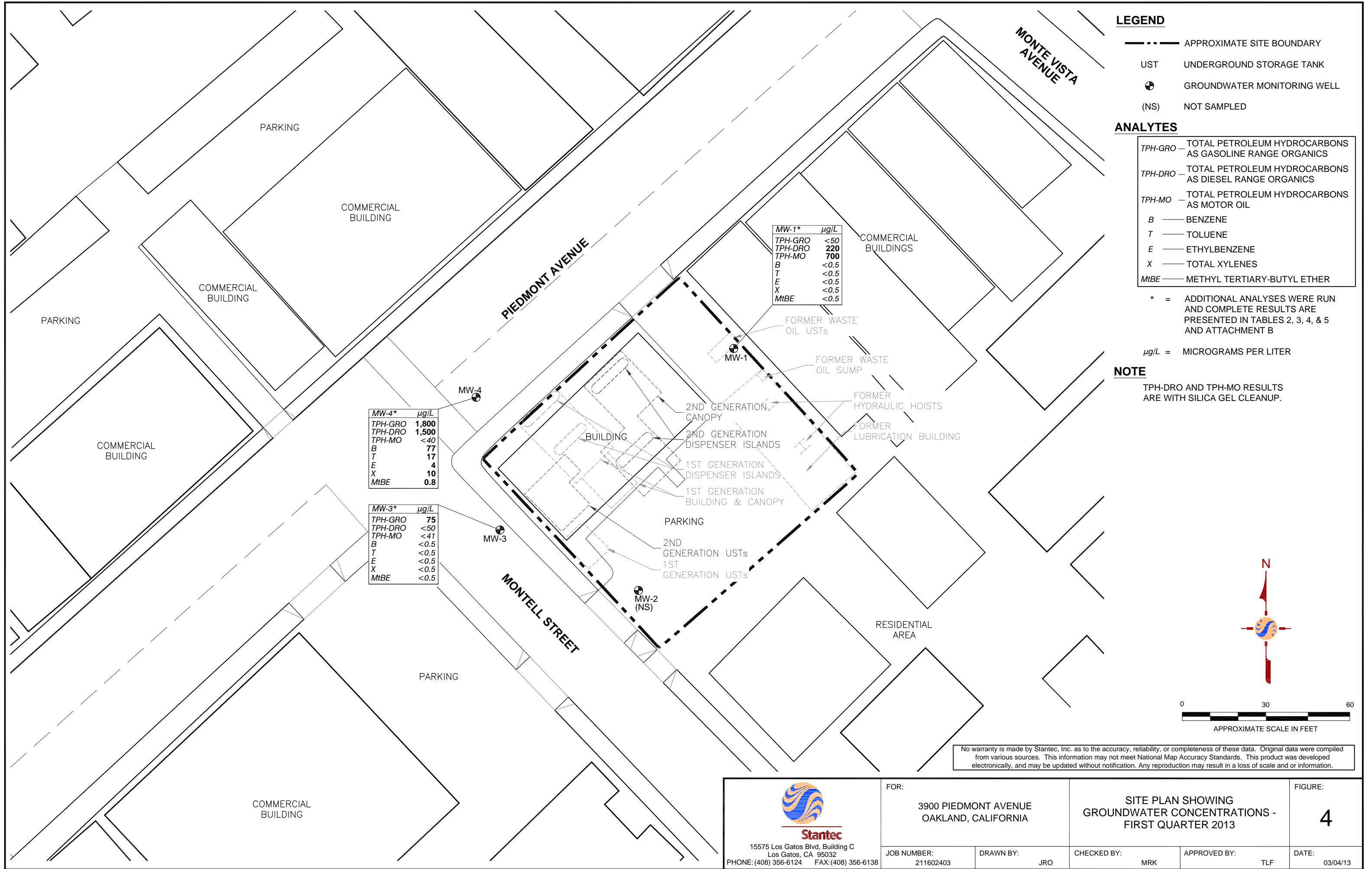


Equal Area Plot

Number of Points 5
 Class Size 5
 Vector Mean 280.11
 Vector Magnitude 4.54
 Consistency Ratio 0.91

NOTE: ROSE DIAGRAM IS BASED ON THE DIRECTION OF GROUNDWATER FLOW BEGINNING FIRST QUARTER 2010.

 Stantec 15575 Los Gatos Blvd, Building C Los Gatos, CA 95032 PHONE: (408) 356-6124 FAX: (408) 356-6138	FOR: 3900 PIEDMONT AVENUE OAKLAND, CALIFORNIA		ROSE DIAGRAM - FIRST QUARTER 2013		FIGURE: 3
	JOB NUMBER: 211602403	DRAWN BY: JRO	CHECKED BY: EEO/MRK	APPROVED BY: TLF	DATE: 03/04/13



LEGEND

- APPROXIMATE SITE BOUNDARY
- UST UNDERGROUND STORAGE TANK
- ⊕ GROUNDWATER MONITORING WELL
- (NS) NOT SAMPLED

ANALYTES

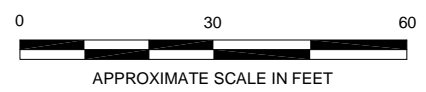
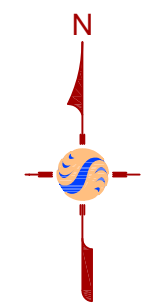
- TPH-GRO — TOTAL PETROLEUM HYDROCARBONS AS GASOLINE RANGE ORGANICS
- TPH-DRO — TOTAL PETROLEUM HYDROCARBONS AS DIESEL RANGE ORGANICS
- TPH-MO — TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
- B — BENZENE
- T — TOLUENE
- E — ETHYLBENZENE
- X — TOTAL XYLENES
- MtBE — METHYL TERTIARY-BUTYL ETHER

* = ADDITIONAL ANALYSES WERE RUN AND COMPLETE RESULTS ARE PRESENTED IN TABLES 2, 3, 4, & 5 AND ATTACHMENT B

µg/L = MICROGRAMS PER LITER

NOTE

TPH-DRO AND TPH-MO RESULTS ARE WITH SILICA GEL CLEANUP.




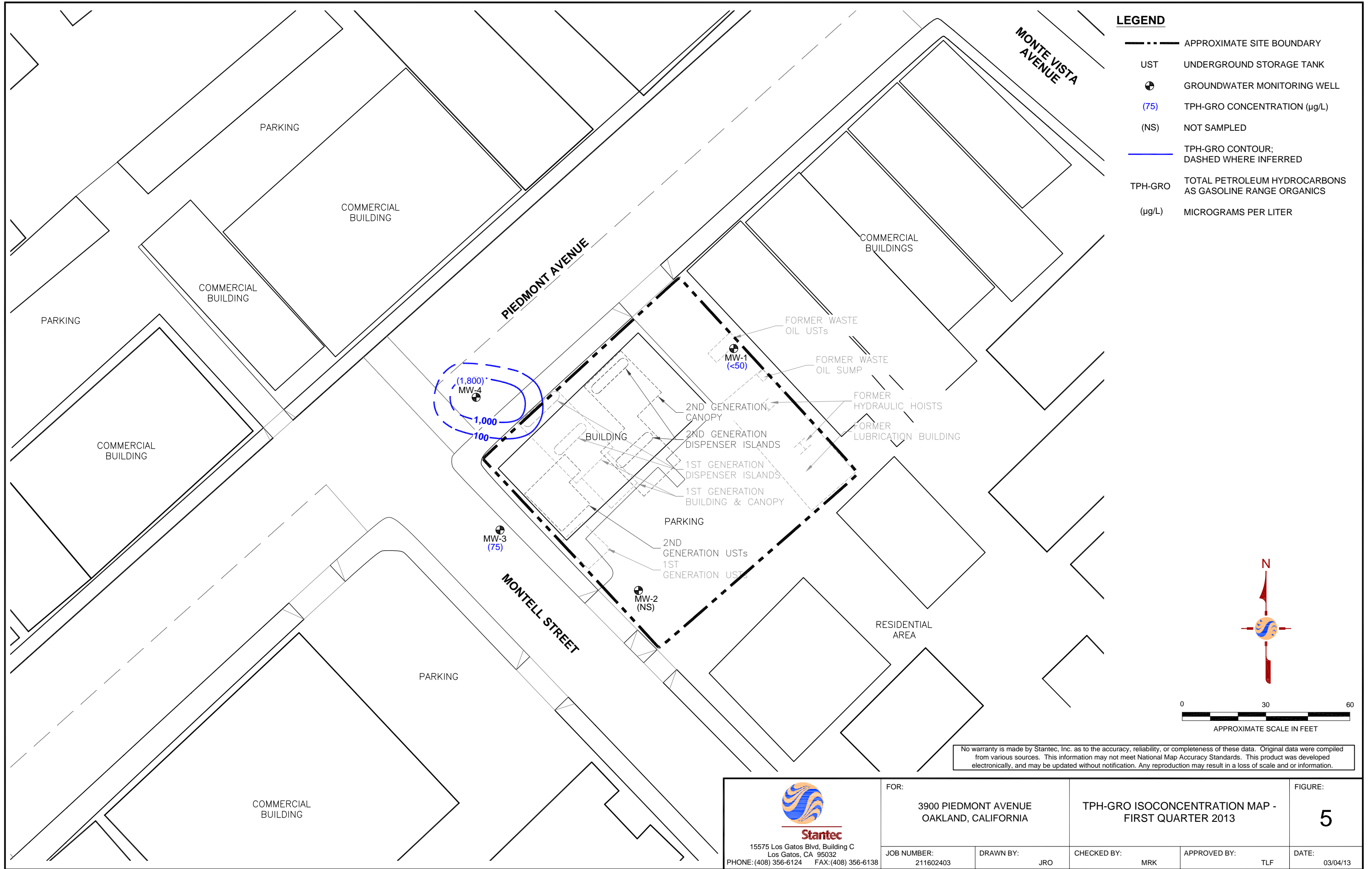
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MW-4*	µg/L
TPH-GRO	1,800
TPH-DRO	1,500
TPH-MO	<40
B	77
T	17
E	4
X	10
MtBE	0.8

