STROUGH REVOCABLE TRUST
2 SEA VIEW
PIEDMONT, CA 94611

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

Subject: Former Val Strough Chevrolet Site
327 34th Street, Oakland, CA
Site ID #3035, RO#0000134

Dear Ms. Jakub:

This letter is to accompany the *Second Quarter 2009 Groundwater Monitoring Report* for the above-referenced site prepared by LRM Consulting, Inc. of Burlingame, CA.

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.,
1534 Plaza Lane, #145, Burlingame, CA 94010

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

2nd QUARTER 2009
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

June 2009

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1534 Plaza Lane, #145
Burlingame, CA 94010

REGISTERED PROFESSIONAL ENGINEER
RAMKISHOR RAO
C61467
Expires 06/30/09
CIVIL
STATE OF CALIFORNIA

Mehrdad M. Javaherian, Ph.D/MPH$_{candidate}$
Principal-in-Charge

Ram Rao, P.E.
Principal Engineer

June 2009

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1.0 INTRODUCTION

At the request of the Strough Family Trust of 1983, LRM Consulting, Inc. (LRM) has prepared this *2nd Quarter 2009 Groundwater Monitoring Report* for the former Val Strough Chevrolet located in Oakland, California. This report documents the procedures and findings of the June 2, 2009 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 and sampling from all eight site wells, including the third round of monitoring at newly installed well MW-8. Also worth noting is that this monitoring reflects groundwater conditions approximately three years following cessation of the dual phase extraction (DPE) system at the site; the operation of the DPE system was ceased on 30 June 2006. Groundwater monitoring data and well construction details are shown on the figures and presented in the tables. Groundwater monitoring protocols, field data, and 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:	8 (all onsite)
Site ID #:	3035
RO #:	0000134

1.2 Site Contacts

Consultant:

Ram Rao, PE, Principal Engineer
Mehrdad Javaherian, Ph.D/$MPH_{(candidate)}$ Principal
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Burlingame, CA 94010
(650) 343-4633

Regulatory agency:

Barbara Jakub, P.G.
Alameda County Health Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6746

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.

Petroleum Hydrocarbon Distribution in Groundwater: The highest concentrations of petroleum hydrocarbons have been detected in samples collected from wells MW-2 and MW-3. Generally significantly lower levels of petroleum hydrocarbons have been detected in samples collected from well MW-4, and the other site wells. 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. The workplan for installation of the additional monitoring well is currently under review by ACHCSA.

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 June 2, 2009. The scope of work for the quarterly groundwater monitoring event at the site are listed below, with monitoring protocols summarized in Appendix A:

- Checking all wells for SPH.
- Gauging the depth to groundwater in all eight site wells.
- Purging the monitoring wells prior to sampling.
- Collecting and analyzing groundwater samples from all eight 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 eight 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.

The groundwater elevation map (Figure 2) for this monitoring event was constructed using depth-to-groundwater measurements collected during the current sampling event. Depth-to-groundwater measurements and calculated groundwater elevations are presented in Table 2. Field data forms are presented in Appendix B. Per the request of ACHCSA, the newly installed well (MW-8) and all existing site wells were resurveyed to the dateum NAVD 88 prior to the 1st Quarter 2008 monitoring event and were reported in the accompanying report for that monitoring event.

3.2 Well Purging

For this round of monitoring, groundwater sampling and field parameters were analyzed for all eight onsite wells; MW-1 through MW-8. Three well casing volumes of water were purged from all wells and field parameters including temperature, pH, specific conductance, and dissolved oxygen (DO) were measured. Groundwater monitoring protocols are presented in Appendix A.

3.3 Groundwater Sampling

After purging, groundwater was sampled at each of the eight wells 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 not detected in any wells during this monitoring event. In fact, no SPHs have been detected at the site since the observation of sheen in June 2006 (see Table 2).

4.2 Groundwater Elevation and Hydraulic Gradient

On June 2, 2009, the depth to groundwater beneath the site ranged from 15.46 (MW-8) to 22.70 (MW-5) feet bgs (Table 2). Correspondingly, groundwater elevations in the site wells ranged from 41.60 feet above msl in well MW-8 to 45.21 feet above msl in well MW-2 (Figure 2); these depth to groundwater measurements mark a decline in water levels by approximately 1 foot in most wells relative to the previous quarter. Using the results from the 2nd Quarter 2009 monitoring event, the hydraulic gradient is estimated at 0.02 ft/ft, with a general flow direction away from the residual source area toward the southeast (see Figure 2).

4.3 Groundwater Analytical Results

On June 2, 2009, groundwater samples were collected from MW-1 through MW-8 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. Analytical results for this event are presented on Figure 3, and historical results, including field parameters such as DO, are presented in Table 2. Copies of the chain-of-custody and laboratory analytical reports for the groundwater samples are presented in Appendix C. Laboratory analytical results are summarized below:

- TPH-g was detected in samples collected from well MW-2 at 80,000 µg/L, and MW-3 at 39,000 µg/L. TPH-g remained below the detection limit of 50 µg/L in all six other site wells.
- Benzene was detected in the samples collected from well MW-2 at 680 µg/L, MW-3 at 2,800 µg/L, and MW-4 at 0.64 µg/L. Benzene was below the detection limit of 0.5 µg/L in all five other site wells.
- Toluene was detected at 3,100 µg/L in MW-2 and 6,800 µg/L in MW-3, but remained below the detection limit of 0.50 µg/L in all six other site wells.
- Ethylbenzene was detected at 1,200 µg/L in MW-2 and 1,300 µg/L in MW-3, but remained below the detection limit of 0.50 µg/L in all six other site wells.
- Total xylenes were detected at 10,000 µg/L in MW-2 and 5,600 µg/L in MW-3, but remained below the detection limit of 0.50 µg/L in all six other site wells.

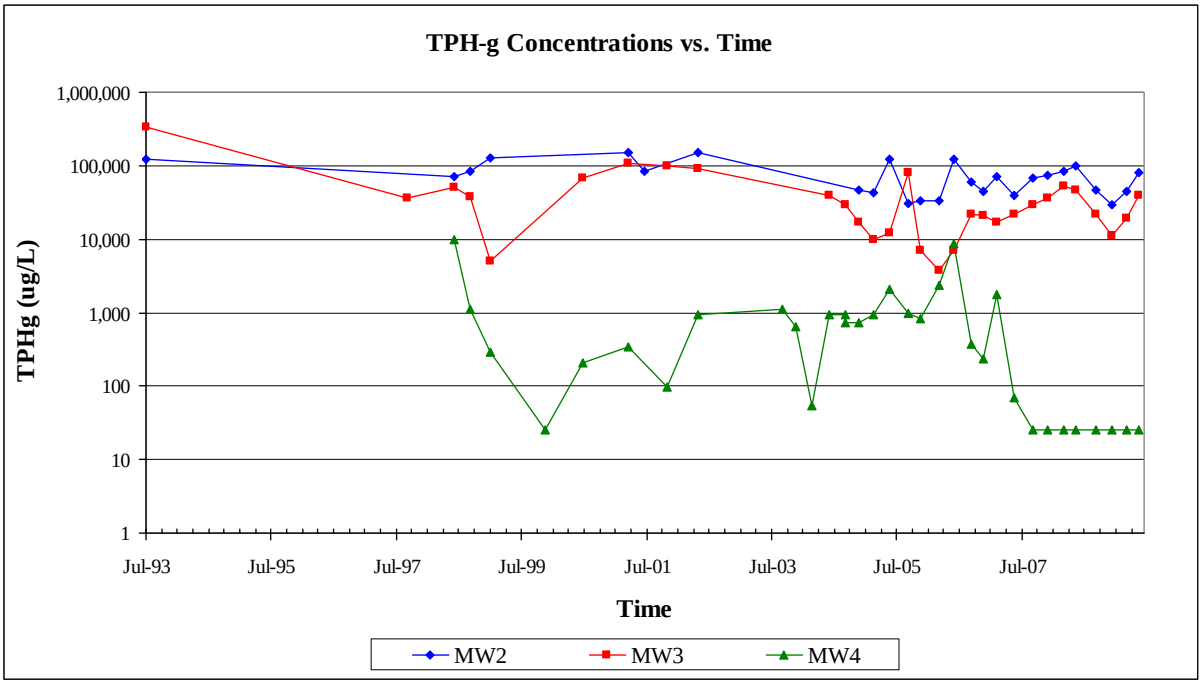
- MTBE was detected in the samples collected from well MW-2 at 330 µg/L, MW-3 at 240 µg/L, MW-4 at 320 µg/L, and MW-6 at 59 µg/L. MTBE remained below the detection limit of 0.5 µg/L at MW-1, MW-5, MW-7, and MW-8.

- Tert-butanol (TBA) was detected at 180 µg/L in MW-2 and 180 ug/L in MW-3, but remained below the detection limit of 5.0 µg/L in all other site wells.

- TPH-d was not detected in groundwater samples collected from any of the eight wells this quarter, although detection limits in samples from wells MW-2 and MW-3 were elevated due to interference from gasoline-range hydrocarbons (see Appendix C).

- TPH-mo was detected at a concentration of 480 ug/L in MW-2, but remained below the detection limit of 100 µg/L in all other site wells.

The figure 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 graph, TPH-g concentrations have increased in wells MW-2 and MW-3 relative to those in the 4th quarter 2008 and 1st quarter 2009 events. Specifically, at MW-2, TPH-g has increased from 29,000 µg/L to 80,000 µg/L over this time frame, while TPH-g concentrations at MW-3 have increased from 11,000 µg/L to 39,000 µg/L between the 4th quarter 2008 and 2nd quarter 2009 events; however, worth noting is that these 2nd quarter 2009 concentrations in MW-2 and MW-3 are lower than the 98,000 ug/L and 47,000 ug/L, reported in these wells, respectively, during the 2nd quarter 2008. These declines have

occurred while groundwater level elevations have risen to approximately the same elevations as those measured in the June 2008 monitoring event.

Moreover, as shown on Table 2, benzene concentrations for both wells exhibit a similar trend to TPH-g concentrations, increasing in the last two quarters but when compared to data from June 2008, they have declined. These observations suggests that natural attenuation within the residual source area is occurring and is consistent with suppression of DO levels in both MW-2 and MW-3 (see Table 2) compared to wells that are not impacted or are less impacted by hydrocarbons (e.g., MW-1, MW-5, MW-7- see Table 2). This finding is consistent with the proposed pilot testing of iSOC technology in the IRAP (LRM, 2008d), which would significantly increase the DO levels in the residual source area and help enhance aerobic biodegradation of hydrocarbons at the location which they are most concentrated.

Away from the residual source area, TPH-g levels in MW-4 also continued their observed decline over time and remain below detection limits over the past several rounds of monitoring (see above graph). Data from wells MW-5 and MW-6 also indicate the general absence of TPH-g and petroleum hydrocarbon compounds above detection limits over the past several years, with recent detections of TPH-g and benzene declining to non-detect levels in the 2nd Quarter of 2009. Also worth noting is that cross-gradient well MW-7 and the most downgradient onsite well MW-8 remained below detection limits for all compounds analyzed.

In summary, in the absence of SPHs over the past several years, petroleum hydrocarbon concentrations within the residual source area wells have begun to decline over time. Specifically, when water levels are at lower elevations (e.g, during 3rd and 4th quarter events), hydrocarbon concentrations in the residual source area decline dramatically. Upon recovery of water levels in the 1st quarter and 2nd quarter events, TPH-g and benzene concentrations rebound; however, a comparison of 2nd quarter data for 2008 and 2009 from within the residual source area indicates an overall declining trend. Importantly, away from the residual source area, hydrocarbon detections in wells remain largely undetected, with sporadic detections over time typically well below Environmental Screening Levels (ESLs) for groundwater used as a drinking water resource (Regional Water Quality Control Board San Francisco Bay Region, 2008). Accordingly, the hydrocarbon plume is largely confined to within the site boundaries and is stable. To the extent that higher levels of hydrocarbons have been detected in localized, depth-discrete grab groundwater samples within the residual source area (LRM, 2008a), proposed pilot testing activities for enhancing degradation of hydrocarbons within the residual source area (via an IRAP) are pending final approval by the ACHCSA.

