Ms. Barbara Jakub Alameda County Health Care Services Agency 1131 Harbor Bay Parkway Alameda, CA 9502-6577

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Alameda County

Environmental Health

Subject:

Former Val Strough Chevrolet Site

327 34th Street, Oakland, CA Site ID #3035, RO#0000134

Dear Ms. Jakub:

This enclosed report has been prepared by LRM Consulting, Inc. on behalf of the Strough Family Trust. I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

If you have any questions, please contact Mr. Mehrdad Javaherian of LRM Consulting, Inc. at 650-343-4633.

Sincerely,

Linda L. Strough, Trustee

cc: Mehrdad Javaherian, LRM Consulting, Inc. 534 Plaza Lane, #145, Burlingame, CA 94010

Greggory Brandt, Wendel Rosen Black & Dean 1111 Broadway, 24th Floor, Oakland, CA 94607



FOURTH QUARTER 2010 GROUNDWATER MONITORING REPORT

Former Val Strough Chevrolet Site 327 34th Street, Oakland, California Fuel Leak Case No. RO0000134

Prepared by LRM Consulting, Inc. 1534 Plaza Lane, #145 Burlingame, CA 94010



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Mehrdad M. Javaherian, Ph.D(c), MPH, PE

Principal Engineer

Modacakeria

March 2011



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1.0 INTRODUCTION

At the request of the Strough Family Trust of 1983, LRM Consulting, Inc. (LRM) has prepared this *Fourth Quarter 2010 Groundwater Monitoring Report* for the former Val Strough Chevrolet located in Oakland, California. This report documents the procedures and findings of the December 22, 2010 groundwater monitoring event reflecting water quality reporting and water level gauging for all site wells per the existing Alameda County Health Care Services Agency (ACHCSA)-approved monitoring program for the site.

The scope of groundwater monitoring for this quarter corresponded to the ACHCSA-approved program, which for this quarter corresponds to gauging from all eleven site wells, and sampling from the select wells according to the recommended schedule. Groundwater monitoring data and well construction details are shown on the figures and presented in the tables. Groundwater monitoring protocols, field data, and laboratory analytical results are provided in the appendices.

1.1 General Site Information

Site name: Former Val Strough Chevrolet
Site address: 327 34th Street, Oakland, California
Current property owner: Strough Family Trust of 1983

Current site use: Automotive Dealership and Service Center

Current phase of project: Groundwater monitoring and evaluation of need and

approaches for additional remediation

Tanks at site: Two former tanks (1 gasoline, 1 waste-oil) removed in

1993

Number of wells: 11 (all onsite)

Site ID #: 3035 **RO #:** 0000134

1.2 Site Contacts

Consultant: Mehrdad M. Javaherian, Ph.D(c), MPH, PE

Principal Engineer LRM Consulting, Inc. 1534 Plaza Lane, # 145 Burlingame, CA 94010

(415) 706-8935

Regulatory agency: Barbara Jakub, P.G.

Alameda County Health Services Agency 1131 Harbor Bay Parkway, Suite 250

Alameda, CA 94502-6577

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2.0 SITE BACKGROUND

2.1 Site Description

Site Location and Land Use: The former Val Strough Chevrolet site is currently an active Honda automobile dealership and service center located on the southwestern corner of the intersection of Broadway (Auto Row) and 34th Street (Figure 1). The property is located south of Interstate 580. Land use in the area is primarily commercial.

The site is situated approximately two miles east of San Francisco Bay at approximately 61 feet above mean sea level (msl) (EDR, 2003). The land surface in the vicinity slopes toward the south. The nearest surface water body is Lake Merritt, located approximately 1 mile south of the site (Figure 1).

Site Features: The site consists of a multi-level building and an adjacent parking lot (Figure 2). The former fuel dispenser and underground storage tanks (USTs) were located in the northwestern portion of the site. Seven groundwater monitoring wells are located at the site. Construction details for the wells are presented in Table 1.

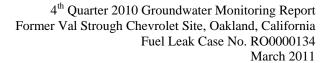
Underground Utilities: A box culvert for a former tributary of Glen Echo Creek is located approximately 17 feet below ground surface (bgs) in the eastern portion of the site (Figure 2). The culvert consists of a reinforced concrete box measuring 5 feet by 6 feet. During the winter of 1983, a section of the culvert collapsed and was replaced with a 5-foot-diameter pipeline.

Sanitary sewer, electrical, and natural gas utilities are generally present at depths less than 2 feet bgs at the site. Approximately 40 feet north of the site, along the northern edge of 34th Street, a storm sewer pipeline flows toward the east and into the box culvert. Sanitary sewer lines run parallel to both 34th Street and Broadway, north and east of the site, respectively. A lateral pipeline located along the western edge of the site connects to the sanitary sewer line below 34th Street. Natural gas service is located on the east side of the property. Water service appears to enter the site from the north.

Water Supply Well Search: A 2003 report compiled by EDR indicates that there are no federal U.S. Geological Survey wells and no public water supply wells located within a 1-mile radius of the site. No water supply wells were identified by the Alameda County Department of Public Works within a ½-mile radius of the site (ETIC, 2003).

2.2 Summary of Previous Investigations and Monitoring Activities

As presented in previous reports, the USTs were removed and multiple investigations, including the installation of seven groundwater monitoring wells, were conducted. In addition, a routine groundwater monitoring program has been in place since 1993. The following paragraphs summarize the findings of these activities.





Site Hydrogeology: In general, the site is underlain by silt and clay to depths ranging from approximately 15 to 20 feet bgs. Silty sand and fine-grained sand interbedded with thin clay intervals are encountered from approximately 20 feet bgs to the total explored depth of 35 feet bgs.

The depth to groundwater beneath the site has ranged from approximately 12.5 to 23 feet bgs. As shown in the modified rose diagram on Figure 2, the direction of groundwater flow is generally toward the southwest to south-southeast, with average hydraulic gradients ranging from approximately 0.01 to 0.03 foot/foot.

Primary Sources: Two USTs (one gasoline and one waste-oil) were located beneath the sidewalk on the northern side of the property. A fuel dispenser was located inside the building (Figure 2). These primary sources of petroleum hydrocarbons were removed from the site in 1993.

Constituents of Potential Concern: Based on the type of fuel stored in the USTs and the results of previous subsurface investigations, the constituents of potential concern (COPCs) at the site include total petroleum hydrocarbons as gasoline (TPH-g), benzene, toluene, ethylbenzene, and total xylenes (BTEX), and methyl t-butyl ether (MTBE). TPH as diesel (TPH-d) and TPH as motor oil (TPH-mo) are not routinely detected in groundwater samples and are considered secondary COPCs for the site.

Residual Source Area: Elevated concentrations of TPH-g, BTEX, and MTBE have been observed in soil in the vadose zone and upper portion of the water-bearing zone near the former USTs and fuel dispenser. Separate phase petroleum hydrocarbons (SPH) have been intermittently detected in wells MW-2 and MW-3, but none since March 2004 in MW-3 and June 2006 in MW-2. These data suggest that most of the residual petroleum hydrocarbon mass is present near the former USTs and fuel dispenser, herein referred to as the residual source area; this is corroborated by the dissolved groundwater data discussed below. Additional wells recently installed within this residual source area include MW9A/9B and O1.

Petroleum Hydrocarbon Distribution in Groundwater: The highest concentrations of petroleum hydrocarbons have been detected in samples collected from wells MW-2, MW-3, MW9A/9B, and O1, located immediately downgradient of the former USTs and within the previously defined residual source area. Significantly lower levels of petroleum hydrocarbons have been detected in samples collected from well MW-4 and the other site wells located downgradient and outside of the residual source area. The extent of dissolved-phase petroleum hydrocarbons in groundwater is largely defined by relatively low and stable TPH-g, BTEX, and MTBE concentrations detected in downgradient and cross-gradient monitoring wells MW-5, MW-6, MW-7, and MW-8 (Tables 2 and 3).



2.3 Summary of Interim Remedial Action Activities

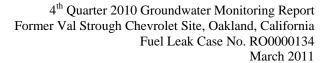
In addition to the routine groundwater monitoring activities, remediation pilot testing and remediation activities were conducted at the site between 2004 and 2006. A summary of these activities and associated regulatory correspondence with the ACHCSA are presented below:

DPE Pilot Test: In March 2004, ETIC Engineering, Inc. (ETIC) performed a DPE pilot test at the site. As summarized in the June 2004 *Dual Phase Extraction Pilot Test and Interim Remedial Action Plan* (DPE and IRAP Report), vacuum was applied to source area wells MW-2 and MW-3 while water and vacuum levels were measured in nearby monitoring wells. The DPE pilot test induced more than 1 foot of drawdown up to 50 feet from the extraction wells and an estimated radius of vacuum influence of 55 to 70 feet. Based on vapor flow rates and petroleum hydrocarbon concentrations in the vapor stream during the short-term pilot test, removal rates of approximately 90 pounds of petroleum hydrocarbons per day were estimated.

June 2004 DPE and IRAP Report: The DPE and interim remedial action plan (IRAP) Report (ETIC, 2004) described the planned reduction of residual petroleum hydrocarbon mass in the source area through temporary DPE system installation and operation and dual phase extraction from source area wells MW-2 and MW-3 to extract soil vapor and groundwater simultaneously. The system was designed to consist of a knockout vessel to be used for separation of the soil vapor and water streams. A thermal oxidizer (with propane as a supplemental fuel) was proposed for treatment of extracted vapor, and aqueous-phase granular activated carbon was proposed for treatment of extracted groundwater.

Interim Remedial Action: Between February 2005 and June 2006, ETIC operated a DPE system on site. Vacuum was applied to remove groundwater and soil vapor from up to two wells (MW-2 and/or MW-3). The system was temporarily shutdown on 30 January 2006 for conversion of vapor treatment from thermal oxidation to carbon filtration, and remained offline until 22 May 2006, when it was restarted. Because the mass removal rates by the DPE system had reached asymptotic levels and high petroleum hydrocarbon concentrations continued to exist in extraction wells MW-2 and MW-3 despite the DPE operation, the benefit of continuation of DPE in its current configuration was considered to be low and the DPE operation was ceased on 30 June 2006. ETIC subsequently dismantled the remediation system and removed the skid mounted DPE unit from the site.

August 2006 LRM Consulting, Inc. Correspondence and 11 December 2006 LRM Supplemental Source Area Investigation Work Plan: In a August 25, 2006 correspondence, LRM notified the ACHCSA of a project consultant change from ETIC to LRM. Also, based on a review of the available site data, the response of the hydrocarbon concentrations to past DPE operations, and the ACHCSA's comments on ETIC's Work Plan, LRM recommended a technical meeting with the ACHCSA to discuss the project direction. However, because of other commitments of Don Hwang and other ACHCSA staff, a technical meeting could not be scheduled. During a October 19, 2006 telephone conversation with Don Hwang, LRM





presented an approach to conduct a supplemental investigation to define the magnitude and extent of the residual source area in the vicinity of the former fuel dispenser and wells MW-2 and MW-3. Based on these discussions and as agreed by Mr. Hwang, a supplemental source area investigation work plan outlining the proposed scope of work was prepared and submitted to ACHCSA on 11 December 2006; this work plan was revised through multiple discussions with Donna Drogos of the ACHCSA and was finalized in December of 2007. The subject investigation was conducted beginning on December 12, 2007, the results of which were documented in a report to ACHCSA (LRM, 2008a).

August 2008 LRM Consulting, Inc. IRAP: In a August 25, 2008 IRAP report, LRM, in response to a request by Barbara Jakub of the ACHCSA, proposed a series of site investigation and pilot testing activities to address the residual source area at the site. These activities included: 1) soil and grab groundwater sampling to vertically characterize the extent of hydrocarbons within the residual source area previously encountered during the supplemental investigation referenced above; 2) grab groundwater sampling along the existing culvert at the site to evaluate the potential for preferential migration of hydrocarbons along the culvert backfill; 3), placement of a groundwater monitoring well (MW-8) at the downgradient site boundary to define the downgradient extent of hydrocarbons; and 4) pilot testing activities including injection and observation well installation and pilot testing protocols for implementation of in-situ oxygen curtain (iSOC) technology within the residual source area. In a letter dated December 5, 2008, the ACHCSA approved the proposed site investigation activities with select modifications listed. Additional information was also requested for the iSOC pilot testing, which were provided by LRM in its response to ACHCSA comment dated December 5, 2008. The investigation activities associated with the IRAP have been completed and reported to the ACHCSA. The ACHCSA has requested that an additional monitoring well be installed to monitor the proposed iSOC pilot testing.

July 2009 LRM Consulting, Inc. Well Installation: On July 15, 2009, wells MW9A and MW9B were installed using hollow stem augers as part of the monitoring program for the iSOC pilot testing. The well completion activity was observed by Ms. Vicky Hamlin of Alameda County Public Works and Ms. Barbara Jakub of Alameda County Environmental Health.

January 2010 LRM Consulting, Inc. IRAP Addendum: On January 13, 2010, an addendum to the IRAP was prepared by LRM Consulting, reflecting a proposed change from iSOC technology originally outlined in the IRAP. Specifically, in-situ chemical oxidation (ISCO) technology was proposed for the residual source area instead of iSOC. This recommendation was based on results of two rounds of groundwater sampling at MW9A/9B and O-1, with both rounds indicating the presence of hydrocarbons at concentrations which are too high for effective remediation using iSOC. In accordance with the approved IRAP, the January 2010 IRAP Addendum outlined an alternative methodology to more effectively remediate the observed hydrocarbon concentrations in the residual source area. The IRAP Addendum was approved by the ACHCSA in a letter dated April 22, 2010. The first of three ISCO injection events took place from August 15 through 17.



3.0 PROTOCOLS FOR GROUNDWATER MONITORING

The following sections of this report present information relevant to the methods employed during the collection of groundwater samples from site wells on December 22, 2010. The scope of work for the quarterly groundwater monitoring event at the site is listed below.

- Checking all wells for SPH.
- Gauging the depth to groundwater in all eleven site wells.
- Purging the monitoring wells prior to sampling.
- Collecting and analyzing groundwater samples from select onsite wells.
- Estimating the hydraulic gradient and general flow direction.
- Evaluating the data and preparing a written report summarizing the results of the monitoring event.

3.1 Groundwater Gauging

For this round of monitoring, groundwater gauging was performed for all eleven onsite wells. The monitoring wells were opened prior to gauging to allow the groundwater level to equilibrate with atmospheric pressure. The depth to groundwater and depth to SPH, if present, were then measured to the nearest 0.01 feet using an electronic water level meter or optical interface probe. The measurements were made from a fixed reference point at the top of the well casing.

Field data forms are presented in Appendix B.

3.2 Well Purging

Following well gauging, three well casing volumes of water were purged from wells scheduled to be sampled, and field parameters including temperature, pH, specific conductance, turbidity, dissolved oxygen (DO) and oxidation-reduction potential (ORP) were measured. Well MW3 was not purged due to the presence of free product in this well.

3.3 Groundwater Sampling

After purging, groundwater was sampled at each of the wells scheduled to be sampled using dedicated tubing and a WaTerra inertial pump, or a disposable bailer. Sample containers were sealed, labeled, stored in a cooler and transported under chain-of-custody protocol to Kiff Analytical LLC (Kiff), a state-certified analytical laboratory in Davis, California.

Groundwater analytical results and chain-of-custody documentation are presented in Appendix C.



4.0 MONITORING RESULTS

4.1 Separate-Phase Hydrocarbon Monitoring

The wells were monitored for the presence of SPH using a disposable bailer and/or interface probe. SPHs were observed at well MW3 during this event with a thickness of 0.2 foot (see Appendix B).

4.2 Groundwater Elevation and Hydraulic Gradient

The groundwater elevation contour map (Figure 2) for this monitoring event was constructed based on depth-to-groundwater measurements collected during the current sampling event. Depth-to-groundwater measurements and calculated groundwater elevations are presented in Table 2a.

On December 22, 2010, the depth to groundwater beneath the site ranged from 14.94 (MW7) to 24.80 (MW5) feet bgs (Table 2a). Correspondingly, groundwater elevations in the site wells ranged from 43.29 feet above msl in well MW1 to 44.55 feet above msl in well MW7 (Figure 2). Using the results from the fourth quarter 2010 monitoring event, the hydraulic gradient is estimated at an average of 0.010 ft/ft, with a general flow direction away from the residual source area toward the southwest (see Figure 2).

4.3 Groundwater Analytical Results

On December 22, 2010, groundwater samples were collected from wells MW2, MW4, MW9A, MW9B, and O1, and analyzed by Kiff for TPH-g, BTEX, and MTBE by EPA Method 8260B and for TPH-d and TPH-mo by modified EPA Method 8015. No sample was collected from MW3 due to the presence of SPHs.

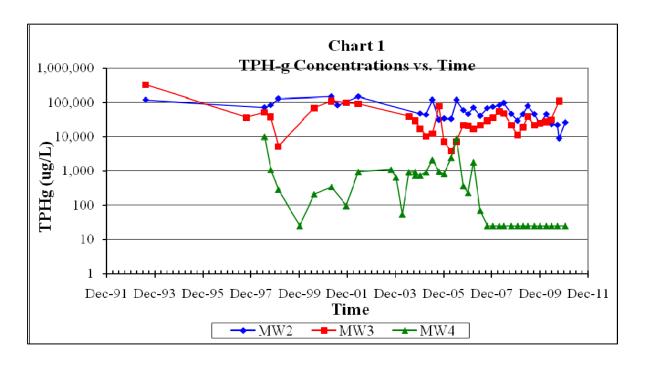
Analytical results for this event are presented on Figure 3, and historical petroleum hydrocarbon analytical results are presented in Table 2a. Natural attenuation parameters, including field parameters such as DO, are summarized in Table 2b. Copies of the chain-of-custody and laboratory analytical reports for the groundwater samples are presented in Appendix B. Laboratory analytical results for petroleum hydrocarbons are summarized below:

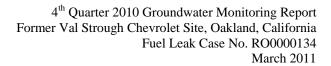
- TPH-g was detected in samples collected from wells MW2, MW9A, MW9B, and O1. The maximum TPH-g concentration was detected at well MW9A (83,000 µg/L). TPH-g remained below the laboratory reporting limit of 50 µg/L in well MW4.
- Benzene was detected in the samples collected from wells MW2, , MW9A, MW9B, and O1. The maximum benzene concentration was detected at well MW9A (4,400 μg/L). Benzene was below the laboratory reporting limit of 0.5 μg/L in well MW4.



- Toluene was detected at wells MW2, , MW9A, MW9B, and O1. The maximum toluene concentration was detected at well MW9A (17,000 μg/L), but remained below the laboratory reporting limit of 0.50 μg/L in well MW4.
- Ethylbenzene was detected at wells MW2, MW9A, MW9B, and O1. The maximum ethylbenzene concentration was detected at well MW9A (1,900 μg/L), but remained below the laboratory reporting limit of 0.50 μg/L in well MW4.
- Total xylenes were detected at wells MW2, MW9A, MW9B, and O1. The maximum total xylenes concentration was detected at well MW9A (13,000 μg/L), but remained below the laboratory reporting limit of 0.50 μg/L in well MW4.
- MTBE was detected in the samples collected from all sampled wells (MW2 through MW4, MW9B, and O1). The maximum MTBE concentration was detected at well MW2 (640 μg/L).
- TPH-d was not detected in groundwater samples collected from any of the sampled wells this quarter, although reporting limits in samples from wells MW2 (<3,000 µg/L) and MW9A (<1,500 µg/L) were elevated due to interference from gasoline-range hydrocarbons (see Appendix B).
- TPH-mo remained undetected in all wells sampled this quarter.

The chart below depicts TPH-g concentration trends for wells MW-2 and MW-3 located within the residual source area, and MW-4 located immediately downgradient of this location. As indicated on the chart, the TPH-g concentration in the 4th Quarter 2010 event increased slightly from the 3^{rd} Quarter 2010 event. Specifically, at well MW-2, TPH-g increased from 22,000 μ g/L to 26,000 μ g/L; this after declining to 8,000 μ g/L following ISCO injection events in September 2010.