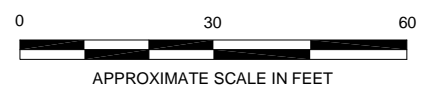
MW-3*	µg/L
TPH-GRO	75
TPH-DRO	<50
TPH-MO	<41
B	<0.5
T	<0.5
E	<0.5
X	<0.5
MtBE	<0.5

MW-1*	µg/L
TPH-GRO	<50
TPH-DRO	220
TPH-MO	700
B	<0.5
T	<0.5
E	<0.5
X	<0.5
MtBE	<0.5


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	JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	
	211602403	JRO	MRK	TLF	03/04/13

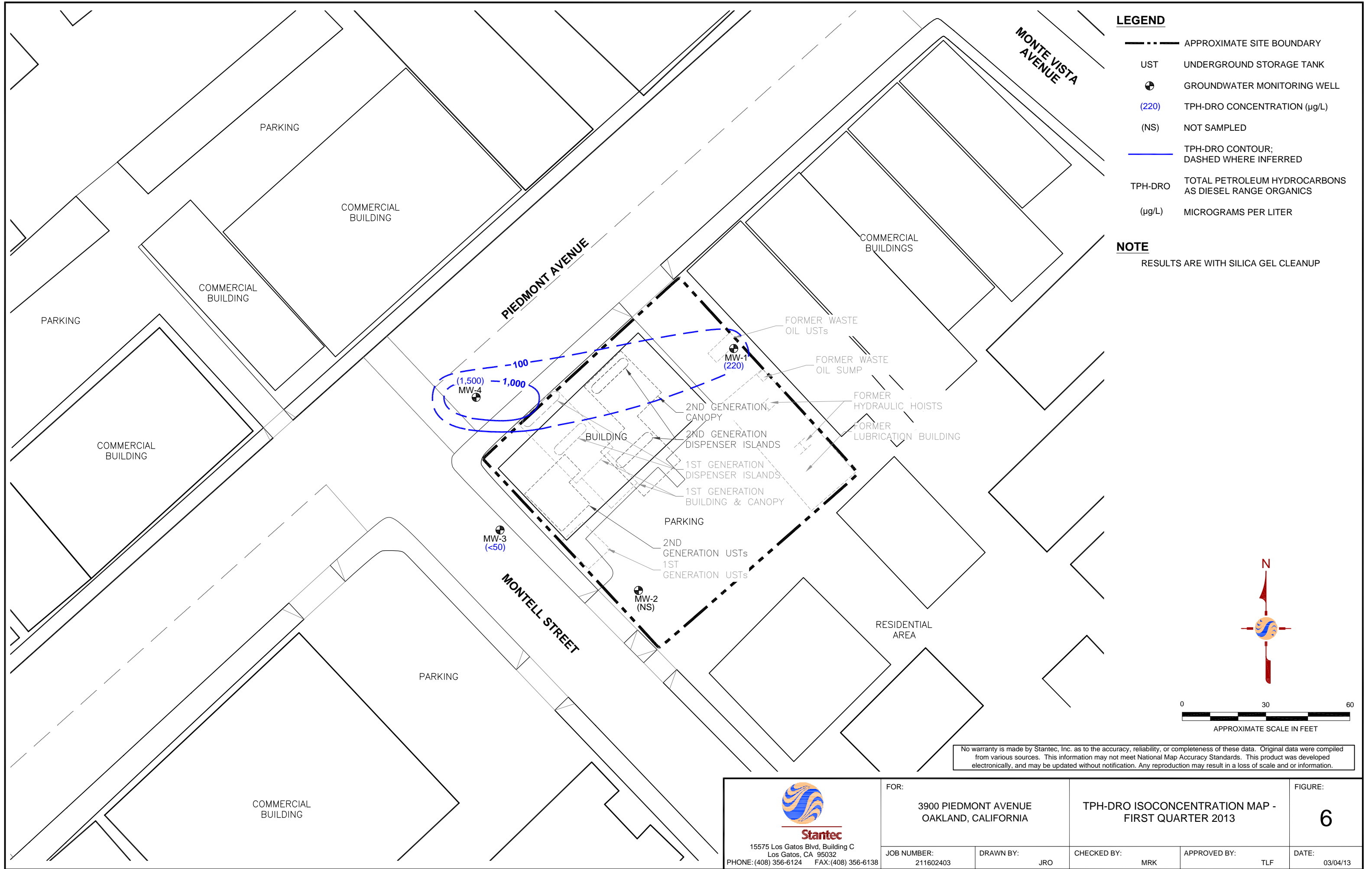


- LEGEND**
- APPROXIMATE SITE BOUNDARY
 - UST UNDERGROUND STORAGE TANK
 - ⊕ GROUNDWATER MONITORING WELL
 - (75) TPH-GRO CONCENTRATION (µg/L)
 - (NS) NOT SAMPLED
 - TPH-GRO CONTOUR; DASHED WHERE INFERRED
 - TPH-GRO TOTAL PETROLEUM HYDROCARBONS AS GASOLINE RANGE ORGANICS (µg/L)
 - MICROGRAMS PER LITER



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 Stantec 15575 Los Gatos Blvd, Building C Los Gatos, CA 95032 PHONE: (408) 356-6124 FAX: (408) 356-6138	FOR:	3900 PIEDMONT AVENUE OAKLAND, CALIFORNIA		FIGURE:	
	JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
	211602403	JRO	MRK	TLF	5 03/04/13

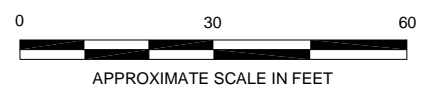
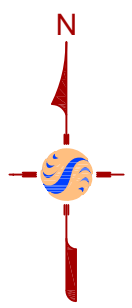


LEGEND


- APPROXIMATE SITE BOUNDARY
- UST UNDERGROUND STORAGE TANK
- ⊕ GROUNDWATER MONITORING WELL
- (220) TPH-DRO CONCENTRATION (µg/L)
- (NS) NOT SAMPLED
- TPH-DRO CONTOUR; DASHED WHERE INFERRED
- TPH-DRO TOTAL PETROLEUM HYDROCARBONS AS DIESEL RANGE ORGANICS (µg/L)
- µg/L MICROGRAMS PER LITER

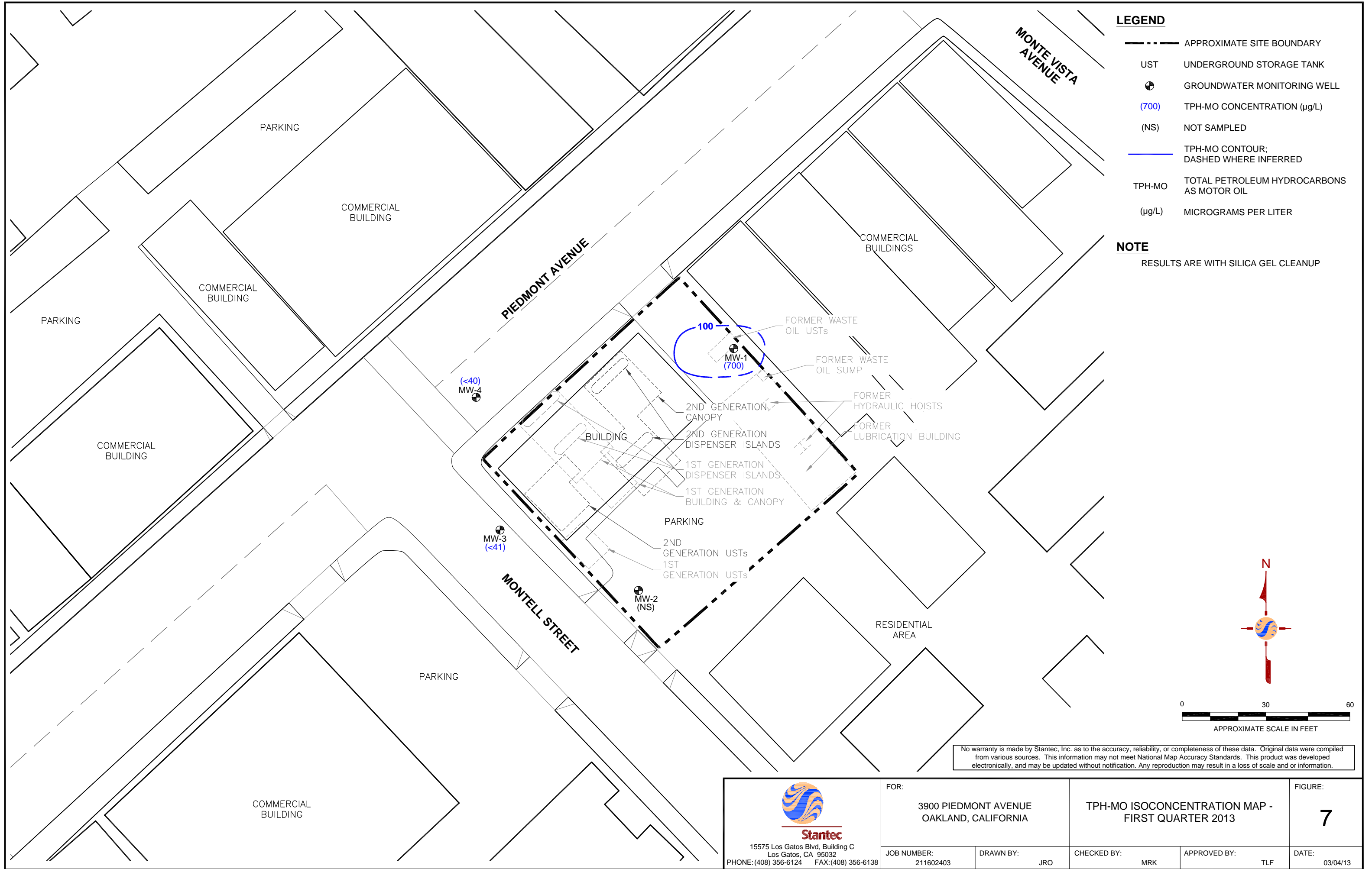
NOTE

RESULTS ARE WITH SILICA GEL CLEANUP



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 Stantec 15575 Los Gatos Blvd, Building C Los Gatos, CA 95032 PHONE: (408) 356-6124 FAX: (408) 356-6138	FOR:	3900 PIEDMONT AVENUE OAKLAND, CALIFORNIA		TPH-DRO ISOCONCENTRATION MAP - FIRST QUARTER 2013		FIGURE:
	JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:	6
	211602403	JRO	MRK	TLF	03/04/13	