5.0 PLANNED ACTIVITIES

5.1 Additional Investigation/Remediation Activities

As previously indicated, LRM has submitted a workplan for installation of an additional monitoring well in support of the planned iSOC pilot testing. This workplan remains under ACHCSA review. Once approved, LRM will install the proposed monitoring well and initiate pilot testing activities.

5.2 Planned Monitoring Activities

Quarterly monitoring per the ACHCSA-approved plan will continue, with the next round scheduled for September 2009.

6.0 REFERENCES

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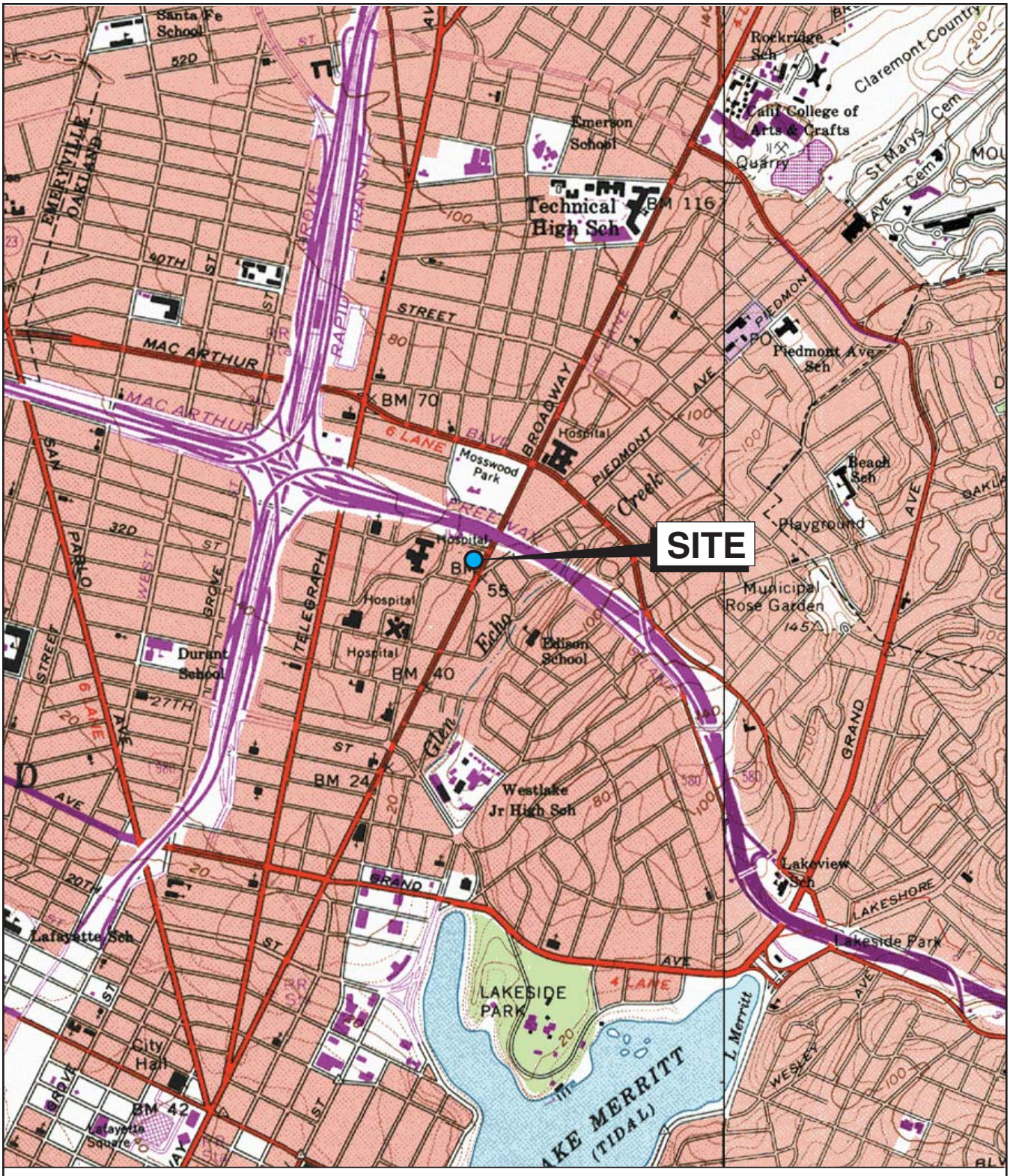
FIGURES



Base map: Maptech Inc., 2001

N

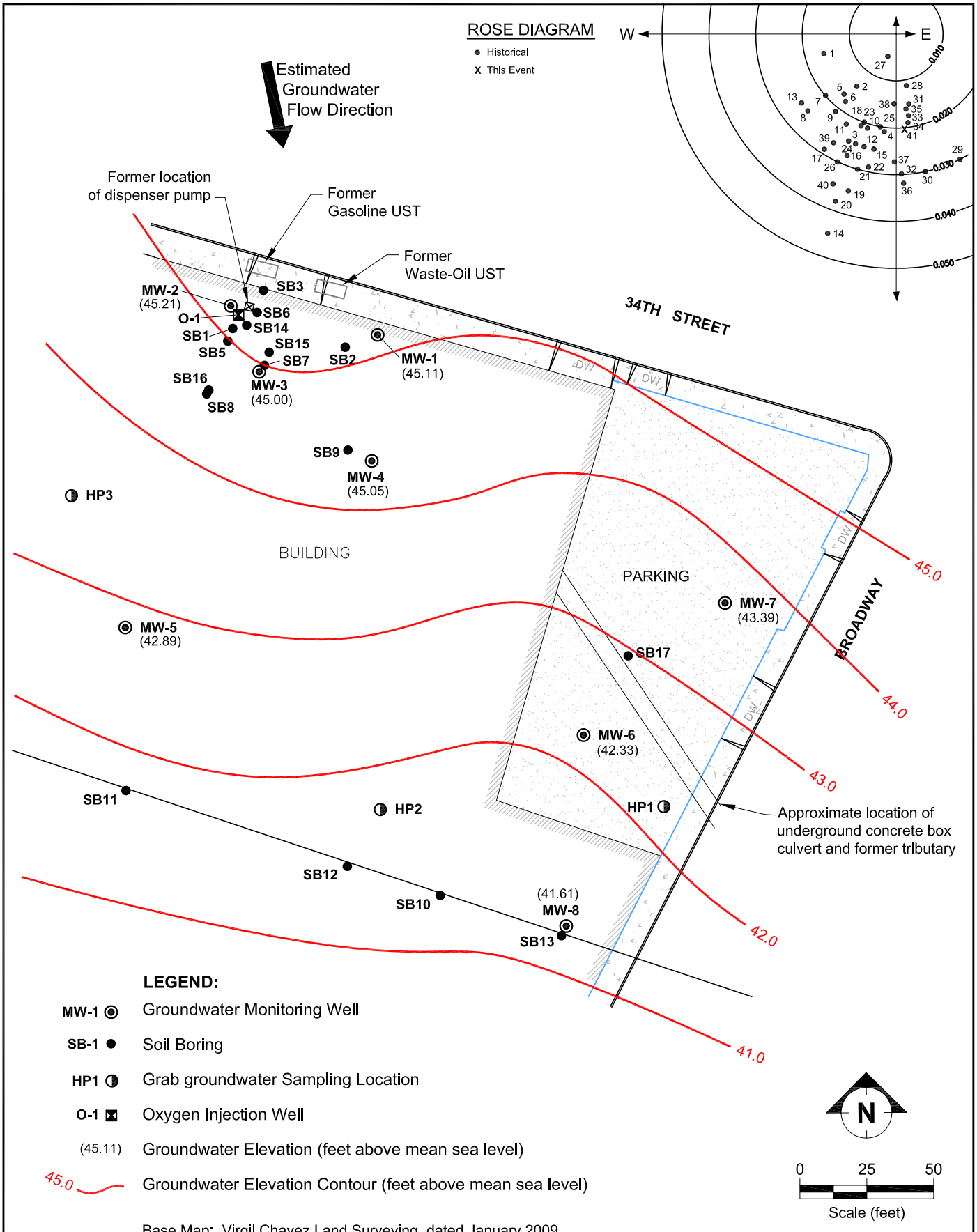
0 2,000

Scale (feet)

LRM consulting inc.

SITE LOCATION MAP
FORMER VAL STROUGH CHEVROLET
327 34TH STREET, OAKLAND, CALIFORNIA

FIGURE: **1**

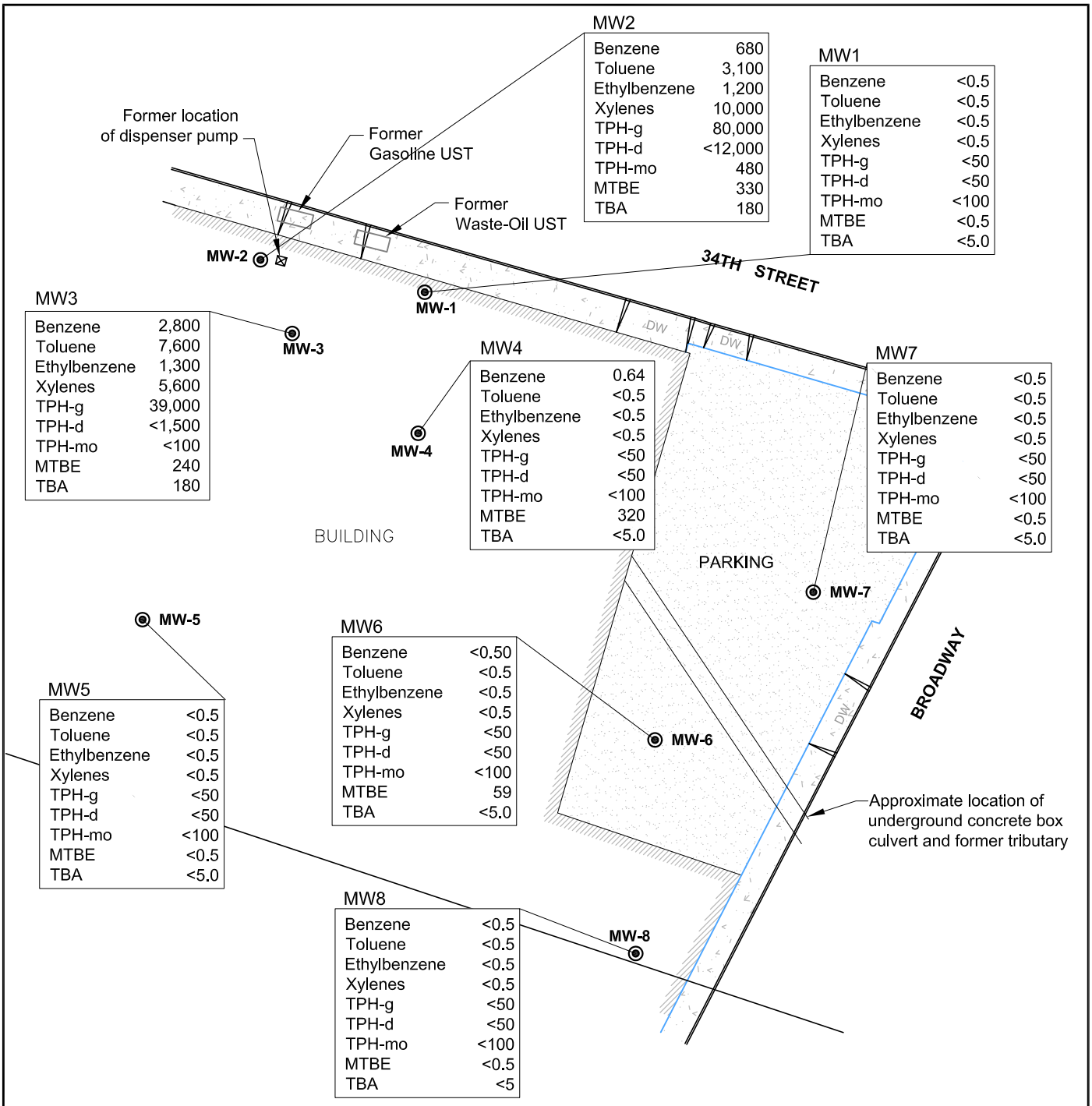


Base Map: Virgil Chavez Land Surveying, dated January 2009.