Also within the residual source area, significantly lower petroleum hydrocarbon concentrations were observed at wells MW9A MW9B and O1 during this event compared to the previous event, largely driven by the ISCO injection activities. Away from the residual source area, TPH-g levels in well MW4 remain below detection limits since 2007.

5.0 PLANNED ACTIVITIES

5.1 Remediation Related Activities

As previously discussed, to address the high concentration of petroleum hydrocarbons and within the residual source area, LRM has initiated ISCO injection activities at the site. A separate report documenting the ISCO activities has been submitted to the ACHCSA.

5.2 Planned Monitoring Activities

Quarterly monitoring per the ACHCSA-approved plan will continue, with the next round scheduled for March 2011 (Table 4).

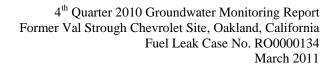


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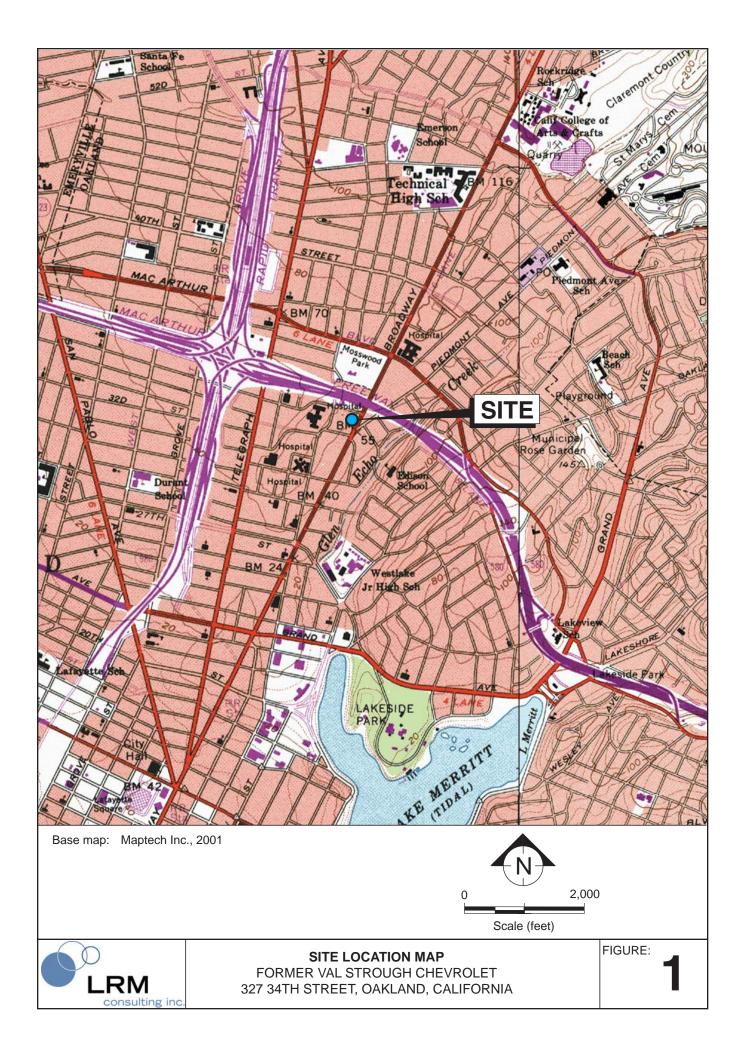


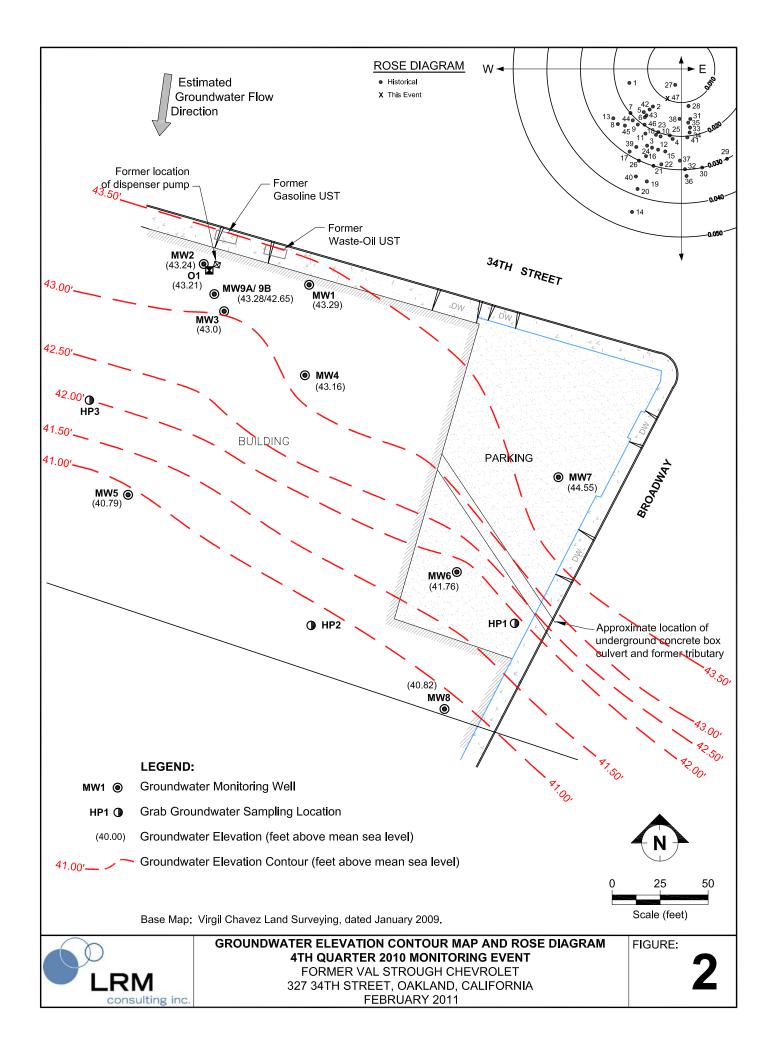


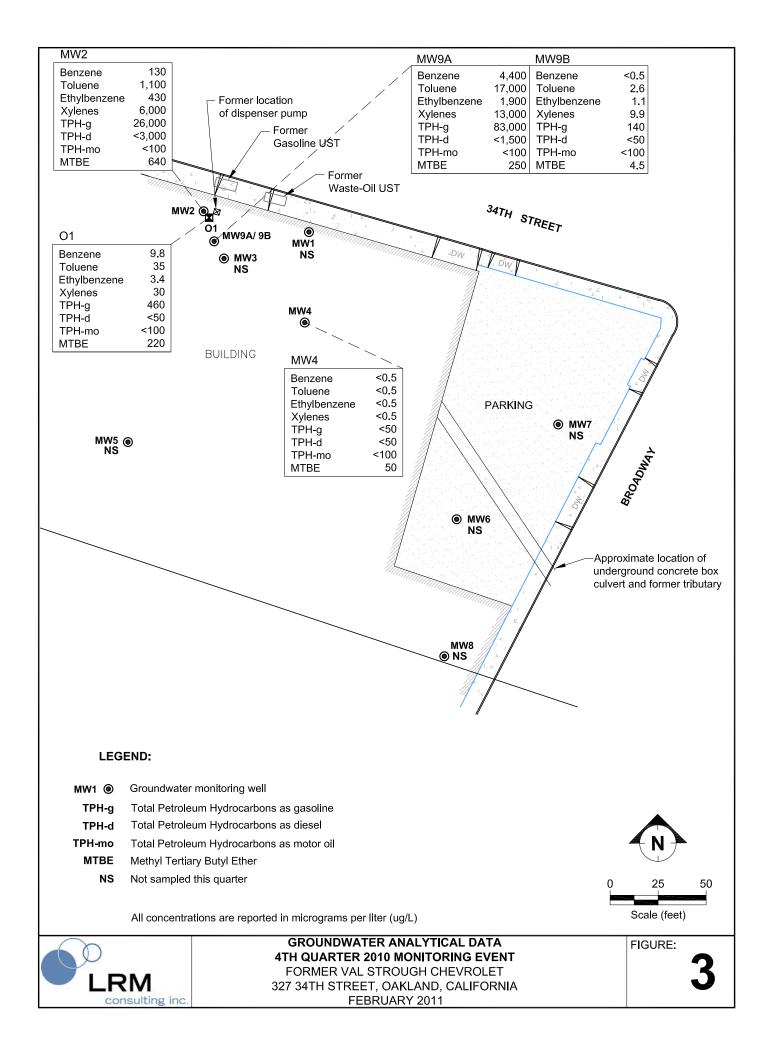
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- LRM Consulting, Inc. 2010c. Third Quarter 2010 Groundwater Monitoring Report, Strough Family Trust of 1983, 327 34th Street, Oakland, California. September.



FIGURES









TABLES

TABLE 1 WELL CONSTRUCTION DETAILS FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

| Well ID | Well Installation Date | Top-of-Casing Elevation* (feet) | Casing Material | Total Depth of Borehole (ft bgs) | Casing Diameter (inches) | Screened Interval (ft bgs) | Slot Size (inches) | Filter Pack Interval (ft bgs) | Filter Pack Material |
|------------|------------------------------|---------------------------------------|--------------------|--|--------------------------|----------------------------------|--------------------------|-------------------------------------|-------------------------|
| MW1 | 7/19/1993 | 64.71 | PVC | 32 | 2 | 17 to 32 | 0.020 | 15 to 32 | Gravel Pack |
| MW2 | 7/20/1993 | 65.71 | PVC | 33 | 2 | 18 to 33 | 0.020 | 16 to 33 | Gravel Pack |
| MW3 | 7/20/1993 | 65.7 | PVC | 34 | 2 | 18 to 34 | 0.020 | 16 to 34 | Gravel Pack |
| MW4 | 6/26/1998 | 64.37 | PVC | 31 | 2 | 15 to 31 | 0.020 | 13 to 31.5 | Lonestar #3 Sand |
| MW5 | 6/26/1998 | 65.59 | PVC | 31 | 2 | 15 to 31 | 0.020 | 13 to 31.5 | Lonestar #3 Sand |
| MW6 | 7/17/2000 | 59.60 | PVC | 31.5 | 2 | 10 to 30 | 0.020 | 8 to 30 | Lonestar #3 Sand |
| MW7 | 7/17/2000 | 59.49 | PVC | 36.5 | 2 | 15 to 35 | 0.020 | 13 to 35 | Lonestar #3 Sand |
| MW8 | 12/17/2008 | 57.07 | PVC | 26 | 1 | 11 to 26 | 0.010 | 9 to 26 | #2/12 Sand |
| O1 | 12/12/2008 | 65.91 | PVC | 40 | 2 | 15 to 40 | 0.020 | 13 to 40 | #3 Sand |
| MW9A | 7/15/2009 | 65.90 | PVC | 25 | 2 | 15 to 25 | 0.020 | 14 to 25 | #3 Monterey Sand |
| MW9B | 7/15/2009 | 65.85 | PVC | 39 | 2 | 29 to 39 | 0.020 | 28 to 39 | #3 Monterey sand |

Abbreviations:

ft bgs feet below ground surface

PVC Polyvinyl chloride.

Note:

* Elevations Based on Survey Conducted in 1st Quarter 2009 relative to NAVD88 datum. Wells O1, MW9A, and MW9B were surveyed on November 12, 2009.

TABLE 2a CUMULATIVE GROUNDWATER ELEVATION AND ANALYTICAL DATA FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

| | | Casing | | Depth to | GW | SPH | | | | Conce | ntration (µg | g/L) | | | |
|--------|-------------|-----------|---|----------|-----------|-----------|---------|---------|---------|---------|--------------|-------|--------|--------|-------|
| Well | | Elevation | | Water | Elevation | Thickness | | | Ethyl- | Total | | | | | |
| Number | Date | (feet) | | (feet) | (feet) | (feet) | Benzene | Toluene | benzene | Xylenes | TPH-g | TPH-d | TPH-mo | MTBE | TBA |
| | | | | | | | | | | | | | | | |
| MW1 | 07/27/93 | 100.00 | a | 20.79 | 79.21 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | < 50 | | | |
| MW1 | 10/02/97 | 100.00 | a | 21.22 | 78.78 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | | | < 2.0 | |
| MW1 | 06/30/98 | 100.00 | a | 18.21 | 81.79 | 0.00 | < 0.50 | < 0.50 | 2.1 | 0.6 | 84 | | | 2.1 | |
| MW1 | 07/29/98 | 100.00 | a | 18.74 | 81.26 | 0.00 | | | | | | | | | |
| MW1 | 08/26/98 | 100.00 | a | 19.28 | 80.72 | 0.00 | | | | | | | | | |
| MW1 | 10/01/98 | 100.00 | a | 19.93 | 80.07 | 0.00 | <1.0 | <1.0 | <1.0 | <1.0 | < 50 | | | < 2.0 | |
| MW1 | 10/30/98 | 100.00 | a | 20.22 | 79.78 | 0.00 | | | | | | | | | |
| MW1 | 11/30/98 | 100.00 | a | 19.99 | 80.01 | 0.00 | | | | | | | | | |
| MW1 | 12/28/98 | 100.00 | a | 19.81 | 80.19 | 0.00 | | | | | | | | | |
| MW1 | 01/25/99 | 100.00 | a | 19.62 | 80.38 | 0.00 | <1.0 | <1.0 | <1.0 | <1.0 | < 50 | | | < 2.0 | |
| MW1 | 02/26/99 | 100.00 | a | 17.18 | 82.82 | 0.00 | | | | | | | | | |
| MW1 | 03/24/99 | 100.00 | a | 17.28 | 82.72 | 0.00 | | | | | | | | | |
| MW1 | 05/12/99 | 100.00 | a | 17.91 | 82.09 | 0.00 | | | | | | | | | |
| MW1 | 12/15/99 | 100.00 | a | 21.01 | 78.99 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | | | < 0.50 | |
| MW1 | 03/20/00 | 100.00 | a | 16.25 | 83.75 | 0.00 | | | | | | | | | |
| MW1 | 07/20/00 | 100.00 | a | 19.63 | 80.37 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | < 50 | < 300 | 3.4 | |
| MW1 | 10/11/00 | 100.00 | a | 20.80 | 79.20 | 0.00 | | | | | | | | | |
| MW1 | 04/10-11/01 | 100.00 | a | 18.81 | 81.19 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | < 50 | < 300 | 1.2 | |
| MW1 | 07/10/01 | 100.00 | a | 20.51 | 79.49 | 0.00 | | | | | | | | | |
| MW1 | 11/20/01 | 64.69 | b | 21.36 | 43.33 | 0.00 | < 0.50 | 1.3 | < 0.50 | 0.81 | < 50 | < 50 | < 300 | < 2.0 | |
| MW1 | 02/19/02 | 64.69 | b | 18.95 | 45.74 | 0.00 | | | | | | | | | |
| MW1 | 05/21/02 | 64.69 | b | 19.82 | 44.87 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | < 50 | < 300 | < 2.0 | |
| MW1 | 06/27/03 | 64.69 | b | 19.93 | 44.76 | 0.00 | | | | | | | | | |
| MW1 | 09/29/03 | 64.69 | b | 21.24 | 43.45 | 0.00 | < 0.50 | < 0.50 | < 0.50 | <1.0 | < 50 | < 50 | < 500 | < 0.50 | |
| MW1 | 12/12/03 | 64.69 | b | 21.27 | 43.42 | 0.00 | < 0.50 | < 0.50 | < 0.50 | 1.1 | < 50 | 58 | < 500 | < 0.50 | |
| MW1 | 03/15/04 | 64.69 | b | 18.18 | 46.51 | 0.00 | < 0.50 | < 0.50 | < 0.50 | <1.0 | < 50 | < 50 | < 500 | < 0.50 | |
| MW1 | 06/24/04 | 64.69 | b | 20.48 | 44.21 | 0.00 | < 0.50 | < 0.50 | < 0.50 | <1.0 | < 50 | < 50 | < 500 | < 0.50 | |
| MW1 | 09/29/04 | 64.69 | b | 21.37 | 43.32 | 0.00 | < 0.50 | 0.51 | < 0.50 | <1.0 | < 50 | < 50 | < 500 | < 0.50 | |
| MW1 | 12/13/04 | 64.69 | b | 20.63 | 44.06 | 0.00 | | | | | | | | | |
| MW1 | 03/14/05 | 64.69 | b | 18.69 | 46.00 | 0.00 | < 0.50 | < 0.50 | < 0.50 | <1.0 | < 50 | 73 | < 500 | < 0.50 | |
| MW1 | 06/15/05 | 64.69 | b | 20.32 | 44.37 | 0.00 | | | | | | | | | |
| MW1 | 09/26/05 | 64.69 | b | 22.10 | 42.59 | 0.00 | < 0.50 | < 0.50 | < 0.50 | <1.0 | < 50 | < 50 | < 500 | < 0.50 | |
| MW1 | 12/12/05 | 64.69 | b | 22.39 | 42.30 | 0.00 | | | | | | | | | |
| MW1 | 03/29/06 | 64.69 | b | 15.24 | 49.45 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | < 50 | <100 | 74 | |
| MW1 | 06/19/06 | 64.69 | b | 18.27 | 46.42 | 0.00 | | | | | | | | | |
| MW1 | 09/29/06 | 64.69 | b | 20.06 | 44.63 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | < 50 | <100 | 7.9 | |
| MW1 | 12/12/06 | 64.69 | b | 20.32 | 44.37 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | < 50 | <100 | 9.4 | |
| MW1 | 03/01/07 | 64.69 | b | 18.68 | 46.01 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | < 50 | <100 | 3.5 | |
| MW1 | 06/12/07 | 64.69 | b | 20.28 | 44.41 | 0.00 | | | | | | | | | |
| MW1 | 09/25/07 | 64.69 | b | 21.37 | 43.32 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | < 50 | <100 | 1.8 | |
| MW1 | 12/20/07 | 64.69 | b | 21.48 | 43.21 | 0.00 | | | | | | | | | |
| MW1 | 03/26/08 | 64.69 | b | 20.98 | 43.71 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | < 50 | <100 | < 0.50 | |
| MW1 | 06/03/08 | 64.69 | b | 20.70 | 43.99 | 0.00 | | | | | | | | | |
| MW1 | 09/25/08 | 64.69 | b | 22.30 | 42.39 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | < 50 | <100 | 0.57 | < 5.0 |
| MW1 | 12/29/08 | 64.69 | b | 21.77 | 42.92 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | < 50 | <100 | < 0.50 | < 5.0 |
| MW1 | 03/24/09 | 64.71 | 1 | 18.68 | 46.03 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | < 50 | <100 | < 0.50 | < 5.0 |
| MW1 | 06/02/09 | 64.71 | 1 | 19.60 | 45.11 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | < 50 | <100 | < 0.50 | < 5.0 |
| MW1 | 09/10/09 | 64.71 | 1 | 21.20 | 43.51 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | < 50 | <100 | < 0.50 | < 5.0 |
| MW1 | 12/04/09 | 64.71 | 1 | 22.86 | 41.85 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | < 50 | <100 | < 0.50 | < 5.0 |