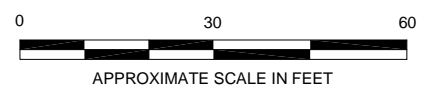
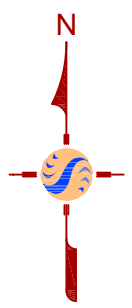


LEGEND


- APPROXIMATE SITE BOUNDARY
- UST UNDERGROUND STORAGE TANK
- ⊕ GROUNDWATER MONITORING WELL
- (700) TPH-MO CONCENTRATION (µg/L)
- (NS) NOT SAMPLED
- TPH-MO CONTOUR; DASHED WHERE INFERRED
- TPH-MO TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
- (µg/L) MICROGRAMS PER LITER

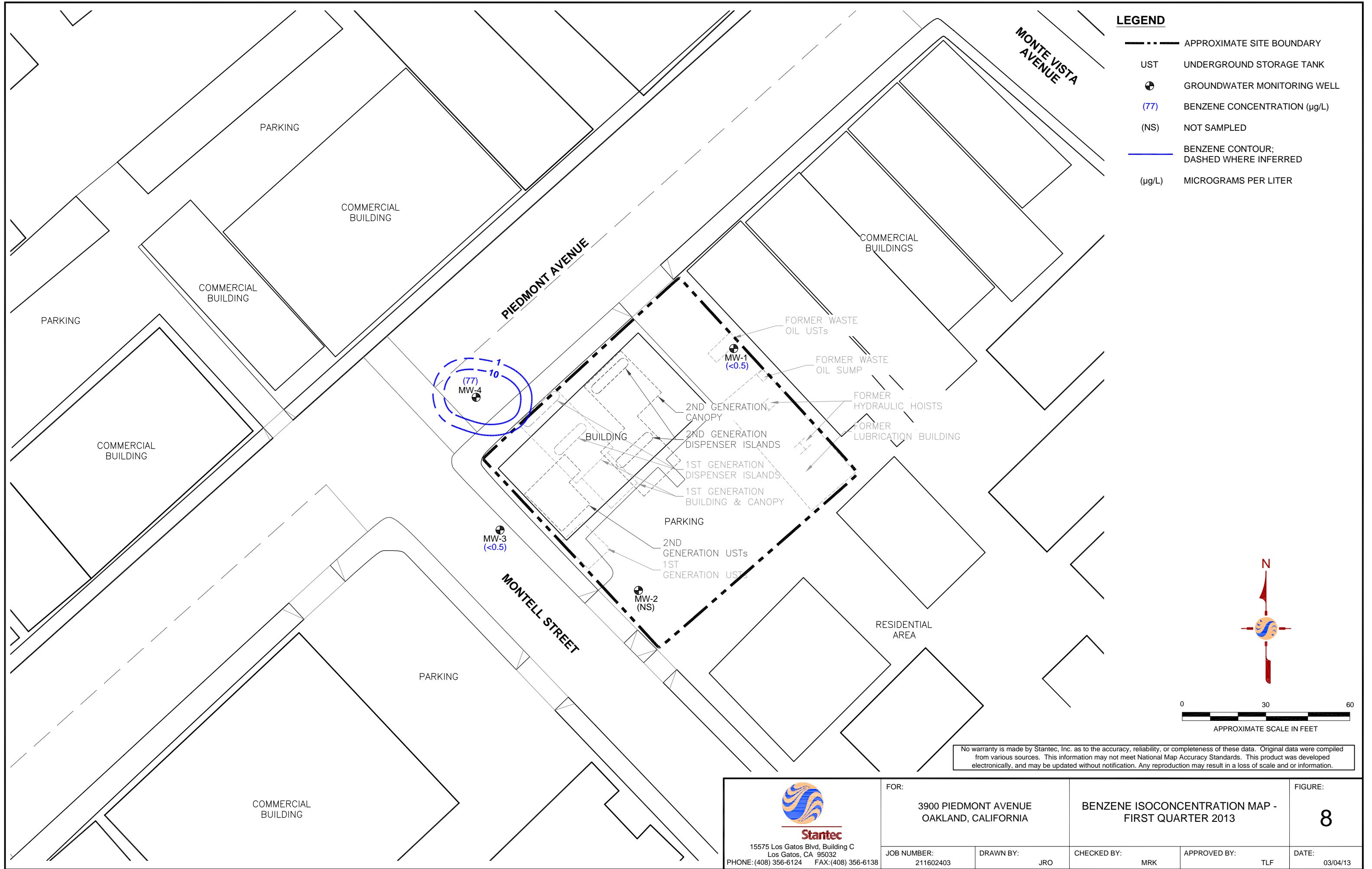
NOTE


RESULTS ARE WITH SILICA GEL CLEANUP



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 Stantec 15575 Los Gatos Blvd, Building C Los Gatos, CA 95032 PHONE: (408) 356-6124 FAX: (408) 356-6138	FOR:		3900 PIEDMONT AVENUE OAKLAND, CALIFORNIA		FIGURE:		7
	JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:		
	211602403	JRO	MRK	TLF			03/04/13



 Stantec 15575 Los Gatos Blvd, Building C Los Gatos, CA 95032 PHONE: (408) 356-6124 FAX: (408) 356-6138	FOR:	3900 PIEDMONT AVENUE OAKLAND, CALIFORNIA		FIGURE:	8
	JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	
	211602403	JRO	MRK	TLF	03/04/13

Attachment A

**Gettler-Ryan, Inc. Field Data Sheets
and Standard Operating Procedures
– First Quarter 2013**



GETTLER-RYAN INC.



TRANSMITTAL

February 21, 2013

G-R #386420

TO: Mr. Travis Flora
Stantec
15575 Los Gatos Blvd., Building C
Los Gatos, California 95032

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6747 Sierra Court, Suite J
Dublin, California 94568

RE: **Former Chevron Service Station
#9-0517
3900 Piedmont Avenue
Oakland, California
RO 0000138**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package Annual Event of February 9, 2013

COMMENTS:

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

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

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

trans/9-0517

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. (GR) field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. All work is performed in accordance with the GR Health & Safety Plan and all client-specific programs. The scope of work and type of analysis to be performed is determined prior to commencing field work.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, peristaltic or Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging (additional parameters such as dissolved oxygen, oxidation reduction potential, turbidity may also be measured, depending on specific scope of work.). Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards, as directed by the scope of work. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Chevron Environmental Management Company, the purge water and decontamination water generated during sampling activities is transported by Clean Harbors Environmental Services to Evergreen Oil located in Newark, California.



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-0517
 Site Address: 3900 Piedmont Avenue
 City: Oakland, CA

Job Number: 386420
 Event Date: 2/9/13 (inclusive)
 Sampler: JH

Well ID: MW-1
 Well Diameter: 2 in.
 Total Depth: 16.62 ft.
 Depth to Water: 7.47 ft.
9.15 xVF = .17 = 1.55

Date Monitored: 2/9/13

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

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.30

x3 case volume = Estimated Purge Volume: 4.66 gal.

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): 1140
 Sample Time/Date: 1215 / 2/9/13
 Approx. Flow Rate: — gpm.
 Did well de-water? no If yes, Time: _____ Volume: _____

Weather Conditions: clear
 Water Color: clear Odor: Y / 0
 Sediment Description: L.H.S
 DTW @ Sampling: 8.12

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - US)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1145</u>	<u>1.5</u>	<u>7.45</u>	<u>569</u>	<u>18.4</u>	_____	_____
<u>1150</u>	<u>3.0</u>	<u>7.39</u>	<u>587</u>	<u>18.2</u>	_____	_____
<u>1155</u>	<u>4.5</u>	<u>7.22</u>	<u>605</u>	<u>18.1</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)/FULL SCAN VOC's (8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN/TPH-DRO(8015)
	3 x 1 liter ambers	YES	NP	LANCASTER	TPH-MO w/sgc COLUMN/TPH-MO(8015)
	1 x 250ml poly	YES	HNO3	LANCASTER	CAM 5 METALS (6010B)
	3 x 1 liter WM glass	YES	HCL	LANCASTER	TOTAL OIL & GREASE (1664A)

COMMENTS:

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



GETTLER-RYAN Inc.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-0517
 Site Address: 3900 Piedmont Avenue
 City: Oakland, CA

Job Number: 386420
 Event Date: 2/9/13 (inclusive)
 Sampler: JH

Well ID: MW-2
 Well Diameter: 2 in.
 Total Depth: 16.50 ft.
 Depth to Water: 5.80 ft.
10.70 xVF = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Date Monitored: 2/9/13

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

Check if water column is less than 0.50 ft.