LRM consulting inc.

GROUNDWATER CONTOUR MAP AND ROSE DIAGRAM
2ND QUARTER 2009 MONITORING EVENT
FORMER VAL STROUGH CHEVROLET
327 34TH STREET, OAKLAND, CALIFORNIA
JUNE 2009

FIGURE: **2**



LEGEND:

MW-1 ◉	Groundwater monitoring well
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	Tert-Butanol

All concentrations are reported in micrograms per liter (ug/L)

N

0 25 50

Scale (feet)

LRM consulting inc.

GROUNDWATER ANALYTICAL DATA
2ND QUARTER 2009 MONITORING EVENT
FORMER VAL STROUGH CHEVROLET
327 34TH STREET, OAKLAND, CALIFORNIA
JUNE 2009

FIGURE: **3**

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	07/19/93	64.71	PVC	32	2	17-32	0.020	15-32	Gravel Pack
MW2	07/20/93	65.71	PVC	33	2	18-33	0.020	16-33	Gravel Pack
MW3	07/20/93	65.7	PVC	34	2	18-34	0.020	16-34	Gravel Pack
MW4	06/26/98	64.37	PVC	31	2	15-31	0.020	13-31.5	Lonestar #3 Sand
MW5	06/26/98	65.59	PVC	31	2	15-31	0.020	13-31.5	Lonestar #3 Sand
MW6	07/17/00	59.60	PVC	31.5	2	10-30	0.020	8-30	Lonestar #3 Sand
MW7	07/17/00	59.49	PVC	36.5	2	15-35	0.020	13-35	Lonestar #3 Sand
MW8	12/17/09	57.07	PVC	26	1	11-26	0.010	9-26	#2/12 Sand

* Elevations Based on Survey Conducted in 1st Quarter 2009 relative to NAVD88 datum.
PVC Polyvinyl chloride.
ft bgs Feet below ground surface.

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

Well Number	Date	Casing Elevation (feet)		Depth to Water (feet)	GW Elevation (feet)	SPH Thickness (feet)	Concentration (µg/L)									Concentration (mg/L)									
							Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	TBA	CO_2 (lab)	DO (field)	ORP (mv) (field)	pH (field)	Fe(II)	Mn	SO_4	$N\text{-}NH_3$	$N\text{-}NO_3$	$o\text{-}PO_4$
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	--	204	5	--	6.16	0.15	0.046	55	<0.10	<0.10	2
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	--	192	3.6	--	6.49	--	--	--	--	--	--
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	--	389	3.4	--	6.72	--	--	--	--	--	--
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	--	--	3.31	--	6.52	--	--	--	--	--	--
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	--	120	7.37	--	6.66	0.13	<0.01	54	<0.10	3.4	<0.2
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	--	117	NR	--	NR	<0.10	0.045	57	<0.10	6.6	0.15
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	--	--[c]	0.65	--	6.47	0.32	1.8	63	<0.10	--	<0.20
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	--	120	0.96	--	6.25	<0.10	0.5	58	<0.10	5.5	<0.20
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	--	--	0.14	--	--	--	--	--	--	--	--
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	--	--	0.15	--	--	--	--	--	--	--	--
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	--	--	1.01	--	6.42	--	--	--	--	--	--
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	--	--	1.96	--	6.04	--	--	--	--	--	--
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	--	--	1.84	317.4	6.43	--	--	--	--	--	--
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	--	--	1.57	--	6.73	--	--	--	--	--	--
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	--	--	0.43	--	6.40	--	--	--	--	--	--
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	--	--	0.38	--	6.39	--	--	--	--	--	--
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	--	--	0.86	--	6.39	--	--	--	--	--	--
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	--	--	16.87	--	6.40	--	--	--	--	--	--
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	--	--	3.1	71.10	6.11	--	--	--	--	--	--
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	--	2.9	46.00	6.00	--	--	--	--	--	--
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	--	3.4	119.00	6.20	--	--	--	--	--	--
MW1	03/24/09	64.71	l	18.68	46.03	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	<5.0	--	1.2	97.00	6.50	--	--	--	--	--	--
MW1	06/02/09	64.71	l	19.60	45.11	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	<5.0	--	**1..3**	**232.00**	**5.50**	--	--	--	--	--	--
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	--	185	2.2	--	5.98	--	--	--	--	--	--
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	--	--	2.7	--	6.47	--	--	--	--	--	--
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	--	386	0.3	--	6.69	--	--	--	--	--	--
MW2	02/26/99	101.27	a	18.00	83.27	sheen	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW2	03/24/99	101.27	a	18.27	83.00	trace	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

Well Number	Date	Casing Elevation (feet)		Depth to Water (feet)	GW Elevation (feet)	SPH Thickness (feet)	Concentration (µg/L)									Concentration (mg/L)									
							Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	TBA	CO_2 (lab)	DO (field)	ORP (mv) (field)	pH (field)	Fe(II)	Mn	SO_4	$N\text{-}NH_3$	$N\text{-}NO_3$	$o\text{-}PO_4$
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	*	*	*	*	*	*	*	*	--	*	0.88	*	6.37	*	*	*	*	*	*
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	--	168	NR	--	NR	3.1	2.5	16	0.14	0.19	<0.20
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	--	--	--	--	--	--	--	--	--	120	NR	--	6.15	1.8	2	16	<0.10	--	<0.20
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	--	160	0.88	--	5.99	3.9	1.7	13	<0.10	0.54	<0.20
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	--	*	0.27	*	6.63	*	*	*	*	*	*
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	--	--	3.05	-147.6	--	--	--	--	--	--	--
MW2	07/18/05	65.95		NM	NC	NM	2,700	13,000	1,800	15,000	120,000	17,000	--	530	--	--	--	--	--	--	--	--	--	--	--
MW2	09/26/05	65.95		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		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		15.66	50.29	sheen	620	2,800	540	4,700	33,000	<4,000	<100	37	--	--	7.59	--	6.9	--	--	--	--	--	--
MW2	06/19/06	65.95		19.14	46.81	sheen	680	5,200	990	16,000	120,000	<30,000	1,900	170	--	--	1.78	--	6.21	--	--	--	--	--	--
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	--	--	1.71	--	6.66	--	--	--	--	--	--
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	--	--	1.5	--	6.61	--	--	--	--	--	--
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	--	--	1.2	--	6.7	--	--	--	--	--	--
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	--	--	1.12	--	6.7	--	--	--	--	--	--
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	--	--	2.52	--	6.57	--	--	--	--	--	--
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	--	--	1.1	--	6.47	--	--	--	--	--	--
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	--	--	4.13	-5.7	6.18	--	--	--	--	--	--
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	--	--	0.91	-24.6	6.43	--	--	--	--	--	--
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	--	1.3	-146	6.1	--	--	--	--	--	--
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	--	1.2	-80	6.4	--	--	--	--	--	--
MW2	03/24/09	65.71	l	19.58	46.13	0.00	410	2,000	900	8,900	45,000	<8,000	420	300	210	--	0.9	-61	6.9	--	--	--	--	--	--
MW2	06/02/09	65.71	l	20.50	45.21	0.00	**680**	**3,100**	**1,200**	**10,000**	**80,000**	<12000	**480**	**330**	**180**	--	**1.4**	**-60**	**5.7**	--	--	--	--	--	--
MW3	07/27/93	101.29	a	22.28	79.01	0.02	9,100	24,000	5,300	33,000	330,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	06/30/98	101.29	a	19.47	81.82	0.00	4,800	11,000	1,200	7,100	51,000	--	--	3,900	--	300	2	--	6.03	1.4	9.8	13	1.4	<0.10	2.4
MW3	07/29/98	101.29	a	20.01	81.28	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW3	08/26/98	101.29	a	20.62	80.67	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	--	240	2	--	6.65	--	--	--	--	--	--
MW3	10/30/98	101.29	a	21.62	79.67	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW3	11/30/98	101.29	a	21.31	79.98	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW3	12/28/98	101.29	a	21.15	80.14	0.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW3	01/25/99	101.29	a	20.79	80.50	0.00	4,000	10,000	1200	6700	5,100	--	--	2900	--	238	1	--	7.01	--	--	--	--	--	--
MW3	02/26/99	101.29	a	18.02	83.27	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW3	03/24/99	101.29	a	18.37	82.92	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW3	05/12/99	101.29	a	19.22	82.07	0.0083	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW3	12/15-16/99	101.29	a	22.43	78.86	0.00	*	*	*	*	*	*	*	*	--	*	*	*	*	*	*	*	*	*	*
MW3	03/20/00	101.29	a	17.14	84.15	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	--	128	2.05	--	6.73	3.9	6.6	20	<0.10	0.55	<0.20
MW3	10/11/00	101.29	a	22.24	79.05	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW3	04/10-11/01	101.29	a	20.70	80.59	0.00	7,200	<0.001	2,300	12,900	110,000	4,700	<1,500	4,300	--	137	NR	--	NR	1	6	8.2	<0.10	0.13	<0.20
MW3	07/10/01	101.29	a	21.97	79.32	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	<900	4,000	--	120	2.93	--	6.67	0.84	12	31	<0.10	--	<0.20
MW3	02/19/02	65.99	b	20.11	45.88	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	--	130	1.01	--	6.62	4.2	9.6	25	<0.10	0.77	<0.20
MW3	06/27/03	65.99	b	21.32	44.67	sheen	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