TABLE 2a CUMULATIVE GROUNDWATER ELEVATION AND ANALYTICAL DATA FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

| | | Casing | | Depth to | GW | SPH | | | | Conce | entration (µg | g/L) | | | |
|------------------|-------------|-----------|---|----------|-----------|-----------|---------|---------|---------|---------|---------------------------------------|---------|--------|--------|-----|
| Well | | Elevation | | Water | Elevation | Thickness | | | Ethyl- | Total | , , , , , , , , , , , , , , , , , , , | | | | |
| Number | Date | (feet) | | (feet) | (feet) | (feet) | Benzene | Toluene | benzene | Xylenes | TPH-g | TPH-d | TPH-mo | MTBE | TBA |
| MW1 | 03/10/10 | 64.71 | 1 | 21.06 | 43.65 | 0.00 | < 0.50 | 0.97 | < 0.50 | 1.6 | < 50 | < 50 | < 100 | < 0.50 | |
| MW1 | 05/28/10 | 64.71 | 1 | 21.19 | 43.52 | 0.00 | | | | | | | | | |
| MW1 | 08/26/10 | 64.71 | 1 | 21.82 | 42.89 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | < 50 | <100 | < 0.50 | |
| MW1 | 12/22/10 | 64.71 | 1 | 21.42 | 43.29 | 0.00 | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| MW2 | 07/27/93 | 101.27 | a | 22.10 | 79.17 | 0.00 | 10,000 | 27,000 | 2,900 | 20,000 | 120,000 | | | | |
| MW2 | 10/02/97 | 101.27 | a | 22.91 | 78.36 | 0.43 | * | * | * | * | * | * | * | * | |
| MW2 | 06/30/98 | 101.27 | a | 19.69 | 81.58 | 0.45 | 7,300 | 18,000 | 2,500 | 15,600 | 72,000 | | | 5,500 | |
| MW2 | 07/29/98 | 101.27 | a | 20.11 | 81.16 | 0.29 | | | | | | | | | |
| MW2 | 08/26/98 | 101.27 | a | 20.54 | 80.73 | 0.08 | | | | | | | | | |
| MW2 | 10/01/98 | 101.27 | a | 21.52 | 79.75 | 0.42 | 6,400 | 17,000 | 2,600 | 17,000 | 84,000 | | | 2,000 | |
| MW2 | 10/30/98 | 101.27 | a | 21.54 | 79.73 | 0.10 | | | | | | | | | |
| MW2 | 11/30/98 | 101.27 | a | 21.21 | 80.06 | 0.04 | | | | | | | | | |
| MW2 | 12/28/98 | 101.27 | a | 21.10 | 80.17 | 0.02 | | | | | | | | | |
| MW2 | 01/25/99 | 101.27 | a | 20.80 | 80.47 | 0.01 | 9,000 | 26,000 | 3,800 | 27,500 | 130,000 | | | 5,800 | |
| MW2 | 02/26/99 | 101.27 | a | 18.00 | 83.27 | sheen | | | | | | | | | |
| MW2 | 03/24/99 | 101.27 | a | 18.27 | 83.00 | trace | | | | | | | | | |
| MW2 | 05/12/99 | 101.27 | a | 19.08 | 82.19 | trace | | | | | | | | | |
| MW2 | 12/15-16/99 | 101.27 | a | 22.42 | 78.85 | 0.025 | * | * | * | * | * | * | * | * | |
| MW2 | 03/20/00 | 101.27 | a | 17.09 | 84.18 | 0.026 | | | | | | | | | |
| MW2 | 07/20/00 | 101.27 | a | 20.86 | 80.41 | 0.017 | * | * | * | * | * | * | * | * | |
| MW2 | 10/11/00 | 101.27 | a | 22.10 | 79.17 | 0.00 | | | | | | | | | |
| MW2 | 04/10-11/01 | 101.27 | a | 19.98 | 81.29 | 0.00 | 8,000 | 22,000 | 2,600 | 23,500 | 150,000 | 1,500 | < 600 | 3,600 | |
| MW2 | 07/10/01 | 101.27 | a | 21.85 | 79.42 | 0.00 | 5,900 | 15,000 | 2,300 | 12,100 | 83,000 | 5,700 | <1,500 | 2,800 | |
| MW2 | 11/20/01 | 65.95 | b | 22.75 | 43.20 | 0.00 | | | | | | | | | |
| MW2 | 02/19/02 | 65.95 | b | 20.12 | 45.83 | 0.00 | | | | | | | | | |
| MW2 | 05/21/02 | 65.95 | b | 21.10 | 44.85 | 0.00 | 8,600 | 25,000 | 3,500 | 26,000 | 150,000 | 31,000 | <3,000 | 4,800 | |
| MW2 | 06/27/03 | 65.95 | b | 21.48 | 44.47 | 0.35 | | | | | | | | | |
| MW2 | 09/29/03 | 65.95 | b | 23.04 | 42.91 | 0.48 | * | * | * | * | * | * | * | * | |
| MW2 ^e | 12/12/03 | 65.95 | b | 22.75 | 43.31 | 0.16 | * | * | * | * | * | * | * | * | |
| MW2 ^e | 03/15/04 | 65.95 | b | 19.24 | 46.72 | 0.01 | * | * | * | * | * | * | * | * | |
| MW2 ^e | 06/24/04 | 65.95 | b | 22.10 | 44.06 | 0.31 | * | * | * | * | * | * | * | * | |
| MW2 ^e | 09/29/04 | 65.95 | b | 22.81 | 43.14 | sheen | * | * | * | * | * | * | * | * | |
| MW2 ^e | 12/13/04 | 65.95 | b | 22.06 | 43.95 | 0.08 | 3,700 | 12,000 | 1,900 | 10,000 | 47,000 | 2,600 | < 500 | 1,200 | |
| $MW2^{j}$ | 03/14/05 | 65.95 | b | 25.00 | 40.95 | 0.00 | 780 | 3,700 | 920 | 6,400 | 43,000 | 43,000 | <5,000 | < 200 | |
| MW2 | 06/15/05 | 65.95 | b | 21.14 | 44.81 | 0.00 | 2,900 | 15,000 | 2,400 | 22,000 | 120,000 | 13,000 | <2,500 | 810 | |
| MW2 | 07/18/05 | 65.95 | b | NM | NC | NM | 2,700 | 13,000 | 1,800 | 15,000 | 120,000 | 17,000 | | 530 | |
| MW2 | 09/26/05 | 65.95 | b | 22.93 | 43.02 | 0.00 | 570 | 4,000 | 620 | 6,200 | 31,000 | 63,000 | 28,000 | < 50 | |
| MW2 | 12/12/05 | 65.95 | b | 25.40 | 40.55 | 0.00 | 670 | 5,300 | 1,100 | 9,800 | 34,000 | 2,800 | < 500 | 65 | |
| MW2 | 03/29/06 | 65.95 | b | 15.66 | 50.29 | sheen | 620 | 2,800 | 540 | 4,700 | 33,000 | <4,000 | <100 | 37 | |
| MW2 | 06/19/06 | 65.95 | b | 19.14 | 46.81 | sheen | 680 | 5,200 | 990 | 16,000 | 120,000 | <30,000 | 1,900 | 170 | |
| MW2 | 09/29/06 | 65.95 | b | 21.16 | 44.79 | 0.00 | 1,200 | 5,100 | 1,200 | 9,300 | 59,000 | < 8000 | 300 | 230 | |
| MW2 | 12/12/06 | 65.95 | b | 21.46 | 44.49 | 0.00 | 850 | 4,400 | 1,100 | 8,900 | 45,000 | <10000 | 360 | 110 | |
| MW2 | 03/01/07 | 65.95 | b | 19.48 | 46.47 | 0.00 | 1,400 | 5,200 | 980 | 9,500 | 71,000 | <18000 | 460 | 160 | |
| MW2 | 06/12/07 | 65.95 | b | 20.98 | 44.97 | 0.00 | 1,300 | 4,900 | 1,200 | 8,900 | 40,000 | <3000 | <100 | 130 | |
| MW2 | 09/25/07 | 65.95 | b | 22.57 | 43.38 | 0.00 | 1,400 | 6,500 | 1,900 | 13,000 | 68,000 | <12000 | 250 | 240 | |
| MW2 | 12/20/07 | 65.95 | b | 22.70 | 43.25 | 0.00 | 1,400 | 7,000 | 2,400 | 16,000 | 75,000 | < 5000 | 650 | 270 | |
| MW2 | 03/26/08 | 65.95 | b | 22.51 | 43.44 | 0.00 | 1,400 | 6,200 | 1,800 | 16,000 | 83,000 | <10000 | 360 | 480 | |
| MW2 | 06/03/08 | 65.95 | b | 21.85 | 44.10 | 0.00 | 1,900 | 11,000 | 2,500 | 18,000 | 98,000 | <12000 | 500 | 660 | |
| MW2 | 09/25/08 | 65.95 | b | 23.30 | 42.65 | 0.00 | 740 | 3,500 | 1,700 | 10,000 | 46,000 | < 8000 | 170 | 340 | 180 |

TABLE 2a CUMULATIVE GROUNDWATER ELEVATION AND ANALYTICAL DATA FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

| Minsher Control Cont | | | Casing | | Depth to | GW | SPH | PH Concentration (μg/L) | | | | | | | | |
|--|--------|----------|--------|---|----------|-----------|-----------|-------------------------|---------|---------|---------|---------|---------|--------|-------|-----|
| | Well | | | | - | Elevation | Thickness | | | Ethyl- | | 4 5 | | | | |
| MM2 | Number | Date | (feet) | | (feet) | (feet) | (feet) | Benzene | Toluene | benzene | Xylenes | TPH-g | TPH-d | TPH-mo | MTBE | TBA |
| Mw2 | MW2 | 12/29/08 | 65.95 | b | 22.95 | 43.00 | 0.00 | 260 | 1,500 | 1,100 | 6,400 | 29,000 | <4000 | <100 | 110 | <50 |
| MW2 | MW2 | 03/24/09 | 65.71 | 1 | 19.58 | 46.13 | 0.00 | 410 | 2,000 | 900 | 8,900 | 45,000 | <8,000 | 420 | 300 | 210 |
| MW2 | MW2 | 06/02/09 | 65.71 | 1 | 20.50 | 45.21 | 0.00 | 680 | 3,100 | 1,200 | 10,000 | 80,000 | <12000 | 480 | 330 | 180 |
| MW2 03/1010 65.71 1 22.0 43.51 0.00 200 1.10 65.00 4.70 9.500 <6,000 <0.00 3.0 2.0 1.0 0.80 4.70 9.500 <0.00 1.0 3.0 1.0 0.00 1.0 0.00 1.0 0.00 1.0 0.00 1.0 0.00 2.0 0.00 2.00 0.00 2.0 0.00 2.0 0.00 2.0 2.0 2.0 0.00 2.0 2.0 1.0 4.00 2.0 2.0 1.0 4.0 | MW2 | 09/10/09 | 65.71 | 1 | 22.40 | 43.31 | 0.00 | 700 | 3,000 | 1,300 | 9,400 | 45,000 | < 8000 | 190 | 370 | 220 |
| MW2 052510 65.71 1 24.14 43.30 0.00 200 140 490 4200 4 | MW2 | 12/04/09 | 65.71 | 1 | 24.30 | 41.41 | 0.00 | 290 | 1,500 | 930 | 4,900 | 24,000 | < 2000 | 170 | 200 | 92 |
| MW2 | MW2 | 03/10/10 | 65.71 | 1 | 22.20 | 43.51 | 0.00 | 200 | 1,300 | 700 | 9,500 | 45,000 | < 6,000 | < 100 | 340 | |
| MW3 | MW2 | 05/28/10 | 65.71 | 1 | 22.41 | 43.30 | 0.00 | 260 | 1,100 | 650 | 4,700 | 23,000 | < 8000 | 170 | 380 | |
| MW2 122210 65.71 1 22.47 43.24 0.00 130 1.100 430 6.000 26.0 | MW2 | 08/26/10 | 65.71 | 1 | 23.00 | 42.71 | 0.00 | 160 | 980 | 490 | 4,200 | 22,000 | <2000 | <100 | 180 | |
| Max | MW2 | 09/20/10 | 65.71 | 1 | NM | NC | 0.00 | 52 | 360 | 210 | 1,600 | 8,800 | | | | |
| MW3 100297 10129 4 2717 78.58 0.03 4.20 11.00 1.00 5.00 5.00 5.00 3.00 3.00 7.00 <t< td=""><td>MW2</td><td>12/22/10</td><td>65.71</td><td>1</td><td>22.47</td><td>43.24</td><td>0.00</td><td>130</td><td>1,100</td><td>430</td><td>6,000</td><td>26,000</td><td><3000</td><td><100</td><td>640</td><td></td></t<> | MW2 | 12/22/10 | 65.71 | 1 | 22.47 | 43.24 | 0.00 | 130 | 1,100 | 430 | 6,000 | 26,000 | <3000 | <100 | 640 | |
| MM3 063098 1012 a 1947 81.28 0.00 4.800 11.00 1.20 7.00 51.00 2 3.00 81.28 0.00 2 2 0 2 0 2 0 2 0 0 0 2 0 <th< td=""><td>MW3</td><td>07/27/93</td><td>101.29</td><td>a</td><td>22.28</td><td>79.01</td><td>0.02</td><td>9,100</td><td>24,000</td><td>5,300</td><td>33,000</td><td>330,000</td><td></td><td></td><td></td><td></td></th<> | MW3 | 07/27/93 | 101.29 | a | 22.28 | 79.01 | 0.02 | 9,100 | 24,000 | 5,300 | 33,000 | 330,000 | | | | |
| MM3 O7/29/98 101.29 a 20.01 81.28 0.00 | MW3 | 10/02/97 | 101.29 | a | 22.71 | 78.58 | 0.03 | 4,200 | 11,000 | 1,800 | 10,600 | 36,000 | | | 3,500 | |
| MW3 082698 101.29 a 20.22 8.67 0.00 3.00 3.00 1.20 6.00 3.800 2.0 2.300 2.0 MW3 10.01988 101.29 a 21.3 79.96 0.00 3.00 1.20 6.00 3.800 2.0 2.0 0.0 2.0 4.0 2.0 2.0 6.0 5.0 5.0 2.0 <th< td=""><td>MW3</td><td>06/30/98</td><td>101.29</td><td>a</td><td>19.47</td><td>81.82</td><td>0.00</td><td>4,800</td><td>11,000</td><td>1,200</td><td>7,100</td><td>51,000</td><td></td><td></td><td>3,900</td><td></td></th<> | MW3 | 06/30/98 | 101.29 | a | 19.47 | 81.82 | 0.00 | 4,800 | 11,000 | 1,200 | 7,100 | 51,000 | | | 3,900 | |
| MM3 100198 101.29 a 2.133 7.96 0.00 3,900 8,500 1.200 3,800 3.0 2.0 2.300 | MW3 | 07/29/98 | 101.29 | a | 20.01 | 81.28 | 0.00 | | | | | | | | | |
| MW3 103098 101.29 a 21.61 79.67 0.00 | MW3 | 08/26/98 | 101.29 | a | 20.62 | 80.67 | 0.00 | | | | | | | | | |
| MW3 11/3098 101.29 a 21.31 79.98 0.00 <td>MW3</td> <td>10/01/98</td> <td>101.29</td> <td>a</td> <td>21.33</td> <td>79.96</td> <td>0.00</td> <td>3,900</td> <td>8,500</td> <td>1,200</td> <td>6,000</td> <td>38,000</td> <td></td> <td></td> <td>2,300</td> <td></td> | MW3 | 10/01/98 | 101.29 | a | 21.33 | 79.96 | 0.00 | 3,900 | 8,500 | 1,200 | 6,000 | 38,000 | | | 2,300 | |
| MW3 122898 10129 a 21.15 80.14 0.06 | MW3 | 10/30/98 | 101.29 | a | 21.62 | 79.67 | 0.00 | | | | | | | | | |
| MW3 012599 101.29 a 20.79 80.50 0.00 4.00 10.00 1200 6700 5.100 20.90 | | 11/30/98 | 101.29 | a | 21.31 | 79.98 | 0.00 | | | | | | | | | |
| MW3 02/2699 101.29 a 18.02 83.27 0.00 <td></td> <td>12/28/98</td> <td></td> <td>a</td> <td>21.15</td> <td>80.14</td> <td>0.06</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | 12/28/98 | | a | 21.15 | 80.14 | 0.06 | | | | | | | | | |
| MW3 03/2499 101.29 a 18.37 8.292 0.000 <td></td> <td></td> <td></td> <td>a</td> <td>20.79</td> <td></td> <td></td> <td>4,000</td> <td>10,000</td> <td>1200</td> <td>6700</td> <td>5,100</td> <td></td> <td></td> <td>2900</td> <td></td> | | | | a | 20.79 | | | 4,000 | 10,000 | 1200 | 6700 | 5,100 | | | 2900 | |
| MW3 05/12/99 101.29 a 19.22 82.07 0.0083 < | | 02/26/99 | 101.29 | a | 18.02 | 83.27 | 0.00 | | | | | | | | | |
| MW3 12/15-16/99 101.29 a 22/43 78.86 0.00 ** | | 03/24/99 | 101.29 | a | 18.37 | | | | | | | | | | | |
| MW3 03/20/00 101.29 a 17.14 84.15 0.00 <td></td> <td></td> <td></td> <td>a</td> <td></td> | | | | a | | | | | | | | | | | | |
| MW3 07/20/00 101.29 a 20.98 80.31 0.00 5.700 14,000 1,600 9,300 69,000 2,900 300 3,300 MW3 10/11/00 101.29 a 22.24 79.05 0.00 </td <td></td> <td></td> <td></td> <td>a</td> <td></td> <td></td> <td></td> <td>*</td> <td>*</td> <td>*</td> <td>*</td> <td>*</td> <td>*</td> <td>*</td> <td>*</td> <td></td> | | | | a | | | | * | * | * | * | * | * | * | * | |
| MW3 10/11/00 101.29 a 2.2.24 79.05 0.00 </td <td></td> | | | | | | | | | | | | | | | | |
| MW3 04/10-11/01 101.29 a 2.07.0 80.59 0.00 7,200 <0.001 2,300 12,900 110,000 4,700 <1,500 4,300 MW3 07/10/01 101.29 a 21.79 79.32 0.00 | | | | | | | | 5,700 | 14,000 | 1,600 | 9,300 | 69,000 | | <300 | 3,300 | |
| MW3 07/10/01 101.29 a 21.97 79.32 0.00 <td></td> | | | | | | | | | | | | | | | | |
| MW3 11/20/01 65.99 b 22.80 43.19 0.00 6,300 16,000 2,400 14,900 100,000 5,900 4,000 4,000 MW3 02/19/02 65.99 b 20.11 45.88 0.00 | | | | | | | | | | | 1 | | | | | |
| MW3 02/19/02 65.99 b 20.11 45.88 0.00 <td></td> | | | | | | | | | | | | | | | | |
| MW3 05/21/02 65.99 b 21.20 44.79 0.00 6,500 17,000 2,200 12,700 91,000 14,000 <3,000 2,200 MW3 06/27/03 65.99 b 21.32 44.67 sheen | | | | | | | | | | | | , | | | | |
| MW3 06/27/03 65.99 b 21.32 44.67 sheen <td></td> | | | | | | | | | | | | | | | | |
| MW3 09/29/03 65.99 b 22.79 43.20 sheen * </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>6,500</td> <td>17,000</td> <td>2,200</td> <td>12,700</td> <td>91,000</td> <td>14,000</td> <td><3,000</td> <td>2,200</td> <td></td> | | | | | | | | 6,500 | 17,000 | 2,200 | 12,700 | 91,000 | 14,000 | <3,000 | 2,200 | |
| MW3° 12/12/03 65.99 b 22.73 43.27 0.01 * </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td> *</td> <td>*</td> <td> %</td> <td> sk</td> <td> %</td> <td>*</td> <td> *</td> <td> %</td> <td></td> | | | | | | | | * | * | % | sk | % | * | * | % | |
| MW3° 03/15/04 65.99 b 19.32 46.67 sheen *< | | | | | | | | | | | | | | | | |
| MW3 | | | | | | | | | | | | | | | | |
| MW3 09/29/04 65.99 b 22.54 43.45 0.00 2,900 6,700 980 4,300 29,000 2,200 <500 1,100 MW3 12/13/04 65.99 b 22.06 43.93 0.00 1,700 2,900 790 3,400 17,000 1,300 <500 | | | | | | | | | | | | | | | | |
| MW3 12/13/04 65.99 b 22.06 43.93 0.00 1,700 2,900 790 3,400 17,000 1,300 <500 490 MW3 ^j 03/14/05 65.99 b 24.00 41.99 0.00 680 1,700 380 1,600 10,000 670 <500 | | | | | | | | | | | | | | | | |
| MW3 ^j 03/14/05 65.99 b 24.00 41.99 0.00 680 1,700 380 1,600 10,000 670 <500 67 MW3 06/15/05 65.99 b 21.13 44.86 0.00 260 960 330 1,400 12,000 1,200 <500 | | | | | | | | | | | | | | | | |
| MW3 06/15/05 65.99 b 21.13 44.86 0.00 260 960 330 1,400 12,000 1,200 <500 31 MW3 07/18/05 65.99 b NM NC NM 1,000 5,600 1,100 4,300 23,000 1,700 81 MW3 09/26/05 65.99 b 22.92 43.07 0.00 4,000 17,000 1,900 17,000 79,000 5,100 540 270 MW3 12/12/05 65.99 b 23.30 42.69 0.00 200 710 450 1,400 7,000 550 <500 | | | | | | | | | | | | | | | | |
| MW3 07/18/05 65.99 b NM NC NM 1,000 5,600 1,100 4,300 23,000 1,700 81 MW3 09/26/05 65.99 b 22.92 43.07 0.00 4,000 17,000 1,900 17,000 79,000 5,100 540 270 MW3 12/12/05 65.99 b 23.30 42.69 0.00 200 710 450 1,400 7,000 550 <500 | | | | | | | | | | | | | | | | |
| MW3 09/26/05 65.99 b 22.92 43.07 0.00 4,000 17,000 1,900 17,000 79,000 5,100 540 270 MW3 12/12/05 65.99 b 23.30 42.69 0.00 200 710 450 1,400 7,000 550 <500 | | | | | | | | | | | | | | | | |
| MW3 12/12/05 65.99 b 23.30 42.69 0.00 200 710 450 1,400 7,000 550 <500 <10 MW3 03/29/06 65.99 b 15.70 50.29 0.00 110 300 130 490 3,800 <200 | | | | | | | | | | | | | | | | |
| MW3 03/29/06 65.99 b 15.70 50.29 0.00 110 300 130 490 3,800 <200 <100 13 MW3 06/19/06 65.99 b 19.11 46.88 0.00 160 500 320 840 7,000 <300 | | | | | | | | | | | | | | | | |
| MW3 06/19/06 65.99 b 19.11 46.88 0.00 160 500 320 840 7,000 <300 <100 3.1 MW3 09/29/06 65.99 b 21.15 44.84 0.00 1,300 2,300 720 2,900 22,000 <1500 <100 110 MW3 12/12/06 65.99 b 21.38 44.61 0.00 1,400 2,200 670 2,600 21,000 <1500 <100 130 | | | | | | | | | | | | | | | | |
| MW3 09/29/06 65.99 b 21.15 44.84 0.00 1,300 2,300 720 2,900 22,000 <1500 <100 110 MW3 12/12/06 65.99 b 21.38 44.61 0.00 1,400 2,200 670 2,600 21,000 <1500 <100 130 | | | | | | | | | | | | | | | | |
| MW3 12/12/06 65.99 b 21.38 44.61 0.00 1,400 2,200 670 2,600 21,000 <1500 <100 130 | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

TABLE 2a CUMULATIVE GROUNDWATER ELEVATION AND ANALYTICAL DATA FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

| 1 | | Casing | | Depth to | GW | SPH | PH Concentration (μg/L) | | | | | | | | |
|--------|-------------|-----------|---|----------|-----------|-----------|-------------------------|---------|---------|---------|--------|---------|--------|-------|-----|
| Well | | Elevation | | Water | Elevation | Thickness | | | Ethyl- | Total | | | | | |
| Number | Date | (feet) | | (feet) | (feet) | (feet) | Benzene | Toluene | benzene | Xylenes | TPH-g | TPH-d | TPH-mo | MTBE | TBA |
| MW3 | 06/12/07 | 65.99 | b | 21.00 | 44.99 | 0.00 | 1,800 | 4,000 | 800 | 3,300 | 22,000 | <1500 | <100 | 150 | |
| MW3 | 09/25/07 | 65.99 | b | 22.59 | 43.40 | 0.00 | 2,400 | 5,000 | 1,000 | 4,600 | 29,000 | < 500 | <100 | 220 | |
| MW3 | 12/20/07 | 65.99 | b | 22.59 | 43.40 | 0.00 | 2,400 | 4,900 | 1,100 | 4,700 | 36,000 | <2000 | <100 | 240 | |
| MW3 | 03/26/08 | 65.99 | b | 22.13 | 43.86 | 0.00 | 4,500 | 11,000 | 1,700 | 7,800 | 54,000 | <1500 | <100 | 340 | |
| MW3 | 06/03/08 | 65.99 | b | 21.81 | 44.18 | 0.00 | 3,900 | 8,700 | 1,500 | 7,000 | 47,000 | <1500 | <100 | 470 | |
| MW3 | 09/25/08 | 65.99 | b | 23.30 | 42.69 | 0.00 | 1,600 | 3,700 | 700 | 3,300 | 22,000 | <3000 | <100 | 220 | 180 |
| MW3 | 12/29/08 | 65.99 | b | 22.92 | 43.07 | 0.00 | 310 | 910 | 320 | 1,300 | 11,000 | <1500 | <100 | 35 | 23 |
| MW3 | 03/24/09 | 65.70 | 1 | 19.43 | 46.27 | 0.00 | 1,400 | 4,200 | 600 | 2,500 | 19,000 | <1,000 | <100 | 160 | 60 |
| MW3 | 06/02/09 | 65.70 | 1 | 20.70 | 45.00 | 0.00 | 2,800 | 7,600 | 1,300 | 5,600 | 39,000 | <1,500 | <100 | 240 | 180 |
| MW3 | 09/10/09 | 65.70 | 1 | 22.32 | 43.38 | 0.00 | 1,800 | 3,900 | 790 | 3,500 | 22,000 | < 1500 | < 100 | 190 | 110 |
| MW3 | 12/04/09 | 65.70 | 1 | 24.20 | 41.50 | 0.00 | 1,600 | 3,400 | 860 | 3,900 | 25,000 | < 800 | < 100 | 210 | 81 |
| MW3 | 03/10/10 | 65.70 | 1 | 22.03 | 43.67 | 0.00 | 420 | 2,400 | 640 | 3,600 | 27,000 | < 3,000 | < 100 | 24 | |
| MW3 | 05/28/10 | 65.70 | 1 | 22.84 | 42.86 | 0.00 | 1,200 | 4,600 | 920 | 4,800 | 31,000 | < 5000 | < 100 | 120 | |
| MW3 | 08/26/10 | 65.70 | 1 | 23.42 | 42.28 | sheen | | | | | | | | | |
| MW3 | 09/20/10 | 65.70 | 1 | NM | NC | sheen | 2700 | 13000 | 2900 | 18000 | 110000 | | | | |
| MW3 | 12/22/10 | 65.70 | 1 | 22.70 | 43.00 | 0.20 | | | | | | | | | |
| MW4 | 06/30/98 | 98.65 | a | 16.93 | 81.72 | 0.00 | 2,200 | 930 | 850 | 2,100 | 10,000 | | | 1,800 | |
| MW4 | 07/29/98 | 98.65 | a | 17.48 | 81.17 | 0.00 | | | | | | | | | |
| MW4 | 08/26/98 | 98.65 | a | 18.65 | 80.00 | 0.00 | | | | | | | | | |
| MW4 | 10/01/98 | 98.65 | a | 18.74 | 79.91 | 0.00 | 570 | 46 | 130 | 36 | 1,100 | | | 1,300 | |
| MW4 | 10/30/98 | 98.65 | a | 19.02 | 79.63 | 0.00 | | | | | | | | | |
| MW4 | 11/30/98 | 98.65 | a | 18.74 | 79.91 | 0.00 | | | | | | | | | |
| MW4 | 12/28/98 | 98.65 | a | 18.60 | 80.05 | 0.00 | | | | | | | | | |
| MW4 | 01/25-26/99 | 98.65 | a | 18.32 | 80.33 | 0.00 | 230 | <8.3 | <8.3 | <8.3 | 290 | | | 1,300 | |
| MW4 | 02/26/99 | 98.65 | a | 15.81 | 82.84 | 0.00 | | | | | | | | | |
| MW4 | 03/24/99 | 98.65 | a | 16.01 | 82.64 | 0.00 | | | | | | | | | |
| MW4 | 05/12/99 | 98.65 | a | 17.71 | 80.94 | 0.00 | | | | | | | | | |
| MW4 | 12/15-16/99 | 98.65 | a | 19.83 | 78.82 | 0.00 | 5.8 | < 0.50 | < 0.50 | < 0.50 | < 50 | | | 1,400 | |
| MW4 | 03/20/00 | 98.65 | a | 14.9 | 83.75 | 0.00 | | | | | | | | | |
| MW4 | 07/20/00 | 98.65 | a | 18.38 | 80.27 | 0.00 | 91 | 4.6 | 19 | 12.9 | 210 | < 50 | < 300 | 1,500 | |
| MW4 | 10/11/00 | 98.65 | a | 19.61 | 79.04 | 0.00 | | | | | | | | | |
| MW4 | 04/10-11/01 | 98.65 | a | 17.55 | 81.10 | 0.00 | 110 | < 5.0 | < 5.0 | < 5.0 | 350 | < 50 | < 300 | 1,100 | |
| MW4 | 07/10/01 | 98.65 | a | 19.34 | 79.31 | 0.00 | | | | | | | | | |
| MW4 | 11/20/01 | 63.35 | b | 20.16 | 43.19 | 0.00 | <2.5 | 4 | <2.5 | 3.7 | 96 | < 50 | <300 | 2,500 | |
| MW4 | 02/19/02 | 63.35 | b | 17.34 | 46.01 | 0.00 | | | | | | | | | |
| MW4 | 05/21/02 | 63.35 | b | 18.57 | 44.78 | 0.00 | 340 | 5.7 | 70 | <1.0 | 940 | 83 | <300 | 1,600 | |
| MW4 | 06/27/03 | 63.35 | b | 18.72 | 44.63 | 0.00 | | | | | | | | | |
| MW4 | 09/29/03 | 63.35 | b | 20.11 | 43.24 | 0.00 | < 5.0 | < 5.0 | < 5.0 | <10 | 1,100 | < 50 | < 500 | 1,700 | |
| MW4 | 12/12/03 | 63.35 | b | 20.06 | 43.29 | 0.00 | <13 | <13 | <13 | <25 | <1,300 | <50 | < 500 | 1,000 | |
| MW4 | 03/15/04 | 63.35 | b | 16.89 | 46.46 | 0.00 | 1.5 | < 0.50 | < 0.50 | <1.0 | 54 | < 50 | < 500 | 41 | |
| MW4 | 06/24/04 | 63.35 | b | 19.31 | 44.04 | 0.00 | 69 | < 5.0 | <5.0 | <10 | 920 | <50 | < 500 | 1,100 | |
| MW4 | 09/29/04 | 63.35 | b | 20.20 | 43.15 | 0.00 | <5.0 | <5.0 | <5.0 | <10 | 940 | <50 | <500 | 1,200 | |
| MW4 | 12/13/04 | ** | b | 20.44 | NC | 0.00 | <5.0 | <5.0 | <5.0 | <10 | 740 | <50 | <500 | 860 | |
| MW4 | 03/14/05 | ** | b | 18.30 | NC | 0.00 | 20 | <5.0 | <5.0 | <10 | 930 | <50 | <500 | 930 | |
| MW4 | 06/15/05 | ** | b | 20.03 | NC | 0.00 | 350 | 6.1 | <5.0 | <10 | 2100 | 89 | < 500 | 1,100 | |
| MW4 | 07/18/05 | ** | b | NM | NC | NM | 11 | <5.0 | <5.0 | <10 | 540 | <50 | | 1,100 | |
| MW4 | 09/26/05 | ** | b | 21.79 | NC | 0.00 | <5.0 | <5.0 | <5.0 | <10 | 960 | <50 | <500 | 660 | |
| MW4 | 12/12/05 | ** | b | 21.89 | NC | 0.00 | < 5.0 | <5.0 | <5.0 | <10 | 820 | <50 | <500 | 1,000 | |
| MW4 | 03/29/06 | ** | b | 14.85 | NC | 0.00 | 49 | 160 | 120 | 300 | 2,400 | <100 | <100 | 130 | |

TABLE 2a CUMULATIVE GROUNDWATER ELEVATION AND ANALYTICAL DATA FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

| | | Casing | | Depth to | GW | SPH | H Concentration (μg/L) | | | | | | | | |
|------------|----------------------|----------------|--------|----------------|----------------|-----------|------------------------|----------------|----------------|--------------|------------|------------|--------------|----------------|-------|
| Well | | Elevation | | Water | Elevation | Thickness | | | Ethyl- | Total | | , –, | | | |
| Number | Date | (feet) | | (feet) | (feet) | (feet) | Benzene | Toluene | benzene | Xylenes | TPH-g | TPH-d | TPH-mo | MTBE | TBA |
| MW4 | 06/19/06 | ** | b | 17.96 | NC | 0.00 | 100 | 940 | 540 | 1,800 | 8,800 | <400 | <100 | 55 | |
| MW4 | 09/29/06 | 63.35 | b | 19.85 | 43.50 | 0.00 | 18.0 | 2.6 | 1.5 | 3.5 | 370.0 | < 50 | <100 | 180 | |
| MW4 | 12/12/06 | 63.35 | b | 20.03 | 43.32 | 0.00 | 11.0 | 0.77 | < 0.5 | < 0.5 | 230.0 | < 50 | <100 | 260 | |
| MW4 | 03/01/07 | 63.35 | b | 18.33 | 45.02 | 0.00 | 63.0 | 7.10 | 40.0 | 190.0 | 1,800.0 | < 50 | <100 | 130 | |
| MW4 | 06/12/07 | 63.35 | b | 19.70 | 43.65 | 0.00 | 9.3 | < 0.5 | < 0.5 | < 0.5 | 70.0 | < 50 | <100 | 150 | |
| MW4 | 09/25/07 | 63.35 | b | 21.27 | 42.08 | 0.00 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 50 | < 50 | <100 | 300 | |
| MW4 | 12/20/07 | 63.35 | b | 21.30 | 42.05 | 0.00 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 50 | < 50 | <100 | 370 | |
| MW4 | 03/26/08 | 63.35 | b | 20.89 | 42.46 | 0.00 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 50 | < 50 | <100 | 260 | |
| MW4 | 06/03/08 | 63.35 | b | 20.51 | 42.84 | 0.00 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 50 | < 50 | <100 | 190 | |
| MW4 | 09/25/08 | 63.35 | b | 22.03 | 41.32 | 0.00 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 50 | < 50 | <100 | 380 | < 5.0 |
| MW4 | 12/29/08 | 63.35 | b | 21.62 | 41.73 | 0.00 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 50 | < 50 | <100 | 230 | < 5.0 |
| MW4 | 03/24/09 | 64.37 | 1 | 18.38 | 45.99 | 0.00 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 50 | < 50 | <100 | 370 | < 5.0 |
| MW4 | 06/02/09 | 64.37 | 1 | 19.32 | 45.05 | 0.00 | 0.64 | < 0.5 | < 0.5 | < 0.5 | < 50 | < 50 | <100 | 320 | < 5.0 |
| MW4 | 09/10/09 | 64.37 | 1 | 21.00 | 43.37 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | < 50 | < 100 | 280 | < 5.0 |
| MW4 | 12/04/09 | 64.37 | 1 | 22.76 | 41.61 | 0.00 | < 0.50 | < 0.50 | < 0.50 | 2.9 | < 50 | < 50 | < 100 | 430 | < 5.0 |
| MW4 | 03/10/10 | 64.37 | 1 | 20.87 | 43.50 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | < 50 | < 100 | 130 | |
| MW4 | 05/28/10 | 64.37 | 1 | 21.07 | 43.30 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | < 50 | < 100 | 140 | |
| MW4 | 08/26/10 | 64.37 | 1 | 21.71 | 42.66 | 0.00 | < 0.50 | < 0.50 | < 0.50 | 2.0 | < 50 | < 50 | <100 | 160 | |
| MW4 | 12/02/10 | 64.37 | 1 | 21.21 | 43.16 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | < 50 | <100 | 50 | |
| | | | | | | | | | | | | | | | |
| MW5 | 06/30/98 | 100.9 | a | 20.60 | 80.30 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | | | 23 | |
| MW5 | 07/29/98 | 100.9 | a | 21.52 | 79.38 | 0.00 | | | | | | | | | |
| MW5 | 08/26/98 | 100.9 | a | 22.21 | 78.69 | 0.00 | | | | | | | | | |
| MW5 | 10/01/98 | 100.9 | a | 22.95 | 77.95 | 0.00 | <1.0 | <1.0 | <1.0 | <1.0 | < 50 | | | <2.0 | |
| MW5 | 10/30/98 | 100.9 | a | 23.23 | 77.67 | 0.00 | | | | | | | | | |
| MW5 | 11/30/98 | 100.9 | a | 23.12 | 77.78 | 0.00 | | | | | | | | | |
| MW5 | 12/28/98 | 100.9 | a | 23.18 | 77.72 | 0.00 | | | | | | | | | |
| MW5 | 01/25-26/99 | 100.9 | a | 22.61 | 78.29 | 0.00 | <1.0 | <1.0 | <1.0 | <1.0 | <50 | | | <2.0 | |
| MW5 | 02/26/99 | 100.9 | a | 19.78 | 81.12 | 0.00 | | | | | | | | | |
| MW5 | 03/24/99 | 100.9 | a | 20.25 | 80.65 | 0.00 | | | | | | | | | |
| MW5 | 05/12/99 | 100.9 | a | 21.06 | 79.84 | 0.00 | | | | | | | | | |
| MW5 | 12/15-16/99 | 100.9 | a | 24.19 | 76.71 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | <50 | | | < 0.50 | |
| MW5 | 03/20/00 | 100.9 | a | 19.15 | 81.75 | 0.00 | | | | | | | | 1.0 | |
| MW5 | 07/20/00 | 100.9 | a | 21.84 | 79.06 | 0.00 | < 0.50 | 0.98 | < 0.50 | < 0.50 | <50 | <50 | <300 | 1.9 | |
| MW5 | 10/11/00 | 100.9 | a | 23.4 | 77.50 | 0.00 | | | | | | | | | |
| MW5 | 04/10-11/01 | 100.9 | a | 22.3 | 78.60 | 0.00 | < 0.50 | 2.6 | < 0.50 | 0.6 | <50 | <50 | <300 | 1.5 | |
| MW5 | 07/10/01 | 100.9 | a | 23.64 | 77.26 | 0.00 | 0.92 | 12 | 1.2 | | 140 | 860 | 2 500 | 10 | |
| MW5 | 11/20/01 | 65.59 | b | 24.65 | 40.94 43.22 | 0.00 | 0.83 | 12 | 1.2 | 11 | 140 | 860 | 2,500 | 10 | |
| MW5 MW5 | 02/19/02 05/21/02 | 65.59 65.59 | b b | 22.37 23.10 | 43.22 42.49 | 0.00 | <0.50 | <0.50 | <0.50 | <0.50 | <50 | 2,200 | <300 | <2.0 | |
| | 06/27/03 | | b L | | | | | | | | | | <300 | | |
| MW5 | | 65.59 | b | 23.07 | 42.52 | 0.00 | <0.50 | 0.52 | 7.1 | 25 | 100 | -50 | <500 | 1 <i>1</i> | |
| MW5 | 09/29/03 | 65.59 65.50 | b b | 24.38 23.90 | 41.21 | | <0.50 | 0.52 | | 35 | 100 | <50 | <500 | 1.4 | |
| MW5 | 12/12/03 | 65.59 65.59 | b h | | 41.69 | 0.00 | <0.50 | <0.50 | <0.50 | <1 <1.0 | <50 <50 | <50 | <500 | 1.5 | |
| MW5 MW5 | 03/15/04 06/24/04 | 65.59 65.59 | b b | 20.82 23.57 | 44.77 42.02 | 0.00 | <0.50 <0.50 | <0.50 <0.50 | <0.50 <0.50 | <1.0 <1.0 | <50 <50 | <50 130 | <500 <500 | <0.50 0.79 | |
| | | | | | | | | | | | | | | | |
| MW5 MW5 | 09/29/04 12/13/04 | 65.59 65.59 | b b | 24.44 23.87 | 41.15 41.72 | 0.00 | | | | | | | | | |
| | | | | | | | | | | 8 6 | 82 | <50 | -500 | -0.50 | |
| MW5 | 03/14/05 | 65.59 65.50 | b b | 20.18 | 45.41 52.63 | 0.00 | < 0.50 | 1.3 | 1.5 | 8.6 | 82 | | < 500 | < 0.50 | |
| MW5 | 06/15/05 | 65.59 65.59 | b b | 12.96 | 52.63 | 0.00 | | | | | | | | | |
| MW5 | 09/26/05 | 65.59 | b | 23.60 | 41.99 | 0.00 | | | | | | | | | |

TABLE 2a CUMULATIVE GROUNDWATER ELEVATION AND ANALYTICAL DATA FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

| | | Casing | | Depth to | GW | SPH | PH Concentration (µg/L) | | | | | | | | |
|------------|----------------------|----------------|--------|-------------|-------------|-----------|-------------------------|-----------|-----------|-----------|-------|------------|----------|--------|-------|
| Well | | Elevation | | Water | Elevation | Thickness | | | Ethyl- | Total | ۷. د | | | | |
| Number | Date | (feet) | | (feet) | (feet) | (feet) | Benzene | Toluene | benzene | Xylenes | TPH-g | TPH-d | TPH-mo | MTBE | TBA |
| MW5 | 12/12/05 | 65.59 | b | 23.84 | 41.75 | 0.00 | | | | | | | | | |
| MW5 | 03/29/06 | 65.59 | b | 17.19 | 48.40 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | 73 | < 50 | <100 | < 0.50 | |
| MW5 | 06/19/06 | 65.59 | b | 20.22 | 45.37 | 0.00 | | | | | | | | | |
| MW5 | 09/29/06 | 65.59 | b | 22.80 | 42.79 | 0.00 | | | | | | | | | |
| MW5 | 12/12/06 | 65.59 | b | 23.08 | 42.51 | 0.00 | | | | | | | | | |
| MW5 | 03/01/07 | 65.59 | b | 21.02 | 44.57 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | 54 | < 50 | <100 | < 0.50 | |
| MW5 | 06/12/07 | 65.59 | b | 22.78 | 42.81 | 0.00 | | | | | | | | | |
| MW5 | 09/25/07 | 65.59 | b | 24.45 | 41.14 | 0.00 | < 0.50 | 1.5 | < 0.50 | < 0.50 | < 50 | < 50 | <100 | 0.64 | |
| MW5 | 12/20/07 | 65.59 | b | 24.52 | 41.07 | 0.00 | | | | | | | | | |
| MW5 | 03/26/08 | 65.59 | b | 24.08 | 41.51 | 0.00 | < 0.50 | 1.5 | < 0.50 | < 0.50 | < 50 | < 50 | <100 | < 0.5 | |
| MW5 | 06/03/08 | 65.59 | b | 23.68 | 41.91 | 0.00 | | | | | | | | | |
| MW5 | 09/25/08 | 65.59 | b | 25.00 | 40.59 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | < 50 | <100 | 0.66 | < 5.0 |
| MW5 | 12/29/08 | 65.59 | b | 24.92 | 40.67 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | 71 | < 50 | <100 | < 0.5 | < 5.0 |
| MW5 | 03/24/09 | 65.59 | 1 | 21.85 | 43.74 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | < 50 | <100 | 0.54 | < 5.0 |
| MW5 | 06/02/09 | 65.59 | 1 | 22.70 | 42.89 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | < 50 | <100 | < 0.5 | < 5.0 |
| MW5 | 09/10/09 | 65.59 | 1 | 24.12 | 41.47 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | < 50 | < 100 | 0.56 | < 5.0 |
| MW5 | 12/04/09 | 65.59 | 1 | dry | | 0.00 | | | | | | | | | |
| MW5 | 03/10/10 | 65.59 | 1 | 25.90 | 39.69 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | 55 | < 50 | < 100 | 0.71 | |
| MW5 | 05/28/10 | 65.59 | 1 | 25.54 | 40.05 | 0.00 | | | | | | | | | |
| MW5 | 08/26/10 | 65.59 | 1 | 25.59 | 40.00 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | <50 | <50 | <100 | 0.52 | |
| MW5 | 12/22/10 | 65.59 | 1 | 24.80 | 40.79 | 0.00 | | | | | | | | | |
| MW6 | 07/20/00 | 96.60 | a | 18.30 | 78.30 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | <50 | < 50 | <300 | 160 | |
| MW6 | 10/11/00 | 96.60 | a | 18.69 | 77.91 | 0.00 | | | | | | | | | |
| MW6 | 04/10-11/01 | 96.60 | a | 17.85 | 78.75 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | < 50 | < 300 | 180 | |
| MW6 | 07/10/01 | 96.60 | a | 18.43 | 78.17 | 0.00 | | | | | | | | | |
| MW6 | 11/20/01 | 59.60 | b | 18.67 | 40.93 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | < 50 | <300 | 450 | |
| MW6 | 02/19/02 | 59.60 | b | 17.40 | 42.20 | 0.00 | | | | | | | | | |
| MW6 | 05/21/02 | 59.60 | b | 17.68 | 41.92 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | < 50 | <300 | 170 | |
| MW6 | 06/27/03 | 59.60 | b | 17.73 | 41.87 | 0.00 | | | | | | | | | |
| MW6 | 09/29/03 | 59.60 | b | 18.48 | 41.12 | 0.00 | <1.0 | <1.0 | <1.0 | <2.0 | 230 | <50 | < 500 | 340 | |
| MW6 | 12/12/03 | 59.60 | b | 17.89 | 41.71 | 0.00 | <2.5 | <2.5 | <2.5 | < 5.0 | <250 | 51 | <500 | 190 | |
| MW6 | 03/15/04 | 59.60 | b | 16.46 | 43.14 | 0.00 | <1.0 | <1.0 | <1.0 | <2.0 | 200 | <50 | <500 | 220 | |
| MW6 | 06/24/04 | 59.60 | b | 17.97 | 41.63 | 0.00 | <1.0 | <1.0 | <1.0 | <2.0 | 130 | <50 | <500 | 190 | |
| MW6 | 09/29/04 | 59.60 | b | 18.55 | 41.05 | 0.00 | < 0.50 | 0.61 | < 0.50 | 1.2 | 210 | <50 | < 500 | 190 | |
| MW6 | 12/13/04 | 59.60 | b | 17.88 | 41.72 | 0.00 | | | | 1.0 | 1.60 | | | 100 | |
| MW6 | 03/14/05 | 59.60 | b L | 16.82 | 42.78 | 0.00 | < 0.50 | < 0.50 | < 0.50 | 1.8 | 160 | <50 | < 500 | 190 | |
| MW6 MW6 | 06/15/05 | 59.60 59.60 | b | 17.60 NM | 42.00 NM | 0.00 | | | | | | | | | |
| MW6 MW6 | 09/26/05 12/12/05 | 59.60 59.60 | b b | NM 18.33 | NM 41.27 | 0.00 | 0.62 | <0.50 | <0.50 | 1.0 | 81 | <50 | <500 | 140 | |
| MW6 | 03/29/06 | 59.60 | b | 14.53 | 45.07 | 0.00 | < 0.50 | <0.50 | < 0.50 | < 0.50 | <50 | <50 <50 | <100 | 120 | |
| MW6 | 06/19/06 | 59.60 | b | 16.46 | 43.14 | 0.00 | | <0.50 | <0.50 | <0.50 | | | | | |
| MW6 | 09/29/06 | 59.60 | b | 17.60 | 42.00 | 0.00 | 0.87 | < 0.50 | < 0.50 | <0.50 | <50 | <50 | <100 | 140 | |
| MW6 | 12/12/06 | 59.60 | b | 16.93 | 42.67 | 0.00 | 0.67 | <0.50 | <0.50 | <0.50 | <50 | <50 | 230 | 89 | |
| MW6 | 03/01/07 | 59.60 | b | 16.30 | 43.30 | 0.00 | <0.50 | <0.50 | < 0.50 | <0.50 | <50 | <50 | <100 | 78 | |
| MW6 | 06/12/07 | 59.60 | b | 17.38 | 42.22 | 0.00 | | <0.50 | | | | | | | |
| MW6 | 09/25/07 | 59.60 | b | 18.36 | 41.24 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | <50 | <50 | <100 | 89 | |
| MW6 | 12/20/07 | 59.60 | b | 17.90 | 41.70 | 0.00 | | | | | | | | | |
| MW6 | 03/26/08 | 59.60 | b | 17.37 | 42.23 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | <50 | <100 | 68 | |
| MW6 | 06/03/08 | 59.60 | b | 17.11 | 42.49 | 0.00 | | | | | | | | | |
| | | | | | | | | | | | | | | | |

TABLE 2a CUMULATIVE GROUNDWATER ELEVATION AND ANALYTICAL DATA FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

| Number Policy P | | | Casing | | Depth to | GW | SPH | | | | Conce | ntration (µg | _z /L) | | | |
|--|----------|----------|--------|---|----------|-------|------|---------|---------|--------|--------|--------------|------------------|--------|--------|-------|
| Minor Mi | Well | | _ | | - | | | | | Ethyl- | | αιισπ (με | y — / | | | |
| MW6 | | Date | | | | | | Benzene | Toluene | | | TPH-g | TPH-d | TPH-mo | MTBE | TBA |
| MW6 | | | | h | , , | ` ′ | , , | | | | | Ü | | | | |
| MM6 | | | | | | | | | | | | | | | | |
| Miles Mil | | | | | | | | | | | | | | | | |
| Month Mon | | | | | | | | | | | | | | | | |
| My | | | | | | | | | | | | | | | | |
| MM6 | | | | | | | | | | | | | | | | |
| MM6 | | | | | | | | | | | | | | | | |
| MM6 | | | | | | | | | | | | | | | | |
| MW7 | | | | | | | | | | | | | | | | |
| MW7 | | | | | | | | | | | | | | | | |
| MW7 IOH100 96,75 a lase 1690 988 0,00 < | IVI VV O | 12/22/10 | 39.00 | 1 | 17.04 | 41.70 | 0.00 | | | | | | | | | |
| MW7 IOH100 96,75 a lase 1690 988 0,00 < | MW7 | 07/20/00 | 96.75 | a | 15.93 | 80.82 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | < 50 | <300 | < 0.50 | |
| MM7 0H/1011/01 96.75 a la 518 80.95 0.00 -0.50 | MW7 | 10/11/00 | 96.75 | a | | | | | | | | | | | | |
| MW7 07/1001 96,75 a 16,17 43,0 0.00 | | | | | | | | | | | | | | | | |
| MW7 11/2001 59,47 8 16,17 43.30 0.00 -0.5 | | | | | | | | | | | | | | | | |
| MW7 02/19/02 59,47 8 14/29 44.55 0.00 | | 11/20/01 | | | | | | < 0.50 | < 0.50 | < 0.50 | < 0.50 | | < 50 | <300 | <2.0 | |
| MW7 0521/02 59.47 8 15.18 44.29 0.00 -0.5 | | | | | | | | | | | | | | | | |
| MW7 0627/03 59.47 b 16.28 43.19 0.00 <t< td=""><td></td><td>05/21/02</td><td>59.47</td><td>b</td><td>15.18</td><td>44.29</td><td>0.00</td><td>< 0.50</td><td>< 0.50</td><td>< 0.50</td><td>< 0.50</td><td>< 50</td><td>< 50</td><td><300</td><td>< 0.50</td><td></td></t<> | | 05/21/02 | 59.47 | b | 15.18 | 44.29 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | < 50 | <300 | < 0.50 | |
| MW7 12/12/03 59.47 5 14.95 44.52 0.00 0.5 | MW7 | 06/27/03 | | b | 16.28 | 43.19 | 0.00 | | | | | | | | | |
| MW7 03/15/04 59.47 6 14.77 44.70 0.00 0.50 | MW7 | 09/29/03 | | b | 16.88 | 42.59 | 0.00 | < 0.50 | < 0.50 | < 0.50 | <1.0 | < 50 | < 50 | < 500 | 0.62 | |
| MW7 03/15/04 59.47 6 14.77 44.70 0.00 0.50 | MW7 | | | b | 14.95 | 44.52 | 0.00 | | < 0.50 | < 0.50 | | < 50 | < 50 | < 500 | < 0.50 | |
| MW7 06/24/04 59.47 b 16.38 43.14 0.00 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0. | | | | | | | | | | | | | | | | |
| MW7 | MW7 | | | b | | 43.14 | | | | | | < 50 | 300 | < 500 | | |
| MW7 12/13/04 59,47 8 15,26 44,21 0.00 < | | | | | | | | | | | | | | | | |
| MW7 06/15/05 59.47 b 15.32 44.15 0.00 <td></td> <td></td> <td></td> <td>b</td> <td></td> | | | | b | | | | | | | | | | | | |
| MWT 09/26/05 59,47 b NM NM 0.00 | MW7 | 03/14/05 | 59.47 | b | 15.00 | 44.47 | 0.00 | < 0.50 | < 0.50 | < 0.50 | <1.0 | < 50 | < 50 | < 500 | < 0.50 | |
| MW7 12/12/05 59,47 b 15.99 43.48 0.00 <td>MW7</td> <td>06/15/05</td> <td>59.47</td> <td>b</td> <td>15.32</td> <td>44.15</td> <td>0.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | MW7 | 06/15/05 | 59.47 | b | 15.32 | 44.15 | 0.00 | | | | | | | | | |
| MW7 03/29/06 59.47 b 12.65 46.82 0.00 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0. | MW7 | 09/26/05 | 59.47 | b | NM | NM | 0.00 | | | | | | | | | |
| MW7 06/19/06 59.47 b 14.49 44.98 0.00 <td>MW7</td> <td>12/12/05</td> <td>59.47</td> <td>b</td> <td>15.99</td> <td>43.48</td> <td>0.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | MW7 | 12/12/05 | 59.47 | b | 15.99 | 43.48 | 0.00 | | | | | | | | | |
| MW7 09/29/06 59.47 b 16.67 42.80 0.00 <td>MW7</td> <td>03/29/06</td> <td>59.47</td> <td>b</td> <td>12.65</td> <td>46.82</td> <td>0.00</td> <td>< 0.50</td> <td>< 0.50</td> <td>< 0.50</td> <td>< 0.50</td> <td>< 50</td> <td>< 50</td> <td><100</td> <td>< 0.50</td> <td></td> | MW7 | 03/29/06 | 59.47 | b | 12.65 | 46.82 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | < 50 | <100 | < 0.50 | |
| MW7 $12/12/06$ $59,47$ b 15.21 44.26 0.00 -1 < | MW7 | 06/19/06 | 59.47 | b | 14.49 | 44.98 | 0.00 | | | | | | | | | |
| MW7 03/01/07 59.47 b 14.68 44.79 0.00 <0.50 <0.50 <0.50 <50 <50 <100 <0.50 MW7 06/12/07 59.47 b 16.2 43.27 0.00 | MW7 | 09/29/06 | 59.47 | b | 16.67 | 42.80 | 0.00 | | | | | | | | | |
| MW7 06/12/07 59.47 b 16.2 43.27 0.00 | MW7 | 12/12/06 | 59.47 | b | 15.21 | 44.26 | 0.00 | | | | | | | | | |
| MW7 06/12/07 59.47 b 16.2 43.27 0.00 | MW7 | | 59.47 | b | 14.68 | | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | < 50 | <100 | < 0.50 | |
| MW7 09/25/07 59.47 b 16.72 42.75 0.00 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0. | MW7 | 06/12/07 | | | | 43.27 | | | | | | | | | | |
| MW7 12/20/07 59.47 b 15.02 44.45 0.00 <td></td> <td>09/25/07</td> <td></td> <td>b</td> <td>16.72</td> <td>42.75</td> <td>0.00</td> <td>< 0.50</td> <td>< 0.50</td> <td>< 0.50</td> <td>< 0.50</td> <td>< 50</td> <td>< 50</td> <td><100</td> <td>< 0.50</td> <td></td> | | 09/25/07 | | b | 16.72 | 42.75 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | < 50 | <100 | < 0.50 | |
| MW7 03/26/08 59.47 b 15.95 43.52 0.00 <0.50 <0.50 <0.50 <50 <50 <100 <0.50 MW7 06/03/08 59.47 b 14.24 45.23 0.00 | | 12/20/07 | | b | 15.02 | 44.45 | | | | | | | | | | |
| MW7 06/03/08 59.47 b 14.24 45.23 0.00 <td></td> <td></td> <td></td> <td>b</td> <td>15.95</td> <td>43.52</td> <td></td> <td>< 0.50</td> <td>< 0.50</td> <td>< 0.50</td> <td>< 0.50</td> <td>< 50</td> <td>< 50</td> <td><100</td> <td>< 0.50</td> <td></td> | | | | b | 15.95 | 43.52 | | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | < 50 | <100 | < 0.50 | |
| MW7 09/25/08 59.47 b 17.07 42.40 0.00 <0.50 <0.50 <0.50 <50 <50 <100 <0.50 <5.0 MW7 12/29/08 59.47 b 15.64 43.83 0.00 <0.50 | | 06/03/08 | | | | | | | | | | | | | | |
| MW7 12/29/08 59.47 b 15.64 43.83 0.00 <0.50 <0.50 <0.50 <50 <50 <100 <0.50 <5.0 MW7 03/24/09 59.49 1 14.57 44.92 0.00 <0.50 | | 09/25/08 | | b | | 42.40 | | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | < 50 | <100 | < 0.50 | < 5.0 |
| MW7 03/24/09 59.49 1 14.57 44.92 0.00 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0. | | 12/29/08 | 59.47 | b | 15.64 | 43.83 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | < 50 | <100 | < 0.50 | < 5.0 |
| MW7 06/02/09 59.49 1 16.10 43.39 0.00 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0. | | | | 1 | | | | < 0.50 | | < 0.50 | | < 50 | < 50 | <100 | | |
| MW7 09/10/09 59.49 1 17.10 42.39 0.00 <0.50 <0.50 <0.50 <0.50 <50 <50 <100 <0.50 <5.0 MW7 12/04/09 59.49 1 17.10 42.39 0.00 | | 06/02/09 | | 1 | | 43.39 | | < 0.50 | | | | | < 50 | <100 | | |
| MW7 12/04/09 59.49 1 17.10 42.39 0.00 | | | | 1 | | | | | | | | | | | | |
| MW7 03/10/10 59.49 1 15.17 44.32 0.00 | | | | 1 | | | | | | | | | | | | |
| MW7 05/28/10 59.49 1 15.20 44.29 0.00 | | | | 1 | | | | | | | | | | | | |
| MW7 08/26/10 59.49 1 17.10 42.39 0.00 <0.50 <0.50 <0.50 <0.50 <50 <50 <100 <0.50 | | | | | | | | | | | | | | | | |
| | | | | 1 | | | | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | < 50 | <100 | < 0.50 | |
| | | | | | | | | | | | | | | | | |

TABLE 2a CUMULATIVE GROUNDWATER ELEVATION AND ANALYTICAL DATA FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

| | | Casing | Depth to | GW | SPH | | | | Conce | ntration (µg | g/L) | | | |
|----------|----------|-----------|----------|-----------|-----------|---------|-------------|------------|---------|--------------|----------|--------|--------|-------|
| Well | | Elevation | Water | Elevation | Thickness | | | Ethyl- | Total | | | | | |
| Number | Date | (feet) | (feet) | (feet) | (feet) | Benzene | Toluene | benzene | Xylenes | TPH-g | TPH-d | TPH-mo | MTBE | TBA |
| | | | | | | | | | | | | | | |
| MW8 | 12/29/08 | NS | b 15.71 | NC | 0.00 | < 0.50 | 0.64 | < 0.50 | 0.78 | < 50 | < 50 | <100 | 1.5 | < 5.0 |
| MW8 | 03/24/09 | 57.07 | 1 16.08 | 40.99 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | < 50 | <100 | < 0.50 | < 5.0 |
| MW8 | 06/02/09 | 57.07 | 1 15.46 | 41.61 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | < 50 | <100 | < 0.50 | < 5.0 |
| MW8 | 09/10/09 | 57.07 | 1 15.58 | 41.49 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | < 50 | < 100 | 2.4 | < 5.0 |
| MW8 | 12/04/09 | 57.07 | 1 16.27 | 40.80 | 0.03 | | | | | | | | | |
| MW8 | 03/10/10 | 57.07 | 1 14.47 | 42.60 | 0.03 | | | | | | | | | |
| MW8 | 05/28/10 | 57.07 | 1 16.12 | 40.95 | 0.03 | | | | | | | | | |
| MW8 | 08/26/10 | 57.07 | 1 16.36 | 40.71 | 0.00 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | < 50 | <100 | 1.1 | |
| MW8 | 12/22/10 | 57.07 | 1 16.25 | 40.82 | 0.03 | | | | | | | | | |
| MW9A | 09/10/09 | 65.90 | 22.51 | 43.39 | 0.00 | 7,800 | 33,000 | 4,500 | 25,000 | 160,000 | < 20,000 | 410 | 1,800 | 780 |
| MW9A | 12/04/09 | 65.90 | 24.42 | 41.48 | 0.00 | | | | | | | | | |
| MW9A (m) | 12/28/09 | 65.90 | 24.62 | 41.28 | sheen | 12,000 | 34,000 | 4,300 | 24,000 | 180,000 | <200,000 | 3,400 | 2,100 | 680 |
| MW9A | 03/10/10 | 65.90 | 22.30 | 43.60 | 0.00 | 15,000 | 42,000 | 4,800 | 26,000 | 210,000 | < 40,000 | 250 | 2,300 | |
| MW9A | 05/28/10 | 65.90 | 22.62 | 43.29 (n) | 0.02 | Not Sam | pled due to | Free Produ | ct | | | | | |
| MW9A | 08/26/10 | 65.90 | 23.21 | 42.70 | 0.00 | 2,600 | 19,000 | 3,000 | 22,000 | 150,000 | <500,000 | 11,000 | 75 | |
| MW9A | 09/21/10 | 65.90 | NM | NC | 0.00 | 1,400 | 9,600 | 1,600 | 12,000 | 70,000 | | | | |
| MW9A | 12/22/10 | 65.90 | 22.63 | 43.28 | 0.00 | 4,400 | 17,000 | 1,900 | 13,000 | 83,000 | <1500 | <100 | 250 | |
| MW9B | 09/10/09 | 65.85 | 22.30 | 43.55 | 0.00 | 640 | 4,500 | 1,100 | 6,500 | 36,000 | < 3,000 | < 100 | 61 | < 50 |
| MW9B | 12/04/09 | 65.85 | 24.00 | 41.85 | 0.00 | 63 | 250 | 180 | 620 | 5,600 | < 300 | < 100 | 3.1 | < 5.0 |
| MW9B | 03/10/10 | 65.85 | 22.41 | 43.44 | 0.00 | 98 | 310 | 340 | 900 | 7,500 | < 600 | < 100 | 5.7 | |
| MW9B | 05/28/10 | 65.85 | 22.50 | 43.35 | 0.00 | 31 | 75 | 150 | 270 | 2,900 | < 400 | < 100 | 2.9 | |
| MW9B | 08/26/10 | 65.85 | 23.31 | 42.54 | 0.00 | 13 | 160 | 310 | 2,000 | 14,000 | <1000 | <100 | 88 | |
| MW9B | 09/20/10 | 65.85 | NM | NC | 0.00 | 7 | 110 | 140 | 830 | 6,200 | | | | |
| MW9B | 12/22/10 | 65.85 | 23.20 | 42.65 | 0.00 | < 0.5 | 3 | 1 | 10 | 140 | < 50 | <100 | 4.5 | |
| O1 | 09/10/09 | 65.91 | 22.44 | 43.47 | 0.00 | 960 | 2,400 | 1,000 | 4,600 | 23,000 | < 1,500 | < 100 | 180 | 84 |
| O1 | 12/04/09 | 65.91 | 24.33 | 41.58 | 0.00 | 1,000 | 3,700 | 1,700 | 7,400 | 38,000 | < 1000 | < 100 | 310 | 200 |
| O1 | 03/10/10 | 65.91 | 22.20 | 43.71 | 0.00 | 660 | 2,600 | 970 | 5,300 | 29,000 | < 1000 | < 100 | 200 | |
| O1 | 05/28/10 | 65.91 | 22.49 | 43.42 | 0.00 | 610 | 2,000 | 1,000 | 4,200 | 21,000 | < 1500 | < 100 | 270 | |
| O1 | 08/26/10 | 65.91 | 23.25 | 42.66 | 0.00 | 29 | 160 | 59 | 680 | 5,000 | < 500 | <100 | 97 | |
| O1 | 09/20/10 | 65.91 | NM | NC | 0.00 | 24 | 140 | 28 | 330 | 2,000 | | | | |
| O1 | 12/22/10 | 65.91 | 22.70 | 43.21 | 0.00 | 10 | 35 | 3 | 30 | 460 | < 50 | <100 | 220 | |

TABLE 2a CUMULATIVE GROUNDWATER ELEVATION AND ANALYTICAL DATA FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

SPH Separate-phase hydrocarbons.

GW Groundwater.

TPH-g Total Petroleum Hydrocarbons as gasoline.

TPH-d Total Petroleum Hydrocarbons as diesel.

TPH-mo Total Petroleum Hydrocarbons as motor oil.

MTBE Methyl tertiary butyl ether. TBA Tertiary Butyl Alcohol

NC Not calculated.
NS Not surveyed

μg/L Micrograms per liter.

* SPH present; not sampled.

** Well MW4 elevation modified due to site renovation activities. Not Surveyed.

Not analyzed or not sampled.

< Less than the laboratory reporting limits.

Elevations are referenced to monitoring well MW1, with assumed datum of 100.00 feet.

b Elevations based on a survey conducted August 2002 and referenced benchmark with known elevation (NGVD 29) of 60.40 feet above mean sea level.

Analysis not conducted due to broken sample containers.

d Hydrocarbon reported in the gasoline range does not match laboratory gasoline standard.

Groundwater elevation in wells with LPH are corrected by multiplying the specific gravity of gasoline (0.69) by the LPH thickness and adding this value

to the water elevation.

f Hydrocarbon reported is in the early diesel range, and does not match the laboratory diesel standard.

g Sample contained discrete peak in gasoline range and identified by lab as MTBE.

h Quantity of unknown hydrocarbon(s) in sample based on diesel.

The concentration reported reflect(s) individual or discrete unidentified peaks not matching a typical fuel pattern.

j Depth to groundwater is based on the depth of the stingers.

k Quantity of unknown hydrocarbon(s) in sample based on mtor oil.

Resurveyed Prior to 1st Quarter 2009 Measurements

m The well was not purged due to insufficient water.

Groundwater elevation corrected by substituting the "product thickness" in the water column of the well with thickness of the groundwater equivalent,

determined by multiplying the specific gravity of gasoline (0.739) by the "product thickness".

TABLE 3 HISTORICAL GRAB GROUNDWATER ANALYTICAL DATA FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

| | | | | | | Concentra | tions (µg/L) | | | |
|--------|------------|--------|---------|---------|---------|-----------|--------------|--------|---------|--------|
| Boring | | Depth | | | Ethyl- | Total | | | | |
| ID | Date | (feet) | Benzene | Toluene | benzene | Xylenes | MTBE | TPH-g | TPH-d | TPH-mo |
| | | | | | | | | | | |
| HP1 | 12/18/2003 | 26-30 | < 5.0 | < 5.0 | < 5.0 | 11 | 480 | 410 | 180 | < 500 |
| HP3 | 12/18/2003 | 32-36 | < 0.50 | < 0.50 | < 0.50 | <1.0 | 0.55 | < 50 | 75 | < 500 |
| SB3 | 12/26/2007 | 24 | 0.75 | 28 | 35 | 180 | 0.59 | 1800 | <1000 | <100 |
| SB3 | 12/26/2007 | 40 | < 0.50 | 1.1 | 5.3 | 33 | 1 | 240 | < 400 | <100 |
| SB4 | 12/26/2007 | 23 | 160 | 120 | 200 | 240 | 1.8 | 3500 | <1500 | <100 |
| SB4 | 12/26/2007 | 40 | 250 | 1400 | 280 | 2000 | 3.2 | 9900 | <1500 | <100 |
| SB5 | 12/26/2007 | 24 | 660 | 11000 | 4200 | 20000 | 34 | 110000 | <100000 | 310 |
| SB5 | 12/26/2007 | 40 | 74 | 1000 | 380 | 2400 | 31 | 13000 | < 3000 | <100 |
| SB6 | 12/26/2007 | 25 | < 0.5 | 6.6 | 3.6 | 27 | 1.2 | 210 | <100 | <100 |
| SB6 | 12/26/2007 | 40 | 85 | 1500 | 620 | 6900 | 15 | 35000 | <18000 | <100 |
| SB7 | 12/26/2007 | 40 | 120 | 1100 | 470 | 2900 | 7.9 | 20000 | <6000 | <100 |
| SB8 | 12/26/2007 | 40 | 320 | 1300 | 920 | 3100 | 100 | 17000 | < 3000 | <100 |
| SB9 | 12/26/2007 | 34 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 92 | < 50 | 69 | <100 |
| SB10 | 12/26/2007 | 21.3 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 30 | < 50 | 2200 | 5000 |
| SB11 | 12/26/2007 | 17 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 50 | < 50 | 200 | 220 |
| SB12 | 12/26/2007 | 20 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 43 | 67 | 950 | 1200 |
| SB13 | 12/26/2007 | 26 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 160 | < 50 | 3800 | 6600 |

TPH-g Total Petroleum Hydrocarbons as gasoline. TPH-d Total Petroleum Hydrocarbons as diesel. TPH-mo Total Petroleum Hydrocarbons as motor oil. less than the laboratory reporting limits.
Bold values reflect maximum detected concentrations <

660

TABLE 4 GROUNDWATER MONITORING SCHEDULE FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

| XX.11 | Groundwater | Groundwat | er Sampling and Analysis | Frequency |
|----------------|----------------------|----------------|--------------------------|-----------|
| Well Number | Gauging Frequency | BTEX and TPH-g | МТВЕ | ТЕРН |
| MW1 | Q | S | S | S |
| MW2 | Q | Q | Q | Q |
| MW3 | Q | Q | Q | Q |
| MW4 | Q | Q | Q | Q |
| MW5 | Q | S | S | S |
| MW6 | Q | S | S | S |
| MW7 | Q | A | A | A |
| MW8 | Q | A | A | A |
| MW9A | Q | Q | Q | Q |
| MW9B | Q | Q | Q | Q |
| O1 | Q | Q | Q | Q |

Q = Quarterly.

S = Semiannual (1st and 3rd Quarters).

A = Annual.

 $BTEX = Benzene, \ toluene, \ ethylbenzene, \ total \ xylenes.$

MTBE = Methyl tertiary butyl ether.

TPH-g = Total Petroleum Hydrocarbons as gasoline.

TEPH = Total Extractable Petroleum Hydrocarbons, includes TPH-diesel and TPH-motor oil.



Appendix A

Field Documents

Confluence Environmental, Inc

Equipment Calibration Log

| | | | 1 | THE Cambi | | | | 70.5 | |
|-------------------------|--------------------------------|----------|------|--------------------------|----------------------|-------------------------|------|------------|----------|
| Equipment make/model | Equipment ID/ serial number | Date | Time | Calibration Standards | Equipment Reading | Equipment Calibrated | Temp | Tech init. | Comments |
| Ultanda | 1/22/4/2 | 12/22/10 | 745 | 4, 7, 10 | | У | 14 | BH | |
| 1 | 1 | 1 | 1 | 1413 | 1413 | У | 14 | BN | |
| PROO, DO. | 7 | 1 | 1 | 100% | 1413 | y | - | BR | |
| | | | | | | | | | |
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Well Maintenance Inspection Form

| Client: \angle | RM | | | | Site: | Stro | ugh | | 0 | ake | and | 1 | | | Date: /2/22/i |
|---------------------------|--|--------------------|-------------------------|--------------|--|--|--|--------------|---------------|------------------|-------------|-------------|-----------------------------|--|---|
| Job #: <i>MI</i> | -1012 | 27 | 2 | | Site: | - 6 | Techr | nicia | ın: | | B | u | . Also | | Page of |
| | | | 10 N | | | try Indic | | 100.0 | | | | | | | |
| Inspection Point | Well Inspected - No Corrective Action Required | Cap non-functional | Lock non- functional | Lock missing | Bolts missing (# missing / # total tabs) | Tabs stripped (# stripped / # total tabs.) | Tabs broken (# broken / # of total tabs) | Annular seal | Apron damaged | Rim / Lid broken | Trip Hazard | Below Grade | Other (explain in notes) | Well Not Inspected (explain in notes) | Notes (Note any repairs made while on site) |
| HW 1 MWZ MW3 MW4 | X | | | | \angle | \angle | _ | | | | | | | | |
| MWZ | Х | | | | /, | _ | / | | | | | | | | |
| MW3 | X | | | | /, | / | / | Ļ | | | | | | | |
| Mwel | X | _ | | | 4 | 4 | / | | | _ | | _ | | | |
| MWS | | _ | | | 2/2 | 4 | / | | | | | Ц | | | |
| MWS MWCo MWT MW8 | Х | _ | | | Ζ, | /, | / | | | | | | Ш | | |
| MWT | × | | | | /, | 4 | / | | | | | | Ш | | |
| MW8 | χ | _ | | | 4 | / | / | \perp | | | | | | | |
| 14W9A 14W9B OI | × | | | | 4 | / | | | | | | | | | |
| 4w 9B | X | _ | | | 4 | 4 | / | _ | | | | e v | Н | | |
| 01 | × | | | | 4 | 4 | / | _ | | | | | | | |
| | | _ | | | / | \angle | | _ | | _ | _ | | | | |
| | | | | | / | \leq | / | \vdash | _ | | | | | | |
| | | | L | _ | / | / | / | - | _ | | - | | | | |
| | - | _ | _ | _ | / | / | / | _ | _ | | _ | | <u> </u> | | |
| | - | _ | | _ | / | / | / | | _ | | | | _ | | |
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| | | L | _ | | | | | | | 11500 | | | | | |
| Notes: | | ordina. | | | | | | 4 | | | | | | lucari. | |
| | | | | | | # TOTAL TOTA | | | | | | | | | |

Repair codes: rt=retap/ bolts added or replaced as=annular seal repair,

Confluence Environmental, Inc

Water Level Measurements

Job Number: M |- 101222 Date: 12/22/10 Client: LRM

| Well I.D. | Yough Time | Dia | Depth to | Thickness of NAPL | Depth to water (DTW) | Total Depth (measured) | Total Depth (historical) | Ref Point (TOC/ TOB) | |
|-----------|---------------|-----|----------|----------------------|----------------------------|------------------------------|--------------------------------|-------------------------|--|
| MWI | 720 | 2 | | | 21.42 | | 30.59 | TOC | |
| MW2 | 730 | 2 | | | 22.47 | 31.78 | 31.74 | | |
| цшЗ | 725 | 2 | 22.50 | 0.20 | 22.70 | | 31.88 | | |
| µw4 | 722 | 2 | | | 21.21 | | 27,54 | | |
| MWS | 711 | 2 | | | 24.80 | | 26.40 | | |
| Hwle | 705 | 2 | | | 17.84 | | 26,55 | | |
| НωТ | 708 | 2 | | | 14.94 | | 34,56 | | |
| MWB | 715 | 1 | | | 14,25 | | 26.65 | | |
| MW9A | 735 | 2 | | | 22.63 | 24.30 25:20 38,39 | 25.20 | | |
| BPWM | 733 | 2 | | | 23,20 | | 34.58 | | |
| 01 | 728 | 2 | | | 22.70 | 39.53 | 35.17 | 1_ | |
| | | | | | | | | | |
| 1 | | | | | | | - | | |
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| Job#: | M1-1012 | 22 | Sample | r: | B Myers | | Client | : | LRM | |
|-----------------------------|------------|-----------|------------------|--------------------------------|------------------------------|----------------------|-------------------|-----------|------------|--------------------------------|
| Well I | D: MW | 2 | Date: | 12/22/10 | | Site: | Former | Strougl | h Chevy, | Oakland |
| Well d | iam: 1/4" | 1"(2" | <u>]</u> 3" 4" 6 | " Other: | | DTW: 2 | 2.47 | Total I | Depth: | 31.78 |
| | | | | ler (Peri) | Waterra | Positive Air | All Indiana | | Ext. Sys | |
| | er teflon | | | | | OD: | New | Dedicate | d NA | |
| Purge | method | 3-5 | Case Volum | e Micro/L | ow-Flow E | xtraction | Other: | | | |
| Pump | depth/ | intake | : | Multiplie | FS: 1"= 0.04 | 2"= 0.16 3"= | 0.37 4"= | 0.65 5"=1 | .02 6"= 1. | .47 Radius ² X 0.16 |
| (TD - D | TW X Mult | tiplier = | 1 Volume | | 80% Reco | very (TD - | DTW X | 0.20 + [| DTW) | |
| | 1 Volume | e = | х з | = | _ (Total Pu | ırge) | | | 80%= | |
| | 100 | | | 72.84 | Purge | Volume | | | | |
| Time | Temp | рН | (ms (is) | Turbidity (NTU) | Rate (gallor mL/ min) | Removed (gal / L) | DO (mg/l) | ORP | DTW | Notes |
| tal | 18.0 | 6.9 | 2710 | 127 | | | 1.60 | -39 | | |
| na | 10.0 | 0.7 | 2110 | 161 | | | 1.00 | 07 | | |
| | | | | | | - | | | | |
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| | | | | er. | | | | | | |
| | | | | spalt | | | | | | |
| Did wel | I dewater? | YES | (NO |) | Total volu | me remove | ed: — | | (gal / L |) |
| Sample | method: | Disp Ba | iler Dec | d. Tubing (| New Tubin | g) Ext. P | ort O | ther: | | |
| | date: 12/ | 755555555 | Sample ti | | 10 | 8 | Parameter Control | at sampl | e: — | |
| | ID: Mu | | | Lab: | Kiff | | | | er of bott | les: 5 |
| Analysi | s: | TPH-G, E | STEX, MTBE, | TEPH-D, TEP | н-мо | | | | | = 1 |
| Equipm | ent blank | ID | @ | | Field blan | k ID | @ | | | |
| Duplicate ID: | | | | | Pre-purge DO: Post purge DO: | | | | | |
| Fe2 ⁺ : | | | | Pre-purge ORP: Post purge ORP: | | | | Geta | | |
| NAPL depth: Volume of NAPL: | | | | | or and a succession | 64 | Volu | me rem | | ml |

| Job#: | M1-1012 | 22 | Sample | r: | B Myers | | Client: LRM | | | | |
|------------------|---------------------|------------------|-------------------|-------------|-----------------------------------|--------------------------------|--------------|--------------------------------|-------------|---------------------------------|--|
| Well I | D: MW | 3 | Date: | 12/22/10 | | Site: | Former | Stroug | h Chevy, | Oakland | |
| | iam: 1/4" equip: | | 3" 4" 6 | |) Waterra | DTW: 2 | | | Depth: | | |
| | er teflon | | | der (Peri | Tubing: | | | Dedicate | | eciii | |
| | | | | ne Micro/Lo | | | | | | | |
| | depth/ | | | | | | | 0.65 5"=1 | .02 6"= 1. | .47 Radius ² X 0.163 | |
| (TD - D | TW X Mult | iplier = | 1 Volume | | 80% Reco | very (TD - | DTW X | 0.20 + [| OTW) | | |
| | 1 Volume | e = | х з | = | _ (Total Pu | ırge) | | | 80%=_ | | |
| Time | Temp (°c / °F) | pН | Cond (mS / µS) | Turbidity | Purge Rate (gal or mL/ mln) | Volume Removed (gal / L) | DO (mg/l) | ORP | DTW | Notes | |
| | No | darar | nefers | taker | 1 che | f- | 57/ | Dre | ocnc | 0 | |
| - | No | | ole x | iken i | 1 Der | che | ,+ | regue | ×2× | * | |
| | ch | , / <u>(e</u> | 87 | reserve | 81 | 2 57 | 1/ | | | - | |
| | | | | | | | | | | | |
| - | No | TI | ta | lea c | luc 9 | 6 57 | H | | | | |
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| | | | | | | | | | | | |
| | | | | | | | | L | | | |
| | dewater? | PC/031 PC/ | NØ | | - | me remove | 760 ×5300 | -/ | (gal / L | .) | |
| | method: | / | | d. Tubing C | New Tubir | g Ext. P | / | thér: | | | |
| CARD SEATO | date: 12 | / | Sample ti | | COMORYA | | IDTW a | t sampl | | -/- | |
| Sample | / | W3_ | | Lab: | Kiff | _/ | | Numbe | er of bott | les: | |
| Analysi | / | 988 X | | TEPH-D, TEP | | | (20) | | _ | | |
| 7 | ent blank | ID | <u>@/</u> | | Field blan | | @ | Post of | uraa DO | r | |
| Duplica Fe2+: | ie iD. | | / | | Pre-purge ORP: | | | Post purge DO: Post purge ORP: | | | |
| | depth: 2 | 2,70 | Volume o | f NAPL: | 0.20 f | 8 | Volu | me rem | | ml | |

| Job#: | M1-1012 | 22 | Sampler: B Myers | | | Client: LRM | | | | |
|--------------------|-----------|-----------|----------------------------|-------------|------------|-------------------|-----------------|---|--|---------------------------------|
| Well I | D: HW- | 4 | Date: | 12/22/10 | | Site: | Former | Stroug | h Chevy | , Oakland |
| | | - | 3" 4" 6 | | | DTW: 21 | 20 10 | 1000 | 20 | 27.54 |
| Purge | equip: | ES - dian | n: Blado | ler Peri | Waterra | Positive Air | r Displace | ement | Ext. Sy | stem |
| | er teflor | | | | Tubing: | - (0) " V:- | New | Dedicate | d NA | |
| | | | | e Micro/Lo | | | Other: | News Park | series avends | CNG CONTROL NO CONTROL |
| - | depth/ | 7-1-2 | and the best of the second | | | | | | | .47 Radius ² X 0.163 |
| (10-0 | 1 Volume | 1 | 1 Volume | = 3 | (Total Pu | very (TD - | DIWX | 24 10 10 10 10 10 10 10 10 10 10 10 10 10 | 7 T-05 T-08 T-08 T-08 T-08 T-08 T-08 T-08 T-08 | 27.48 |
| Time | Temp | pН | Cond (ms (µs) | Turbidity | Purge | Volume Removed | DO (mg/l) | ORP | 1-04000000 | Notes |
| hal | 18.1 | 7.1 | 939 | COOT | | | 0.40 | 1110 | _ | |
| 749 | 18.4 | 6.9 | 907 | 71000 | | / | 0.39 | //7 | | |
| 751 | 18.6 | 6.7 | 905 | 71000 | _ | 653,525 | 035 | 117 | | |
| 753 | 18.8 | 6.7 | 898 | 71000 | | 3 | 0.30 | 115 | | |
| - | | | | | | | | | | |
| | | | | 0 | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | - 57 | 2.0 | | | | | | | | |
| Did well | dewater | ? YES | NO | | Total volu | ime remove | ed: - | 3 | (gal / L | .) |
| Sample | method: | Disp Ba | iler Dec | d. Tubing | New Tubir | g Ext. P | ort Ot | her: | | |
| Sample | date: 12 | /22/10 | Sample ti | me: | 755 | | DTW a | t sampl | e: - | |
| Sample | ID: MA | v-4 | | Lab: | Kiff | | | Numbe | er of bott | les: 5 |
| Analysis | 3: | TPH-G, E | STEX, MTBE, | TEPH-D, TEP | н-мо Т | | | | W.H | |
| Equipm | ent blank | ID | @ | | Field blan | k ID | @ | T . | | |
| Duplicate ID: | | | | | Pre-purge | | Post purge DO: | | | |
| Fe2 ⁺ : | | | | | Pre-purge | | Post purge ORP: | | | |
| NAPL o | lepth: | | Volume o | f NAPL: | | | Volu | me rem | oved: | ml |

| Job#: | M1-1012 | 222 | Sampler | ; | B Myers | | Client: LRM | | | | |
|--|------------|------------|-------------------|--|-----------------------------------|--------------------------------|-----------------|----------------|--|---------------------------------|--|
| Well II | D: MW | 9A | Date: | 12/22/10 | | Site: | Former | Strougl | h Chevy, | Oakland | |
| Well d | iam: 1/4 | " 1"(2" | J3" 4" 6 | " Other: | | DTW: 2 | 2,63 | Total I | Depth: | | |
| | | - | | ler Peri |)Waterra | Positive Ai | -1/1 | | | | |
| disp baile | | | other: | | | | | Dedicate | d NA | | |
| | | _ | | | | Extraction | | | 48 | 18 (4) | |
| | depth/ | | | Multiplie | | | | | and the same of th | .47 Radius ² X 0.163 | |
| (TD - DT | TW X Mul | ltiplier = | 1 Volume | The State of the S | 80% Reco | overy (TD - | DTW X | 0.20 + 1 | OTW) | | |
| | 1 Volum | e = | х з | = | _ (Total P | urge) | | | 80%=_ | | |
| Time | Temp | pН | Cond (ms),is) | Turbidity | Purge Rate (gal or mL/ min) | Volume Removed (gal / L) | DO (mg/l) | ORP | DTW | Notes | |
| 950 | 110.8 | 108 | 2/3/ | 54 | | | | -45 | _ | | |
| | No | | | ohie | to Die | Sence | F3 | | amt. | F SPH | |
| | | | | | | | | | = | 2000000 | |
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| 13 | | | | | | | | | | | |
| | | - | | | | 14. | - | | | | |
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| | | +21 | 9 | 1.0 | | | | | | | |
| Did wel | l dewater | ? YES | (NO) | > | Total volu | ume remov | ed: - | | (gal / L | .) | |
| Sample | method: | Disp Ba | ailer Dec | d. Tubing | New Tubir | ng) Ext. P | ort O | ther: | | | |
| Sample | date: 12 | 2/22/10 | Sample ti | me: 8 | 028 | | DTW a | at sampl | e: - | | |
| Sample | | WPA | 4 | Lab: | Kiff | | William | | | les: 5 | |
| de aminos de la composición dela composición de la composición de la composición de la composición de la composición dela composición de la composición dela composición dela composición de la composición de la composición de la composición dela composic | - Contract | | | | Mary of the Es | | | Transc | . 0. 0011 | | |
| Analysi | S: | IPH-G, E | SIEX, MIBE, | TEPH-D, TEP | | te me | | | | | |
| Equipm | ent blank | (ID | @ | | Field blar | @ | | | | | |
| Duplicate ID: | | | | | Pre-purge DO: | | | Post purge DO: | | | |
| Fe2 ⁺ : | | | | | Pre-purge | | Post purge ORP: | | | | |
| NAPL depth: Volume of NAPL: Volu | | | | | | Volume removed: ml | | | | | |

Development Data Sheet

| ob#: M1-101222 | Sample | | P. Muore | | Client: | LRM |
|---|-------------------|---|-----------------------------------|--------------------------------|-----------|--|
| | 2000 AU | 100000000000000000000000000000000000000 | | | | AN ANALY SHEET BEAUTIFE |
| Vell ID: MW역A | Date: | 12/22/10 | | Site: | | rough Chevy, Oakland |
| Vell diam: 1/4" 1" 2" | 3" 4" 6" | Other: | DTW: 7 | 12.63 | TD Befor | e: 74.30 TD After: 25.20 |
| Purge equip: ES - diam | | | | Positive Ai | - | |
| isp bailer teflon bailer ength of time surge | | | | olock use | | N |
| rump depth/ intake | | | | | | .65 5"=1.02 6"= 1.47 Radius ² X 0.163 |
| TD - DTW X Multiplier = ' | | | | overy (TD - | | |
| Volume = X 1 | ASSESS: | | | | | |
| Volume – X | 1 1 | _ (10tal F | uige) | | Meter(s): | |
| Temp Time 🐨 °F) pH | Cond (ms/ເຮັງ) | Turbidity | Purge Rate (gal or mL/ min) | Volume Removed (gal / L) | DTW | Notes |
| 950 | | 71000 | | 0.5 | | TO = 3010 |
| 005 17.6 11.1 | , | , | | 0,3 | | TO = 25.10 |
| Nell | dewar | tercol | | | | |
| 1025 17.5 11.1 | 22.19m | s >1000 | - | - | | TD-25.14 |
| Well | clewas | tercol | | | | TD= 25,18 |
| | 21.419 ms | COSCOUNTS CO. | | | _ | |
| | dena | 16.659 | | | | TD = 25.20 |
| | | | | | | |
| Deckpy | aut : | c/ (| chen | 7 | | |
| / | _ ′ | | 98 | | | , |
| | | | | | | |
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| | | | | | | |
| | | | | | | |
| Did well dewater? YES |) ио | | Total vol | lume remov | ed: ≈ / | / (gal / L) |
| Sample method (if applica | able): Disp (| Bailer [| Ded. Tubir | ng New Ti | ubing Ex | t. Port Other: |
| Sample date: | Sample ti | me: | | 7 | DTW at s | apriple: / |
| Sample ID: | | Lab: | / | | Number o | of bottles: |
| Analysis: | | | | | | |

| | Job#: | M1-1012 | 22 | Sampler: B Myers | | | Client: LRM | | | | | |
|-----|--------------------|--|---------|---------------------|----------------------|--------------|--|-------------------------|-------------|--|---------------------------------|--|
| | Well II | D: MWO | ദ്ര | Date: | 12/22/10 | | Site: | Former | Stroug | h Chevy, | Oakland | |
| 1 | Well d | | 1"(2" | 3" 4" 6 n: Bladd | " Other: der Peri | | DTW: 2 | | | Depth: | 38,37 stem | |
| 2 | disp baile | r teflor | bailer_ | other: | _ | Tubing: | Contract to the second | New | Dedicate | d NA | | |
| | | | | | Micro/Lo | | | Other: | 0.22.722.73 | 14 20 Carron | | |
| 8.5 | | depth/ | | 1 Volume | минирне | 80% Reco | Control of the Contro | CHARLEST AND A STATE OF | | Contract Con | .47 Radius ² X 0.163 | |
| 12 | (10-01 | | | 65. 5 | = | 53-71 50-705 | 200 | DIWA | terentino-t | 80%= | | |
| ſ | Time | Temp (°c/°F) | pН | Cond (ms /(ss)) | Turbidity | Purge | Volume Removed | DO (mg/l) | ORP | DTW | Notes | |
| ca1 | 840 | 18.0 | 8.0 | 3842 | 12 | | | 5,3 | -36 | | | |
| | | | | | | | | | | 4 | | |
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| 1 | | | | | les e | | | | | | | |
| 1 | | | | | | | | | | | | |
| | Did well | dewater' | YES | (NO) |)) | Total volu | ime remove | ed: | _ | (gal / L | .) | |
| | Sample | method: | Disp Ba | iler De | d. Tubing (| New Tubir | g) Ext. P | ort O | ther: | | | |
| | Sample | date: 12 | /22/10 | Sample ti | ime: 84 | 0 | | DTW a | at sampl | e: — | | |
| | Sample | ID: MW | 9B | 10 | Lab: | Kiff | | | Numbe | er of bott | les: 5 | |
| | Analysis | and the same of th | | STEX, MTBE, | TEPH-D, TEP | РН-МО | | | | | | |
| | Equipm | ent blank | ID | @ | | Field blan | k ID | @ | | | | |
| | Duplica | te ID: | | | | Pre-purge | DO: | | Post p | urge DO | : | |
| | Fe2 ⁺ : | | | | | Pre-purge | ORP: | | Post p | urge OR | P: | |
| | NAPL o | lenth: | | Volume o | f NAPI | | | Volu | ıme rem | oved. | ml | |

| Job#: | M1-1012 | 22 | Sample | r: | B Myers | | Client | : | LRM | | | |
|----------------------|-----------------|-------------------|-----------------|--------------------|--------------------------|--|--------------|---------------|------------|------------------|--|--|
| Well I | D: 01 | | Date: | 12/22/10 | | Site: | Former | Strough | n Chevy, | Oakland | | |
| Well d | iam: 1/4" | 1" (2' | D3" 4" 6 | " Other: | | Positive Air Displacement Ext. System OD: New Dedicated NA | | | | | | |
| Purge | equip: | ES - diar | n: Blado | der (Peri | | | | | | | | |
| | er teflor | | | \ | | | | | | | | |
| | depth/ | 0.00 | | _ | | Extraction Other: 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"=1.02 6"= 1.47 Radius | | | | | | |
| | | | 1 Volume | | | very (TD - | | | | | | |
| | 1 Volume | » = | ХЗ | = | (Total Po | irae) | | | 80%= | | | |
| - 100 | Voiding | | T | | Purge | Volume | | | | | | |
| Time | Temp (°c)°F) | pН | Cond (ms/(s) | Turbidity (NTU) | Rate (gal or mL/ min) | | DO (mg/l) | ORP | DTW | Notes | | |
| 9520 | 18.0 | 9.9 | 4199 | 360 | _ | | 2.3 | -186 | | | | |
| | | | | | | | | | | | | |
| | | | | ~~~ | | - | | | | | | |
| | | | | | | | | | | - | | |
| | | 11 | | | | | | | | 1g= | | |
| | | 20C-W99 | | | | | | | | | | |
| - VA-U-L | 1 | | | | | | | | | | | |
| | | | | | | | | | | MG1.5300-0-300VC | | |
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| | - | 0.017/25 | - | | | | | | | | | |
| - | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Did wel | dewater | YES | (NO | | Total volu | ume remov | ed: | | (gal / L | .) | | |
| Sample | method: | Disp B | ailer De | d. Tubing | New Tubir | ng) Ext. P | ort O | ther: | | | | |
| | date: 12 | | Sample t | ime: 8 | 320/ | 1 | DTW = | at sampl | ۵ | | | |
| | | <u> </u> | Toample t | - V21 | 10000 | | DIVE | L | | | | |
| Sample | ID; | \mathcal{O}^{1} | | Lab: | Kiff | | | Numbe | er of bott | les: 5 | | |
| Analysi | s: | TPH-G, | BTEX, MTBE, | TEPH-D, TEP | H-MO | | | | | - | | |
| Equipment blank ID @ | | | | | Field blar | nk ID | @ | | | | | |
| Duplicate ID: | | | | | Pre-purge | | | Post p | urge DO | \$ | | |
| Fe2+: | | | | | Pre-purge | | | Transition of | urge OR | 42% | | |
| Assertances: | 25 12 | | 1016 EV | 524V2/6432354I | Trie-buige | ONP. | 1 323.5 | | | - CK | | |
| NAPL (| depth: | | Volume of | f NAPL: | | | Volu | me rem | ioved: | ml | | |



Appendix B

Laboratory Analytical Reports and Chain-of-Custody Documentation



Date: 01/03/2011

Laboratory Results

Mehrdad Javaherian LRM Consulting, Inc. 1534 Plaza Lane, #145 Burlingame, CA 94010

Subject: 5 Water Samples

Project Name: Former Strough Chevy - Oakland

Project Number: M1-101222

Dear Mr. Javaherian,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed. Testing procedures comply with the 2003 NELAC standard. All soil samples are reported on a total weight (wet weight) basis unless noted otherwise in the case narrative. Laboratory results relate only to the samples tested. This report may be freely reproduced in full, but may only be reproduced in part with the express permission of Kiff Analytical, LLC. Kiff Analytical, LLC is certified by the State of California under the National Environmental Laboratory Accreditation Program (NELAP), lab # 08263CA. If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,



Date: 01/03/2011

Subject: 5 Water Samples

Project Name: Former Strough Chevy - Oakland

Project Number: M1-101222

Case Narrative

Surrogate Recovery for sample MW9A for test method Mod. EPA 8015 was outside of control limits. This may indicate a bias in the analysis due to the sample's matrix or an interference from compounds present in the sample.



Date: 01/03/2011

Project Name : Former Strough Chevy - Oakland

Project Number: M1-101222

Sample: MW2 Matrix: Water Lab Number: 75856-01

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date/Time Analyzed |
|--|-------------------|------------------------------|------------|--------------------|-----------------------|
| Benzene | 130 | 15 | ug/L | EPA 8260B | 12/23/10 05:05 |
| Toluene | 1100 | 15 | ug/L | EPA 8260B | 12/23/10 05:05 |
| Ethylbenzene | 430 | 15 | ug/L | EPA 8260B | 12/23/10 05:05 |
| Total Xylenes | 6000 | 15 | ug/L | EPA 8260B | 12/23/10 05:05 |
| Methyl-t-butyl ether (MTBE) | 640 | 15 | ug/L | EPA 8260B | 12/23/10 05:05 |
| TPH as Gasoline | 26000 | 1500 | ug/L | EPA 8260B | 12/23/10 05:05 |
| 1,2-Dichloroethane-d4 (Surr) | 96.7 | | % Recovery | EPA 8260B | 12/23/10 05:05 |
| Toluene - d8 (Surr) | 94.7 | | % Recovery | EPA 8260B | 12/23/10 05:05 |
| TPH as Diesel (w/ Silica Gel) (Note: MRL increased due to interference | < 3000 | 3000 | ug/L | M EPA 8015 | 12/28/10 00:25 |
| • | | • | • | M EDA 9045 | 10/00/10 00:05 |
| TPH as Motor Oil (w/ Silica Gel) | < 100 | 100 | ug/L | M EPA 8015 | 12/28/10 00:25 |
| Octacosane (Silica Gel Surr) | 92.9 | | % Recovery | M EPA 8015 | 12/28/10 00:25 |



Date: 01/03/2011

Project Name : Former Strough Chevy - Oakland

Project Number: M1-101222

Sample: MW4 Matrix: Water Lab Number: 75856-02

| Parameter Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date/Time Analyzed |
|----------------------------------|-------------------|------------------------------|------------|--------------------|-----------------------|
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 12/23/10 06:10 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 12/23/10 06:10 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 12/23/10 06:10 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 12/23/10 06:10 |
| Methyl-t-butyl ether (MTBE) | 50 | 0.50 | ug/L | EPA 8260B | 12/23/10 06:10 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 12/23/10 06:10 |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | % Recovery | EPA 8260B | 12/23/10 06:10 |
| Toluene - d8 (Surr) | 99.9 | | % Recovery | EPA 8260B | 12/23/10 06:10 |
| TPH as Diesel (w/ Silica Gel) | < 50 | 50 | ug/L | M EPA 8015 | 12/28/10 01:23 |
| TPH as Motor Oil (w/ Silica Gel) | < 100 | 100 | ug/L | M EPA 8015 | 12/28/10 01:23 |
| Octacosane (Silica Gel Surr) | 94.4 | | % Recovery | M EPA 8015 | 12/28/10 01:23 |



Date: 01/03/2011

Project Name: Former Strough Chevy - Oakland

Project Number: M1-101222

Sample: MW9A Matrix: Water Lab Number: 75856-03

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date/Time Analyzed |
|--|-------------------|------------------------------|------------|--------------------|-----------------------|
| Benzene | 4400 | 70 | ug/L | EPA 8260B | 12/23/10 05:39 |
| Toluene | 17000 | 70 | ug/L | EPA 8260B | 12/23/10 05:39 |
| Ethylbenzene | 1900 | 70 | ug/L | EPA 8260B | 12/23/10 05:39 |
| Total Xylenes | 13000 | 70 | ug/L | EPA 8260B | 12/23/10 05:39 |
| Methyl-t-butyl ether (MTBE) | 250 | 70 | ug/L | EPA 8260B | 12/23/10 05:39 |
| TPH as Gasoline | 83000 | 7000 | ug/L | EPA 8260B | 12/23/10 05:39 |
| 1,2-Dichloroethane-d4 (Surr) | 97.0 | | % Recovery | EPA 8260B | 12/23/10 05:39 |
| Toluene - d8 (Surr) | 94.6 | | % Recovery | EPA 8260B | 12/23/10 05:39 |
| TPH as Diesel (w/ Silica Gel) | < 1500 | 1500 | ug/L | M EPA 8015 | 12/28/10 02:22 |
| (Note: MRL increased due to interference | from Gasoline-r | ange hydrod | carbons.) | | |
| TPH as Motor Oil (w/ Silica Gel) | < 100 | 100 | ug/L | M EPA 8015 | 12/28/10 02:22 |
| Octacosane (Silica Gel Surr) | 67.8 | | % Recovery | M EPA 8015 | 12/28/10 02:22 |



Date: 01/03/2011

Project Name : Former Strough Chevy - Oakland

Project Number: M1-101222

Sample: MW9B Matrix: Water Lab Number: 75856-04

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date/Time Analyzed |
|----------------------------------|-------------------|------------------------------|------------|--------------------|-----------------------|
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 12/23/10 18:04 |
| Toluene | 2.6 | 0.50 | ug/L | EPA 8260B | 12/23/10 18:04 |
| Ethylbenzene | 1.1 | 0.50 | ug/L | EPA 8260B | 12/23/10 18:04 |
| Total Xylenes | 9.9 | 0.50 | ug/L | EPA 8260B | 12/23/10 18:04 |
| Methyl-t-butyl ether (MTBE) | 4.5 | 0.50 | ug/L | EPA 8260B | 12/23/10 18:04 |
| TPH as Gasoline | 140 | 50 | ug/L | EPA 8260B | 12/23/10 18:04 |
| 1,2-Dichloroethane-d4 (Surr) | 100 | | % Recovery | EPA 8260B | 12/23/10 18:04 |
| Toluene - d8 (Surr) | 99.7 | | % Recovery | EPA 8260B | 12/23/10 18:04 |
| TPH as Diesel (w/ Silica Gel) | < 50 | 50 | ug/L | M EPA 8015 | 12/28/10 03:20 |
| TPH as Motor Oil (w/ Silica Gel) | < 100 | 100 | ug/L | M EPA 8015 | 12/28/10 03:20 |
| Octacosane (Silica Gel Surr) | 87.2 | | % Recovery | M EPA 8015 | 12/28/10 03:20 |



Date: 01/03/2011

Project Name: Former Strough Chevy - Oakland

Project Number: M1-101222

Sample: **O1** Matrix: Water Lab Number: 75856-05

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date/Time Analyzed |
|----------------------------------|-------------------|------------------------------|------------|--------------------|-----------------------|
| Benzene | 9.8 | 0.50 | ug/L | EPA 8260B | 12/23/10 06:45 |
| Toluene | 35 | 0.50 | ug/L | EPA 8260B | 12/23/10 06:45 |
| Ethylbenzene | 3.4 | 0.50 | ug/L | EPA 8260B | 12/23/10 06:45 |
| Total Xylenes | 30 | 0.50 | ug/L | EPA 8260B | 12/23/10 06:45 |
| Methyl-t-butyl ether (MTBE) | 220 | 0.50 | ug/L | EPA 8260B | 12/23/10 06:45 |
| TPH as Gasoline | 460 | 50 | ug/L | EPA 8260B | 12/23/10 06:45 |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | % Recovery | EPA 8260B | 12/23/10 06:45 |
| Toluene - d8 (Surr) | 96.7 | | % Recovery | EPA 8260B | 12/23/10 06:45 |
| TPH as Diesel (w/ Silica Gel) | < 50 | 50 | ug/L | M EPA 8015 | 12/28/10 04:18 |
| TPH as Motor Oil (w/ Silica Gel) | < 100 | 100 | ug/L | M EPA 8015 | 12/28/10 04:18 |
| Octacosane (Silica Gel Surr) | 94.2 | | % Recovery | M EPA 8015 | 12/28/10 04:18 |

Date: 01/03/2011

QC Report : Method Blank Data

Project Name : Former Strough Chevy - Oakland

| | Measured | Method Reporting | ם | Analysis | Date |
|----------------------------------|----------|---------------------|-------|------------|------------|
| Parameter | Value | Limit | Units | Method | Analyzed |
| TPH as Diesel (w/ Silica Gel) | < 50 | 50 | ug/L | M EPA 8015 | 12/27/2010 |
| TPH as Motor Oil (w/ Silica Gel) | < 100 | 100 | ug/L | M EPA 8015 | 12/27/2010 |
| Octacosane (Silica Gel Surr) | 92.0 | | % | M EPA 8015 | 12/27/2010 |
| | | | | | |
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 12/23/2010 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 12/23/2010 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 12/23/2010 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 12/23/2010 |
| Methyl-t-butyl ether (MTBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 12/23/2010 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 12/23/2010 |
| 1,2-Dichloroethane-d4 (Surr) | 102 | | % | EPA 8260B | 12/23/2010 |
| Toluene - d8 (Surr) | 97.3 | | % | EPA 8260B | 12/23/2010 |
| | | | | | |
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 12/23/2010 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 12/23/2010 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 12/23/2010 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 12/23/2010 |
| Methyl-t-butyl ether (MTBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 12/23/2010 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 12/23/2010 |
| 1,2-Dichloroethane-d4 (Surr) | 100 | | % | EPA 8260B | 12/23/2010 |
| Toluene - d8 (Surr) | 99.1 | | % | EPA 8260B | 12/23/2010 |
| | | | | | |

| Parameter | Measured Value | Method Reporti Limit | | Analysis Method | Date Analyzed |
|------------------------------|-------------------|----------------------------|------|--------------------|------------------|
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 12/22/2010 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 12/22/2010 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 12/22/2010 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 12/22/2010 |
| Methyl-t-butyl ether (MTBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 12/22/2010 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 12/22/2010 |
| 1,2-Dichloroethane-d4 (Surr) | 102 | | % | EPA 8260B | 12/22/2010 |
| Toluene - d8 (Surr) | 98.4 | | % | EPA 8260B | 12/22/2010 |

Date: 01/03/2011

Project Name : Former Strough Chevy - Oakland

QC Report : Matrix Spike/ Matrix Spike Duplicate

| Parameter | Spiked Sample | Sample Value | Spike Level | Spike Dup. Level | Spiked Sample Value | Duplicate Spiked Sample Value | e Units | Analysis Method | Date Analyzed | Spiked Sample Percent Recov. | Duplicat Spiked Sample Percent Recov. | Relative | Spiked Sample Percent Recov. Limit | Relative Percent Diff. Limit |
|----------------------|------------------|-----------------|----------------|------------------------|---------------------------|--|------------|--------------------|------------------|---------------------------------------|---|----------|--|---------------------------------------|
| TPH-D (Si Gel) | DI 41114 | | 4000 | 4000 | 224 | | , | | 10/07/10 | 00.4 | | 4 40 | 7 0.400 | 0- |
| | BLANK | <50 | 1000 | 1000 | 864 | 877 | ug/L | M EPA 8015 | 12/27/10 | 86.4 | 87.7 | 1.42 | 70-130 | 25 |
| Benzene | | | | | | | | | | | | | | |
| Ethylbenzene | 75826-05 | <0.50 | 40.0 | 40.0 | 38.8 | 38.3 | ug/L | EPA 8260B | 12/23/10 | 96.9 | 95.8 | 1.14 | 80-120 | 25 |
| , | 75826-05 | <0.50 | 40.0 | 40.0 | 41.5 | 41.0 | ug/L | EPA 8260B | 12/23/10 | 104 | 102 | 1.14 | 80-120 | 25 |
| Methyl-t-butyl ether | 75826-05 | 20 | 39.9 | 39.9 | 58.0 | 58.4 | ua/l | EPA 8260B | 12/23/10 | 06.4 | 97.4 | 1.00 | 69.7-121 | 25 |
| P + M Xylene | 75020-05 | 20 | 39.9 | 39.9 | 56.0 | 30. 4 | ug/L | EPA 0200B | 12/23/10 | 90.4 | 97.4 | 1.00 | 09.7-121 | 25 |
| | 75826-05 | <0.50 | 40.0 | 40.0 | 40.3 | 40.0 | ug/L | EPA 8260B | 12/23/10 | 101 | 99.9 | 0.780 | 76.8-120 | 25 |
| Toluene | 75826-05 | <0.50 | 40.0 | 40.0 | 38.1 | 37.6 | ug/L | EPA 8260B | 12/23/10 | 95.2 | 94.0 | 1.23 | 80-120 | 25 |
| _ | | | | | | | - 0 | | | | | | | |
| Benzene | 75861-02 | <0.50 | 40.0 | 40.0 | 39.6 | 38.5 | ug/L | EPA 8260B | 12/23/10 | 00 N | 96.2 | 2.88 | 80-120 | 25 |
| Ethylbenzene | 75001-02 | ~ 0.50 | 40.0 | 40.0 | 39.0 | 30.5 | ug/L | LFA 0200B | 12/23/10 | 99.0 | 90.2 | 2.00 | 80-120 | 25 |
| | 75861-02 | 3.4 | 40.0 | 40.0 | 45.1 | 43.9 | ug/L | EPA 8260B | 12/23/10 | 104 | 101 | 2.94 | 80-120 | 25 |
| Methyl-t-butyl ether | 75861-02 | 9.6 | 39.9 | 39.9 | 50.7 | 49.4 | ug/L | EPA 8260B | 12/23/10 | 103 | 100 | 3.20 | 69.7-121 | 25 |
| | 70001-02 | 0.0 | 00.0 | 00.0 | 00.7 | | ug, L | LI / (0200D | 12/20/10 | 100 | 100 | 0.20 | 00.7 121 | 20 |

Date: 01/03/2011

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : Former Strough Chevy - Oakland

| Parameter | Spiked Sample | Sample Value | Spike Level | Spike Dup. Level | Spiked Sample Value | Duplicate Spiked Sample Value | Units | Analysis Method | Date Analyzed | Spiked Sample Percent Recov. | Duplicat Spiked Sample Percent Recov. | Relative | Spiked Sample Percent Recov. Limit | Relative Percent Diff. Limit |
|---------------------|------------------|-----------------|----------------|------------------------|---------------------------|--|-------|--------------------|------------------|---------------------------------------|---|----------|--|---------------------------------------|
| P + M Xylene | | | | | | | | | | | | | | |
| | 75861-02 | 1.5 | 40.0 | 40.0 | 41.4 | 40.1 | ug/L | EPA 8260B | 12/23/10 | 99.8 | 96.6 | 3.21 | 76.8-120 | 25 |
| Toluene | | | | | | | | | | | | | | |
| | 75861-02 | <0.50 | 40.0 | 40.0 | 39.2 | 39.0 | ug/L | EPA 8260B | 12/23/10 | 98.0 | 97.4 | 0.597 | 80-120 | 25 |
| _ | | | | | | | | | | | | | | |
| Benzene | | | | | | | | | | | | | | |
| | 75860-05 | <0.50 | 40.0 | 40.0 | 40.6 | 38.0 | ug/L | EPA 8260B | 12/22/10 | 102 | 95.0 | 6.60 | 80-120 | 25 |
| Ethylbenzene | | | | | | | | | | | | | | |
| | 75860-05 | <0.50 | 40.0 | 40.0 | 43.0 | 40.9 | ug/L | EPA 8260B | 12/22/10 | 108 | 102 | 5.10 | 80-120 | 25 |
| Methyl-t-butyl ethe | | | | | | | | | | | | | | |
| 5 1111 | 75860-05 | 0.87 | 39.9 | 39.9 | 44.6 | 42.0 | ug/L | EPA 8260B | 12/22/10 | 110 | 103 | 6.09 | 69.7-121 | 25 |
| P + M Xylene | | | | | | | _ | | | | | | | |
| Talaana | 75860-05 | <0.50 | 40.0 | 40.0 | 42.2 | 40.6 | ug/L | EPA 8260B | 12/22/10 | 106 | 102 | 3.94 | 76.8-120 | 25 |
| Toluene | | | | | | | | | | | | | | |
| | 75860-05 | <0.50 | 40.0 | 40.0 | 41.1 | 39.2 | ug/L | EPA 8260B | 12/22/10 | 103 | 98.1 | 4.58 | 80-120 | 25 |

QC Report : Laboratory Control Sample (LCS)

Project Name : Former Strough Chevy - Oakland

| Parameter | Spike Level | Units | Analysis Method | Date Analyzed | LCS Percent Recov. | LCS Percent Recov. Limit |
|---|----------------|-------|--------------------|------------------|--------------------------|-----------------------------------|
| Benzene | 40.0 | ug/L | EPA 8260B | 12/23/10 | 96.8 | 80-120 |
| Ethylbenzene | 40.0 | ug/L | EPA 8260B | 12/23/10 | 104 | 80-120 |
| Methyl-t-butyl ether | 39.9 | ug/L | EPA 8260B | 12/23/10 | 100 | 69.7-121 |
| P + M Xylene | 40.0 | ug/L | EPA 8260B | 12/23/10 | 101 | 76.8-120 |
| Toluene | 40.0 | ug/L | EPA 8260B | 12/23/10 | 94.4 | 80-120 |
| | | | | | | |
| Benzene | 39.7 | ug/L | EPA 8260B | 12/23/10 | 97.3 | 80-120 |
| Ethylbenzene | 39.7 | ug/L | EPA 8260B | 12/23/10 | 102 | 80-120 |
| Methyl-t-butyl ether | 39.6 | ug/L | EPA 8260B | 12/23/10 | 99.9 | 69.7-121 |
| P + M Xylene | 39.7 | ug/L | EPA 8260B | 12/23/10 | 98.9 | 76.8-120 |
| TPH as Gasoline | 501 | ug/L | EPA 8260B | 12/23/10 | 94.0 | 70.0-130 |
| Toluene | 39.7 | ug/L | EPA 8260B | 12/23/10 | 97.4 | 80-120 |
| Ponzono | 20.0 | ua/l | EDA 9260D | 12/22/10 | 05.4 | 80-120 |
| Benzene | 39.9 | ug/L | EPA 8260B | | 95.4 101 | |
| Ethylbenzene Mathed to be to death a re- | 39.9 | ug/L | EPA 8260B | 12/22/10 | 101 | 80-120 |
| Methyl-t-butyl ether | 39.8 | ug/L | EPA 8260B | 12/22/10 | 103 | 69.7-121 |
| P + M Xylene | 39.9 | ug/L | EPA 8260B | 12/22/10 | 97.5 | 76.8-120 |
| TPH as Gasoline | 499 | ug/L | EPA 8260B | 12/22/10 | 91.6 | 70.0-130 |
| Toluene | 39.9 | ug/L | EPA 8260B | 12/22/10 | 97.3 | 80-120 |

CONFLUENCE

Confluence Environmental, Inc. 3308 El Camino Ave, Suite 300 #148 Sacramento, CA 95821

8acramento, CA 95821 916-760-7641 - main 916-473-8617 - fax www.confluence-env.com

Chain of Custody

75856

Page of

Project Name: Former Strough Chevy - Oakland

Job Number: $\mu / - / 0 / 22 / 2$ TAT: STANDARD 5 DAY 2 DAY 24 HOUR OTHER:

| Address: 2795 2nd St, Suite 300, Davis CA 95616 California Global ID No.: T0600101644 Phone / Fax: 916-760-7641 / 916-473-3617 Confluence EDF w/ Report (Yes) No | Lab. K | 166 | | | | | K | Site Address: | 327 3 | 4th S | St. O | aklan | 1 | | | | | | | Confl | uence | PM: | : Jaso | n Br | own | | | |
|--|---------|---------------------------|----------|----------|------------|--|------|----------------|-------------------|-------------|----------|---------|-------|----------|--|---------------------------------|---------------------|-------------|------------|--|----------|--------------------------|--------|----------|---------|-----------|-------|------|
| Include EDF w/ Report Yes No Confiltence Log Code: CESC | | | avis C | 95616 | | | | | | | | | | | | | | | | Phone / Fax: 916-760-7641 / 916-473-8617 | | | | | | | | |
| Consultant / PM: LRM / Merchad Javaherian Report to: Merchad Javaherian Phone / Fax: 530-297-4800 x.127 Phone / Fax: 30-297-4800 x.127 Phone / Fax: 415 / 706-8935 Invoice to: Merchad Javaherian Phone / Fax: 415 / 706-8935 Invoice to: Merchad Javaherian Phone / Fax: 415 / 706-8935 Preservative Required Analysis Preservative Required Analysis Preservative Report to: Merchad Javaherian Phone / Fax: 415 / 706-8935 Preservative Required Analysis Preservative Report to: Merchad Javaherian Phone / Fax: 415 / 706-8935 Preservative Required Analysis Preservative R | | | avis Ci | 175010 | <u></u> | ~ | —⊪ | | | | | _ | | | | | | | | Confluence Log Code: CESC | | | | | | | | |
| Phone / Fax: (415) 706-8935 | | | | | | | ——I≻ | | | | | | | an | | | | | | | | | | | | | | |
| Sample ID | 1 HOHC/ | 1 ax. 550-271-4000 x.121 | | | | | — | | | | | | | | | | | | | Invoi | ce to: | | Merł | ndad | Java | herian | | |
| Sample ID | | | | | М | [atri | === | | | | | | vativ | e | | | |) | Requ | ested | Anal | lysis | | | | | | |
| Military Sign 12/12 X S S X X X X D D D D D D | | Sample ID | Time | Date | Soil/Solid | Water/Liquid | | Laboratory No. | No. of Containers | Unpreserved | H2SO4 | HNO3 | HCI | NaOH | | TEPH Diesel & Motor Oil* (8015) | TPH-G, BTEX (8260B) | MTBE (8260) | TBA (8260) | | | | | | | Notes and | Comme | ents |
| MW9A 555 X X X X X X X X X X X X X X X X X | | HUFE MUZ | 810 | 12/22 | 7 | | | | 5 | | | | 5 | | | X | ኦ | X | | | | | | | | | (| 01 |
| Mugh Esc X X X D D D C Time Accepted By Affiliation Date Time Sampler's Company: Confluence Environmental Shipment Date: Shipment Method: | | Howy Mwy | 755 | () | | × | | | 7 | | | | | | | አ | X | X | | | | | | | | | (| 27 |
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| Sampler's Name: Relinquished By / Affiliation Date Time Accepted By / Affiliation Date Time Sampler's Company: Confluence Environmental Shipment Date: Shipment Method: | | | 840 | | | X | | | | | | | | | | Х | Κ. | メ | | | | | | | | | | |
| Sampler's Name: S. Mass Relinquished By / Affiliation Date Time Accepted By / Affiliation Shipment Date: Shipment Method: | | | 820 | | | X | | | I | | | | | | | Х | X | × | | | | | | | | | | 05 |
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| Sampler's Company: Confluence Environmental Shipment Date: Shipment Method: | E arra | ler's Name: 7 | <u> </u> | <u> </u> | | <u> </u> | | D | lina: | ished | By / / | A Milio | ion | <u> </u> | <u></u> | n | ate | Т | l ime | ╁ | <u></u> | Acc | epted | By / | Affili: | ation | Date | Time |
| Shipment Date: Shipment Method: | Samp | ler's Company: Confluence | Enviro | nmenta | <u> </u> | | | 72 | <u>uu</u> | - Sincu | <u> </u> | MILLE | | | | | | | | | | | | | | | | |
| | Shipn | nent Date: | | | | | | - | | | | | | | | Ľ | | | | 뭁 | | 7 | A | <u> </u> | , , | | | - |
| Ci Yt *Dun TFPH w/ silica gel cleanun | Shipn | nent Method: | | | | | | <u> </u> | | | | | | | | | | | | | 4 | // / | Z Ki | #4 | KA | ytical | (PAZI | 1217 |
| Special instructions: Num 1 Et 11 W/ Sinca get cleanup | Specia | al Instructions: *Run TEI | 'H w/ | silica | gel | clea | nu | p | | <u>-</u> - | | | | | | | | | | / | \sim (| $\overline{\mathcal{A}}$ | | | | | | |



SAMPLE RECEIPT CHECKLIST

| RECEIVER |
|-----------------|
| CTX Initials |
| |

| SRG#: 15876 Date: 1620 |
|--|
| Project ID: Former Strough Chery - Oakland |
| Method of Receipt: Courier Ever-the-counter Shipper |
| COC Inspection Is COC present? |
| Sample Inspection Coolant Present: Temperature °C |
| Are the Sample ID's indicated: On COC On sample container(s) On Both Not indicated If Sample ID's are listed on both COC and containers, do they all match? Yes No Not indicated If project ID indicated: On COC On sample container(s) On Both Not indicated If project ID is listed on both COC and containers, do they all match? Yes No Not indicated If collection dates indicated: On COC On sample container(s) On Both Not indicated If collection dates are listed on both COC and containers, do they all match? Yes No No Not indicated If collection times indicated: On COC On sample container(s) On Both Not indicated If collection times are listed on both COC and containers, do they all match? Yes No Not indicated If collection times are listed on both COC and containers, do they all match? |
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