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

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

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

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

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

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

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)/ FULL SCAN VOC's (8260)
	x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN/TPH-DRO(8015)
	x 1 liter ambers	YES	NP	LANCASTER	TPH-MO w/sgc COLUMN/TPH-MO(8015)
	x 250ml poly	YES	HNO3	LANCASTER	CAM 5 METALS (6010B)
	x 1 liter WM glass	YES	HCL	LANCASTER	TOTAL OIL & GREASE (1664A)

COMMENTS: M/O

Add/Replaced Gasket: _____ Add/Replaced Bolt: 3x 3/8" Add/Replaced Lock: _____ Add/Replaced Plug: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-0517
 Site Address: 3900 Piedmont Avenue
 City: Oakland, CA

Job Number: 386420
 Event Date: 2/9/13 (inclusive)
 Sampler: 3H

Well ID: MW-3
 Well Diameter: 2 in.
 Total Depth: 17.72 ft.
 Depth to Water: 6.87 ft.
10.85 xVF = .17 = 1.84

Date Monitored: 2/9/13

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

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.04

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

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

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

Start Time (purge): 1240 Weather Conditions: clear
 Sample Time/Date: 1325 / 2/9/13 Water Color: cloudy Odor: Y10
 Approx. Flow Rate: _____ gpm. Sediment Description: L.g.H.
 Did well de-water? N If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 7.62

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - US)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1246</u>	<u>2</u>	<u>7.43</u>	<u>628</u>	<u>18.2</u>		
<u>1253</u>	<u>4</u>	<u>7.40</u>	<u>641</u>	<u>18.0</u>		
<u>1300</u>	<u>5.5</u>	<u>7.19</u>	<u>653</u>	<u>17.9</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>6</u> x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)/FULL SCAN VOC's (8260)
	<u>2</u> x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN/TPH-DRO(8015)
	<u>1</u> x 1 liter ambers	YES	NP	LANCASTER	TPH-MO w/sgc COLUMN/TPH-MO(8015)
	<u>1</u> x 250ml poly	YES	HNO3	LANCASTER	CAM 5 METALS (6010B)
	<u>3</u> x 1 liter WM glass	YES	HCL	LANCASTER	TOTAL OIL & GREASE (1664A)

COMMENTS: _____

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



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-0517
 Site Address: 3900 Piedmont Avenue
 City: Oakland, CA

Job Number: 386420
 Event Date: 2/9/13 (inclusive)
 Sampler: JH

Well ID: MW-4
 Well Diameter: 2 in.
 Total Depth: 16.28 ft.
 Depth to Water: 8.14 ft.
8.14 x VF .17 = 1.38

Date Monitored: 2/9/13

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

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.76

x3 case volume = Estimated Purge Volume: 4.15 gal.

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

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

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

Start Time (purge): 1340
 Sample Time/Date: 1415 / 2/9/13
 Approx. Flow Rate: _____ gpm.
 Did well de-water? N If yes, Time: _____

Weather Conditions: Clear
 Water Color: Cloudy Odor: Y1(N)
 Sediment Description: Light
 Volume: _____ gal. DTW @ Sampling: 9.28

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - (S))	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1342</u>	<u>1.5</u>	<u>7.08</u>	<u>568</u>	<u>17.9</u>		
<u>1346</u>	<u>3.0</u>	<u>6.93</u>	<u>594</u>	<u>12.4</u>		
<u>1349</u>	<u>4.0</u>	<u>6.87</u>	<u>605</u>	<u>17.2</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)/ FULL SCAN VOC's (8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN/TPH-DRO(8015)
	2 x 1 liter ambers	YES	NP	LANCASTER	TPH-MO w/sgc COLUMN/TPH-MO(8015)
	1 x 250ml poly	YES	HNO3	LANCASTER	CAM 5 METALS (6010B)
	2 x 1 liter WM glass	YES	HCL	LANCASTER	TOTAL OIL & GREASE (1664A)

COMMENTS: _____

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

Chevron California Region Analysis Request/Chain of Custody



**Lancaster
Laboratories**

02112-05

For Lancaster Laboratories use only

Acct. #: _____ Sample #: _____ Group #: **008045**

Facility #: <u>SS#9-0517-OML G-R#386420 Global ID#T0600102248</u> Site Address: <u>3900 PIEDMONT AVENUE, OAKLAND, CA</u> Chevron PM: <u>CM</u> Lead Consultant: <u>STANTECT Flora</u> Consultant/Office: <u>G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568</u> Consultant Prj. Mgr. <u>Deanna L. Harding (deanna@grinc.com)</u> Consultant Phone #: <u>925-551-7555</u> Fax #: <u>925-551-7899</u> Sampler: <u>Jim Hezzu</u>				Matrix <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Soil <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Air		Analyses Requested										Preservative Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other <input type="checkbox"/> J value reporting needed <input checked="" type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds 8021 MTBE Confirmation <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run ___ oxy's on highest hit <input type="checkbox"/> Run ___ oxy's on all hits																																							
Sample Identification				Total Number of Containers		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;">BTEX + MTBE 8260</th> <th style="width: 10%;">8021</th> <th style="width: 10%;">TPH 8015 MOD GRO</th> <th style="width: 10%;">TPH 8015 MOD DRO</th> <th style="width: 10%;">Silica Gel Cleanup</th> <th style="width: 10%;">8260 full-scan</th> <th style="width: 10%;">TPH-DRO 8015</th> <th style="width: 10%;">TPH-DRO 8015</th> <th style="width: 10%;">TPH-DRO 8015</th> <th style="width: 10%;">TPH-DRO 8015</th> <th style="width: 10%;">TPH-DRO 8015</th> <th style="width: 10%;">TPH-DRO 8015</th> <th style="width: 10%;">TPH-DRO 8015</th> <th style="width: 10%;">TPH-DRO 8015</th> <th style="width: 10%;">TPH-DRO 8015</th> <th style="width: 10%;">TPH-DRO 8015</th> <th style="width: 10%;">TPH-DRO 8015</th> <th style="width: 10%;">TPH-DRO 8015</th> <th style="width: 10%;">TPH-DRO 8015</th> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> </tr> </table>										BTEX + MTBE 8260	8021	TPH 8015 MOD GRO	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 full-scan	TPH-DRO 8015	TPH-DRO 8015	TPH-DRO 8015	TPH-DRO 8015	TPH-DRO 8015	TPH-DRO 8015	TPH-DRO 8015	TPH-DRO 8015	TPH-DRO 8015	TPH-DRO 8015	TPH-DRO 8015	TPH-DRO 8015	TPH-DRO 8015	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Comments / Remarks amend total number of containers to 15 RM 2/19	
BTEX + MTBE 8260	8021	TPH 8015 MOD GRO	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 full-scan	TPH-DRO 8015	TPH-DRO 8015	TPH-DRO 8015	TPH-DRO 8015	TPH-DRO 8015	TPH-DRO 8015	TPH-DRO 8015	TPH-DRO 8015	TPH-DRO 8015	TPH-DRO 8015	TPH-DRO 8015	TPH-DRO 8015	TPH-DRO 8015																																					
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X																																					
Turnaround Time Requested (TAT) (please circle) STD. TAT 72 hour 48 hour 24 hour 4 day 5 day				Relinquished by: _____ Date: <u>2/19/13</u> Time: <u>1730</u>				Received by: <u>GUTTLER-RYAN FRIDSE</u> Date: <u>02-11-13</u> Time: <u>1730</u>				Relinquished by: _____ Date: <u>02-11-13</u> Time: <u>1225</u>				Received by: _____ Date: <u>2/11/13</u> Time: <u>1225</u>																																							
Data Package Options (please circle if required) QC Summary Type I - Full Type VI (Raw Data) <input type="checkbox"/> Coelt Deliverable not needed WIP (RWQCB) Disk				Relinquished by Commercial Carrier: UPS FedEx Other _____				Received by: _____ Date: _____ Time: _____				Temperature Upon Receipt _____ °C Custody Seals Intact? Yes No																																											

Attachment B

Certified Laboratory Analysis Reports and Chain-of-Custody Documents

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

February 25, 2013

Project: 90517

Submittal Date: 02/12/2013
Group Number: 1368354
PO Number: 0015118372
Release Number: MACLEOD
State of Sample Origin: CA

Client Sample Description

QA-T-130209 NA Water
MW-1-W-130209 Grab Water
MW-3-W-130209 Grab Water
MW-4-W-130209 Grab Water

Lancaster Labs (LLI)

6951090
6951091
6951092
6951093

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

ELECTRONIC COPY TO	Stantec c/o Gettler-Ryan	Attn: Rachelle Munoz
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,



Jill M. Parker
Senior Specialist

(717) 556-7262

Sample Description: QA-T-130209 NA Water
 Facility# 90517 Job# 386420 GRD
 3900 Piedmont Ave-Oakland T0600102248 QA

LLI Sample # WW 6951090
 LLI Group # 1368354
 Account # 10906

Project Name: 90517

Collected: 02/09/2013

Chevron

Submitted: 02/12/2013 18:45

6001 Bollinger Canyon Rd L4310

Reported: 02/25/2013 10:16

San Ramon CA 94583

PAOQA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles SW-846 8015B			ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	D130492AA	02/18/2013 13:18	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D130492AA	02/18/2013 13:18	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13045A20A	02/15/2013 12:16	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13045A20A	02/15/2013 12:16	Catherine J Schwarz	1

Sample Description: **MW-1-W-130209 Grab Water**
 Facility# 90517 Job# 386420 GRD
 3900 Piedmont Ave-Oakland T0600102248 MW-1

LLI Sample # **WW 6951091**
 LLI Group # **1368354**
 Account # **10906**

Project Name: 90517

Collected: 02/09/2013 12:15 by JH

Chevron

6001 Bollinger Canyon Rd L4310

Submitted: 02/12/2013 18:45

San Ramon CA 94583

Reported: 02/25/2013 10:16

PAO01

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	
10335	Acetone	67-64-1	N.D.	6	1
10335	t-Amyl methyl ether	994-05-8	N.D.	0.5	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	t-Butyl alcohol	75-65-0	N.D.	5	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	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	Dichlorodifluoromethane	75-71-8	N.D.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethanol	64-17-5	N.D.	50	1
10335	Ethyl t-butyl ether	637-92-3	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	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	di-Isopropyl ether	108-20-3	N.D.	0.5	1

Sample Description: **MW-1-W-130209 Grab Water**
 Facility# 90517 Job# 386420 GRD
 3900 Piedmont Ave-Oakland T0600102248 MW-1

LLI Sample # **WW 6951091**
 LLI Group # **1368354**
 Account # **10906**

Project Name: 90517

Collected: 02/09/2013 12:15 by JH

Chevron

6001 Bollinger Canyon Rd L4310

Submitted: 02/12/2013 18:45

San Ramon CA 94583

Reported: 02/25/2013 10:16

PAO01

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	
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
GC Volatiles SW-846 8015B			ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1
GC Petroleum SW-846 8015B			ug/l	ug/l	
Hydrocarbons					
06609	TPH-DRO CA C10-C28	n.a.	650	50	1
GC Petroleum SW-846 8015B modified			ug/l	ug/l	
Hydrocarbons					
02500	Total TPH	n.a.	1,400	40	1
02500	TPH Motor Oil C16-C36	n.a.	1,400	40	1
TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons.					
GC Petroleum SW-846 8015B			ug/l	ug/l	
Hydrocarbons w/Si					
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	220	50	1
The reverse surrogate, capric acid, is present at <1%.					
GC Petroleum SW-846 8015B modified			ug/l	ug/l	
Hydrocarbons w/Si					