Well Number	Date	Casing Elevation (feet)		Depth to Water (feet)	GW Elevation (feet)	SPH Thickness (feet)	Concentration (µg/L)									Concentration (mg/L)								
							Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	TBA	CO_2 (lab)	DO (field)	ORP (mv) (field)	pH (field)	Fe(II)	Mn	SO_4	$N\text{-}NH_3$	$N\text{-}NO_3$	$o\text{-}PO_4$
MW3	09/29/03	65.99	b	22.79	43.20	sheen	*	*	*	*	*	*	*	*	--	*	*	*	*	*	*	*	*	*	*
MW3[e]	12/12/03	65.99	b	22.73	43.27	0.01	*	*	*	*	*	*	*	*	--	*	*	*	*	*	*	*	*	*	*
MW3[e]	03/15/04	65.99	b	19.32	46.67	sheen	*	*	*	*	*	*	*	*	--	*	*	*	*	*	*	*	*	*	*
MW3	06/24/04	65.99	b	21.99	44.00	0.00	3,400	7,700	1,000	4,800	39,000	1,700	<500	1,100	--	--	0.07	--	--	--	--	--	--	--	--
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	--	--	0.80	--	6.42	--	--	--	--	--	--
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	--	--	0.16	--	6.7	--	--	--	--	--	--
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	31	--	--	1.93	-150.4	--	--	--	--	--	--	--
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	<10	--	--	--	--	--	--	--	--	--	--	--
MW3	03/29/06	65.99	b	15.70	50.29	0.00	110	300	130	490	3,800	<200	<100	13	--	--	1.23	--	6.89	--	--	--	--	--	--
MW3	06/19/06	65.99	b	19.11	46.88	0.00	160	500	320	840	7,000	<300	<100	3.1	--	--	2.30	--	6.40	--	--	--	--	--	--
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	--	--	1.05	--	6.78	--	--	--	--	--	--
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	--	--	0.6	--	6.72	--	--	--	--	--	--
MW3	03/01/07	65.99	b	19.50	46.49	0.00	1,100	2,500	510	2,200	17,000	<600	<100	51	--	--	1.11	--	6.76	--	--	--	--	--	--
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	--	--	0.97	--	6.74	--	--	--	--	--	--
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	--	--	1.62	--	6.63	--	--	--	--	--	--
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	--	--	0.9	--	6.62	--	--	--	--	--	--
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	--	--	2.2	3.1	6.35	--	--	--	--	--	--
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	--	--	0.88	-29.2	6.64	--	--	--	--	--	--
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	--	1.5	-176	6.00	--	--	--	--	--	--
MW3	12/29/08	65.99	b	22.92	43.07	0.00	310	910	320	1,300	11,000	<1500	<100	35	23	--	1.6	-112	6.50	--	--	--	--	--	--
MW3	03/24/09	65.70	l	19.43	46.27	0.00	1,400	4,200	600	2,500	19,000	<1,000	<100	160	60	--	0.5	-129	7.00	--	--	--	--	--	--
MW3	06/02/09	65.70	l	20.70	45.00	0.00	**2,800**	**7,600**	**1,300**	**5,600**	**39,000**	<1,500	<100	**240**	**180**	--	**1.1**	**-67**	**5.80**	--	--	--	--	--	--
MW4	06/30/98	98.65	a	16.93	81.72	0.00	2,200	930	850	2,100	10,000	--	--	1,800	--	222	2.6	--	6.18	0.14	4.3	14	0.8	0.8	1.5
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	--	320	3.4	--	<0.001	--	--	--	--	--	--
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	--	475	6.7	--	7	--	--	--	--	--	--
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	--	--	1.75	--	7.02	--	--	--	--	--	--
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	--	126	3.88	--	6.67	9.5	5.3	11	<0.10	0.04	<0.20
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	--	107	NR	--	NR	0.8	6.3	10	<0.10	<0.05	<0.20
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	--	130	0.83	--	6.51	1.6	10	11	<0.10	--	<0.20
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	--	150	1.65	--	6.32	3.1	8.4	9	<0.10	0.06	<0.20
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	--	--	0.16	--	--	--	--	--	--	--	--
MW4	06/24/04	63.35	b	19.31	44.04	0.00	69	<5.0	<5.0	<10	920	<50	<500	1,100	--	--	0.15	--	--	--	--	--	--	--	--
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	--	--	0.13	--	6.63	--	--	--	--	--	--
MW4	12/13/04	**	b	20.44	NC	0.00	<5.0	<5.0	<5.0	<10	740	<50	<500	860	--	--	0.58	--	6.84	--	--	--	--	--	--
MW4	03/14/05	**	b	18.30	NC	0.00	20	<5.0	<5.0	<10	930	<50	<500	930	--	--	0.28	--	6.34	--	--	--	--	--	--
MW4	06/15/05	**	b	20.03	NC	0.00	350	6.1	<5.0	<10	2100	89	<500	1,100	--	--	0.46	-98.9	--	--	--	--	--	--	--
MW4	07/18/05	**		NM	NC	NM	11	<5.0	<5.0	<10	540	<50	--	1,100	--	--	--	--	--	--	--	--	--	--	--	--
MW4	09/26/05	**		21.79	NC	0.00	<5.0	<5.0	<5.0	<10	960	<50	<500	660	--	--	2.20	210.4	6.73	--	--	--	--	--	--
MW4	12/12/05	**		21.89	NC	0.00	<5.0	<5.0	<5.0	<10	820	<50	<500	1,000	--	--	2.05	--	6.62	--	--	--	--	--	--
MW4	03/29/06	**		14.85	NC	0.00	49	160	120	300	2,400	<100	<100	130	--	--	1.07	--	6.82	--	--	--	--	--	--
MW4	06/19/06	**		17.96	NC	0.00	100	940	540	1,800	8,800	<400	<100	55	--	--	2.49	--	5.76	--	--	--	--	--	--

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

Well Number	Date	Casing Elevation (feet)		Depth to Water (feet)	GW Elevation (feet)	SPH Thickness (feet)	Concentration (µg/L)									Concentration (mg/L)									
							Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	TBA	CO_2 (lab)	DO (field)	ORP (mv) (field)	pH (field)	Fe(II)	Mn	SO_4	$N\text{-}NH_3$	$N\text{-}NO_3$	$o\text{-}PO_4$
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	--	--	0.25	--	6.66	--	--	--	--	--	--
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	--	--	0.90	--	6.61	--	--	--	--	--	--
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	--	--	0.76	--	6.6	--	--	--	--	--	--
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	--	--	1.06	--	6.9	--	--	--	--	--	--
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	--	--	6.67	--	6.59	--	--	--	--	--	--
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	--	--	1.45	--	6.57	--	--	--	--	--	--
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	--	--	4.56	65	6.35	--	--	--	--	--	--
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	--	--	1.34	101.3	6.49	--	--	--	--	--	--
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	--	2.2	-134	6.1	--	--	--	--	--	--
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	--	2.9	-7	6.4	--	--	--	--	--	--
MW4	03/24/09	64.37	l	18.38	45.99	0.00	<0.5	<0.5	<0.5	<0.5	<50	<50	<100	370	<5.0	--	0.9	33	6.8	--	--	--	--	--	--
MW4	06/02/09	64.37	l	19.32	45.05	0.00	**0.64**	<0.5	<0.5	<0.5	<50	<50	<100	**320**	<5.0	--	**1.1**	**78**	**5.73**	--	--	--	--	--	--
MW5	06/30/98	100.9	a	20.60	80.30	0.00	<0.50	<0.50	<0.50	<0.50	<50	--	--	23	--	220	4.3	--	6.1	--	--	--	--	--	--
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	--	256	4.8	--	6.71	--	--	--	--	--	--
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	--	305	9.7	--	7.04	--	--	--	--	--	--
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	--	--	2.72	--	7.19	--	--	--	--	--	--
MW5	03/20/00	100.9	a	19.15	81.75	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	--	134	5.58	--	6.35	0.11	0.017	49	<0.10	3.9	<0.20
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	--	183	66	--	NR	<0.10	0.042	45	<0.10	2.9	0.11
MW5	07/10/01	100.9	a	23.64	77.26	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW5	11/20/01	65.59	b	24.65	40.94	0.00	0.83	12	1.2	11	140	860	2,500	10	--	--[c]	66	--	6.01	0.2	2.5	42	<0.10	--	<0.20
MW5	02/19/02	65.59	b	22.37	43.22	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW5	05/21/02	65.59	b	23.10	42.49	0.00	<0.50	<0.50	<0.50	<0.50	<50	2,200	<300	<2.0	--	140	66	--	6.3	<0.1	0.22	44	<0.10	3	<0.20
MW5	06/27/03	65.59	b	23.07	42.52	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW5	09/29/03	65.59	b	24.38	41.21	0.00	<0.50	0.52	7.1	35	100	<50	<500	1.4	--	--	--	--	--	--	--	--	--	--	--
MW5	12/12/03	65.59	b	23.90	41.69	0.00	<0.50	<0.50	<0.50	<1	<50	<50	<500	1.5	--	--	--	--	--	--	--	--	--	--	--
MW5	03/15/04	65.59	b	20.82	44.77	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<500	<0.50	--	--	6.4	--	--	--	--	--	--	--	--
MW5	06/24/04	65.59	b	23.57	42.02	0.00	<0.50	<0.50	<0.50	<1.0	<50	130	<500	0.79	--	--	5.56	--	--	--	--	--	--	--	--
MW5	09/29/04	65.59	b	24.44	41.15	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW5	12/13/04	65.59	b	23.87	41.72	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW5	03/14/05	65.59	b	20.18	45.41	0.00	<0.50	1.3	1.5	8.6	82	<50	<500	<0.50	--	--	3.91	--	5.57	--	--	--	--	--	--
MW5	06/15/05	65.59	b	12.96	52.63	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW5	09/26/05	65.59	b	23.60	41.99	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	--	--	2.3	--	6.3	--	--	--	--	--	--
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	--	--	4.35	--	6.08	--	--	--	--	--	--
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	--	--	18.71	--	6.26	--	--	--	--	--	--
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	--	--	7.93	88	5.86	--	--	--	--	--	--
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	--	2.3	-54	5.5	--	--	--	--	--	--
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	--	4.8	167	6.1	--	--	--	--	--	--
MW5	03/24/09	65.59	l	21.85	43.74	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	0.54	<5.0	--	1.9	27	6.2	--	--	--	--	--	--
MW5	06/02/09	65.59	l	22.70	42.89	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.5	<5.0	--	**3.5**	**112**	**5.2**	--	--	--	--	--	--
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	--	122	2.72	--	6.66	120	1.9	53	6	0.05	<0.20

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

Well Number	Date	Casing Elevation (feet)		Depth to Water (feet)	GW Elevation (feet)	SPH Thickness (feet)	Concentration (µg/L)									Concentration (mg/L)									
							Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	TBA	CO_2 (lab)	DO (field)	ORP (mv) (field)	pH (field)	Fe(II)	Mn	SO_4	$N\text{-}NH_3$	$N\text{-}NO_3$	$o\text{-}PO_4$
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	--	142	NR	--	NR	22	2.2	0.69	5.2	<0.05	<0.20
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	--	100	2.03	--	6.44	29	5.2	1.1	3.4	--	<0.20
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	--	100	0.76	--	6.6	11	3.4	1.4	8.9	0.65	<0.20
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	--	--	0.11	--	--	--	--	--	--	--	--
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	--	--	0.05	--	--	--	--	--	--	--	--
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	--	--	0.37	--	6.60	--	--	--	--	--	--
MW6	12/13/04	59.60	b	17.88	41.72	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW6	03/14/05	59.60	b	16.82	42.78	0.00	<0.50	<0.50	<0.50	1.8	160	<50	<500	190	--	--	0.08	--	5.65	--	--	--	--	--	--
MW6	06/15/05	59.60	b	17.60	42.00	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW6	09/26/05	59.60	b	NM	NM	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW6	12/12/05	59.60	b	18.33	41.27	0.00	0.62	<0.50	<0.50	1.0	81	<50	<500	140	--	--	1.52	--	6.61	--	--	--	--	--	--
MW6	03/29/06	59.60	b	14.53	45.07	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	120	--	--	6.93	--	6.06	--	--	--	--	--	--
MW6	06/19/06	59.60	b	16.46	43.14	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	--	--	0.16	--	6.49	--	--	--	--	--	--
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	--	--	0.5	--	6.68	--	--	--	--	--	--
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	--	--	0.83	--	6.66	--	--	--	--	--	--
MW6	06/12/07	59.60	b	17.38	42.22	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	--	--	8.5	--	6.78	--	--	--	--	--	--
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	--	--	5.57	-35	6.38	--	--	--	--	--	--
MW6	06/03/08	59.60	b	17.11	42.49	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW6	09/25/08	59.60	b	18.82	40.78	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	78	<5.0	--	1.6	-160	6.2	--	--	--	--	--	--
MW6	12/29/08	59.60	b	18.30	41.30	0.00	0.77	<0.50	<0.50	<0.50	<50	<50	<100	44	<5.0	--	1.2	-60	6.5	--	--	--	--	--	--
MW6	03/24/09	59.60	l	16.80	42.80	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	51	<5.0	--	0.3	-115	6.8	--	--	--	--	--	--
MW6	06/02/09	59.60	l	17.27	42.33	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	**59**	<5.0	--	**1.1**	**-141**	**5.9**	--	--	--	--	--	--
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	--	32.2	7.15	--	7.43	<0.1	0.002	7.5	<0.10	2.6	0.13
MW7	10/11/00	96.75	a	16.90	79.85	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW7	04/10-11/01	96.75	a	15.80	80.95	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	<0.50	--	77.6	NR	--	NR	0.18	0.048	49	<0.10	2.7	0.31
MW7	07/10/01	96.75	a	16.71	80.04	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW7	11/20/01	59.47	b	16.17	43.30	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	<2.0	--	62	0.96	--	7.11	0.16	1.8	63	<0.10	--	<0.20
MW7	02/19/02	59.47	b	14.92	44.55	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW7	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	--	68	1.03	--	7.57	0.11	0.35	51	<0.10	2.8	0.11
MW7	06/27/03	59.47	b	16.28	43.19	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW7	09/29/03	59.47	b	16.88	42.59	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<500	0.62	--	--	--	--	--	--	--	--	--	--	--
MW7	12/12/03	59.47	b	14.95	44.52	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<500	<0.50	--	--	--	--	--	--	--	--	--	--	--
MW7	03/15/04	59.47	b	14.77	44.70	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<500	<0.50	--	--	0.54	--	--	--	--	--	--	--	--
MW7	06/24/04	59.47	b	16.33	43.14	0.00	<0.50	<0.50	<0.50	<1.0	<50	300	<500	<0.50	--	--	0.20	--	--	--	--	--	--	--	--
MW7	09/29/04	59.47	b	16.88	42.59	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW7	12/13/04	59.47	b	15.26	44.21	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	--	--	0.47	--	6.15	--	--	--	--	--	--
MW7	06/15/05	59.47	b	15.32	44.15	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW7	09/26/05	59.47	b	NM	NM	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW7	12/12/05	59.47	b	15.99	43.48	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	--	--	0.72	--	5.81	--	--	--	--	--	--
MW7	06/19/06	59.47	b	14.49	44.98	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW7	09/29/06	59.47	b	16.67	42.80	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW7	12/12/06	59.47	b	15.21	44.26	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW7	03/01/07	59.47	b	14.68	44.79	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	--	--	0.92	--	6.84	--	--	--	--	--	--
MW7	06/12/07	59.47	b	16.2	43.27	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW7	09/25/07	59.47	b	16.72	42.75	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	--	--	6.11	--	6.78	--	--	--	--	--	--
MW7	12/20/07	59.47	b	15.02	44.45	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW7	03/26/08	59.47	b	15.95	43.52	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	--	--	3.3	23	6.46	--	--	--	--	--	--
MW7	06/03/08	59.47	b	14.24	45.23	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

Well Number	Date	Casing Elevation (feet)		Depth to Water (feet)	GW Elevation (feet)	SPH Thickness (feet)	Concentration (µg/L)									Concentration (mg/L)								
							Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	TBA	CO_2 (lab)	DO (field)	ORP (mv) (field)	pH (field)	Fe(II)	Mn	SO_4	$N\text{-}NH_3$	$N\text{-}NO_3$	$o\text{-}PO_4$
MW7	09/25/08	59.47	b	17.07	42.40	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	<5.0	--	1.5	-186	6.3	--	--	--	--	--	--
MW7	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	--	6.4	-50	6.9	--	--	--	--	--	--
MW7	03/24/09	59.49	l	14.57	44.92	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	<5.0	--	1.7	-16	7.1	--	--	--	--	--	--
MW7	06/02/09	59.49	l	16.10	43.39	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	<5.0	--	**2.1**	**3**	**6.1**	--	--	--	--	--	--
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	--	1.5	-3	6.6	--	--	--	--	--	--
MW8	03/24/09	57.07	l	16.08	40.99	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	<5.0	--	1.8	-2	7.2	--	--	--	--	--	--
MW8	06/02/09	57.07	l	15.46	41.61	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	<5.0	--	**1.4**	**80**	**5.5**	--	--	--	--	--	--

SPH Separate-phase hydrocarbons.
CO_2 Carbon dioxide.
DO Dissolved oxygen.
Fe(II) Ferrous iron.
Mn Manganese.
SO_4 Sulfate.
$N\text{-}NH_3$ Ammonia.
$N\text{-}NO_3$ Nitrate.
$o\text{-}PO_4$ Ortho-Phosphate.
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.
NC Not calculated.
NM Not measured.
NR Not reported.
NS Not yet surveyed
µg/L Micrograms per liter.
mg/L Milligrams 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.
a 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.
c Analysis not conducted due to broken sample containers.
d Hydrocarbon reported in the gasoline range does not match laboratory gasoline standard.
e 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.
i 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.
l Resurveyed Prior to 1st Quarter 2009 Measurements

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

			Concentrations (µg/L)							
Boring ID	Date	Depth (feet)	Benzene	Toluene	Ethyl-benzene	Total 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.

660 Bold values reflect maximum detected concentrations

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

Well Number	Groundwater Gauging Frequency	Groundwater Sampling and Analysis Frequency		
		BTEX and TPH-g	MTBE	TEPH
MW1	Q	S	S	S
MW2	Q	Q	Q	Q
MW3	Q	Q	Q	Q
MW4	Q	Q	Q	Q
MW5	Q	A	A	A
MW6	Q	S	S	S
MW7	Q	A	A	A
MW8	Q	A	A	A

Q = Quarterly.
S = Semiannual.
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
PROTOCOLS FOR GROUNDWATER MONITORING

APPENDIX A

PROTOCOLS FOR GROUNDWATER MONITORING

GROUNDWATER GAUGING

Wells are opened prior to gauging to allow the groundwater level in the wells to equilibrate with atmospheric pressure. The depth to groundwater and depth to liquid-phase hydrocarbons, if present, are then measured to the nearest 0.01 feet using an electronic water level meter or optical interface probe. The measurements are made from a permanent reference point at the top of the well casing. If less than 1 foot of water is measured in a well, the water is bailed from the well and, if the well does not recover, the well is considered "functionally dry." Wells with a sheen or measurable liquid-phase hydrocarbons are generally not purged or sampled.

WELL PURGING

After the wells are gauged, each well is purged of approximately 3 well casing volumes of water to provide representative groundwater samples for analysis. Field parameters of pH, temperature, and electrical conductance are measured during purging to ensure that these parameters have stabilized before groundwater in a well is sampled. Groundwater in each well is purged using an inertial pump (WaTerra), an electric submersible pump, or a bailer. After the well is purged, the water level is checked to ensure that the well has recharged to at least 80 percent of its original water level.

GROUNDWATER SAMPLING

After purging, groundwater in each well is sampled using dedicated tubing and an inertial pump (WaTerra) or a factory-cleaned disposable bailer. Samples from extraction wells are typically collected from sample ports associated with the groundwater remediation system. Samples collected for volatile organic analysis are placed in Teflon septum-sealed 40-milliliter glass vials. Samples collected for diesel analysis are placed in 1-liter amber glass bottles. Each sample bottle is labeled with the site name, well number, date, sampler's initials, and preservative. The samples are placed in a cooler with ice for delivery to a state-certified laboratory. The information for each sample is entered on a chain-of-custody form prior to transport to the laboratory.

APPENDIX B

FIELD DOCUMENTS

Confluence Environmental, Inc.
3308 El Camino Ave, Suite 300 #148
Sacramento, CA 95821
916-760-7641 - main
916-473-8617 - fax
www.confluence-env.com

Chain of Custody

Project Name: Former Strough Chevy - Oakland

Job Number: M1-090602

TAT: (STANDARD) 5 DAY 2 DAY 24 HOUR OTHER:

Lab: Kiff	Site Address: 327 34th St, Oakland	Confluence PM: Jason Brown
Address: 2795 2nd St, Suite 300, Davis CA 95616	California Global ID No.: T0600101644	Phone / Fax: 916-760-7641 / 916-473-8617
Contact: Angelique Showman	Include EDF w/ Report: (Yes) No	Confluence Log Code: CESC
Phone/ Fax: 530-297-4800 x.127	Consultant / PM: LRM / Merhdad Javaherian	Report to: Merhdad Javaherian
	Phone / Fax: (415) 706-8935	Invoice to: Merhdad Javaherian

	Sample ID	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: NaOH	Requested Analysis: TEPH Diesel & Motor Oil* (8015)	Requested Analysis: TPH-G, BTEX (8260B)	Requested Analysis: MTBE (8260)	Requested Analysis: TBA (8260)	Notes and Comments
	MW1	745	6/2		X			5				X		X	X	X	X	
	MW2	920	"		X			"				X		X	X	X	X	
	MW3	825	"		X			"				X		X	X	X	X	
	MW4	905	"		X			"				X		X	X	X	X	
	MW5	905	"		X			"				X		X	X	X	X	
	MW6	946	"		X			"				X		X	X	X	X	
	MW7	1005	"		X			"				X		X	X	X	X	
	MW8	1030	"		X			1				X		X	X	X	X	
	TRIP BLANK	—	6/2		X			2				X			X	X	X	

Sampler's Name: B. Hyes	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: Confluence Environmental		6/3/09	1635			
Shipment Date:						
Shipment Method:				O'Samea Allen / Kiff Analytical	060309	1635

Special Instructions: *Run TEPH w/ silica gel cleanup

Confluence Environmental, Inc

Equipment Calibration Log

Job #: MI-090602		Client: CRM			Site: Strauch Chevy				
Equipment make/model	Equipment ID/ serial number	Date	Time	Calibration Standards	Equipment Reading	Equipment Calibrated	Temp (°C / °F)	Tech init.	Comments
YSI 556	#1	6/2/04	700	pH 4, 7, 10	4.0, 7.0 10.0	Yes	18	BH	
↓	↓	↓	↓	Cond 1413	1413	Yes	18	BH	
↓	↓	↓	↓	D.O. 100%	108%	Yes	18	BH	
↓	↓	↓	↓	ORP 240	240	Yes	18	BH	

Notes/comments:

Well Maintenance Inspection Form

Client: LRM Site: Former Strough Chevy Date: 4/2/09

Job #: M1-090602 Technician: BM Page of

Inspection Point	Well Inspected - No Corrective Action Required	Entry Indicates Deficiency: 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 incomplete	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)
MW-1	X														
MW-2	X														
MW-3	X														
MW-4								X							
MW-5	X														
MW-6												X			
MW-7												X			
MW-8	X														

Notes:

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

Water Level Measurements

Job Number: MI-090602 Date: 6/2/09 Client: LRM

Site: Former Stroup Chevy

Well I.D.	Time	Dia	Depth to NAPL	Thickness of NAPL	Depth to water (DTW)	Total Depth (measured)	Total Depth (historical)	Ref Point (TOC/ TOB)		
MW-1	724	2			19.60		30.59	TOC		
MW-2	714	2			20.50		31.74			
MW-3	720	2			20.70		31.88			
MW-4	722	2			19.32		27.54			
MW-5	717	2			22.70		26.40			
MW-6	708	2			17.27		26.55			
MW-7	7.05	2			16.10		34.56			
MW-8	725	1			15.46		26.45			

Purging And Sampling Data Sheet

Job#: M1-090602	**Sampler:** B Myers	**Client:** LRM
Well ID: MW1	**Date:** 6/2/09	**Site:** Former Strough Chevy, Oakland
Well diam: 1/4" 1" (2") 3" 4" 6" Other:		**DTW:** 19.60 **Total Depth:** 30.59
Purge equip: ES - diam: Bladder Peri (Waterra) Positive Air Displacement Ext. System		
disp bailer teflon bailer other:	**Tubing:** OD: New Dedicated NA	
Purge method: 3-5 Case Volume (Micro/Low-Flow) Extraction Other:		
Pump depth/ intake:	**Multipliers:** 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"=1.02 6"= 1.47 Radius² X 0.163	
(TD - DTW X Multiplier = 1 Volume	80% Recovery (TD - DTW X 0.20 + DTW)	

1 Volume = 1.8 X 3 = 5.4 (Total Purge) 80%= 21.80

Time	Temp (°C)/°F)	pH	Cond (mS/(µS))	Turbidity (NTU)	Purge Rate (gal or mL/ min)	Volume Removed (gal / L)	DO (mg/l)	ORP	DTW	Notes
Initial	18.08	5.74	1077	>1000	—	—	3.60	255	—	
738	18.25	5.54	1058	>1000	—	1.8	6.1	242	—	
741	18.20	5.52	1048	123	—	3.6	1.4	235	—	
743	18.20	5.50	1045	115	—	5.4	1.3	232	—	

Did well dewater? YES (NO)	Total volume removed: 5.5 (gal / L)	
Sample method: Disp Bailer (Ded. Tubing) New Tubing Ext. Port Other:		
Sample date: 6/2/09	Sample time: 745	DTW at sample: —
Sample ID: MW1	Lab: Kiff	Number of bottles: 5
Analysis: TPH-G, BTEX, MTBE, TBA, TEPH-D, TEPH-MO		
Equipment blank ID @	Field blank ID @	
Duplicate ID:	Pre-purge DO:	Post purge DO:
$Fe2^+$:	Pre-purge ORP:	Post purge ORP:
NAPL depth:	Volume of NAPL:	Volume removed: ml