Sample Description: MW-1-W-130209 Grab Water
Facility# 90517 **Job#** 386420 GRD
 3900 Piedmont Ave-Oakland T0600102248 MW-1

LLI Sample # WW 6951091
LLI Group # 1368354
Account # 10906

Project Name: 90517

Collected: 02/09/2013 12:15 by JH

Chevron

6001 Bollinger Canyon Rd L4310

Submitted: 02/12/2013 18:45

San Ramon CA 94583

Reported: 02/25/2013 10:16

PAO01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Petroleum SW-846 8015B modified			ug/l	ug/l	
Hydrocarbons w/Si					
10006	Motor Oil C16-C36 w/Si Gel	n.a.	700	40	1
10006	Total TPH w/Si Gel	n.a.	700	40	1
TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons. The reverse surrogate, capric acid, is present at <1%.					
Metals SW-846 6010B			ug/l	ug/l	
07049	Cadmium	7440-43-9	N.D.	0.36	1
07051	Chromium	7440-47-3	37.7	1.1	1
07055	Lead	7439-92-1	5.4	5.1	1
07061	Nickel	7440-02-0	42.0	1.1	1
07072	Zinc	7440-66-6	36.1	2.0	1
Wet Chemistry EPA 1664A			ug/l	ug/l	
08079	HEM (oil & grease)	n.a.	1,600	1,400	1
08078	SGT-HEM (TPH)	n.a.	2,400	1,400	1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Full List w/ Sep. Xylenes	SW-846 8260B	1	W130491AA	02/18/2013 12:20	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W130491AA	02/18/2013 12:20	Linda C Pape	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13045A20A	02/15/2013 18:08	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13045A20A	02/15/2013 18:08	Catherine J Schwarz	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	130440006A	02/21/2013 03:19	Elizabeth J Marin	1
02500	TPH Fuels by GC (Waters)	SW-846 8015B modified	1	130440015A	02/17/2013 09:36	Heather E Williams	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	130440007A	02/22/2013 11:36	Elizabeth J Marin	1
10006	TPH Fuels water w/Si Gel	SW-846 8015B modified	1	130440016A	02/19/2013 22:27	Heather E Williams	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	130440006A	02/13/2013 17:00	Seth A Farrier	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	130440007A	02/13/2013 17:00	Seth A Farrier	1

Sample Description: MW-1-W-130209 Grab Water
 Facility# 90517 Job# 386420 GRD
 3900 Piedmont Ave-Oakland T0600102248 MW-1

LLI Sample # WW 6951091
 LLI Group # 1368354
 Account # 10906

Project Name: 90517

Collected: 02/09/2013 12:15 by JH

Chevron

6001 Bollinger Canyon Rd L4310

Submitted: 02/12/2013 18:45

San Ramon CA 94583

Reported: 02/25/2013 10:16

PAO01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11191	TPH Fuels Waters Extraction	SW-846 3510C	1	130440015A	02/14/2013 21:00	Karen L Beyer	1
11195	TPH w/ Silica Gel Waters Ext.	SW-846 3510C	1	130440016A	02/14/2013 21:00	Karen L Beyer	1
07049	Cadmium	SW-846 6010B	1	130451848001	02/15/2013 18:31	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	130451848001	02/15/2013 18:31	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	130451848001	02/15/2013 18:31	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	130451848001	02/15/2013 18:31	Katlin N Cataldi	1
07072	Zinc	SW-846 6010B	1	130451848001	02/15/2013 18:31	Katlin N Cataldi	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130451848001	02/15/2013 09:01	James L Mertz	1
08079	HEM (oil & grease)	EPA 1664A	1	13045807901A	02/14/2013 08:27	Yolunder Y Bunch	1
08078	SGT-HEM (TPH)	EPA 1664A	1	13045807801A	02/14/2013 08:36	Yolunder Y Bunch	1

Sample Description: **MW-3-W-130209 Grab Water**
 Facility# 90517 Job# 386420 GRD
 3900 Piedmont Ave-Oakland T0600102248 MW-3

LLI Sample # **WW 6951092**
 LLI Group # **1368354**
 Account # **10906**

Project Name: 90517

Collected: 02/09/2013 13:25 by JH

Chevron

6001 Bollinger Canyon Rd L4310

Submitted: 02/12/2013 18:45

San Ramon CA 94583

Reported: 02/25/2013 10:16

PAO03

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	
10335	Acetone	67-64-1	N.D.	6	1
10335	t-Amyl methyl ether	994-05-8	N.D.	0.5	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	t-Butyl alcohol	75-65-0	N.D.	5	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	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	Dichlorodifluoromethane	75-71-8	N.D.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethanol	64-17-5	N.D.	50	1
10335	Ethyl t-butyl ether	637-92-3	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	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	di-Isopropyl ether	108-20-3	N.D.	0.5	1

Sample Description: **MW-3-W-130209 Grab Water**
 Facility# 90517 Job# 386420 GRD
 3900 Piedmont Ave-Oakland T0600102248 MW-3

LLI Sample # WW 6951092
 LLI Group # 1368354
 Account # 10906

Project Name: 90517

Collected: 02/09/2013 13:25 by JH

Chevron

6001 Bollinger Canyon Rd L4310

Submitted: 02/12/2013 18:45

San Ramon CA 94583

Reported: 02/25/2013 10:16

PAO03

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	
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
GC Volatiles SW-846 8015B			ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	75	50	1
GC Petroleum SW-846 8015B			ug/l	ug/l	
Hydrocarbons					
06609	TPH-DRO CA C10-C28	n.a.	120	50	1
GC Petroleum SW-846 8015B modified			ug/l	ug/l	
Hydrocarbons					
02500	Total TPH	n.a.	86	41	1
02500	TPH Motor Oil C16-C36	n.a.	86	41	1
TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons.					
GC Petroleum SW-846 8015B			ug/l	ug/l	
Hydrocarbons w/Si					
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	1
The reverse surrogate, capric acid, is present at <1%.					
GC Petroleum SW-846 8015B modified			ug/l	ug/l	
Hydrocarbons w/Si					

Sample Description: MW-3-W-130209 Grab Water
Facility# 90517 **Job#** 386420 GRD
 3900 Piedmont Ave-Oakland T0600102248 MW-3

LLI Sample # WW 6951092
LLI Group # 1368354
Account # 10906

Project Name: 90517

Collected: 02/09/2013 13:25 by JH

Chevron

6001 Bollinger Canyon Rd L4310

Submitted: 02/12/2013 18:45

San Ramon CA 94583

Reported: 02/25/2013 10:16

PAO03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Petroleum SW-846 8015B modified			ug/l	ug/l	
Hydrocarbons w/Si					
10006	Motor Oil C16-C36 w/Si Gel	n.a.	N.D.	41	1
10006	Total TPH w/Si Gel	n.a.	N.D.	41	1
TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons. The reverse surrogate, capric acid, is present at <1%.					
Metals SW-846 6010B			ug/l	ug/l	
07049	Cadmium	7440-43-9	N.D.	0.36	1
07051	Chromium	7440-47-3	34.6	1.1	1
07055	Lead	7439-92-1	8.4	5.1	1
07061	Nickel	7440-02-0	40.6	1.1	1
07072	Zinc	7440-66-6	52.1	2.0	1
Wet Chemistry EPA 1664A			ug/l	ug/l	
08079	HEM (oil & grease)	n.a.	N.D.	1,400	1
08078	SGT-HEM (TPH)	n.a.	2,400	1,400	1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Full List w/ Sep. Xylenes	SW-846 8260B	1	W130491AA	02/18/2013 12:45	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W130491AA	02/18/2013 12:45	Linda C Pape	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13045A20A	02/15/2013 18:30	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13045A20A	02/15/2013 18:30	Catherine J Schwarz	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	130440006A	02/21/2013 03:42	Elizabeth J Marin	1
02500	TPH Fuels by GC (Waters)	SW-846 8015B modified	1	130440015A	02/17/2013 09:57	Heather E Williams	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	130440007A	02/22/2013 11:59	Elizabeth J Marin	1
10006	TPH Fuels water w/Si Gel	SW-846 8015B modified	1	130440016A	02/19/2013 22:48	Heather E Williams	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	130440006A	02/13/2013 17:00	Seth A Farrier	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	130440007A	02/13/2013 17:00	Seth A Farrier	1

Sample Description: MW-3-W-130209 Grab Water
Facility# 90517 **Job#** 386420 GRD
 3900 Piedmont Ave-Oakland T0600102248 MW-3

LLI Sample # WW 6951092
LLI Group # 1368354
Account # 10906

Project Name: 90517

Collected: 02/09/2013 13:25 by JH

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/12/2013 18:45

Reported: 02/25/2013 10:16

PAO03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11191	TPH Fuels Waters Extraction	SW-846 3510C	1	130440015A	02/14/2013 21:00	Karen L Beyer	1
11195	TPH w/ Silica Gel Waters Ext.	SW-846 3510C	1	130440016A	02/14/2013 21:00	Karen L Beyer	1
07049	Cadmium	SW-846 6010B	1	130451848001	02/15/2013 18:35	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	130451848001	02/15/2013 18:35	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	130451848001	02/15/2013 18:35	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	130451848001	02/15/2013 18:35	Katlin N Cataldi	1
07072	Zinc	SW-846 6010B	1	130451848001	02/15/2013 18:35	Katlin N Cataldi	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130451848001	02/15/2013 09:01	James L Mertz	1
08079	HEM (oil & grease)	EPA 1664A	1	13045807901A	02/14/2013 08:27	Yolunder Y Bunch	1
08078	SGT-HEM (TPH)	EPA 1664A	1	13045807801A	02/14/2013 08:36	Yolunder Y Bunch	1

Sample Description: **MW-4-W-130209 Grab Water**
 Facility# 90517 Job# 386420 GRD
 3900 Piedmont Ave-Oakland T0600102248 MW-4