Purging And Sampling Data Sheet

Job#: 071-0906602	**Sampler:**	B Myers	**Client:** LRM
Well ID: MW-2	**Date:** 6/2/09		**Site:** Former Strough Chevy, Oakland
Well diam: 1/4" 1" (2") 3" 4" 6" Other:			**DTW:** 20.50 **Total Depth:** 31.74
Purge equip: ES - diam: Bladder (Peri) Waterra Positive Air Displacement Ext. System			
(disp bailer) teflon bailer other:		**Tubing:** OD: New Dedicated NA	
Purge method: 3-5 Case Volume (Micro/Low-Flow) Extraction Other:			
Pump depth/ intake:	**Multipliers:** 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"=1.02 6"= 1.47 Radius² X 0.163		
(TD - DTW X Multiplier = 1 Volume	80% Recovery (TD - DTW X 0.20 + DTW)		

1 Volume = 1.8 X 3 = 5.4 (Total Purge) 80%= 22.75

Time	Temp (°C) °F)	pH	Cond (mS / (µS))	Turbidity (NTU)	Purge Rate (gal or mL/ min)	Volume Removed (gal / L)	DO (mg/l)	ORP	DTW	Notes
Initial	17.8	5.6	717	63	—	—	1.7	-45	—	
910	17.8	5.7	737	59	—	1.8	1.8	-61	—	
913	17.9	5.7	749	53	—	3.6	1.5	-61	—	
917	17.9	5.7	751	51	—	5.4	1.4	-60	—	

Did well dewater? YES (NO)		Total volume removed: 5.5 (gal / L)	
Sample method: (Disp Bailer) Ded. Tubing New Tubing Ext. Port Other:			
Sample date: 6/2/09	Sample time: 920	DTW at sample: —	
Sample ID: MW-2	Lab: Kiff	Number of bottles: 5	
Analysis: TPH-G, BTEX, MTBE, TBA, TEPH-D, TEPH-MO			
Equipment blank ID @		Field blank ID @	
Duplicate ID:		Pre-purge DO:	Post purge DO:
$Fe2^+$:		Pre-purge ORP:	Post purge ORP:
NAPL depth:	Volume of NAPL:	Volume removed:	ml

Purging And Sampling Data Sheet

Job#: 411-0906G02	**Sampler:** B Myers	**Client:** LRM
Well ID: MW3	**Date:** 6/2/09	**Site:** Former Strough Chevy, Oakland
Well diam: 1/4" 1" (2") 3" 4" 6" Other:		**DTW:** 20.70 **Total Depth:** 31.88
Purge equip: ES - diam:	Bladder (Bed) Waterra	Positive Air Displacement Ext. System
(disp bailer) teflon bailer other:	**Tubing:** OD:	New Dedicated NA
Purge method: 3-5 Case Volume	(Micro/Low-Flow) Extraction	Other:
Pump depth/ intake:	**Multipliers:** 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"=1.02 6"= 1.47 Radius² X 0.163	
(TD - DTW X Multiplier = 1 Volume	80% Recovery (TD - DTW X 0.20 + DTW)	

1 Volume = 1.8 X 3 = 5.4 (Total Purge) 80%= 22.94

Time	Temp (°C) °F)	pH	Cond (mS / (µS))	Turbidity (NTU)	Purge Rate (gal or mL/ min)	Volume Removed (gal / L)	DO (mg/l)	ORP	DTW	Notes
Init	17.8	5.64	882	>1000	—	—	1.3	-30	—	
814	17.9	5.7	884	>1000	—	1.8	3.3	-62	—	
817	18.0	5.8	882	>1000	—	3.6	1.2	-64	—	
820	17.9	5.8	882	>1000	—	5.4	1.1	-67	—	

Did well dewater? YES (NO)	Total volume removed: 5.5 (gal / L)	
Sample method: (Disp Bailer) Ded. Tubing New Tubing Ext. Port Other:		
Sample date: 6/2/09	Sample time: 825	DTW at sample: —
Sample ID: MW3	Lab: Kiff	Number of bottles: 5
Analysis: TPH-G, BTEX, MTBE, TBA, TEPH-D, TEPH-MO		
Equipment blank ID @	Field blank ID @	
Duplicate ID:	Pre-purge DO:	Post purge DO:
$Fe2^+$:	Pre-purge ORP:	Post purge ORP:
NAPL depth:	Volume of NAPL:	Volume removed: ml

Purging And Sampling Data Sheet

Job#: 411-090602	**Sampler:** B Myers	**Client:** LRM
Well ID: MW-4	**Date:** 6/2/09	**Site:** Former Strough Chevy, Oakland
Well diam: 1/4" 1" (2") 3" 4" 6" Other:		**DTW:** 19.32 **Total Depth:** 27.54
Purge equip: ES - diam:	Bladder Peri Waterra	Positive Air Displacement Ext. System
disp bailer teflon bailer other:	**Tubing:** OD:	New Dedicated NA
Purge method: 3-5 Case Volume	(Micro/Low-Flow) Extraction	Other:
Pump depth/ intake:	**Multipliers:** 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"=1.02 6"= 1.47 Radius² X 0.163	
(TD - DTW X Multiplier = 1 Volume	80% Recovery (TD - DTW X 0.20 + DTW)	

1 Volume = 1.3 X 3 = 3.9 (Total Purge) 80%= 20.96

Time	Temp (C) °F	pH	Cond (mS / µS)	Turbidity (NTU)	Purge Rate (gal or mL/ min)	Volume Removed (gal / L)	DO (mg/l)	ORP	DTW	Notes
Initial	18.48	5.76	808	>1000	—	—	1.6	226	—	
754	18.52	5.77	817	>1000	—	1.3	1.2	137	—	
757	18.50	5.79	821	>1000	—	2.6	1.2	85	—	
800	18.51	5.73	832	>1000	—	3.9	1.1	78	—	

Did well dewater? YES (NO) Total volume removed: 4 (gal / L)

Sample method: Disp Bailer (Ded. Tubing) New Tubing Ext. Port Other:

Sample date: 6/2/09 Sample time: 805 DTW at sample: —

Sample ID: MW-4 Lab: Kiff Number of bottles: 5

Analysis: TPH-G, BTEX, MTBE, TBA, TEPH-D, TEPH-MO

Equipment blank ID @ Field blank ID @

Duplicate ID: Pre-purge DO: Post purge DO:

$Fe2^+$: Pre-purge ORP: Post purge ORP:

NAPL depth: Volume of NAPL: Volume removed: ml

Confluence Environmental, Inc 3308 El Camino Ave, Suite 300 #148, Sacramento, CA 95821, 916-760-7641

Purging And Sampling Data Sheet

Job#: M1-09060 2	**Sampler:** B Myers	**Client:** LRM
Well ID: MW5	**Date:** 6/2/09	**Site:** Former Strough Chevy, Oakland
Well diam: 1/4" 1" (2") 3" 4" 6" Other:		**DTW:** 22.70 **Total Depth:** 26.40
Purge equip: ES - diam: Bladder Peri Waterra Positive Air Displacement Ext. System		
(disp bailer) teflon bailer other:	**Tubing:** OD: New Dedicated NA	
Purge method: 3-5 Case Volume (Micro/Low-Flow) Extraction Other:		
Pump depth/ intake:	**Multipliers:** 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"=1.02 6"= 1.47 Radius² X 0.163	
(TD - DTW X Multiplier = 1 Volume	80% Recovery (TD - DTW X 0.20 + DTW)	

1 Volume = 0.6 X 3 = 1.8 (Total Purge) 80%= 23.40

Time	Temp (°C / F)	pH	Cond (mS / uS)	Turbidity (NTU)	Purge Rate (gal or mL/ min)	Volume Removed (gal / L)	DO (mg/l)	ORP	DTW	Notes
Initial	17.4	5.5	469	79	—	—	4.1	84	—	
855	17.7	5.3	472	71000	—	0.6	3.8	94	—	
857	17.7	5.2	486	71000	—	1.2	3.6	104	—	
859	17.8	5.2	491	71000	—	1.8	3.5	112	—	

Did well dewater? YES (NO)	Total volume removed: 2 (gal / L)	
Sample method: (Disp Bailer) Ded. Tubing New Tubing Ext. Port Other:		
Sample date: 6/2/09	Sample time: 905	DTW at sample: —
Sample ID: MW5	Lab: Kiff	Number of bottles: 5
Analysis: TPH-G, BTEX, MTBE, TBA, TEPH-D, TEPH-MO		
Equipment blank ID @	Field blank ID @	
Duplicate ID:	Pre-purge DO:	Post purge DO:
$Fe2^+$:	Pre-purge ORP:	Post purge ORP:
NAPL depth:	Volume of NAPL:	Volume removed: ml

Purging And Sampling Data Sheet

Job#: 411-090602	**Sampler:** B Myers	**Client:** LRM
Well ID: MW-6	**Date:** 6/2/09	**Site:** Former Strough Chevy, Oakland
Well diam: 1/4" 1" (2") 3" 4" 6" Other:		**DTW:** 17.27 **Total Depth:** 26.55
Purge equip: ES - diam: Bladder Peri Waterra Positive Air Displacement Ext. System		
disp bailer teflon bailer other:	**Tubing:** OD: New Dedicated NA	
Purge method: 3-5 Case Volume (Micro/Low-Flow) Extraction Other:		
Pump depth/ intake:	**Multipliers:** 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"=1.02 6"= 1.47 Radius² X 0.163	
(TD - DTW X Multiplier = 1 Volume	80% Recovery (TD - DTW X 0.20 + DTW)	

1 Volume = 1.5 X 3 = 4.5 (Total Purge) 80%= 19.13

Time	Temp (°C) °F	pH	Cond (mS / µS)	Turbidity (NTU)	Purge Rate (gal or mL/ min)	Volume Removed (gal / L)	DO (mg/l)	ORP	DTW	Notes
Initial	17.6	5.7	726	139	—	—	6.0	-124	—	
935	17.5	5.9	685	73	—	1.5	1.3	-136	—	
937	17.5	5.9	729	68	—	3	1.0	-139	—	
939	17.5	5.9	747	72	—	4.5	1.1	-141	—	

Did well dewater? YES (NO)	Total volume removed: 4.5 (gal / L)	
Sample method: Disp Bailer (Ded. Tubing) New Tubing Ext. Port Other:		
Sample date: 6/2/09	Sample time: 940	DTW at sample: —
Sample ID: MW-6	Lab: Kiff	Number of bottles: 5
Analysis: TPH-G, BTEX, MTBE, TBA, TEPH-D, TEPH-MO		
Equipment blank ID @	Field blank ID @	
Duplicate ID:	Pre-purge DO:	Post purge DO:
$Fe2^+$:	Pre-purge ORP:	Post purge ORP:
NAPL depth:	Volume of NAPL:	Volume removed: ml

Purging And Sampling Data Sheet

Job#: 441-090602	**Sampler:** B Myers	**Client:** LRM
Well ID: MW-7	**Date:** 6/2/09	**Site:** Former Strough Chevy, Oakland
Well diam: 1/4" 1" (2") 3" 4" 6" Other:		**DTW:** 16.10 **Total Depth:** 34.56
Purge equip: ES - diam: Bladder Peri Waterra Positive Air Displacement Ext. System		
disp bailer teflon bailer other:	**Tubing:** OD: New Dedicated NA	
Purge method: 3-5 Case Volume (Micro/Low-Flow) Extraction Other:		
Pump depth/ intake:	**Multipliers:** 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"=1.02 6"= 1.47 Radius² X 0.163	
(TD - DTW X Multiplier = 1 Volume	80% Recovery (TD - DTW X 0.20 + DTW)	

1 Volume = 3 X 3 = 9 (Total Purge) 80%= 19.79

Time	Temp (°C) °F)	pH	Cond (mS / µS)	Turbidity (NTU)	Purge Rate (gal or mL/ min)	Volume Removed (gal / L)	DO (mg/l)	ORP	DTW	Notes
Initial	18.11	6.12	711	603	—	—	1.5	-40	—	
955	18.5	6.12	708	161	—	3 3	2.2	-24	—	
959	18.6	6.11	710	193	—	6	2.3	-4	—	
1003	18.0	6.10	722	221	—	9	2.1	3	—	

Did well dewater? YES (NO)		Total volume removed: 9 (gal / L)	
Sample method: Disp Bailer (Ded. Tubing) (New Tubing) Ext. Port Other:			
Sample date: 6/2/09	Sample time: 1005	DTW at sample: —	
Sample ID: MW-7	Lab: Kiff	Number of bottles: 5	
Analysis: TPH-G, BTEX, MTBE, TBA, TEPH-D, TEPH-MO			
Equipment blank ID @		Field blank ID @	
Duplicate ID:		Pre-purge DO:	Post purge DO:
$Fe2^+$:		Pre-purge ORP:	Post purge ORP:
NAPL depth:	Volume of NAPL:	Volume removed: ml	

Purging And Sampling Data Sheet

Job#: M1-090602	**Sampler:** B Myers	**Client:** LRM
Well ID: MW-8	**Date:** 6/2/09	**Site:** Former Strough Chevy, Oakland
Well diam: 1/4" (1") 2" 3" 4" 6" Other:		**DTW:** 15.46 **Total Depth:** 26.65
Purge equip: ES - diam: Bladder (Peri) Waterra Positive Air Displacement Ext. System		
disp bailer teflon bailer other:	**Tubing:** OD: New Dedicated NA	
Purge method: 3-5 Case Volume (Micro/Low-Flow) Extraction Other:		
Pump depth/ intake:	**Multipliers:** 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"=1.02 6"= 1.47 Radius² X 0.163	
(TD - DTW X Multiplier = 1 Volume	80% Recovery (TD - DTW X 0.20 + DTW)	

1 Volume = 0.4 X 3 = 1.2 (Total Purge) 80%= 17.70

Time	Temp (°C) °F)	pH	Cond (mS (µS)	Turbidity (NTU)	Purge Rate (gal or mL/ min)	Volume Removed (gal / L)	DO (mg/l)	ORP	DTW	Notes
Initial	18.7	5.5	365	55	—	—	2.7	75	—	
1025	18.7	5.6	354	52	—	0.4	1.8	76	—	
1026	18.7	5.5	356	47	—	0.8	1.5	80	—	
1027	18.8	5.5	359	45	—	1.2	1.4	80	—	

Did well dewater? YES (NO)	Total volume removed: 1.2 (gal / L)	
Sample method: Disp Bailer (Ded. Tubing) New Tubing Ext. Port Other:		
Sample date: 6/2/09	Sample time: 1030	DTW at sample: —
Sample ID: MW-8	Lab: Kiff	Number of bottles: 5
Analysis: TPH-G, BTEX, MTBE, TBA, TEPH-D, TEPH-MO		
Equipment blank ID @	Field blank ID @	
Duplicate ID:	Pre-purge DO:	Post purge DO:
$Fe2^+$:	Pre-purge ORP:	Post purge ORP:
NAPL depth:	Volume of NAPL:	Volume removed: ml

AMERICAN LABELMARK CO. — CHICAGO, IL 60646 299592-DQ

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE

GENERATOR

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of
3. Generator's Name and Mailing Address: Former Straugh Chevy 327 34th St. 4. Generator's Phone ( ) Oakland CA			

5. Transporter 1 Company Name	6. US EPA ID Number	A. State Transporter's ID
		B. Transporter 1 Phone 916-761-7640
7. Transporter 2 Company Name	8. US EPA ID Number	C. State Transporter's ID
		D. Transporter 2 Phone
9. Designated Facility Name and Site Address: JSF 1105 Airport Rd. Rio Vista CA	10. US EPA ID Number	E. State Facility's ID
		F. Facility's Phone 707-374-3834

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON HAZ PURGEWATER	1	Poly	38	GAL
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above	H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
BRANDON MYERS	Brandon M	6	2	09

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Date

APPENDIX C

LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

KIFF Analytical LLC

Report Number : 68753
Date : 06/09/2009

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

Subject : 9 Water Samples
Project Name : Former Strough Chevy - Oakland
Project Number : M1-090602

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.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

KIFF Analytical LLC

Report Number : 68753
Date : 06/09/2009

Subject : 9 Water Samples
Project Name : Former Strough Chevy - Oakland
Project Number : M1-090602

Case Narrative

Matrix Spike/Matrix Spike Duplicate results associated with sample QCTB for the analyte Methyl-t-butyl ether were affected by the analyte concentrations already present in the un-spiked sample.

KIFF Analytical LLC

Report Number : 68753

Date : 06/09/2009

Project Name : **Former Strough Chevy - Oakland**

Project Number : **M1-090602**

Sample : **MW-1** Matrix : Water Lab Number : 68753-01

Sample Date :06/02/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	06/04/2009
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	06/04/2009
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	06/04/2009
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	06/04/2009
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	06/04/2009
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	06/04/2009
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	06/04/2009
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	06/04/2009
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	06/04/2009
TPH as Diesel (w/ Silica Gel)	**< 50**	50	ug/L	M EPA 8015	06/06/2009
TPH as Motor Oil (w/ Silica Gel)	**< 100**	100	ug/L	M EPA 8015	06/06/2009
Octacosane (Silica Gel Surr)	94.8		% Recovery	M EPA 8015	06/06/2009

KIFF Analytical LLC

Report Number : 68753
Date : 06/09/2009

Project Name : **Former Strough Chevy - Oakland**
Project Number : **M1-090602**

Sample : **MW-2** Matrix : Water Lab Number : 68753-02
Sample Date :06/02/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**680**	9.0	ug/L	EPA 8260B	06/05/2009
Toluene	**3100**	9.0	ug/L	EPA 8260B	06/05/2009
Ethylbenzene	**1200**	9.0	ug/L	EPA 8260B	06/05/2009
Total Xylenes	**10000**	20	ug/L	EPA 8260B	06/08/2009
Methyl-t-butyl ether (MTBE)	**330**	9.0	ug/L	EPA 8260B	06/05/2009
Tert-Butanol	**180**	90	ug/L	EPA 8260B	06/08/2009
TPH as Gasoline	**80000**	900	ug/L	EPA 8260B	06/05/2009
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	06/05/2009
Toluene - d8 (Surr)	99.4		% Recovery	EPA 8260B	06/05/2009
TPH as Diesel (w/ Silica Gel)	**< 12000**	12000	ug/L	M EPA 8015	06/06/2009
(Note: MRL increased due to interference from Gasoline-range hydrocarbons.)					
TPH as Motor Oil (w/ Silica Gel)	**480**	100	ug/L	M EPA 8015	06/06/2009
Octacosane (Silica Gel Surr)	118		% Recovery	M EPA 8015	06/06/2009

KIFF Analytical LLC

Report Number : 68753
Date : 06/09/2009

Project Name : **Former Strough Chevy - Oakland**
Project Number : **M1-090602**

Sample : **MW-3** Matrix : Water Lab Number : 68753-03
Sample Date :06/02/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**2800**	9.0	ug/L	EPA 8260B	06/05/2009
Toluene	**7600**	15	ug/L	EPA 8260B	06/06/2009
Ethylbenzene	**1300**	9.0	ug/L	EPA 8260B	06/05/2009
Total Xylenes	**5600**	9.0	ug/L	EPA 8260B	06/05/2009
Methyl-t-butyl ether (MTBE)	**240**	9.0	ug/L	EPA 8260B	06/05/2009
Tert-Butanol	**180**	70	ug/L	EPA 8260B	06/06/2009
TPH as Gasoline	**39000**	900	ug/L	EPA 8260B	06/05/2009
1,2-Dichloroethane-d4 (Surr)	95.6		% Recovery	EPA 8260B	06/05/2009
Toluene - d8 (Surr)	99.1		% Recovery	EPA 8260B	06/05/2009
TPH as Diesel (w/ Silica Gel)	**< 1500**	1500	ug/L	M EPA 8015	06/06/2009
(Note: MRL increased due to interference from Gasoline-range hydrocarbons.)					
TPH as Motor Oil (w/ Silica Gel)	**< 100**	100	ug/L	M EPA 8015	06/06/2009
Octacosane (Silica Gel Surr)	96.6		% Recovery	M EPA 8015	06/06/2009

KIFF Analytical LLC

Report Number : 68753

Date : 06/09/2009

Project Name : **Former Strough Chevy - Oakland**

Project Number : **M1-090602**

Sample : **MW-4** Matrix : Water Lab Number : 68753-04

Sample Date :06/02/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**0.64**	0.50	ug/L	EPA 8260B	06/04/2009
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	06/04/2009
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	06/04/2009
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	06/04/2009
Methyl-t-butyl ether (MTBE)	**320**	0.50	ug/L	EPA 8260B	06/04/2009
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	06/04/2009
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	06/04/2009
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	06/04/2009
Toluene - d8 (Surr)	99.3		% Recovery	EPA 8260B	06/04/2009
TPH as Diesel (w/ Silica Gel)	**< 50**	50	ug/L	M EPA 8015	06/06/2009
TPH as Motor Oil (w/ Silica Gel)	**< 100**	100	ug/L	M EPA 8015	06/06/2009
Octacosane (Silica Gel Surr)	97.6		% Recovery	M EPA 8015	06/06/2009

KIFF Analytical LLC

Report Number : 68753

Date : 06/09/2009

Project Name : **Former Strough Chevy - Oakland**

Project Number : **M1-090602**

Sample : **MW-5** Matrix : Water Lab Number : 68753-05

Sample Date :06/02/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	06/04/2009
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	06/04/2009
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	06/04/2009
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	06/04/2009
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	06/04/2009
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	06/04/2009
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	06/04/2009
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	06/04/2009
Toluene - d8 (Surr)	98.9		% Recovery	EPA 8260B	06/04/2009
TPH as Diesel (w/ Silica Gel)	**< 50**	50	ug/L	M EPA 8015	06/06/2009
TPH as Motor Oil (w/ Silica Gel)	**< 100**	100	ug/L	M EPA 8015	06/06/2009
Octacosane (Silica Gel Surr)	96.7		% Recovery	M EPA 8015	06/06/2009

KIFF Analytical LLC

Report Number : 68753
Date : 06/09/2009

Project Name : **Former Strough Chevy - Oakland**
Project Number : **M1-090602**

Sample : **MW-6** Matrix : Water Lab Number : 68753-06
Sample Date :06/02/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	06/04/2009
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	06/04/2009
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	06/04/2009
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	06/04/2009
Methyl-t-butyl ether (MTBE)	**59**	0.50	ug/L	EPA 8260B	06/04/2009
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	06/04/2009
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	06/04/2009
1,2-Dichloroethane-d4 (Surr)	98.9		% Recovery	EPA 8260B	06/04/2009
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	06/04/2009
TPH as Diesel (w/ Silica Gel)	**< 50**	50	ug/L	M EPA 8015	06/06/2009
TPH as Motor Oil (w/ Silica Gel)	**< 100**	100	ug/L	M EPA 8015	06/06/2009
Octacosane (Silica Gel Surr)	97.2		% Recovery	M EPA 8015	06/06/2009

KIFF Analytical LLC

Report Number : 68753

Date : 06/09/2009

Project Name : **Former Strough Chevy - Oakland**

Project Number : **M1-090602**

Sample : **MW-7** Matrix : Water Lab Number : 68753-07

Sample Date :06/02/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	06/04/2009
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	06/04/2009
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	06/04/2009
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	06/04/2009
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	06/04/2009
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	06/04/2009
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	06/04/2009
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	06/04/2009
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	06/04/2009
TPH as Diesel (w/ Silica Gel)	**< 50**	50	ug/L	M EPA 8015	06/06/2009
TPH as Motor Oil (w/ Silica Gel)	**< 100**	100	ug/L	M EPA 8015	06/06/2009
Octacosane (Silica Gel Surr)	95.6		% Recovery	M EPA 8015	06/06/2009

KIFF Analytical LLC

Report Number : 68753
Date : 06/09/2009

Project Name : **Former Strough Chevy - Oakland**
Project Number : **M1-090602**

Sample : **MW-8** Matrix : Water Lab Number : 68753-08
Sample Date :06/02/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	06/05/2009
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	06/05/2009
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	06/05/2009
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	06/05/2009
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	06/05/2009
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	06/05/2009
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	06/05/2009
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	06/05/2009
Toluene - d8 (Surr)	99.9		% Recovery	EPA 8260B	06/05/2009
TPH as Diesel (w/ Silica Gel)	**< 50**	50	ug/L	M EPA 8015	06/06/2009
TPH as Motor Oil (w/ Silica Gel)	**< 100**	100	ug/L	M EPA 8015	06/06/2009
Octacosane (Silica Gel Surr)	96.3		% Recovery	M EPA 8015	06/06/2009