LLI Sample # WW 6951093
 LLI Group # 1368354
 Account # 10906

Project Name: 90517

Collected: 02/09/2013 14:15 by JH

Chevron

6001 Bollinger Canyon Rd L4310

Submitted: 02/12/2013 18:45

San Ramon CA 94583

Reported: 02/25/2013 10:16

PAO04

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	
10335	Acetone	67-64-1	13	6	1
10335	t-Amyl methyl ether	994-05-8	N.D.	0.5	1
10335	Benzene	71-43-2	77	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	2-Butanone	78-93-3	5	3	1
10335	t-Butyl alcohol	75-65-0	5	5	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	1	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	1	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	Dichlorodifluoromethane	75-71-8	N.D.	2	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethanol	64-17-5	N.D.	50	1
10335	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	4	0.5	1
10335	Freon 113	76-13-1	N.D.	2	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	di-Isopropyl ether	108-20-3	N.D.	0.5	1

Sample Description: **MW-4-W-130209 Grab Water**
 Facility# 90517 Job# 386420 GRD
 3900 Piedmont Ave-Oakland T0600102248 MW-4

LLI Sample # WW 6951093
 LLI Group # 1368354
 Account # 10906

Project Name: 90517

Collected: 02/09/2013 14:15 by JH

Chevron

6001 Bollinger Canyon Rd L4310

Submitted: 02/12/2013 18:45

San Ramon CA 94583

Reported: 02/25/2013 10:16

PAO04

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	
10335	Isopropylbenzene	98-82-8	14	1	1
10335	p-Isopropyltoluene	99-87-6	1	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	0.8	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	7	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	17	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	m+p-Xylene	179601-23-1	9	0.5	1
10335	o-Xylene	95-47-6	1	0.5	1
GC Volatiles SW-846 8015B			ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	1,800	50	1
GC Petroleum SW-846 8015B			ug/l	ug/l	
Hydrocarbons					
06609	TPH-DRO CA C10-C28	n.a.	2,300	50	1
GC Petroleum SW-846 8015B modified			ug/l	ug/l	
Hydrocarbons					
02500	Total TPH	n.a.	300	40	1
02500	TPH Motor Oil C16-C36	n.a.	300	40	1
TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.					
GC Petroleum SW-846 8015B			ug/l	ug/l	
Hydrocarbons w/Si					
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	1,500	50	1
The reverse surrogate, capric acid, is present at <1%.					

Sample Description: MW-4-W-130209 Grab Water
Facility# 90517 **Job#** 386420 GRD
 3900 Piedmont Ave-Oakland T0600102248 MW-4

LLI Sample # WW 6951093
LLI Group # 1368354
Account # 10906

Project Name: 90517

Collected: 02/09/2013 14:15 by JH

Chevron

6001 Bollinger Canyon Rd L4310

Submitted: 02/12/2013 18:45

San Ramon CA 94583

Reported: 02/25/2013 10:16

PAO04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Petroleum			SW-846 8015B modified	ug/l	
Hydrocarbons w/Si					
10006	Motor Oil C16-C36 w/Si Gel	n.a.	N.D.	40	1
10006	Total TPH w/Si Gel	n.a.	N.D.	40	1
TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons.					
Metals			SW-846 6010B	ug/l	
07049	Cadmium	7440-43-9	0.49	0.36	1
07051	Chromium	7440-47-3	54.7	1.1	1
07055	Lead	7439-92-1	17.5	5.1	1
07061	Nickel	7440-02-0	145	1.1	1
07072	Zinc	7440-66-6	664	2.0	1
Wet Chemistry			EPA 1664A	ug/l	
08079	HEM (oil & grease)	n.a.	N.D.	1,400	1
08078	SGT-HEM (TPH)	n.a.	1,900	1,400	1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Full List w/ Sep. Xylenes	SW-846 8260B	1	W130491AA	02/18/2013 13:09	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W130491AA	02/18/2013 13:09	Linda C Pape	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13045A20A	02/15/2013 18:52	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13045A20A	02/15/2013 18:52	Catherine J Schwarz	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	130440006A	02/21/2013 04:28	Elizabeth J Marin	1
02500	TPH Fuels by GC (Waters)	SW-846 8015B modified	1	130460008A	02/17/2013 02:00	Heather E Williams	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	130440007A	02/22/2013 12:22	Elizabeth J Marin	1
10006	TPH Fuels water w/Si Gel	SW-846 8015B modified	1	130460009A	02/20/2013 02:36	Heather E Williams	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	130440006A	02/13/2013 17:00	Seth A Farrier	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	130440007A	02/13/2013 17:00	Seth A Farrier	1
11191	TPH Fuels Waters Extraction	SW-846 3510C	1	130460008A	02/15/2013 16:30	Seth A Farrier	1

Sample Description: MW-4-W-130209 Grab Water
 Facility# 90517 Job# 386420 GRD
 3900 Piedmont Ave-Oakland T0600102248 MW-4

LLI Sample # WW 6951093
 LLI Group # 1368354
 Account # 10906

Project Name: 90517

Collected: 02/09/2013 14:15 by JH

Chevron

6001 Bollinger Canyon Rd L4310

Submitted: 02/12/2013 18:45

San Ramon CA 94583

Reported: 02/25/2013 10:16

PAO04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11195	TPH w/ Silica Gel Waters Ext.	SW-846 3510C	1	130460009A	02/15/2013 16:30	Seth A Farrier	1
07049	Cadmium	SW-846 6010B	1	130451848001	02/15/2013 18:39	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	130451848001	02/15/2013 18:39	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	130451848001	02/15/2013 18:39	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	130451848001	02/15/2013 18:39	Katlin N Cataldi	1
07072	Zinc	SW-846 6010B	1	130451848001	02/15/2013 18:39	Katlin N Cataldi	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130451848001	02/15/2013 09:01	James L Mertz	1
08079	HEM (oil & grease)	EPA 1664A	1	13045807901A	02/14/2013 08:27	Yolunder Y Bunch	1
08078	SGT-HEM (TPH)	EPA 1664A	1	13045807801A	02/14/2013 08:36	Yolunder Y Bunch	1

Quality Control Summary

Client Name: Chevron
Reported: 02/25/13 at 10:16 AM

Group Number: 1368354

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: D130492AA	Sample number(s): 6951090							
Benzene	N.D.	0.5	ug/l	93		77-121		
Ethylbenzene	N.D.	0.5	ug/l	98		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	92		68-121		
Toluene	N.D.	0.5	ug/l	97		79-120		
Xylene (Total)	N.D.	0.5	ug/l	104		77-120		
Batch number: W130491AA	Sample number(s): 6951091-6951093							
Acetone	N.D.	6.	ug/l	96	106	49-234	10	30
t-Amyl methyl ether	N.D.	0.5	ug/l	90	99	66-120	9	30
Benzene	N.D.	0.5	ug/l	94	103	77-121	9	30
Bromobenzene	N.D.	1.	ug/l	95	103	80-120	8	30
Bromochloromethane	N.D.	1.	ug/l	95	107	80-121	12	30
Bromodichloromethane	N.D.	1.	ug/l	91	102	73-120	11	30
Bromoform	N.D.	1.	ug/l	88	95	61-120	8	30
Bromomethane	N.D.	1.	ug/l	68	75	51-120	9	30
2-Butanone	N.D.	3.	ug/l	91	99	57-141	8	30
t-Butyl alcohol	N.D.	5.	ug/l	97	101	75-120	4	30
n-Butylbenzene	N.D.	1.	ug/l	89	99	73-130	10	30
sec-Butylbenzene	N.D.	1.	ug/l	91	101	74-124	11	30
tert-Butylbenzene	N.D.	1.	ug/l	92	102	80-120	10	30
Carbon Disulfide	N.D.	1.	ug/l	90	99	68-121	9	30
Carbon Tetrachloride	N.D.	1.	ug/l	92	102	65-137	11	30
Chlorobenzene	N.D.	0.8	ug/l	95	105	80-120	9	30
Chloroethane	N.D.	1.	ug/l	68	75	60-120	11	30
2-Chloroethyl Vinyl Ether	N.D.	2.	ug/l	88	94	52-127	8	30
Chloroform	N.D.	0.8	ug/l	88	97	77-122	9	30
Chloromethane	N.D.	1.	ug/l	78	80	54-123	3	30
2-Chlorotoluene	N.D.	1.	ug/l	93	103	80-120	11	30
4-Chlorotoluene	N.D.	1.	ug/l	95	104	80-120	10	30
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/l	83	90	56-120	8	30
Dibromochloromethane	N.D.	1.	ug/l	97	105	72-120	8	30
1,2-Dibromoethane	N.D.	0.5	ug/l	94	103	76-120	9	30
Dibromomethane	N.D.	1.	ug/l	93	101	80-120	9	30
1,2-Dichlorobenzene	N.D.	1.	ug/l	94	103	80-120	10	30
1,3-Dichlorobenzene	N.D.	1.	ug/l	94	104	80-120	10	30
1,4-Dichlorobenzene	N.D.	1.	ug/l	94	102	80-120	8	30
Dichlorodifluoromethane	N.D.	2.	ug/l	73	80	35-122	10	30
1,1-Dichloroethane	N.D.	1.	ug/l	95	103	79-120	8	30
1,2-Dichloroethane	N.D.	0.5	ug/l	94	101	64-130	7	30
1,1-Dichloroethene	N.D.	0.8	ug/l	95	103	76-124	8	30
cis-1,2-Dichloroethene	N.D.	0.8	ug/l	97	106	80-120	8	30
trans-1,2-Dichloroethene	N.D.	0.8	ug/l	93	104	80-120	11	30
1,2-Dichloropropane	N.D.	1.	ug/l	93	102	80-120	9	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

Group Number: 1368354

Reported: 02/25/13 at 10:16 AM

<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>
1,3-Dichloropropane	N.D.	1.	ug/l	96	103	80-120	8	30
2,2-Dichloropropane	N.D.	1.	ug/l	91	100	67-124	9	30
1,1-Dichloropropane	N.D.	1.	ug/l	91	101	80-120	11	30
cis-1,3-Dichloropropene	N.D.	1.	ug/l	100	107	78-120	7	30
trans-1,3-Dichloropropene	N.D.	1.	ug/l	90	98	66-124	9	30
Ethanol	N.D.	50.	ug/l	86	110	54-149	24	30
Ethyl t-butyl ether	N.D.	0.5	ug/l	92	100	66-120	8	30
Ethylbenzene	N.D.	0.5	ug/l	94	104	79-120	9	30
Freon 113	N.D.	2.	ug/l	95	103	69-128	8	30
Hexachlorobutadiene	N.D.	2.	ug/l	82	94	58-120	14	30
2-Hexanone	N.D.	3.	ug/l	88	95	59-125	8	30
di-Isopropyl ether	N.D.	0.5	ug/l	91	98	65-120	8	30
Isopropylbenzene	N.D.	1.	ug/l	94	104	77-120	10	30
p-Isopropyltoluene	N.D.	1.	ug/l	92	103	77-121	12	30
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	92	99	68-121	8	30
4-Methyl-2-pentanone	N.D.	3.	ug/l	87	94	65-122	8	30
Methylene Chloride	N.D.	2.	ug/l	94	102	84-118	8	30
Naphthalene	N.D.	1.	ug/l	88	98	47-126	11	30
n-Propylbenzene	N.D.	1.	ug/l	94	103	77-130	10	30
Styrene	N.D.	1.	ug/l	95	104	77-120	9	30
1,1,1,2-Tetrachloroethane	N.D.	1.	ug/l	93	101	79-120	8	30
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	91	100	70-129	9	30
Tetrachloroethene	N.D.	0.8	ug/l	96	106	79-120	10	30
Toluene	N.D.	0.5	ug/l	95	103	79-120	8	30
1,2,3-Trichlorobenzene	N.D.	1.	ug/l	90	101	67-120	12	30
1,2,4-Trichlorobenzene	N.D.	1.	ug/l	93	101	65-120	8	30
1,1,1-Trichloroethane	N.D.	0.8	ug/l	86	95	66-126	9	30
1,1,2-Trichloroethane	N.D.	0.8	ug/l	94	103	80-120	9	30
Trichloroethene	N.D.	1.	ug/l	96	105	80-120	8	30
Trichlorofluoromethane	N.D.	2.	ug/l	85	93	65-130	9	30
1,2,3-Trichloropropane	N.D.	1.	ug/l	92	101	76-120	10	30
1,2,4-Trimethylbenzene	N.D.	1.	ug/l	92	101	69-122	10	30
1,3,5-Trimethylbenzene	N.D.	1.	ug/l	93	103	68-124	10	30
Vinyl Chloride	N.D.	1.	ug/l	80	88	63-120	9	30
m+p-Xylene	N.D.	0.5	ug/l	97	105	77-120	8	30
o-Xylene	N.D.	0.5	ug/l	95	103	77-120	9	30

Batch number: 13045A20A Sample number(s): 6951090-6951093
 TPH-GRO N. CA water C6-C12 N.D. 50. ug/l 94 93 75-135 0 30

Batch number: 130440006A Sample number(s): 6951091-6951093
 TPH-DRO CA C10-C28 N.D. 32. ug/l 92 90 56-122 3 20

Batch number: 130440015A Sample number(s): 6951091-6951092
 Total TPH N.D. 40. ug/l 102 98 32-121 5 20
 TPH Motor Oil C16-C36 N.D. 40. ug/l

Batch number: 130460008A Sample number(s): 6951093
 Total TPH N.D. 40. ug/l 90 95 32-121 5 20
 TPH Motor Oil C16-C36 N.D. 40. ug/l

Batch number: 130440007A Sample number(s): 6951091-6951093
 TPH-DRO CA C10-C28 w/ Si Gel N.D. 32. ug/l 90 86 50-118 4 20

Batch number: 130440016A Sample number(s): 6951091-6951092
 Motor Oil C16-C36 w/Si Gel N.D. 40. ug/l

*- 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 Group Number: 1368354
Reported: 02/25/13 at 10:16 AM

<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>
Total TPH w/Si Gel	N.D.	40.	ug/l	75	77	32-121	2	20
Batch number: 130460009A	Sample number(s): 6951093							
Motor Oil C16-C36 w/Si Gel	N.D.	40.	ug/l					
Total TPH w/Si Gel	N.D.	40.	ug/l	82	76	32-121	7	20
Batch number: 130451848001	Sample number(s): 6951091-6951093							
Cadmium	N.D.	0.36	ug/l	100		90-112		
Chromium	N.D.	1.1	ug/l	99		90-110		
Lead	N.D.	5.1	ug/l	105		88-110		
Nickel	N.D.	1.1	ug/l	103		90-111		
Zinc	N.D.	2.0	ug/l	100		90-110		
Batch number: 13045807801A	Sample number(s): 6951091-6951093							
SGT-HEM (TPH)	1,800	1,400.	ug/l	75	76	64-114	2	26
Batch number: 13045807901A	Sample number(s): 6951091-6951093							
HEM (oil & grease)	N.D.	1,400.	ug/l	97	90	78-114	7	16

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: D130492AA	Sample number(s): 6951090 UNSPK: P951076								
Benzene	102	102	72-134	0	30				
Ethylbenzene	106	105	71-134	1	30				
Methyl Tertiary Butyl Ether	99	99	72-126	0	30				
Toluene	106	104	80-125	2	30				
Xylene (Total)	111	109	79-125	1	30				
Batch number: 130451848001	Sample number(s): 6951091-6951093 UNSPK: P951710 BKG: P951710								
Cadmium	100	100	83-116	0	20	N.D.	N.D.	0 (1)	20
Chromium	101	107	81-120	5	20	N.D.	N.D.	0 (1)	20
Lead	103	104	75-125	1	20	N.D.	N.D.	0 (1)	20
Nickel	101	101	86-115	0	20	N.D.	N.D.	0 (1)	20
Zinc	101	101	85-117	0	20	3.5	3.3	9 (1)	20
Batch number: 13045807801A	Sample number(s): 6951091-6951093 UNSPK: P947125								
SGT-HEM (TPH)	26*		64-132						
Batch number: 13045807901A	Sample number(s): 6951091-6951093 UNSPK: P947125								
HEM (oil & grease)	63*		78-114						

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: Chevron
Reported: 02/25/13 at 10:16 AM

Group Number: 1368354

Surrogate Quality Control

Analysis Name: UST VOCs by 8260B - Water
Batch number: D130492AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6951090	103	97	98	94
Blank	100	97	98	93
LCS	100	97	98	97
MS	100	96	99	98
MSD	101	98	97	97
Limits:	80-116	77-113	80-113	78-113

Analysis Name: 8260 Ext. Water Master w/GRO
Batch number: W130491AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6951091	100	100	98	98
6951092	100	100	98	98
6951093	99	99	99	98
Blank	98	99	98	97
LCS	99	98	100	99
LCSD	99	102	99	99
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 13045A20A

	Trifluorotoluene-F
6951090	77
6951091	74
6951092	75
6951093	107
Blank	76
LCS	96
LCSD	95
Limits:	63-135

Analysis Name: TPH-DRO CA C10-C28

	Orthoterphenyl
6951091	83
6951092	89
6951093	93
Blank	91
LCS	112
LCSD	104
Limits:	50-154

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

	Orthoterphenyl
6951091	83
6951092	89
6951093	93
Blank	91
LCS	112
LCSD	104
Limits:	50-154

*- Outside of specification

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

Quality Control Summary

Client Name: Chevron
Reported: 02/25/13 at 10:16 AM

Group Number: 1368354

Surrogate Quality Control

6951091	76
6951092	95
6951093	93
Blank	85
LCS	95
LCSD	96

Limits: 50-154

Analysis Name: TPH Fuels by GC (Waters)
Batch number: 130440015A

	Chlorobenzene	Orthoterphenyl
6951091	102	95
6951092	136	85
Blank	96	98
LCS	102	107
LCSD	98	105

Limits: 28-152 52-131

Analysis Name: TPH Fuels water w/Si Gel
Batch number: 130440016A

	Chlorobenzene	Orthoterphenyl
6951091	71	78
6951092	70	75
Blank	74	81
LCS	75	82
LCSD	74	82

Limits: 29-107 43-114

Analysis Name: TPH Fuels by GC (Waters)
Batch number: 130460008A

	Chlorobenzene	Orthoterphenyl
6951093	383*	61
Blank	85	89
LCS	82	95
LCSD	87	100

Limits: 28-152 52-131

Analysis Name: TPH Fuels water w/Si Gel
Batch number: 130460009A

	Chlorobenzene	Orthoterphenyl
6951093	86	78
Blank	71	78
LCS	81	89
LCSD	74	82

Limits: 29-107 43-114

*- 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: 02/25/13 at 10:16 AM

Group Number: 1368354

Surrogate Quality Control

*- 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



02112-05

AMENDED

For Lancaster Laboratories use only
 Acct. #: 10906 Sample # 0951090-93 Group #: 008045

G#1368354

Facility #: <u>SS#9-0517-OML G-R#386420 Global ID#T0600102248</u> Site Address: <u>3900 PIEDMONT AVENUE, OAKLAND, CA</u> Chevron PM: <u>CM</u> Lead Consultant: <u>STANTECT Flora</u> Consultant/Office: <u>G-R, Inc. 6747 Sierra Court, Suite J, Dublin, CA 94568</u> Consultant Prj. Mgr. <u>Deanna L. Harding (deanna@grinc.com)</u> Consultant Phone #: <u>925-551-7555</u> Fax #: <u>925-551-7899</u> Sampler: <u>Jim Hezz</u>				Matrix <input type="checkbox"/> Potable <input type="checkbox"/> NPDES		Analyses Requested										Preservative Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other <input type="checkbox"/> J value reporting needed <input checked="" type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds 8021 MTBE Confirmation <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run ___ oxy's on highest hit <input type="checkbox"/> Run ___ oxy's on all hits																							
Sample Identification				Date Collected		Time Collected		Grab	Composite	Soil	Water	Oil <input type="checkbox"/> Air	Total Number of Containers	BTEX + MTBE 8260 <input type="checkbox"/> 8021	TPH 8015 MOD GRO	TPH 8015 MOD DRO <input checked="" type="checkbox"/> Silica Gel Cleanup	8260 full scan	Full Scan VOC's ETEL	@Organates	Total Lead Method	Dissolved Lead Method	TPH-MO w/54c column ETEL	CAMP5 method, (color)	Total Lead (HPLC)	Comments / Remarks amend total number of containers to 15 RM 2/19														
QA MW-1 2/10/05 12:15 X X X 15				MW-3 1/30/05 13:25 X X X 15				MW-4 1/15/05 14:15 X X X 15				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X												
Turnaround Time Requested (TAT) (please circle) STD. TAT 72 hour 48 hour 24 hour 4 day 5 day				Relinquished by: <u>[Signature]</u> Date: <u>2/9/05</u> Time: <u>17:00</u>				Received by: <u>GATTLE - R. AND FRISCH</u> Date: <u>02-11-05</u> Time: <u>17:00</u>				Relinquished by: <u>[Signature]</u> Date: <u>02-11-05</u> Time: <u>12:25</u>				Received by: <u>[Signature]</u> Date: <u>2/11/05</u> Time: <u>12:25</u>				Relinquished by: _____ Date: _____ Time: _____				Received by: _____ Date: _____ Time: _____				Relinquished by Commercial Carrier: UPS FedEx Other _____				Received by: _____ Date: _____ Time: _____				Temperature Upon Receipt _____ C° Custody Seals Intact? Yes No			
Data Package Options (please circle if required) QC Summary Type I - Full Type VI (Raw Data) <input type="checkbox"/> Coelt Deliverable not needed WIP (RWQCB) Disk				EDF/EDD																																			

Explanation of Symbols and Abbreviations

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

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

U.S. EPA CLP Data Qualifiers:

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

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

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

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

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.

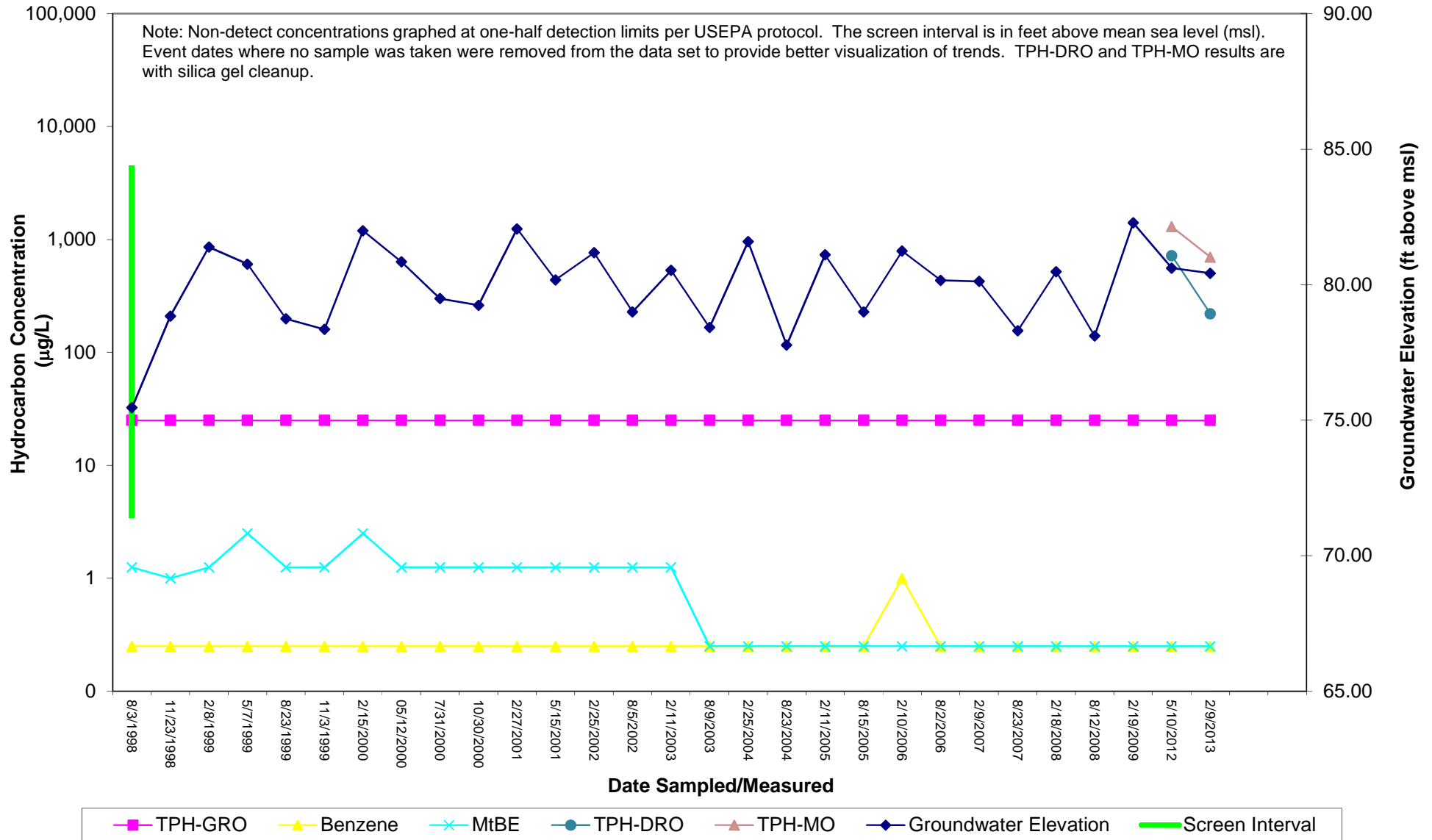
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Attachment C

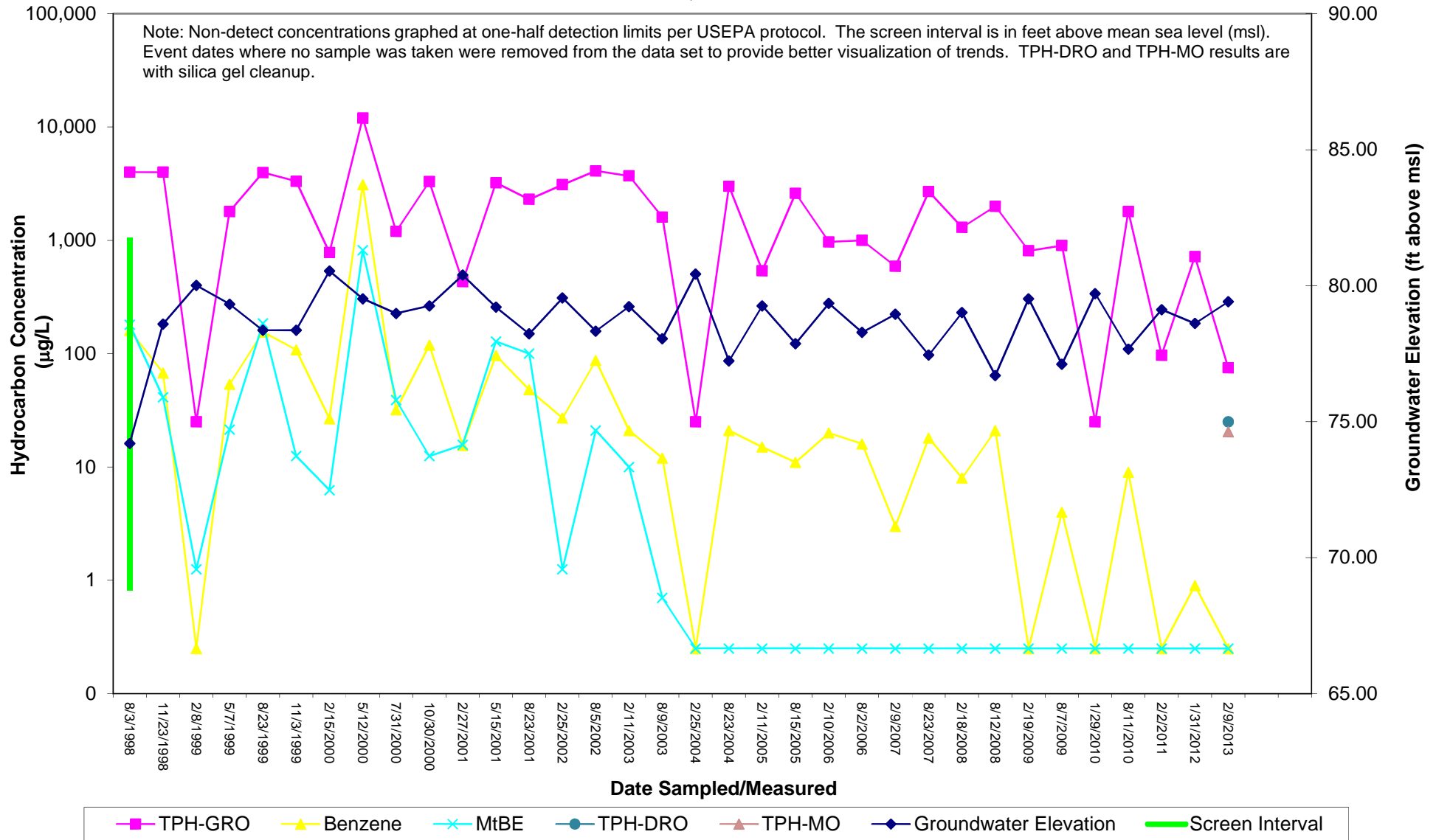
Hydrographs

MW-1 TPH-GRO, TPH-DRO, TPH-MO, Benzene, & MtBE Concentrations and Groundwater Elevations vs. Time

Former Chevron-branded Service Station 90517
3900 Piedmont Avenue
Oakland, California



**MW-3 TPH-GRO, TPH-DRO, TPH-MO, Benzene, & MtBE Concentrations and
Groundwater Elevations vs. Time**
Former Chevron-branded Service Station 90517
3900 Piedmont Avenue
Oakland, California



**MW-4 TPH-GRO, TPH-DRO, TPH-MO, Benzene, & MtBE Concentrations and
Groundwater Elevations vs. Time**
Former Chevron-branded Service Station 90517
3900 Piedmont Avenue
Oakland, California