KIFF Analytical LLC

Report Number : 68753
Date : 06/09/2009

Project Name : **Former Strough Chevy - Oakland**
Project Number : **M1-090602**

Sample : **QCTB** Matrix : Water Lab Number : 68753-09
Sample Date :06/02/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	06/04/2009
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	06/04/2009
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	06/04/2009
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	06/04/2009
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	06/04/2009
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	06/04/2009
TPH as Gasoline	**84**	50	ug/L	EPA 8260B	06/04/2009
(Note: Primarily compounds not found in typical Gasoline)					
1,2-Dichloroethane-d4 (Surr)	104		% Recovery	EPA 8260B	06/04/2009
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	06/04/2009

Report Number : 68753

Date : 06/09/2009

QC Report : Method Blank Data

Project Name : **Former Strough Chevy - Oakland**

Project Number : **M1-090602**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (w/ Silica Gel)	< 50	50	ug/L	M EPA 8015	06/05/2009
TPH as Motor Oil (w/ Silica Gel)	< 100	100	ug/L	M EPA 8015	06/05/2009
Octacosane (Silica Gel Surr)	110		%	M EPA 8015	06/05/2009
Benzene	< 0.50	0.50	ug/L	EPA 8260B	06/04/2009
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	06/04/2009
Toluene	< 0.50	0.50	ug/L	EPA 8260B	06/04/2009
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	06/04/2009
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	06/04/2009
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	06/04/2009
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	06/04/2009
1,2-Dichloroethane-d4 (Surr)	98.6		%	EPA 8260B	06/04/2009
Toluene - d8 (Surr)	98.4		%	EPA 8260B	06/04/2009
Toluene	< 0.50	0.50	ug/L	EPA 8260B	06/05/2009
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	06/05/2009
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	06/08/2009
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	06/08/2009
Benzene	< 0.50	0.50	ug/L	EPA 8260B	06/04/2009
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	06/04/2009
Toluene	< 0.50	0.50	ug/L	EPA 8260B	06/04/2009
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	06/04/2009
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	06/04/2009
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	06/04/2009
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	06/04/2009
1,2-Dichloroethane-d4 (Surr)	103		%	EPA 8260B	06/04/2009
Toluene - d8 (Surr)	103		%	EPA 8260B	06/04/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	06/04/2009
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	06/04/2009
Toluene	< 0.50	0.50	ug/L	EPA 8260B	06/04/2009
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	06/04/2009
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	06/04/2009
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	06/04/2009
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	06/04/2009
1,2-Dichloroethane-d4 (Surr)	102		%	EPA 8260B	06/04/2009
Toluene - d8 (Surr)	102		%	EPA 8260B	06/04/2009

Report Number : 68753

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 06/09/2009

Project Name : **Former Strough Chevy - Oakland**

Project Number : **M1-090602**

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.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH-D (Si Gel)	BLANK	<50	1000	1000	1010	957	ug/L	M EPA 8015	6/5/09	101	95.7	5.36	70-130	25
Benzene	68753-01	<0.50	40.3	40.3	40.7	40.2	ug/L	EPA 8260B	6/4/09	101	99.7	1.32	70-130	25
Methyl-t-butyl ether	68753-01	<0.50	40.4	40.4	41.1	41.9	ug/L	EPA 8260B	6/4/09	102	104	1.87	70-130	25
Tert-Butanol	68753-01	<5.0	200	200	206	204	ug/L	EPA 8260B	6/4/09	103	102	0.922	70-130	25
Toluene	68753-01	<0.50	39.8	39.8	41.3	41.0	ug/L	EPA 8260B	6/4/09	104	103	0.711	70-130	25
Tert-Butanol	68763-01	<5.0	201	200	205	199	ug/L	EPA 8260B	6/5/09	102	99.4	2.56	70-130	25
Toluene	68763-01	<0.50	40.0	39.9	38.7	38.8	ug/L	EPA 8260B	6/5/09	96.7	97.2	0.528	70-130	25
Tert-Butanol	68794-02	7.9	200	200	208	206	ug/L	EPA 8260B	6/8/09	100	99.0	1.15	70-130	25
Toluene	68794-02	<0.50	39.9	39.9	40.2	40.0	ug/L	EPA 8260B	6/8/09	101	100	0.799	70-130	25
Benzene	68724-05	<0.50	40.6	40.6	41.2	40.7	ug/L	EPA 8260B	6/4/09	101	100	1.05	70-130	25
Methyl-t-butyl ether	68724-05	<0.50	40.7	40.7	36.8	41.1	ug/L	EPA 8260B	6/4/09	90.4	101	11.0	70-130	25
Tert-Butanol	68724-05	<5.0	201	201	203	203	ug/L	EPA 8260B	6/4/09	101	101	0.0591	70-130	25
Toluene	68724-05	<0.50	40.1	40.1	39.8	39.6	ug/L	EPA 8260B	6/4/09	99.3	98.7	0.578	70-130	25
Benzene	68724-08	0.60	40.6	40.6	46.1	40.6	ug/L	EPA 8260B	6/4/09	112	98.4	13.0	70-130	25
Methyl-t-butyl ether	68724-08	260	40.7	40.7	338	296	ug/L	EPA 8260B	6/4/09	179	75.0	81.7	70-130	25
Tert-Butanol	68724-08	160	201	201	391	342	ug/L	EPA 8260B	6/4/09	115	90.8	23.4	70-130	25
Toluene	68724-08	<0.50	40.1	40.1	45.8	40.5	ug/L	EPA 8260B	6/4/09	114	101	12.3	70-130	25

Report Number : 68753

QC Report : Laboratory Control Sample (LCS)

Date : 06/09/2009

Project Name : **Former Strough Chevy - Oakland**

Project Number : **M1-090602**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.6	ug/L	EPA 8260B	6/4/09	100	70-130
Methyl-t-butyl ether	40.7	ug/L	EPA 8260B	6/4/09	106	70-130
Tert-Butanol	201	ug/L	EPA 8260B	6/4/09	100	70-130
Toluene	40.1	ug/L	EPA 8260B	6/4/09	100	70-130
Tert-Butanol	201	ug/L	EPA 8260B	6/5/09	97.2	70-130
Toluene	40.1	ug/L	EPA 8260B	6/5/09	100	70-130
Tert-Butanol	201	ug/L	EPA 8260B	6/8/09	96.4	70-130
Toluene	40.1	ug/L	EPA 8260B	6/8/09	98.2	70-130
Benzene	40.1	ug/L	EPA 8260B	6/4/09	99.6	70-130
Methyl-t-butyl ether	40.8	ug/L	EPA 8260B	6/4/09	101	70-130
Tert-Butanol	202	ug/L	EPA 8260B	6/4/09	97.6	70-130
Toluene	40.1	ug/L	EPA 8260B	6/4/09	104	70-130
Benzene	40.5	ug/L	EPA 8260B	6/4/09	103	70-130
Methyl-t-butyl ether	40.6	ug/L	EPA 8260B	6/4/09	103	70-130
Tert-Butanol	201	ug/L	EPA 8260B	6/4/09	104	70-130
Toluene	40.0	ug/L	EPA 8260B	6/4/09	105	70-130

68753

Confluence Environmental, Inc.
3308 El Camino Ave, Suite 300 #148
Sacramento, CA 95821
916-760-7641 - main
916-473-8617 - fax
www.confluence-env.com

Chain of Custody

Project Name: Former Strough Chevy - Oakland

Job Number: M1-090602

TAT: (STANDARD) 5 DAY 2 DAY 24 HOUR OTHER:

Lab: **Kiff**	Site Address: 327 34th St, Oakland	Confluence PM: Jason Brown
Address: 2795 2nd St, Suite 300, Davis CA 95616	California Global ID No.: T0600101644	Phone / Fax: 916-760-7641 / 916-473-8617
Contact: Angelique Showman	Include EDF w/ Report: (Yes) No	Confluence Log Code: **CESC**
Phone/ Fax: 530-297-4800 x.127	Consultant / PM: LRM / Merhdad Javaherian	Report to: Merhdad Javaherian
	Phone / Fax: (415) 706-8935	Invoice to: Merhdad Javaherian

	Sample ID	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: NaOH	Requested Analysis: TEPH Diesel & Motor Oil* (8015)	Requested Analysis: TPH-G, BTEX (8260B)	Requested Analysis: MTBE (8260)	Requested Analysis: TBA (8260)	Notes and Comments
	MW-1	745	6/2		X			5				X		X	X	X	X	-01
	MW-2	920			X							X		X	X	X	X	-02
	MW-3	825			X							X		X	X	X	X	-03
	MW-4	805			X							X		X	X	X	X	-04
	MW-5	905			X							X		X	X	X	X	-05
	MW-6	946			X							X		X	X	X	X	-06
	MW-7	1005			X							X		X	X	X	X	-07
	MW-8	1030	—		X			1				X		X	X	X	X	-08
	QCTB	—	6/2		X			2				X			X	X	X	-09

Sampler's Name: B. Hyas	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: Confluence Environmental	[signature]	6/3/09	1635			
Shipment Date:						
Shipment Method:				[signature] Kiff Analytical	060309	1635

Special Instructions: ***Run TEPH w/ silica gel cleanup**

KIFF Analytical LLC

SAMPLE RECEIPT CHECKLIST

RECEIVER: oA (Initials)

SRG#: 68753 Date: 060309

Project ID: Former Strough Chevy - Oakland

Method of Receipt: ☐ Courier ☒ Over-the-counter ☐ Shipper

COC Inspection

Is COC present?	☒ Yes	☐ No		
Custody seals on shipping container?	☐ Intact	☐ Broken	☐ Not present	☒ N/A
Is COC Signed by Relinquisher? ☒ Yes ☐ No Dated?	☒ Yes	☐ No		
Is sampler name legibly indicated on COC?	☒ Yes	☐ No		
Is analysis or hold requested for all samples	☒ Yes	☐ No		
Is the turnaround time indicated on COC?	☒ Yes	☐ No		
Is COC free of whiteout and uninitialed cross-outs?	☒ Yes	☐ No, Whiteout	☐ No, Cross-outs	

Sample Inspection

Coolant Present: ☒ Yes ☐ No (includes water)

Temperature °C 4.2 Therm. ID# IR-2 Initial OA Date/Time 060309/1630 ☐ N/A

Are there custody seals on sample containers?	☐ Intact	☐ Broken	☒ Not present	
Do containers match COC? ☒ Yes ☐ No	☐ No, COC lists absent sample(s)	☐ No, Extra sample(s) present		
Are there samples matrices other than soil, water, air or carbon?	☐ Yes	☒ No		
Are any sample containers broken, leaking or damaged?	☐ Yes	☒ No		
Are preservatives indicated? ☐ Yes, on sample containers	☒ Yes, on COC	☐ Not indicated	☐ N/A	
Are preservatives correct for analyses requested?	☒ Yes	☐ No	☐ N/A	
Are samples within holding time for analyses requested?	☒ Yes	☐ No		
Are the correct sample containers used for the analyses requested?	☒ Yes	☐ No		
Is there sufficient sample to perform testing?	☒ Yes	☐ No		
Does any sample contain product, have strong odor or are otherwise suspected to be hot?	☐ Yes	☒ No		

Receipt Details

Matrix H2O	Container type VOA	# of containers received 42
Matrix	Container type	# of containers received
Matrix	Container type	# of containers received

Date and Time Sample Put into Temp Storage Date: 060309 Time: 1635

Quicklog

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	☐ N/A	
Is the Project name indicated:	☐ On COC	☐ On sample container(s)	☒ On Both	☐ Not indicated
If project name is listed on both COC and containers, do they all match?	☒ Yes	☐ No	☐ N/A	
Are the sample 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	☐ N/A	
Are the sample 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	☐ N/A	

COMMENTS: