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REPORT  
2002 SECOND QUARTER  
GROUNDWATER MONITORING  
FORMER SEARS AUTO CENTER #1058B  
2600 TELEGRAPH AVENUE  
OAKLAND, CALIFORNIA  
CASE I.D. # STID 1082  
FOR SEARS, ROEBUCK & CO.

URS Job No. 29863494  
August 26, 2002

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**1.0 INTRODUCTION**

This report has been prepared by URS Corporation on behalf of Sears, Roebuck & Co. (Sears). It presents results of the 2002 Second Quarter Groundwater Monitoring conducted at the above-referenced Site (Figure 1). The former Sears Auto Center (Site) is located at 2600 Telegraph Avenue in Oakland, California. The groundwater monitoring event consisted of gauging of 10 monitoring or extraction wells (MW-1 to MW-9 and EW-1) and "post purge" groundwater sample collection from six of the ten wells (MW-1, MW-3, MW-4, MW-5, MW-9 and EW-1). The purpose of the groundwater monitoring was to assess current groundwater conditions in the vicinity of removed gasoline underground storage tanks (USTs), associated fuel dispensers and product piping, and removed fresh motor oil and used oil USTs. The removed gasoline USTs, fuel dispensing system, motor oil and used oil USTs were associated with the former Sears Auto Center (Figure 2). The work is being performed under regulatory oversight of the Alameda County Environmental Health Services (ACEHS).

**2.0 SITE DESCRIPTION**

The Site is located at 2600 Telegraph Avenue, Oakland California (Figures 1 and 2). It is bordered by 27<sup>th</sup> Street to the north, Telegraph Avenue to the west, 26<sup>th</sup> Street to the south, and commercial and residential buildings to the east (Figure 2). The property is occupied by a single-story commercial structure and associated parking lots.

## 2.1 REGIONAL GEOLOGY AND HYDROGEOLOGY

The Site is approximately 1½ miles east of the San Francisco Bay and three miles west of the Diablo Range in Oakland, California. The Site is located on the eastern flank of The San Francisco Basin, a broad Franciscan depression. The basement rock of the basin is respectively overlain by the Santa Clara Formation, the Alameda Formation, and the Temescal Formation. These formations consist of unconsolidated sediments ranging in total thickness from approximately 300 feet to 1,000 feet. The Pleistocene Santa Clara Formation consists primarily of alluvial fan deposits that are interspersed with lake, swamp, river channel, and flood plain deposits. The overlying Alameda Formation was deposited in an estuary environment and consists of organic clays and alluvial fan deposits of sands, gravels and silts. The uppermost Holocene Temescal Formation is an alluvial deposit ranging in thickness from 1 to 50 feet and consists primarily of silts and clays with a basal gravel unit. (California Regional Water Quality Control Board [CRWQCB], San Francisco Bay Region Groundwater Committee, 1999).

The Site is located within the Oakland sub-area of the East Bay Plain groundwater basin. The East Bay Plain groundwater basin encompasses approximately 115 square miles and is bounded by San Pablo Bay to the north, Alameda County to the south, the Hayward Fault to the east, and San Francisco Bay to the west. Groundwater flow direction in the basin typically follows surface topography. Historical high production wells in the Oakland sub-area were screened at depths greater than 200 feet below ground surface (bgs), beneath the Yerba Buena Mud Member of the Alameda Formation. The Yerba Buena Mud is a black organic clay with an average thickness of 25 to 50 feet that forms an aquitard between upper and lower groundwater bearing units. From the 1860's until water importation programs were initiated in the 1930's, groundwater in the East Bay Plain was utilized as the primary municipal water source. Current beneficial uses of groundwater in the basin are minimal (CRWQCB, San Francisco Bay Region Groundwater Committee, 1999).

## 3.0 BACKGROUND

The Site consists of a Former Sears Auto Center converted to a commercial strip mall. A number of USTs were installed and operated in connection with the gasoline concession and auto center. Seven USTs used to contain either motor oil or waste motor oil were installed in the 1960s. American Environmental Management Corporation (AEMC) removed all the USTs containing motor oil and used oil in September 1990. Two 10,000-gallon USTs, associated with the gasoline concession were removed prior to 1990.

Since December 1992, a total of nine groundwater monitoring wells (MW-1 to MW-9) and one groundwater extraction well (EW-1) have been installed to evaluate the extent of petroleum hydrocarbon-affected groundwater onsite. Wells MW-1 MW-2, MW-3, MW-4 and MW-5 have been monitored on a periodic basis since December 1992. Wells MW-6, MW-7 and MW-8 have been monitored on a periodic basis since December 1993. Wells MW-9 and EW-1 have been monitored on a periodic basis since December 1996.

The historical groundwater monitoring data indicates that separate phase product was periodically present in well MW-3 from September 1993 until August 2000, and has not been observed in subsequent quarterly monitoring events. Historical chemical analysis results determined that the separate phase product observed in well MW-3 consists of gasoline, diesel fuel, and oil range hydrocarbons.

The highest dissolved phase concentrations of benzene, toluene, ethylbenzene, and total xylenes (BTEX) and the fuel oxygenate Methyl tert-Butyl Ether (MTBE) historically detected in groundwater samples collected from the site are summarized in the following table:

**Historical Maximum Concentrations**

Analyte	Well	Concentration ( $\mu\text{g/L}$ )	Date of Detection
Benzene	EW-1	83	06/09/97
Toluene	MW-3	6	08/25/97
Ethylbenzene	MW-3	5	08/25/97
Total Xylenes	MW-3	19	06/21/93
MTBE	EW-1	30	02/12/98

A summary of the historical chemical analytical results for previous groundwater monitoring events is provided as Appendix A.

## **4.0 HEALTH AND SAFETY PLAN**

Prior to initiating the field activities, URS prepared a site-specific Health & Safety plan to:

- Identify and describe potentially hazardous substances which may be encountered during field operations;
- Specify protective equipment and clothing for on-site activities; and
- Outline measures to be implemented in the event of an emergency.

URS field personnel reviewed the Health & Safety plan prior to commencing the field procedures. Field monitoring activities were recorded in the Health and Safety Plan and maintained in the project files at URS's Santa Ana office. A copy of the Health and Safety Plan remained onsite during field operations.

## **5.0 QUARTERLY GROUNDWATER MONITORING**

The 2002 Second Quarter Groundwater Monitoring was performed on June 6, 2002. The monitoring consisted of groundwater gauging of all 10 wells and purging and sampling of the following six wells, as requested by ACEHS in their correspondence dated October 18, 2001: MW-1, MW-3, MW-4, MW-5, MW-9 and EW-1. A description of the monitoring procedures is presented below.

### **5.1 GROUNDWATER GAUGING**

Prior to sampling, water levels were gauged in the wells using a Solinst water level indicator relative to the surveyed top of casing. Water level data was recorded to the nearest 0.01 foot. Each groundwater monitoring well was also checked for the presence of free product using a product interface probe. Free product was not observed in any of the wells. Groundwater depths and elevations for the 2002 second quarter are listed in Table 1 and historical data is included in Appendix A.

## 5.2 GROUNDWATER SAMPLING

After gauging, groundwater samples were collected from the wells after purging approximately three casing volumes of well water using a Grundfos RediFlo 2™ submersible pump. The wells were purged at a rate of approximately one-half to one gallon per minute (gpm). Groundwater purged from the wells was monitored for various field parameters including temperature, pH, electrical conductivity, oxidation reduction potential (ORP), dissolved oxygen (DO), and turbidity using a YSI™ multi-parameter meter equipped with a flow-through cell. Measured field parameters are listed in Table 1. The “post-purge” groundwater samples were collected from the disposable discharge tubing of the sampling pump within two hours of well purging or 80% recovery.

The down-hole pump was cleaned prior to use, and between wells by washing in a solution of Alconox, rinsing with tap water, final rinsing with de-ionized water, and air-drying. The disposable polyethylene discharge tubing was changed between each well. A blind duplicate sample was also collected from well EW-1 and labeled Dup-1. One equipment blank sample, labeled EB-1, was collected by pouring de-ionized water over the pump housing into sample containers following decontamination procedures.

Sample containers and handling procedures conformed to the established protocols for each specific parameter as described in EPA SW-846. The sample bottles, once filled and preserved as required, were properly labeled. The label included well identification number, sample number, date and time sampled, job number, site/client name and location, and sampling personnel's initials. The sealed and labeled samples were placed in an ice chest maintained at a temperature between 4 and 7 degrees centigrade and transported to a California Department of Health Services (DHS) accredited laboratory. A trip blank (TB), prepared by the laboratory, remained in the ice chest during sample collection and transport. Chain-of-custody records were maintained throughout the sampling program, a copy of which is included in Appendix B.

## 5.3 Well Head Maintenance

As part of the quarterly monitoring program, each well head is inspected to ensure that wells are properly sealed and secured. The routine well maintenance associated with the quarterly groundwater sampling consists of: inspection of water-tight well caps and locks on all monitoring wells and replacement as necessary; replacement of missing or damaged bolts on well box covers;

and removal and replacement of damaged well boxes and associated concrete aprons. The well heads were in good condition and no maintenance was required this quarter.

#### **5.4 LABORATORY ANALYSES**

Groundwater samples were submitted to Southland Technical Services, Inc., in Montebello, California. The groundwater samples and duplicate were analyzed for total petroleum hydrocarbons as gasoline range organics (TPHg), diesel range organics (TPHd) and oil range organics (TPHo) by modified EPA Method 8015M. The samples were also analyzed for volatile organic compounds (VOCs) including BTEX compounds and the fuel oxygenate MTBE by EPA Method 8260B. The trip blank and equipment blank samples were analyzed for TPHg by EPA Method 8015M and VOCs by EPA Method 8260B. Analyses results for the groundwater samples are summarized in Table 2. Copies of the laboratory reports are included in Appendix B.

#### **5.5 WASTE MANAGEMENT**

Liquid wastes (well purge water and decontamination fluids) were collected and stored in three 55-gallon DOT-approved drums. Containers were numbered to identify the source of the wastes. The containers were stored onsite and properly disposed of by Sears, Roebuck & Co. following review of the chemical analysis data.

### **6.0 FINDINGS**

#### **6.1 SHALLOW GROUNDWATER CONDITIONS**

Historical groundwater measurements collected since June 1996 indicate that the potentiometric surface beneath the Site has fluctuated from approximately 9 to 14 feet bgs, or 12 to 18 feet above mean sea level (msl). The measured depth to water during the 2002 second quarter monitoring ranged from 10.20 feet to 11.91 feet bgs, or approximately 13.35 feet to 16.78 feet above msl. Groundwater elevation contours were generated by Kriging (a geostatistical gridding method) using SURFER™, a graphical, contouring software program. The resultant groundwater contours indicate a southerly groundwater flow direction with a gradient of approximately 0.017. A groundwater elevation contour map, based on the 2002 second quarter water level measurements, is provided as Figure 3.



## 6.2 LABORATORY ANALYTICAL RESULTS

TPHg was detected in four of the six groundwater samples (wells MW-1, MW-3, MW-9 and EW-1) with concentrations ranging from 102 µg/L (well MW-9) to 1,040 µg/L (well EW-1). TPHd was detected in the groundwater sample from well MW-3 at a concentration of 1,026 µg/L. TPHo was not detected in any of the sampled wells. None of the groundwater samples collected contained detectable concentrations of BTEX or MTBE.

Chemical analysis results of the 2002 Second Quarter Groundwater Monitoring are presented in Table 2. A copy of the laboratory reports and chain-of-custody records is included in Appendix B. A site map showing TPH concentrations for the 2002 Second Quarter is provided as Figure 4. URS conducted a check of data completeness for the analytical laboratory reports. Results indicate that "these data are usable, as qualified, for their intended purpose." A copy of URS's Data Validation Summary is included as Appendix C.

## 7.0 DISCUSSION

Results of the 2002 Second Quarter Groundwater Monitoring indicate that dissolved phase petroleum hydrocarbons within the gasoline (TPHg) and diesel fuel (TPHd) ranges are present in shallow groundwater beneath the Site in the vicinity of the former gasoline and oil USTs. VOCs commonly associated with TPHg, such as BTEX and MTBE, were not detected in any of the groundwater samples collected during this sampling event. In addition, there have been no measurable separate phase petroleum hydrocarbons in well MW-3 for seven consecutive quarterly monitoring events.

Based on beneficial uses of groundwater in the Site vicinity, and the constituent concentrations detected during this and previous quarterly groundwater monitoring events, there is no apparent risk of petroleum hydrocarbon exposure to surface or groundwater receptors in the area. URS plans to further evaluate Site conditions related to the residual petroleum hydrocarbon plume and establish closure conditions for the site in accordance with the City of Oakland Urban Land Redevelopment (ULR) Program.

## 8.0 SCHEDULE


The 2002 third quarter groundwater monitoring event is scheduled to be conducted during September 2002 and will include sampling of all wells. The Site will be evaluated for closure in accordance with the ULR Program guidance document following completion of the 2002 third quarter monitoring event. Given our current understanding of the petroleum hydrocarbon plume conditions, the Site will likely conform to the ULR Program closure criteria. ACEHS will be notified of upcoming field activities.


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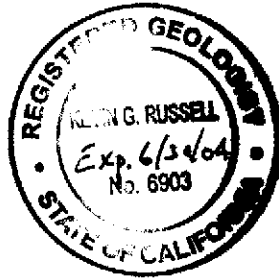
Should you have any questions or comments, please do not hesitate to contact us.

Respectfully Submitted,

URS CORPORATION

  
Robert Kovacs  
Staff Geologist

  
Kevin G. Russell, R.G.  
Task Manager



## 9.0 REFERENCES

- American Environmental management Corporation, 1990. *Underground Storage Tank Removal Sears, Roebuck and Co., Oakland California*, Sears Auto Center # 1058, 2600 Telegraph Avenue, Oakland, California, October 12.
- California Regional Water Quality Control Board – San Francisco Bay Region Groundwater Committee (RWQCB), 1999. *East Bay Plain Groundwater Basin Beneficial Use Evaluation Report*. June 1999, 106p.
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- Figures, S., 1998. *Groundwater Study and Water Supply history of the East bay Plain, Alameda and Contra Costa Counties, California*, 12 p.
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- URS Corporation, 2002. 2002 First Quarter Groundwater Monitoring, Former Sears Auto Center #1058B, 2600 Telegraph Avenue, Oakland, California, For Sears, Roebuck & Co., August 23.

**Table 1**  
**2002 Second Quarter Groundwater Levels and Field Parameters**  
**Former Sears Auto Center No. 1058B**  
**2600 Telegraph Avenue**  
**Oakland, California**

Monitoring Well No.	Date Collected	Notes	Sample Date	GROUNDWATER LEVELS				GROUNDWATER SAMPLING FIELD PARAMETERS					
				Product Thickness (feet)	Depth to Groundwater (feet bgs)	Casing Elevation (MSL)	Groundwater Elevation (MSL)	Temperature (Celsius)	pH	Electrical Conductivity (µS/cm)	O.R.P. (mV)	Turbidity (NTU)	Dissolved Oxygen (mg/L)
MW-1	6/6/02		6/6/02	NA	10.44	26.20	15.76	21.95	6.35	578.00	147.1	18.7	0.11
MW-2	6/6/02		6/6/02	NA	10.57	26.50	15.93	NA	NA	NA	NA	NA	NA
MW-3	6/6/02		6/6/02	NA	11.91	26.34	14.43	20.54	5.67	735.00	-45.5	6.8	0.01
MW-4	6/6/02		6/6/02	NA	11.29	26.17	14.88	21.86	6.69	668.00	259.7	0.0	0.07
MW-5	6/6/02		6/6/02	NA	10.20	26.98	16.78	21.29	6.31	614.00	203.7	0.0	0.17
MW-6	6/6/02		6/6/02	NA	10.55	24.32	13.77	NA	NA	NA	NA	NA	NA
MW-7	6/6/02		6/6/02	NA	10.97	24.88	13.91	NA	NA	NA	NA	NA	NA
MW-8	6/6/02		6/6/02	NA	11.86	26.12	14.26	NA	NA	NA	NA	NA	NA
MW-9	6/6/02		6/6/02	NA	11.68	25.03	13.35	20.72	6.87	709.00	101.1	0.0	1.47
EW-1	6/6/02		6/6/02	NA	12.09	26.80	14.71	20.44	6.45	766.00	-119.5	3.8	0.03

Notes:  
MSL - Mean Sea Level  
bgs - below ground surface  
Groundwater Elevation reference to MSL  
Groundwater Elevation = Top of casing elevation - Depth to Water.  
1 Sheen observed on water surface.  
2 Petroleum odor in groundwater  
3 Well covered by demolition debris. Could not be accessed.  
4 Well casing damaged  
SP - Separate phase product in well  
NA - Not analyzed/Not available.

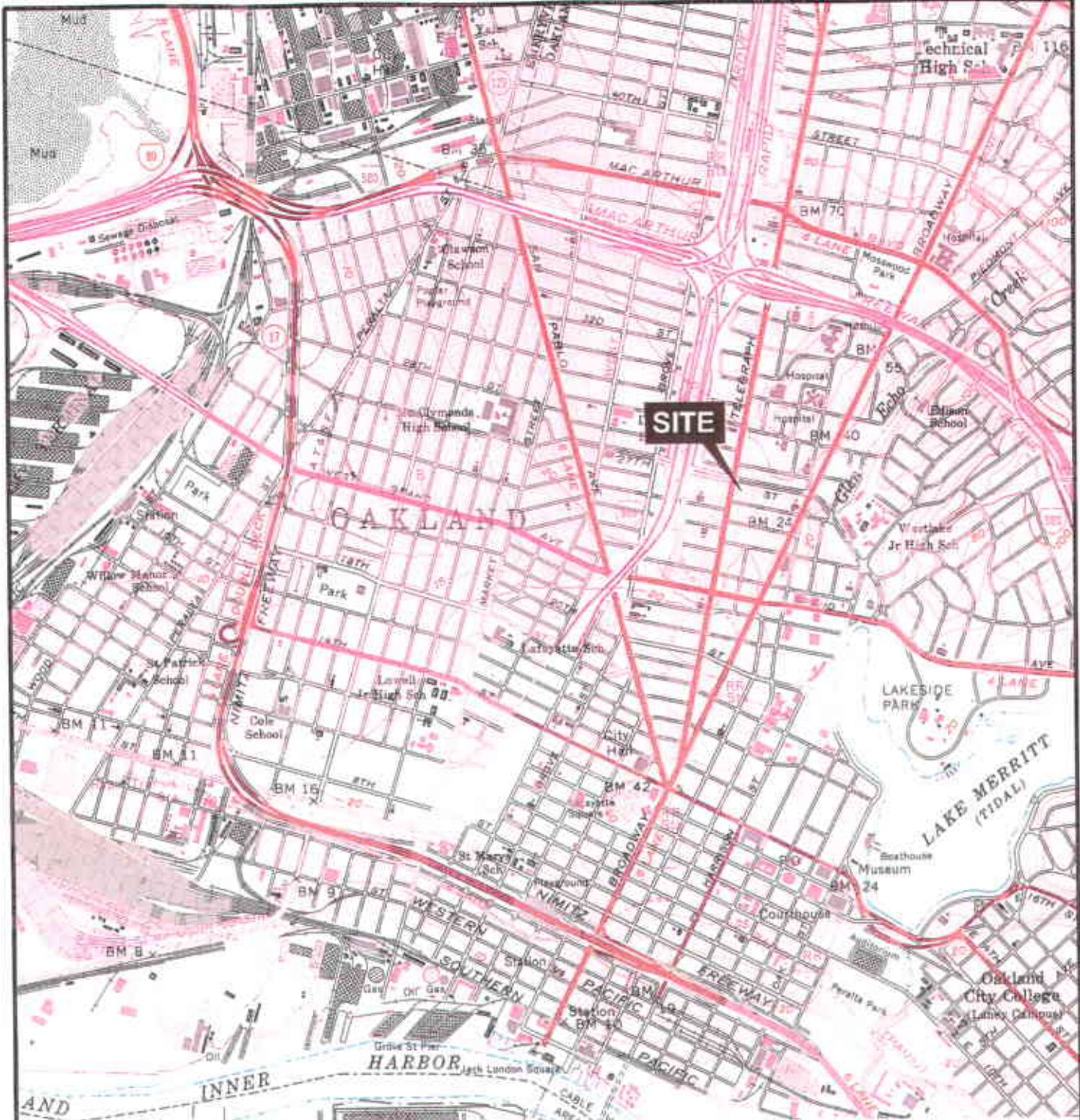
µS/cm - microSiemens per centimeter  
mV - millivolt  
mg/L - milligrams per liter  
NTU - nephelometric turbidity units  
O.R.P. - Oxidation Reduction Potential

Table 2  
 2002 Second Quarter Groundwater Analytical Results  
 Former Sears Auto Center No. 1058B  
 2600 Telegraph Avenue  
 Oakland, California

Monitoring Well No.	Sample Date	Notes	Total Petroleum Hydrocarbons (EPA Method 8015M)			Volatile Organics (EPA Method 8260B)				
			Gasoline Range (µg/L)	Diesel Range (µg/L)	Oil Range (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
MW-1	6/6/02	1	<b>147</b>	< 500	< 2000	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0
MW-1	6/6/02	1,2	<b>107</b>	< 500	< 2000	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0
MW-2	6/6/02	3	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	6/6/02	1	<b>870</b>	<b>1026</b>	< 2000	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0
MW-4	6/6/02	1	< 50	< 500	< 2000	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0
MW-5	6/6/02	1	< 50	< 500	< 2000	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0
MW-6	6/6/02	3	NA	NA	NA	NA	NA	NA	NA	NA
MW-7	6/6/02	3	NA	NA	NA	NA	NA	NA	NA	NA
MW-8	6/6/02	3	NA	NA	NA	NA	NA	NA	NA	NA
MW-9	6/6/02	1	<b>102</b>	< 500	< 2000	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0
EW-1	6/6/02	1	<b>1040</b>	< 500	< 2000	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0

Explanation / Notes:

1. "Post-purge" sample
  2. Duplicate sample analysis.
  3. Groundwater well not sampled
- = Either not present, not measured, or not calculated.  
 SH = Product sheen observed in field.  
 Detected concentrations are depicted in bold  
 < = Analytical result less than the method detection limit indicated.  
 NA= Not analyzed/Not available.



REFERENCE: USGS 7.5 Minute Series Oakland West, CA Quad, 1959, Photorevised 1980

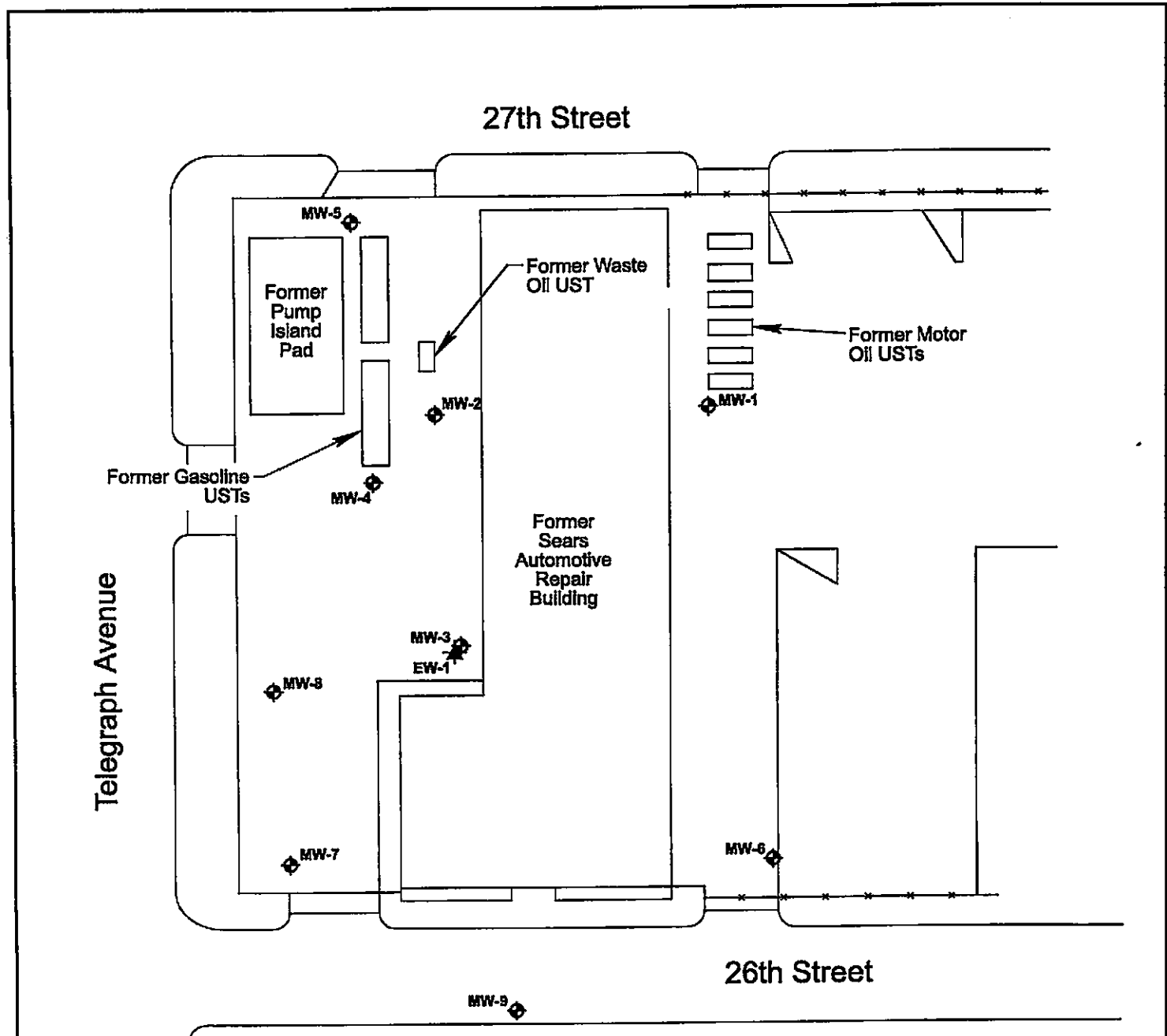
**FIGURE 1**  
**VICINITY MAP**  
 FORMER SEARS AUTO CENTER #1058  
 2600 TELEGRAPH AVENUE  
 OAKLAND, CALIFORNIA  
 For Sears, Roebuck & Co.






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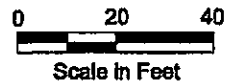


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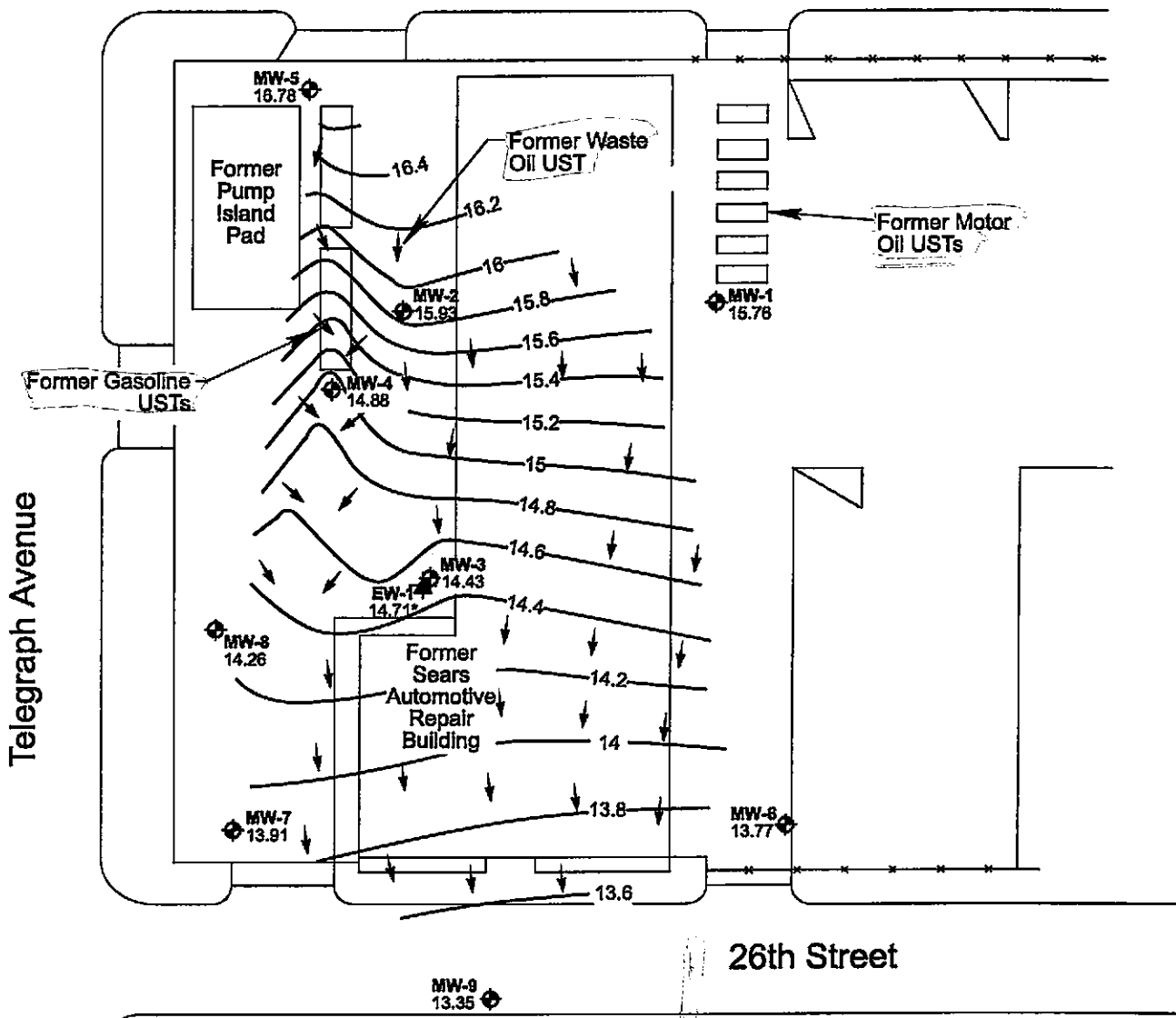
-  **MONITORING WELL LOCATION**
-  **EXTRACTED WELL LOCATION**
-  **CHAIN LINK FENCE**









<b>PLOT PLAN</b>	
Project: Sears Auto Center #1058, Oakland, California	
Project No.: 22-00000302.02	
Date: AUGUST 2002	Figure 2

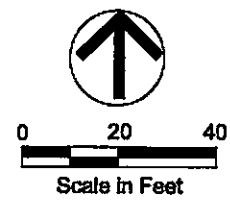
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27th Street



**LEGEND**

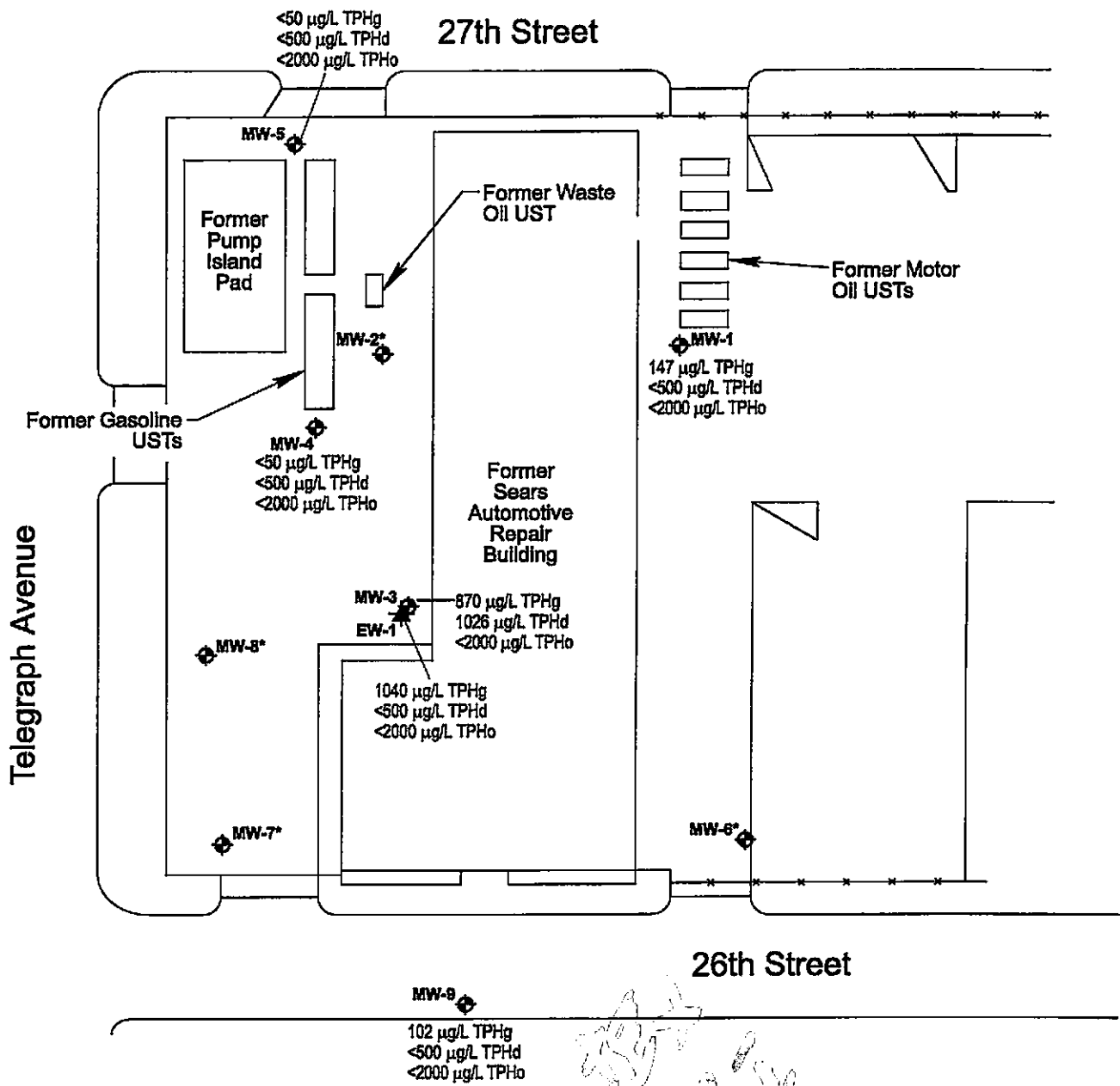
-  MW-8 15.00 **MONITORING WELL LOCATION AND GROUNDWATER POTENTIOMETRIC ELEVATION**
-  EW-1 **EXTRACTION WELL LOCATION**
-  **CHAIN LINK FENCE**
-  14.8 **GROUNDWATER ELEVATION CONTOUR (MSL)**
-  **GROUNDWATER FLOW VECTORS**
-  **GROUNDWATER ELEVATION NOT USED IN CONTOURING**



<b>GROUNDWATER CONTOUR MAP 2002 SECOND QUARTER</b>	
Project: Sears Auto Center #1058B, Oakland, California	
Project No.: 29863494	Figure 3
Date: AUGUST 2002	

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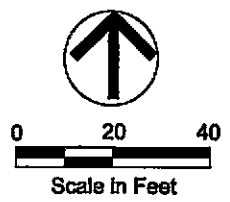




**LEGEND**

- MW-8** MONITORING WELL LOCATION
- EW-1** EXTRACTED WELL LOCATION
- CHAIN LINK FENCE
- WELL NOT SAMPLED
- TPHg** TOTAL PETROLEUM HYDROCARBONS GASOLINE ORGANICS RANGE
- TPHd** TOTAL PETROLEUM HYDROCARBONS DIESEL FUEL RANGE
- TPHo** TOTAL PETROLEUM HYDROCARBONS MOTOR OIL RANGE
- µg/L** MICROGRAMS PER LITER

2002 MONITORING



<b>TPH CONCENTRATION MAP 2002 SECOND QUARTER</b>	
Project: Sears Auto Center #1058B, Oakland, California	
Project No.: 29863494	Figure 4
Date: AUGUST 2002	

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**APPENDIX A**

**HISTORICAL GROUNDWATER MONITORING RESULTS**

Appendix A  
 Historical Groundwater Monitoring Results  
 Former Sears Auto Center No. 1058B  
 2600 Telegraph Avenue  
 Oakland, California  
 (Page 1 of 14)

Well No.	Notes	Sample Period	GROUNDWATER LEVELS					LABORATORY ANALYTICAL RESULTS											
			Depth to Groundwater (ft bgs)	Depth to Product (ft bgs)	Stand Prod Thickness (ft)	Casing Elevation (ft MSL)	Groundwater Elevation (ft MSL)	Anal. Units	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TPH <sub>g</sub> (µg/L)	TPH <sub>o</sub> (µg/L)	TPH <sub>o</sub> ** (µg/L)	TRPH (mg/L)	Dissolved Metals	
MW-1		12/30/92	10.60	--	0.00	26.20	15.60	µg/L	1	1	2	2	---	---	---	---	1	---	
MW-1		02/26/93	10.14	--	0.00	26.20	16.06	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-1		03/24/93	10.48	--	0.00	26.20	15.72	µg/L	0.4	1	0.32	10	---	---	---	---	1	---	
MW-1		04/27/93	11.30	--	0.00	26.20	14.90	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-1		05/28/93	11.43	--	0.00	26.20	14.77	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-1		06/21/93	11.71	--	0.00	26.20	14.49	µg/L	< 0.3	1	< 0.3	6	---	---	---	< **100	---	---	
MW-1		07/22/93	11.87	--	0.00	26.20	14.33	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-1		08/13/93	11.94	--	0.00	26.20	14.26	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-1		09/16/93	12.05	--	0.00	26.20	14.15	µg/L	< 0.3	0.7	2	7	---	---	---	< **100	---	---	
MW-1		10/22/93	12.00	--	0.00	26.20	14.20	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-1		11/03/93	12.10	--	0.00	26.20	14.10	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-1		12/01/93	11.46	--	0.00	26.20	14.74	µg/L	0.4	1	---	7	---	---	---	---	---	---	
MW-1		12/27/93	11.58	--	0.00	26.20	14.62	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-1		12/30/93	--	--	--	26.20	--	µg/L	---	---	1	---	---	---	---	< 100	---	---	
MW-1		01/05/94	11.69	--	0.00	26.20	14.51	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-1		02/08/94	11.87	--	0.00	26.20	14.33	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-1		03/09/94	11.08	--	0.00	26.20	15.12	µg/L	< 0.3	< 0.3	2.4	4.2	---	---	---	< 100	---	---	
MW-1		04/01/94	11.47	--	0.00	26.20	14.73	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-1		05/10/94	10.77	--	0.00	26.20	15.43	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-1		06/30/94	11.82	--	0.00	26.20	14.38	µg/L	0.6	0.7	1.4	15	---	---	---	< 100	---	---	
MW-1		07/28/94	11.90	--	0.00	26.20	14.30	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-1		08/31/94	11.94	--	0.00	26.20	14.26	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-1		09/27/94	12.04	--	0.00	26.20	14.16	µg/L	0.9	0.5	< 0.3	10	---	---	---	< *250	---	---	
MW-1		10/28/94	12.06	--	0.00	26.20	14.14	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-1		11/15/94	10.02	--	0.00	26.20	16.18	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-1		12/01/94	10.61	--	0.00	26.20	15.59	µg/L	0.4	0.4	< 0.3	6.6	---	---	---	< *250	---	---	
MW-1		01/04/95	9.93	--	0.00	26.20	16.27	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-1		02/01/95	9.56	--	0.00	26.20	16.64	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-1		03/08/95	10.51	--	0.00	26.20	15.69	µg/L	< 0.3	0.6	4.7	2.7	---	---	---	< *250	---	---	
MW-1		04/03/95	--	--	--	26.20	--	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-1		05/18/95	10.80	--	0.00	26.20	15.40	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-1		06/09/95	11.18	--	0.00	26.20	15.02	µg/L	< 0.3	1.4	3.9	5.6	---	---	---	< *250	---	---	
MW-1		07/13/95	11.27	--	0.00	26.20	14.93	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-1		08/03/95	11.48	--	0.00	26.20	14.72	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-1		08/29/95	11.56	--	0.00	26.20	14.64	µg/L	0.3	0.9	< 0.5	2.8	---	---	---	< *250	---	---	
MW-1		09/15/95	11.71	--	0.00	26.20	14.49	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-1		10/20/95	11.80	--	0.00	26.20	14.40	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-1		11/15/95	11.61	--	0.00	26.20	14.59	µg/L	< 0.5	< 0.5	< 1.0	27	---	---	---	< *200	---	---	
MW-1		01/15/96	11.21	--	0.00	26.20	14.99	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-1		03/05/96	9.35	--	0.00	26.20	16.85	µg/L	< 0.5	< 1.0	< 1.0	< 2.0	---	---	---	< *200	---	---	
MW-1		04/19/96	10.60	--	0.00	26.20	15.60	µg/L	---	---	---	---	---	---	---	---	---	---	

Appendix A  
 Historical Groundwater Monitoring Results  
 Former Sears Auto Center No. 1058B  
 2600 Telegraph Avenue  
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Well No.	Notes	Sample Period	GROUNDWATER LEVELS					LABORATORY ANALYTICAL RESULTS											
			Depth to Groundwater (ft bgs)	Depth to Product (ft bgs)	Stand Prod Thickness (ft)	Casing Elevation (ft MSL)	Groundwater Elevation (ft MSL)	Anal. Units	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TPH <sub>g</sub> (µg/L)	TPH <sub>o</sub> (µg/L)	TPH <sub>o</sub> *** (µg/L)	TRPH (mg/L)	Dissolved Metals	
MW-1		05/10/96	11.18	--	0.00	26.20	15.02	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-1		06/03/96	10.90	--	0.00	26.20	15.30	µg/L	< 0.5	< 1.0	< 3.7	< 3.4	---	340	---	< *200	---	---	
MW-1		09/04/96	11.31	--	0.00	26.20	14.89	µg/L	< 0.5	< 1.0	< 1.0	< 2.0	---	390	---	< 310	---	---	
MW-1		12/02/96	10.61	--	0.00	26.20	15.59	µg/L	< 0.5	< 1.0	< 1.0	< 2.7	---	400	---	< *200	---	---	
MW-1		02/26/97	10.31	--	0.00	26.20	15.89	µg/L	< 0.5	< 1.0	< 1.0	< 4.5	---	390	---	< *200	---	---	
MW-1		06/09/97	11.25	--	0.00	26.20	14.95	µg/L	< 0.5	< 1.0	< 0.5	< 2.3	< 10	340	---	< 200	---	---	
MW-1		08/25/97	11.15	--	0.00	26.20	15.05	µg/L	< 0.5	< 0.5	< 0.5	< 3	< 5	220	---	< 200	---	---	
MW-1		11/28/97	10.07	--	0.00	26.20	16.13	µg/L	< 0.5	< 0.5	< 0.5	< 3	6.0	340	---	< 200	---	---	
MW-1		02/12/98	8.70	--	0.00	26.20	17.50	µg/L	< 0.5	< 0.5	< 0.5	< 2.0	< 5	280	---	< 200	---	---	
MW-1		05/20/98	10.89	--	0.00	26.20	15.31	µg/L	< 0.5	< 0.5	< 0.8	< 3	< 5	340	---	< 200	---	---	
MW-1		08/11/98	11.60	--	0.00	26.20	14.60	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	230	---	< 500	---	---	
MW-1		11/10/98	11.10	--	0.00	26.20	15.10	µg/L	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	150	---	< 250	---	---	
MW-1		02/11/99	9.40	--	0.00	26.20	16.80	µg/L	< 0.50	< 0.50	< 1	< 1.6	6.7	260	---	< 500	---	---	
MW-1		05/11/99	11.05	--	0.00	26.20	15.15	µg/L	< 0.5	< 0.54	< 0.5	< 4.7	< 2.5	160	---	< 250	---	---	
MW-1		08/10/99	11.66	--	0.00	26.20	14.54	µg/L	< 0.5	< 0.79	< 0.5	< 2.8	< 2.0	230	---	< 250	---	---	
MW-1		10/26/99	12.90	--	0.00	26.20	13.30	µg/L	< 0.5	< 0.5	< 0.64	< 1.2	< 2.5	95	---	< 250	---	---	
MW-1		02/25/00	9.80	--	0.00	26.20	16.40	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	1.6	330	---	< 310	---	---	
MW-1		05/03/00	10.90	--	0.00	26.20	15.30	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	1.5	220	---	< 100	---	---	
MW-1		08/02/00	11.40	--	0.00	26.20	14.80	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	1.1	170	---	< 100	---	---	
MW-1		11/07/00	10.83	--	0.00	26.20	15.37	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	0.9	250	---	< 100	---	---	
MW-1		02/15/01	9.40	--	0.00	26.20	16.80	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	1.0	350	---	< 200	---	---	
MW-1		04/26/01	10.43	--	0.00	26.20	15.77	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	1.5	310	---	< 200	---	---	
MW-1		07/23/01	11.27	--	0.00	26.20	14.93	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	1.7	180	---	< 100	---	---	
MW-1		11/01/01	10.90	--	0.00	26.20	15.30	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	1.6	200	---	< 120	---	---	
MW-1	2	03/28/02	9.80	--	0.00	26.20	16.40	µg/L	< 0.50	< 0.50	< 0.50	< 1.0	< 5.0	120	92	< 500	---	---	
MW-1	2	06/06/02	10.44	--	0.00	26.20	15.76	µg/L	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	147	< 500	< 2000	---	---	
MW-1	2,3	06/06/02	10.44	--	0.00	26.20	15.76	µg/L	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	107	< 500	< 2000	---	---	
MW-2		12/30/93	10.65	--	0.00	26.50	15.85	µg/L	0.7	< 0.3	< 0.3	< 3	---	190	---	---	1	ND	
MW-2		02/26/93	10.56	--	0.00	26.50	15.94	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-2		03/24/93	10.52	--	0.00	26.50	15.98	µg/L	0.6	< 0.3	< 0.3	< 2	---	120	---	---	< 1	ND	
MW-2		04/27/93	11.17	--	0.00	26.50	15.33	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-2		05/28/93	11.12	--	0.00	26.50	15.38	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-2		06/21/93	11.41	--	0.00	26.50	15.09	µg/L	0.3	< 0.3	< 0.3	< 0.7	---	82	---	< **100	---	ND	
MW-2		07/22/93	11.50	--	0.00	26.50	15.00	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-2		08/13/93	11.54	--	0.00	26.50	14.96	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-2		09/16/93	11.62	--	0.00	26.50	14.88	µg/L	< 0.3	< 0.3	< 0.3	< 0.5	---	28	---	< **100	---	ND	
MW-2		10/22/93	11.57	--	0.00	26.50	14.93	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-2		11/03/93	11.65	--	0.00	26.50	14.85	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-2		11/24/93	11.52	--	0.00	26.50	14.98	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-2		12/01/93	11.88	--	0.00	26.50	15.42	µg/L	< 0.3	< 0.3	< 0.3	< 1	---	68	---	---	---	ND	
MW-2		12/27/93	11.27	--	0.00	26.50	15.23	µg/L	---	---	---	---	---	---	---	---	---	---	

Appendix A  
 Historical Groundwater Monitoring Results  
 Former Sears Auto Center No. 1058B  
 2600 Telegraph Avenue  
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Well No.	Notes	Sample Period	GROUNDWATER LEVELS					LABORATORY ANALYTICAL RESULTS											
			Depth to Groundwater (ft bgs)	Depth to Product (ft bgs)	Stand Prod Thickness (ft)	Casing Elevation (ft MSL)	Groundwater Elevation (ft MSL)	Anal. Units	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TPH <sub>p</sub> (µg/L)	TPH <sub>c</sub> (µg/L)	TPH <sub>o</sub> *** (µg/L)	TRPH (mg/L)	Dissolved Metals	
MW-2		12/30/93	--	--	--	26.50	--	µg/L	--	--	--	--	--	--	--	310	--	--	
MW-2		01/05/94	11.39	--	0.00	26.50	15.11	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-2		02/06/94	11.49	--	0.00	26.50	15.01	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-2		03/09/94	11.06	--	0.00	26.50	15.44	µg/L	< 0.3	< 0.3	< 0.3	< 0.5	--	47	--	100	--	ND	
MW-2		04/01/94	11.25	--	0.00	26.50	15.25	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-2		05/10/94	10.83	--	0.00	26.50	15.67	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-2		06/30/94	11.44	--	0.00	26.50	15.06	µg/L	< 0.3	< 0.3	< 0.3	< 0.5	--	< 10	--	100	--	ND	
MW-2		07/28/94	11.48	--	0.00	26.50	15.02	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-2		08/31/94	11.56	--	0.00	26.50	14.94	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-2		09/27/94	11.61	--	0.00	26.50	14.89	µg/L	< 0.3	< 0.3	< 0.3	< 0.5	--	< 10	--	< 250	--	*15	
MW-2		10/28/94	11.65	--	0.00	26.50	14.85	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-2		11/15/94	9.65	--	0.00	26.50	16.85	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-2		12/01/94	10.71	--	0.00	26.50	15.79	µg/L	< 0.3	< 0.3	< 0.3	< 0.5	--	54	--	1,300	--	*6	
MW-2		01/04/95	10.11	--	0.00	26.50	16.39	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-2		02/01/95	10.35	--	0.00	26.50	16.12	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-2		03/08/95	10.80	--	0.00	26.50	15.70	µg/L	< 0.3	< 0.3	< 0.3	< 0.5	--	< 10	--	3,000	--	ND	
MW-2		04/03/95	10.61	--	0.00	26.50	15.89	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-2		05/18/95	10.95	--	0.00	26.50	15.55	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-2		06/09/95	11.13	--	0.00	26.50	15.37	µg/L	< 0.3	< 0.3	< 0.3	< 0.5	--	< 50	--	2,000	--	ND	
MW-2		07/13/95	11.15	--	0.00	26.50	15.35	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-2		08/03/95	11.26	--	0.00	26.50	15.24	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-2		08/20/95	11.22	--	0.00	26.50	15.18	µg/L	< 0.3	< 0.3	< 0.3	< 0.5	--	< 50	--	4,300	--	*20	
MW-2		09/15/95	11.42	--	0.00	26.50	15.08	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-2		10/20/95	11.42	--	0.00	26.50	15.08	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-2		11/15/95	11.37	--	0.00	26.50	15.13	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	--	< 50	--	6,100	--	ND	
MW-2		01/15/96	11.10	--	0.00	26.50	15.40	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-2		03/05/96	10.24	--	0.00	26.50	16.26	µg/L	< 0.5	< 1.0	< 1.0	< 2.0	--	< 100	--	3,200	--	ND	
MW-2		04/10/96	10.84	--	0.00	26.50	15.66	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-2		05/10/96	11.13	--	0.00	26.50	15.37	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-2		06/03/96	10.94	--	0.00	26.50	15.56	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-2		06/04/96	--	--	--	26.50	--	µg/L	< 0.5	< 1.0	< 1.0	< 2.0	--	< 100	--	3,800	--	ND	
MW-2		09/04/96	11.24	--	0.00	26.50	15.26	µg/L	< 0.5	< 1.0	< 1.0	< 2.0	--	< 100	--	3,100	--	--	
MW-2		12/02/96	10.80	--	0.00	26.50	15.70	µg/L	< 0.5	< 1.0	< 1.0	< 2.0	--	< 100	--	2,200	--	--	
MW-2		02/26/97	10.70	--	0.00	26.50	15.80	µg/L	< 0.5	< 1.0	< 1.0	< 2.0	--	< 100	--	2,100	--	--	
MW-2		06/09/97	11.10	--	0.00	26.50	15.40	µg/L	< 0.5	< 1.0	< 1.0	< 2.0	< 10	< 100	--	2,400	--	--	
MW-2		08/25/97	11.05	--	0.00	26.50	15.45	µg/L	< 0.5	< 0.5	< 0.5	< 2.0	< 5	< 50	--	< 200	--	--	
MW-2		11/28/97	10.59	--	0.00	26.50	15.91	µg/L	0.6	< 0.5	< 0.3	< 2.0	< 5	< 50	--	1,900	--	--	
MW-2		02/13/98	10.04	--	0.00	26.50	16.46	µg/L	< 0	< 0.5	< 0.5	< 2.0	< 5	< 50	--	1,600	--	--	
MW-2		05/20/98	10.84	--	0.00	26.50	15.66	µg/L	< 0.5	< 0.5	< 0.5	< 2.0	< 5	< 50	--	3,100	--	--	
MW-2		08/11/98	11.56	--	0.00	26.50	14.94	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 50	--	1,200	--	--	
MW-2		11/10/98	11.02	--	0.00	26.50	15.48	µg/L	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 50	--	320	--	--	

Appendix A  
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Well No.	Notes	Sample Period	GROUNDWATER LEVELS					LABORATORY ANALYTICAL RESULTS												
			Depth to Groundwater (ft bgs)	Depth to Product (ft bgs)	Stand Prod Thickness (ft)	Casing Elevation (ft MSL)	Groundwater Elevation (ft MSL)	Anal. Units	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TPH <sub>g</sub> (µg/L)	TPH <sub>o</sub> (µg/L)	TPH <sub>o</sub> ** (µg/L)	TRPH (mg/L)	Dissolved Metals		
MW-2		02/11/99	10.17	--	0.00	26.50	16.33	µg/L	< 0.50	< 0.50	< 0.50	< 0.50	3.3	< 50	--	< 500	--	--		
MW-2		05/11/99	10.96	--	0.00	26.50	15.54	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 50	--	1,400	--	--		
MW-2		08/10/99	11.27	--	0.00	26.50	15.23	µg/L	---	---	---	---	---	---	---	---	---	---		
MW-2		10/26/99	11.03	--	0.00	26.50	14.47	µg/L	---	---	---	---	---	---	---	---	---	---		
MW-2		02/25/00	9.95	--	0.00	26.50	16.55	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	1.4	< 50	--	980	--	--		
MW-2		05/03/00	10.78	--	0.00	26.50	15.72	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	0.6	< 50	--	100	--	--		
MW-2		08/02/00	11.02	--	0.00	26.50	15.48	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	1.0	< 50	--	100	--	--		
MW-2		11/07/00	10.74	--	0.00	26.50	15.76	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	1.4	< 50	--	100	--	--		
MW-2		02/15/01	10.16	--	0.00	26.50	16.34	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	1.0	< 50	--	100	--	--		
MW-2		04/27/01	10.60	--	0.00	26.50	15.90	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	0.6	< 50	--	340	--	--		
MW-2		07/23/01	11.00	--	0.00	26.50	15.50	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	1.2	< 50	--	100	--	--		
MW-2		11/01/01	11.09	--	0.00	26.50	15.50	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	1.4	< 50	--	340	--	--		
MW-2	5	03/28/02	10.42	--	0.00	26.50	16.08	µg/L	---	---	---	---	---	---	---	---	---	---		
MW-2	5	06/06/02	10.27	--	0.00	26.50	15.93	µg/L	---	---	---	---	---	---	---	---	---	---		
MW-3		12/30/92	12.43	--	0.00	26.34	13.91	µg/L	11	0.9	< 0.3	2	---	910	---	SPH	20	*ND		
MW-3		02/26/92	12.21	--	0.00	26.34	14.13	µg/L	---	---	---	---	---	---	---	---	---	---		
MW-3		03/24/93	12.36	--	0.00	26.34	13.98	µg/L	28	0.7	1	8	---	3,300	---	SPH	28	**15		
MW-3		04/27/93	12.70	--	0.00	26.34	13.64	µg/L	---	---	---	---	---	---	---	---	---	---		
MW-3		05/28/93	12.72	--	0.00	26.34	13.62	µg/L	---	---	---	---	---	---	---	---	---	---		
MW-3		06/21/93	12.87	--	0.00	26.34	13.47	µg/L	21	5	2	19	---	**2,600	---	32,000	26	cd5		
MW-3		07/22/93	12.92	--	0.00	26.34	13.42	µg/L	---	---	---	---	---	---	---	---	---	---		
MW-3		08/13/93	12.96	--	0.00	26.34	13.38	µg/L	---	---	---	---	---	---	---	---	---	---		
MW-3		09/16/93	13.05	13.01	0.04	26.34	13.32	µg/L	SPH	SPH	SPH	SPH	---	SPH	---	SPH	SPH	SPH		
MW-3		10/22/93	--	--	--	26.34	--	µg/L	---	---	---	---	---	---	---	---	---	---		
MW-3		11/03/93	13.24	13.13	0.11	26.34	13.19	µg/L	---	---	---	---	---	---	---	---	---	---		
MW-3		11/24/94	12.96	12.94	0.02	26.34	13.40	µg/L	---	---	---	---	---	---	---	---	---	---		
MW-3		12/01/93	12.73	12.71	0.02	26.34	13.63	µg/L	SPH	SPH	SPH	SPH	---	SPH	---	SPH	SPH	SPH		
MW-3		12/27/93	12.81	12.77	0.04	26.34	13.56	µg/L	---	---	---	---	---	---	---	---	---	---		
MW-3		01/05/94	12.87	12.85	0.02	26.34	13.49	µg/L	---	---	---	---	---	---	---	---	---	---		
MW-3		02/08/94	12.37	--	0.00	26.34	13.97	µg/L	---	---	---	---	---	---	---	---	---	---		
MW-3		03/09/94	12.53	--	0.00	26.34	13.81	µg/L	2	1.4	4.5	13	---	2,000	---	**5,700	**63	*ND		
MW-3		04/01/94	12.64	--	0.00	26.34	13.70	µg/L	---	---	---	---	---	---	---	---	---	---		
MW-3		05/10/94	12.32	--	0.00	26.34	14.02	µg/L	---	---	---	---	---	---	---	---	---	---		
MW-3		06/30/94	12.86	12.84	0.02	26.34	13.50	µg/L	SPH	SPH	SPH	SPH	---	SPH	---	SPH	SPH	SPH		
MW-3		07/28/94	12.97	12.93	0.04	26.34	13.40	µg/L	---	---	---	---	---	---	---	---	---	---		
MW-3		08/31/94	13.07	13.04	0.03	26.34	13.29	µg/L	---	---	---	---	---	---	---	---	---	---		
MW-3		09/27/94	13.24	13.13	0.11	26.34	13.19	µg/L	SPH	SPH	SPH	SPH	---	SPH	---	SPH	SPH	SPH		
MW-3		10/28/94	13.52	13.30	0.22	26.34	13.00	µg/L	---	---	---	---	---	---	---	---	---	---		
MW-3		11/15/94	11.08	11.05	0.03	26.34	15.28	µg/L	---	---	---	---	---	---	---	---	---	---		
MW-3		12/01/94	11.92	11.90	0.02	26.34	14.44	µg/L	SPH	SPH	SPH	SPH	---	SPH	---	SPH	SPH	SPH		
MW-3		01/04/95	11.81	11.80	0.01	26.34	14.54	µg/L	---	---	---	---	---	---	---	---	---	---		

Appendix A  
Historical Groundwater Monitoring Results  
Former Sears Auto Center No. 1058B  
2600 Telegraph Avenue  
Oakland, California  
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Well No.	Notes	Sample Period	GROUNDWATER LEVELS					LABORATORY ANALYTICAL RESULTS											
			Depth to Groundwater (ft bgs)	Depth to Product (ft bgs)	Stand Prod Thickness (ft)	Casing Elevation (ft MSL)	Groundwater Elevation (ft MSL)	Anal. Units	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TPH <sub>p</sub> (µg/L)	TPH <sub>d</sub> (µg/L)	TPH <sub>o</sub> *** (µg/L)	TRPH (µg/L)	Dissolved Metals	
MW-3		02/01/95	12.02	12.00	0.02	26.34	14.34	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-3		03/08/95	12.40	12.35	0.05	26.34	13.98	µg/L	SPH	SPH	SPH	SPH	---	SPH	---	SPH	SPH	SPH	
MW-3		04/03/95	12.13	12.09	0.04	26.34	14.24	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-3		05/18/95	12.46	12.43	0.03	26.34	13.90	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-3		06/09/95	12.62	12.60	0.02	26.34	13.74	µg/L	SPH	SPH	SPH	SPH	---	SPH	---	SPH	SPH	SPH	
MW-3		07/13/95	12.64	12.55	0.09	26.34	13.77	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-3		08/03/95	12.67	12.64	0.03	26.34	13.69	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-3		08/29/95	12.68	12.65	0.03	26.34	13.68	µg/L	SPH	SPH	SPH	SPH	---	SPH	---	SPH	SPH	SPH	
MW-3		09/15/95	13.14	13.00	0.14	26.34	13.31	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-3		10/20/95	12.89	12.86	0.03	26.34	13.47	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-3		11/15/95	12.88	12.81	0.07	26.34	13.52	µg/L	SPH	SPH	SPH	SPH	---	SPH	---	SPH	SPH	SPH	
MW-3		01/15/96	12.73	12.60	0.13	26.34	13.71	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-3		03/05/96	11.72	11.68	0.04	26.34	14.65	µg/L	SPH	SPH	SPH	SPH	---	SPH	---	SPH	SPH	SPH	
MW-3		04/19/96	12.38	12.36	0.02	26.34	13.98	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-3		05/10/96	11.95	11.93	0.02	26.34	14.41	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-3		06/03/96	13.36	12.93	0.43	26.34	13.32	µg/L	SPH	SPH	SPH	SPH	---	SPH	---	SPH	SPH	SPH	
MW-3		09/04/96	12.65	12.60	0.05	26.34	13.73	µg/L	SPH	SPH	SPH	SPH	---	SPH	---	SPH	SPH	SPH	
MW-3		12/02/96	12.14	12.11	0.03	26.34	14.22	µg/L	SPH	SPH	SPH	SPH	---	SPH	---	SPH	SPH	SPH	
MW-3		02/26/97	12.04	12.03	0.01	26.34	14.31	µg/L	SPH	SPH	SPH	SPH	---	SPH	---	SPH	SPH	SPH	
MW-3		06/09/97	12.43	12.39	0.04	26.34	13.94	µg/L	SPH	SPH	SPH	SPH	SPH	SPH	---	SPH	SPH	SPH	
MW-3		08/25/97	12.31	12.28	0.03	26.34	14.05	µg/L	5	6	5	16	< 30	5,600	---	110,000	---	---	
MW-3		11/28/97	12.16	12.13	0.03	26.34	14.20	µg/L	SPH	SPH	SPH	SPH	SPH	SPH	---	SPH	SPH	SPH	
MW-3		02/12/98	11.88	11.85	0.03	26.34	14.48	µg/L	SPH	SPH	SPH	SPH	SPH	SPH	---	SPH	SPH	SPH	
MW-3		05/20/98	12.54	12.51	0.03	26.34	13.82	µg/L	SPH	SPH	SPH	SPH	SPH	SPH	---	SPH	SPH	SPH	
MW-3		08/11/98	13.15	12.97	0.18	26.34	13.33	µg/L	SPH	SPH	SPH	SPH	SPH	SPH	---	SPH	SPH	---	
MW-3		11/10/98	12.57	12.54	0.03	26.34	13.79	µg/L	SPH	SPH	SPH	SPH	SPH	SPH	---	SPH	SPH	SPH	
MW-3		02/11/99	11.77	11.75	0.02	26.34	14.59	µg/L	SPH	SPH	SPH	SPH	SPH	SPH	---	SPH	SPH	SPH	
MW-3		05/11/99	12.52	---	0.00	26.34	13.82	µg/L	5.2	< 0.5	< 0.5	< 0.5	< 2.0	530	---	59,000	---	---	
MW-3		08/10/99	13.64	13.50	0.14	26.34	12.81	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	2.2	2,200	---	54,000	---	---	
MW-3		10/26/99	13.04	13.01	0.03	26.34	13.32	µg/L	SPH	SPH	SPH	SPH	SPH	SPH	---	SPH	SPH	SPH	
MW-3		02/25/00	11.41	---	0.00	26.34	14.93	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	20	7,800	---	130,000	---	---	
MW-3		05/03/00	12.30	---	0.00	26.34	14.04	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	2.2	1,100	---	42,000	---	---	
MW-3		08/02/00	12.80	12.61	0.19	26.34	13.69	µg/L	SPH	SPH	SPH	SPH	---	SPH	---	SPH	SPH	---	
MW-3		11/07/00	12.18	---	0.00	26.34	14.16	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	1.6	1,100	---	13,000	---	---	
MW-3		02/15/01	11.61	---	0.00	26.34	14.73	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	0.7	430	---	73,000	---	---	
MW-3		04/26/01	12.06	---	sheen	26.34	14.28	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	1.4	4,100	---	110,000	---	---	
MW-3		07/23/01	12.60	---	0.00	26.34	13.74	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	1.7	1,200	---	64,000	---	---	
MW-3		11/01/01	12.66	---	0.00	26.34	13.68	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	1.4	1,200	---	19,000	---	---	
MW-3	2	03/28/02	11.96	---	0.00	26.34	14.38	µg/L	< 0.50	< 0.50	< 0.50	< 1.0	< 5.0	800	640	950	---	---	
MW-3	2	06/06/02	11.91	---	0.00	26.34	14.43	µg/L	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	870	1,026	< 2,000	---	---	
MW-3		12/30/02	13.53	---	sheen	26.17	14.64	µg/L	2	< 0.5	1	< 0.5	---	1,200	---	---	< 1	ND	

Appendix A  
 Historical Groundwater Monitoring Results  
 Former Sears Auto Center No. 1058B  
 2600 Telegraph Avenue  
 Oakland, California  
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Well No.	Notes	Sample Period	GROUNDWATER LEVELS					LABORATORY ANALYTICAL RESULTS												
			Depth to Groundwater (ft bgs)	Depth to Product (ft bgs)	Stand Prod Thickness (ft)	Casing Elevation (ft MSL)	Groundwater Elevation (ft MSL)	Anal. Units	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TPH <sub>p</sub> (µg/L)	TPH <sub>d</sub> (µg/L)	TPH <sub>o</sub> *** (µg/L)	TRPH (µg/L)	Dissolved Metals		
MW-4		03/26/93	11.35	--	0.00	26.17	14.82	µg/L	--	--	--	--	--	--	--	--	--	--	--	
MW-4		03/24/93	11.46	--	0.00	26.17	14.71	µg/L	< 0.3	< 0.3	< 0.3	< 0.5	--	780	--	--	2	*7		
MW-4		04/27/93	11.74	--	0.00	26.17	14.43	µg/L	--	--	--	--	--	--	--	--	--	--		
MW-4		05/28/93	11.77	--	0.00	26.17	14.40	µg/L	--	--	--	--	--	--	--	--	--	--		
MW-4		06/21/93	11.92	--	0.00	26.17	14.25	µg/L	< 0.3	2	< 0.3	0.5	--	640	--	19,000	--	*ND		
MW-4		07/22/93	11.95	--	0.00	26.17	14.22	µg/L	--	--	--	--	--	--	--	--	--	--		
MW-4		08/13/93	12.01	--	0.00	26.17	14.16	µg/L	--	--	--	--	--	--	--	--	--	--		
MW-4		09/16/93	12.08	--	0.00	26.17	14.09	µg/L	0.3	< 0.3	2	3	--	410	--	2,500	--	*ND		
MW-4		10/23/93	12.03	--	0.00	26.17	14.14	µg/L	--	--	--	--	--	--	--	--	--	--		
MW-4		11/03/93	12.10	--	0.00	26.17	14.07	µg/L	--	--	--	--	--	--	--	--	--	--		
MW-4		11/24/93	12.02	--	0.00	26.17	14.15	µg/L	--	--	--	--	--	--	--	--	--	--		
MW-4		12/01/93	11.78	--	0.00	26.17	14.39	µg/L	< 0.3	< 0.3	< 0.3	< 0.5	--	150	--	390	--	*ND		
MW-4		12/27/93	11.80	--	0.00	26.17	14.37	µg/L	--	--	--	--	--	--	--	--	--	--		
MW-4		01/05/94	11.91	--	0.00	26.17	14.26	µg/L	--	--	--	--	--	--	--	--	--	--		
MW-4		02/08/94	11.85	--	0.00	26.17	14.32	µg/L	--	--	--	--	--	--	--	--	--	--		
MW-4		03/09/94	11.61	--	0.00	26.17	14.56	µg/L	0.7	0.5	2	3.6	--	1,500	--	780	--	*ND		
MW-4		04/01/94	11.73	--	0.00	26.17	14.44	µg/L	--	--	--	--	--	--	--	--	--	--		
MW-4		05/10/94	11.49	--	0.00	26.17	14.68	µg/L	--	--	--	--	--	--	--	--	--	--		
MW-4		06/30/94	11.90	--	0.00	26.17	14.27	µg/L	< 0.3	1.7	0.5	1	--	450	--	130	--	ND		
MW-4		07/28/94	11.97	--	0.00	26.17	14.20	µg/L	--	--	--	--	--	--	--	--	--	--		
MW-4		08/31/94	12.06	--	0.00	26.17	14.11	µg/L	--	--	--	--	--	--	--	--	--	--		
MW-4		09/27/94	12.11	--	0.00	26.17	14.06	µg/L	0.5	< 0.3	< 0.3	< 0.5	--	110	--	1,100	--	ND		
MW-4		10/28/94	12.18	--	0.00	26.17	13.99	µg/L	--	--	--	--	--	--	--	--	--	--		
MW-4		11/15/94	10.72	--	0.00	26.17	15.45	µg/L	--	--	--	--	--	--	--	--	--	--		
MW-4		12/01/94	11.37	--	0.00	26.17	14.80	µg/L	0.6	0.5	0.3	0.3	--	290	--	580	--	*5		
MW-4		01/04/95	11.20	--	0.00	26.17	14.97	µg/L	--	--	--	--	--	--	--	--	--	--		
MW-4		02/01/95	11.16	--	0.00	26.17	15.01	µg/L	--	--	--	--	--	--	--	--	--	--		
MW-4		03/08/95	11.49	--	0.00	26.17	14.68	µg/L	< 0.3	< 0.3	< 0.3	< 0.5	--	360	--	1,000	--	*5		
MW-4		04/03/95	11.35	--	0.00	26.17	14.82	µg/L	--	--	--	--	--	--	--	--	--	--		
MW-4		05/08/95	11.56	--	0.00	26.17	14.61	µg/L	--	--	--	--	--	--	--	--	--	--		
MW-4		06/09/95	11.72	--	0.00	26.17	14.45	µg/L	< 0.3	0.4	< 0.3	< 0.5	--	64	--	1,100	--	*5		
MW-4		07/13/95	11.72	--	0.00	26.17	14.45	µg/L	--	--	--	--	--	--	--	--	--	--		
MW-4		08/31/95	11.81	--	0.00	26.17	14.36	µg/L	--	--	--	--	--	--	--	--	--	--		
MW-4		08/29/95	11.88	--	0.00	26.17	14.29	µg/L	< 0.3	< 0.3	< 0.3	< 0.5	--	< 0.5	--	1,200	--	*5		
MW-4		09/15/95	11.99	--	0.00	26.17	14.18	µg/L	--	--	--	--	--	--	--	--	--	--		
MW-4		10/20/95	12.00	--	0.00	26.17	14.17	µg/L	--	--	--	--	--	--	--	--	--	--		
MW-4		11/15/95	11.96	--	0.00	26.17	14.21	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	--	2,100	--	*ND		
MW-4		01/15/96	11.71	--	0.00	26.17	14.46	µg/L	--	--	--	--	--	--	--	--	--	--		
MW-4		03/05/96	11.02	--	0.00	26.17	15.15	µg/L	< 0.5	< 1.0	< 1.0	< 2.0	--	< 100	--	590	--	*ND		
MW-4		04/19/96	11.51	--	0.00	26.17	14.66	µg/L	--	--	--	--	--	--	--	--	--	--		
MW-4		05/10/96	11.74	--	0.00	26.17	14.43	µg/L	--	--	--	--	--	--	--	--	--	--		



Appendix A  
 Historical Groundwater Monitoring Results  
 Former Sears Auto Center No. 1058B  
 2600 Telegraph Avenue  
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Well No.	Notes	Sample Period	GROUNDWATER LEVELS					LABORATORY ANALYTICAL RESULTS											
			Depth to Groundwater (ft bgs)	Depth to Product (ft bgs)	Stand Prod Thickness (ft)	Casing Elevation (ft MSL)	Groundwater Elevation (ft MSL)	Anal. Units	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TPH <sub>g</sub> (µg/L)	TPH <sub>o</sub> (µg/L)	TPH <sub>o+**</sub> (µg/L)	TRPH (mg/L)	Dissolved Metals	
MW-4		06/03/96	11.60	--	0.00	26.17	14.57	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-4		06/04/96	--	--	--	26.17	--	µg/L	< 0.5	< 1.0	< 1.0	< 2.0	--	< 100	--	860	--	ND	
MW-4		09/04/96	11.85	--	0.00	26.17	14.32	µg/L	< 0.5	< 1.0	< 1.0	< 2.0	--	< 100	--	600	--	--	
MW-4		12/02/96	11.45	--	0.00	26.17	14.72	µg/L	< 0.5	< 1.0	< 1.0	< 2.0	--	< 100	--	940	--	--	
MW-4		02/26/97	11.42	--	0.00	26.17	14.75	µg/L	< 0.5	< 1.0	< 1.0	< 2.0	--	< 100	--	790	--	--	
MW-4		06/09/97	11.70	--	0.00	26.17	14.47	µg/L	< 0.5	< 1.0	< 1.0	< 2.0	< 10	< 100	--	630	--	--	
MW-4		09/25/97	11.63	--	0.00	26.17	14.54	µg/L	< 0.5	< 0.5	< 0.5	< 2.0	< 5	< 50	--	< 200	--	--	
MW-4		11/28/97	11.27	--	0.00	26.17	14.90	µg/L	3.6	3.9	3.7	12	< 5	120	--	< 200	--	--	
MW-4		02/12/98	11.00	--	0.00	26.17	15.17	µg/L	< 0.5	< 0.5	< 0.5	< 2.0	< 5	< 50	--	< 200	--	--	
MW-4		05/20/98	11.62	--	0.00	26.17	14.55	µg/L	< 0.5	< 0.5	< 0.5	< 2.0	< 5	< 50	--	300	--	--	
MW-4		08/11/98	11.90	--	0.00	26.17	14.27	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 50	--	< 500	--	--	
MW-4		11/10/98	11.65	--	0.00	26.17	14.52	µg/L	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	62	--	610	--	--	
MW-4		02/11/99	10.87	--	0.00	26.17	15.30	µg/L	< 0.50	2.4	1.3	6.5	8.0	140	--	< 500	--	--	
MW-4		05/11/99	11.64	--	0.00	26.17	14.51	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 2.0	< 50	--	380	--	--	
MW-4		08/10/99	13.95	--	0.00	26.17	14.22	µg/L	< 0.5	< 0.5	< 0.5	2.6	2.5	470	--	< 250	--	--	
MW-4		10/20/99	11.40	--	0.00	26.17	14.77	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	1.5/2.2	< 50	--	1,300	--	--	
MW-4		02/25/00	10.75	--	0.00	26.17	15.42	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	2.4	< 50	--	< 100	--	--	
MW-4		05/03/00	11.55	--	0.00	26.17	14.62	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	2.5	< 50	--	< 100	--	--	
MW-4		08/02/00	11.70	--	0.00	26.17	14.47	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	2.9	< 50	--	< 100	--	--	
MW-4		11/07/00	11.45	--	0.00	26.17	14.72	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	2.9	< 50	--	< 100	--	--	
MW-4		02/15/01	10.96	--	0.00	26.17	15.19	µg/L	< 0.5/0.5	< 0.5/0.5	< 0.5/0.5	< 0.5/0.5	2.4	< 50	--	< 100	--	--	
MW-4		04/26/01	11.45	--	0.00	26.17	14.82	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	2.8	< 50	--	< 100	--	--	
MW-4		07/23/01	11.29	--	0.00	26.17	14.38	µg/L	< 0.5/0.5	< 0.5/0.5	< 0.5/0.5	< 0.5/0.5	2.5	< 50	--	< 100	--	--	
MW-4		11/01/01	11.77	--	0.00	26.17	14.40	µg/L	< 0.5/0.5	< 0.5/0.5	< 0.5/0.5	< 0.5/0.5	3.3	< 50	--	< 100	--	--	
MW-4	2	03/28/02	11.17	--	0.00	26.17	15.09	µg/L	< 0.50	< 0.50	< 0.50	< 1.0	< 5.0	< 50	< 50	< 500	< 500	--	--
MW-4	2	06/06/02	11.29	--	0.00	26.17	14.88	µg/L	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 50	< 500	< 2,000	--	--	
MW-5		12/30/92	10.50	--	0.00	26.98	16.48	µg/L	< 0.3	< 0.3	< 0.3	< 0.5	--	37	--	--	< 1	bc5	
MW-5		02/26/93	10.12	--	0.00	26.98	16.86	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-5		03/24/93	10.31	--	0.00	26.98	16.67	µg/L	< 0.3	< 0.3	< 0.3	0.5	--	19	--	--	2	*341	
MW-5		04/27/93	10.75	--	0.00	26.98	16.23	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-5		05/28/93	10.80	--	0.00	26.98	16.18	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-5		06/21/93	10.94	--	0.00	26.98	16.04	µg/L	< 0.3	< 0.3	< 0.3	< 0.5	--	< 10	--	< 100	--	ND	
MW-5		07/22/93	11.01	--	0.00	26.98	15.97	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-5		08/13/93	11.07	--	0.00	26.98	15.91	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-5		09/16/93	11.18	--	0.00	26.98	15.80	µg/L	0.3	< 0.3	< 0.3	1	--	< 10	--	< 100	--	ND	
MW-5		10/22/93	11.19	--	0.00	26.98	15.79	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-5		11/03/93	11.23	--	0.00	26.98	15.75	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-5		11/24/93	12.00	--	0.00	26.98	14.98	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-5		12/01/93	10.84	--	0.00	26.98	16.14	µg/L	< 0.3	< 0.3	< 0.3	1	--	17	--	--	--	ND	
MW-5		12/27/93	10.81	--	0.00	26.98	16.17	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-5		12/30/93	--	--	--	--	--	µg/L	--	--	--	--	--	--	--	< 100	--	--	

Appendix A  
 Historical Groundwater Monitoring Results  
 Former Sears Auto Center No. 1058B  
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Well No.	Notes	Sample Period	GROUNDWATER LEVELS					LABORATORY ANALYTICAL RESULTS											
			Depth to Groundwater (ft bgs)	Depth to Product (ft bgs)	Stand Prod Thickness (ft)	Casing Elevation (ft MSL)	Groundwater Elevation (ft MSL)	Anal. Units	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TPH <sub>g</sub> (µg/L)	TPH <sub>o</sub> (µg/L)	TPH <sub>o</sub> *** (µg/L)	TRPH (mg/L)	Dissolved Metals	
MW-5		01/05/94	10.96	--	0.00	26.98	16.02	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-5		02/08/94	10.94	---	0.00	26.98	16.04	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-5		03/09/94	10.54	--	0.00	26.98	16.44	µg/L	< 0.3	< 0.3	< 0.3	< 0.5	---	22	---	< 100	---	ND	
MW-5		04/01/94	10.77	---	0.00	26.98	16.21	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-5		05/10/94	10.44	--	0.00	26.98	16.54	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-5		06/30/94	10.88	---	0.00	26.98	16.10	µg/L	< 0.3	< 0.3	< 0.3	< 0.5	---	< 10	---	< 100	---	ND	
MW-5		07/28/94	10.98	--	0.00	26.98	16.00	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-5		08/31/94	11.07	--	0.00	26.98	15.91	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-5		09/27/94	11.12	---	0.00	26.98	15.86	µg/L	0.5	0.1	< 0.3	< 0.5	---	< 10	---	560	---	ND	
MW-5		10/28/94	11.21	---	0.00	26.98	15.77	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-5		11/15/94	10.05	--	0.00	26.98	16.93	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-5		12/01/94	10.39	---	0.00	26.98	16.59	µg/L	< 0.3	< 0.3	< 0.3	< 0.5	---	< 10	---	< 250	---	ND	
MW-5		01/04/95	10.18	--	0.00	26.98	16.80	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-5		02/01/95	9.93	--	0.00	26.98	17.05	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-5		03/08/95	10.35	---	0.00	26.98	16.63	µg/L	< 0.3	< 0.3	< 0.3	< 0.5	---	< 10	---	< 250	---	ND	
MW-5		04/03/95	10.15	---	0.00	26.98	16.83	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-5		05/18/95	10.43	--	0.00	26.98	16.55	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-5		06/09/95	10.62	--	0.00	26.98	16.36	µg/L	< 0.3	< 0.3	< 0.3	< 0.5	---	< 50	---	< 250	---	7	
MW-5		07/13/95	10.76	---	0.00	26.98	16.22	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-5		08/03/95	10.82	--	0.00	26.98	16.16	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-5		08/29/95	10.91	--	0.00	26.98	16.07	µg/L	< 0.3	< 0.3	< 0.3	< 0.5	---	< 50	---	< 250	---	36	
MW-5		09/15/95	11.00	---	0.00	26.98	15.98	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-5		10/20/95	11.02	--	0.00	26.98	15.96	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-5		11/15/95	11.95	---	0.00	26.98	15.03	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	---	< 50	---	< 200	---	ND	
MW-5		01/15/96	10.57	--	0.00	26.98	16.41	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-5		03/05/96	9.81	---	0.00	26.98	17.17	µg/L	< 0.5	< 1.0	< 1.0	< 2.0	---	< 100	---	< 200	---	ND	
MW-5		04/19/96	10.32	--	0.00	26.98	16.66	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-5		05/10/96	10.56	---	0.00	26.98	16.42	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-5		06/03/96	10.46	--	0.00	26.98	16.52	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-5		09/04/96	10.86	---	0.00	26.98	16.12	µg/L	< 0.5	< 1.0	< 1.0	< 2.0	---	< 100	---	310	---	---	
MW-5		12/02/96	10.45	--	0.00	26.98	16.53	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-5		02/26/97	10.38	---	0.00	26.98	16.60	µg/L	< 0.5	< 1.0	< 1.0	< 2.0	---	< 100	---	< 200	---	---	
MW-5		06/09/97	10.78	--	0.00	26.98	16.20	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-5		08/25/97	10.69	---	0.00	26.98	16.29	µg/L	< 0.5	< 0.5	< 0.5	< 2.0	< 5	< 50	---	< 200	---	---	
MW-5		11/28/97	10.15	--	0.00	26.98	16.83	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-5		02/12/98	9.55	--	0.00	26.98	17.43	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 50	---	< 200	---	---	
MW-5		05/20/98	10.29	---	0.00	26.98	16.69	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-5		08/11/98	10.67	--	0.00	26.98	16.31	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 50	---	< 500	---	---	
MW-5		11/10/98	10.59	---	0.00	26.98	16.39	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-5		02/11/99	9.75	--	0.00	26.98	17.23	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	3.2	< 50	---	< 500	---	---	
MW-5		05/11/99	10.38	--	0.00	26.98	16.60	µg/L	---	---	---	---	---	---	---	---	---	---	

Appendix A  
 Historical Groundwater Monitoring Results  
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Well No.	Notes	Sample Period	GROUNDWATER LEVELS					LABORATORY ANALYTICAL RESULTS												
			Depth to Groundwater (ft bgs)	Depth to Product (ft bgs)	Stand Prod Thickness (ft)	Casing Elevation (ft MSL)	Groundwater Elevation (ft MSL)	Anal. Units	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TPH <sub>g</sub> (µg/L)	TPH <sub>h</sub> (µg/L)	TPH <sub>o</sub> (µg/L)	TRPH (mg/L)	Dissolved Metals		
MW-5		08/10/99	10.77	--	0.00	26.98	16.21	µg/L	< 0.5	< 0.5	> 0.5	< 0.5	5.6	< 50	---	< 250	---	---		
MW-5		10/26/99	10.95	--	0.00	26.98	16.03	µg/L	---	---	---	---	---	---	---	---	---	---		
MW-5		02/25/00	9.50	--	0.00	26.98	17.48	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	3.5	< 50	---	< 100	---	---		
MW-5		05/03/00	10.40	--	0.00	26.98	16.58	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	2.9	< 50	---	< 100	---	---		
MW-5		08/02/00	10.70	--	0.00	26.98	16.28	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	5.2	< 50	---	< 100	---	---		
MW-5		11/07/00	10.38	--	0.00	26.98	16.60	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	4.2	< 50	---	< 100	---	---		
MW-5		02/15/01	9.77	--	0.00	26.98	17.21	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	3.1	< 50	---	< 100	---	---		
MW-5		04/26/01	10.17	--	0.00	26.98	16.81	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	2.4	< 50	---	< 100	---	---		
MW-5		07/23/01	10.64	--	0.00	26.98	16.34	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	3.5	< 50	---	< 100	---	---		
MW-5		11/01/01	10.58	--	0.00	26.98	16.40	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	3.8	< 50	---	< 100	---	---		
MW-5	2	03/28/02	10.02	--	0.00	26.98	16.96	µg/L	< 0.50	< 0.50	< 0.50	< 1.0	< 5.0	< 50	< 50	< 500	---	---		
MW-5	2	06/06/02	10.20	--	0.00	26.98	16.78	µg/L	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 50	< 500	< 2000	---	---		
MW-6		12/27/93	11.24	--	0.00	24.32	13.08	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	---	< 10	---	< 100	< 1	*70		
MW-6		01/05/94	11.39	--	0.00	24.32	12.93	µg/L	---	---	---	---	---	---	---	---	---	---		
MW-6		02/06/94	11.13	--	0.00	24.32	13.17	µg/L	---	---	---	---	---	---	---	---	---	---		
MW-6		03/09/94	10.97	--	0.00	24.32	13.35	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	---	15	---	< 100	---	ND		
MW-6		04/01/94	11.25	--	0.00	24.32	13.07	µg/L	---	---	---	---	---	---	---	---	---	---		
MW-6		05/10/94	10.78	--	0.00	24.32	13.54	µg/L	---	---	---	---	---	---	---	---	---	---		
MW-6		06/30/94	11.49	--	0.00	24.32	12.53	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	---	< 10	---	< 100	---	ND		
MW-6		07/28/94	11.59	--	0.00	24.32	12.73	µg/L	---	---	---	---	---	---	---	---	---	---		
MW-6		08/31/94	11.56	--	0.00	24.32	12.76	µg/L	---	---	---	---	---	---	---	---	---	---		
MW-6		09/27/94	11.65	--	0.00	24.32	12.67	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	---	< 10	---	< 250	---	*6		
MW-6		10/28/94	11.89	--	0.00	24.32	12.73	µg/L	---	---	---	---	---	---	---	---	---	---		
MW-6		11/15/94	10.24	--	0.00	24.32	14.08	µg/L	---	---	---	---	---	---	---	---	---	---		
MW-6		12/01/94	10.30	--	0.00	24.32	14.01	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	---	< 10	---	< 250	---	*12		
MW-6		01/04/95	9.81	--	0.00	24.32	14.51	µg/L	---	---	---	---	---	---	---	---	---	---		
MW-6		02/01/95	10.01	--	0.00	24.32	14.31	µg/L	---	---	---	---	---	---	---	---	---	---		
MW-6		03/08/95	10.54	--	0.00	24.32	13.68	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	---	< 10	---	< 250	---	ND		
MW-6		04/13/95	10.16	--	0.00	24.32	14.06	µg/L	---	---	---	---	---	---	---	---	---	---		
MW-6		05/18/95	10.87	--	0.00	24.32	13.51	µg/L	---	---	---	---	---	---	---	---	---	---		
MW-6		06/09/95	11.07	--	0.00	24.32	13.25	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	---	< 10	---	< 250	---	ND		
MW-6		07/13/95	10.91	--	0.00	24.32	13.41	µg/L	---	---	---	---	---	---	---	---	---	---		
MW-6		08/03/95	11.15	--	0.00	24.32	13.17	µg/L	---	---	---	---	---	---	---	---	---	---		
MW-6		08/29/95	11.09	--	0.00	24.32	13.23	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	---	> 50	---	< 250	---	*24		
MW-6		09/15/95	11.35	--	0.00	24.32	12.97	µg/L	---	---	---	---	---	---	---	---	---	---		
MW-6		10/30/95	11.31	--	0.00	24.32	13.00	µg/L	---	---	---	---	---	---	---	---	---	---		
MW-6		11/15/95	11.20	--	0.00	24.32	13.12	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	---	< 50	---	< 200	---	*31		
MW-6		01/15/96	10.83	--	0.00	24.32	13.49	µg/L	---	---	---	---	---	---	---	---	---	---		
MW-6		03/05/96	9.60	--	0.00	24.32	14.72	µg/L	< 0.5	< 1.0	< 1.0	< 2.0	---	< 100	---	< 200	---	ND		
MW-6		04/19/96	10.71	--	0.00	24.32	13.61	µg/L	---	---	---	---	---	---	---	---	---	---		
MW-6		05/10/96	11.05	--	0.00	24.32	13.27	µg/L	---	---	---	---	---	---	---	---	---	---		

Appendix A  
 Historical Groundwater Monitoring Results  
 Former Sears Auto Center No. 1058B  
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Well No.	Notes	Sample Period	GROUNDWATER LEVELS					LABORATORY ANALYTICAL RESULTS											
			Depth to Groundwater (ft bgs)	Depth to Product (ft bgs)	Stand Prod Thickness (ft)	Casing Elevation (ft MSL)	Groundwater Elevation (ft MSL)	Anal. Units	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TPH <sub>g</sub> (µg/L)	TPH <sub>d</sub> (µg/L)	TPH <sub>o</sub> *** (µg/L)	TRPH (µg/L)	Dissolved Metals	
MW-6		06/03/96	10.91	--	0.00	24.32	13.41	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-6		09/04/96	10.84	--	0.00	24.32	13.48	µg/L	< 0.5	< 1.0	< 1.0	< 2.0	--	< 100	--	230	--	--	
MW-6		12/02/96	10.46	--	0.00	24.32	13.86	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-6		02/26/97	10.46	--	0.00	24.32	13.86	µg/L	< 0.5	< 1.0	< 1.0	< 2.0	--	< 100	--	< 200	--	--	
MW-6		06/09/97	10.90	--	0.00	24.32	13.42	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-6		08/25/97	10.84	--	0.00	24.32	13.48	µg/L	< 0.5	1.1	< 0.5	< 2.0	< 5	< 50	--	< 200	--	--	
MW-6		11/28/97	10.07	--	0.00	24.32	14.25	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-6		02/12/98	9.39	--	0.00	24.32	14.93	µg/L	< 0.5	< 0.5	< 0.5	< 2.0	< 5	< 50	--	< 200	--	--	
MW-6		05/20/98	10.85	--	0.00	24.32	13.47	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-6		08/11/98	11.21	--	0.00	24.32	13.11	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 50	--	< 500	--	--	
MW-6		11/10/98	10.82	--	0.00	24.32	13.50	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-6		02/11/99	9.39	--	0.00	24.32	14.93	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	7.1	< 50	--	< 500	--	--	
MW-6		05/11/99	10.84	--	0.00	24.32	13.48	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-6		08/10/99	11.28	--	0.00	24.32	13.04	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 2.0	< 50	--	< 250	--	--	
MW-6		10/26/99	11.43	--	0.00	24.32	12.89	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-6		02/25/00	9.27	--	0.00	24.32	15.06	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	--	< 100	--	--	
MW-6		05/03/00	10.78	--	0.00	24.32	13.54	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	--	< 100	--	--	
MW-6		08/02/00	10.92	--	0.00	24.32	13.40	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	--	< 100	--	--	
MW-6		11/07/00	10.55	--	0.00	24.32	13.77	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	--	< 100	--	--	
MW-6		02/15/01	9.66	--	0.00	24.32	14.66	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	--	< 100	--	--	
MW-6		04/26/01	10.40	--	0.00	24.32	13.92	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	--	< 100	--	--	
MW-6		07/23/01	11.01	--	0.00	24.32	13.32	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	--	< 100	--	--	
MW-6		11/01/01	10.97	--	0.00	24.32	13.35	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	--	< 100	--	--	
MW-6	5	03/28/02	10.13	--	0.00	24.32	14.19	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-6	5	06/06/02	10.35	--	0.00	24.32	13.77	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-7		12/27/93	11.80	--	0.00	24.88	13.08	µg/L	< 0.3	< 0.3	1	2	--	140	--	100	<1	*40	
MW-7		01/05/94	11.53	--	0.00	24.88	13.35	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-7		02/08/94	11.90	--	0.00	24.88	12.98	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-7		03/09/94	11.23	--	0.00	24.88	13.65	µg/L	< 0.3	< 1.0	1.5	4.1	--	620	--	< 100	--	*ND	
MW-7		04/01/94	11.34	--	0.00	24.88	13.54	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-7		05/10/94	11.02	--	0.00	24.88	13.86	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-7		06/30/94	11.49	--	0.00	24.88	13.39	µg/L	< 0.3	< 0.3	< 0.3	< 0.5	--	33	--	< 100	--	ND	
MW-7		07/28/94	11.58	--	0.00	24.88	13.30	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-7		08/31/94	11.69	--	0.00	24.88	13.19	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-7		09/27/94	11.73	--	0.00	24.88	13.15	µg/L	< 0.3	< 0.3	0.4	0.7	--	52	--	< *250	--	ND	
MW-7		10/28/94	11.77	--	0.00	24.88	13.11	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-7		11/15/94	10.29	--	0.00	24.88	14.59	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-7		12/01/94	10.89	--	0.00	24.88	13.99	µg/L	< 0.3	< 0.3	< 0.3	1.1	--	< 10	--	< *250	--	*28	
MW-7		01/04/95	10.77	--	0.00	24.88	14.11	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-7		02/01/95	10.70	--	0.00	24.88	14.18	µg/L	--	--	--	--	--	--	--	--	--	--	
MW-7		03/08/95	11.05	--	0.00	24.88	13.83	µg/L	< 0.3	< 0.3	< 0.3	< 0.5	--	< 10	--	< *250	--	ND	

Appendix A  
 Historical Groundwater Monitoring Results  
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Well No.	Notes	Sample Period	GROUNDWATER LEVELS					LABORATORY ANALYTICAL RESULTS											
			Depth to Groundwater (ft bgs)	Depth to Product (ft bgs)	Stand Prod Thickness (ft)	Casing Elevation (ft MSL)	Groundwater Elevation (ft MSL)	Anal. Units	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TPH <sub>p</sub> (µg/L)	TPH <sub>d</sub> (µg/L)	TPH <sub>o</sub> (µg/L)	TRPH (µg/L)	Dissolved Metals	
MW-7		04/03/95	10.88	--	0.00	24.88	14.00	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-7		05/18/95	11.12	--	0.00	24.88	13.76	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-7		06/09/95	11.25	--	0.00	24.88	13.63	µg/L	< 0.3	< 0.3	< 0.3	< 0.5	---	< 50	---	< 250	---	ND	
MW-7		07/13/95	11.15	--	0.00	24.88	13.73	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-7		08/03/95	11.32	--	0.00	24.88	13.56	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-7		08/29/95	11.53	--	0.00	24.88	13.35	µg/L	< 0.3	< 0.3	< 0.3	< 0.5	---	< 50	---	< 250	---	<sup>b</sup> 13	
MW-7		09/15/95	11.65	--	0.00	24.88	13.23	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-7		10/20/95	11.64	--	0.00	24.88	13.24	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-7		11/15/95	11.60	--	0.00	24.88	13.28	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	---	< 50	---	< 200	---	ND	
MW-7		01/15/96	11.07	--	0.00	24.88	13.81	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-7		03/05/96	10.50	--	0.00	24.88	14.38	µg/L	< 0.5	< 1.0	< 1.0	< 2.0	---	< 100	---	270	---	ND	
MW-7		04/19/96	12.02	--	0.00	24.88	12.86	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-7		05/10/96	11.14	--	0.00	24.88	13.74	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-7		06/03/96	11.10	--	0.00	24.88	13.78	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-7		09/04/96	11.45	--	0.00	24.88	13.43	µg/L	< 0.5	< 1.0	< 1.0	< 2.0	---	< 100	---	< 200	---	---	
MW-7		12/02/96	10.96	--	0.00	24.88	13.92	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-7		02/26/97	11.02	--	0.00	24.88	13.86	µg/L	< 0.5	< 1.0	< 1.0	< 2.0	---	< 100	---	< 200	---	---	
MW-7		06/09/97	11.34	--	0.00	24.88	13.54	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-7		08/25/97	11.25	--	0.00	24.88	13.63	µg/L	< 0.5	< 0.5	< 0.5	< 2.0	< 0.5	< 50	---	< 200	---	---	
MW-7		11/28/97	10.69	--	0.00	24.88	14.19	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-7		02/12/98	10.11	--	0.00	24.88	14.77	µg/L	< 0.5	< 0.5	< 0.5	< 2.0	< 5	< 50	---	< 200	---	---	
MW-7		05/20/98	11.20	--	0.00	24.88	13.68	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-7		08/11/98	11.55	--	0.00	24.88	13.33	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 50	---	< 500	---	---	
MW-7		11/10/98	11.21	--	0.00	24.88	13.67	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-7		02/11/99	10.27	--	0.00	24.88	14.61	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	5.8	130	---	< 500	---	---	
MW-7		05/11/99	11.25	--	0.00	24.88	13.63	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-7		08/10/99	11.65	--	0.00	24.88	13.23	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 2.0	< 50	---	< 250	---	---	
MW-7		10/26/99	11.76	--	0.00	24.88	13.12	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-7		02/25/00	10.40	--	0.00	24.88	14.48	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	---	< 100	---	---	
MW-7		05/03/00	11.16	--	0.00	24.88	13.72	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	---	< 100	---	---	
MW-7		08/02/00	11.25	--	0.00	24.88	13.63	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	---	< 100	---	---	
MW-7		11/07/00	11.03	--	0.00	24.88	13.85	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	---	< 100	---	---	
MW-7		02/15/01	10.56	--	0.00	24.88	14.32	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	---	< 100	---	---	
MW-7		04/26/01	10.95	--	0.00	24.88	13.93	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	---	< 100	---	---	
MW-7		07/23/01	11.50	--	0.00	24.88	13.38	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	---	< 100	---	---	
MW-7		11/01/01	11.55	--	0.00	24.88	13.33	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	---	< 100	---	---	
MW-7	5	03/28/02	10.77	--	0.00	24.88	14.11	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-7	5	06/06/02	10.97	--	0.00	24.88	13.91	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-8		12/27/93	12.45	--	0.00	26.12	13.67	µg/L	0.4	4	0.4	1	---	390	---	< 100	< 1	<sup>b</sup> 18	
MW-8		01/05/94	12.57	--	0.00	26.12	13.55	µg/L	---	---	---	---	---	---	---	---	---	---	
MW-8		02/08/94	12.02	--	0.00	26.12	14.10	µg/L	---	---	---	---	---	---	---	---	---	---	

Appendix A  
 Historical Groundwater Monitoring Results  
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Well No.	Notes	Sample Period	GROUNDWATER LEVELS					LABORATORY ANALYTICAL RESULTS											
			Depth to Groundwater (ft bgs)	Depth to Product (ft bgs)	Stand Prod Thickness (ft)	Casing Elevation (ft MSL)	Groundwater Elevation (ft MSL)	Anal. Units	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TPH <sub>g</sub> (µg/L)	TPH <sub>d</sub> (µg/L)	TPH <sub>o</sub> *** (µg/L)	TRPH (µg/L)	Dissolved Metals	
MW-8		03/09/94	12.22	--	0.00	26.12	13.90	µg/L	0.6	0.8	0.5	1.5	----	420	----	< 100	----	ND	
MW-8		04/01/94	12.33	--	0.00	26.12	13.79	µg/L	----	----	----	----	----	----	----	----	----	----	
MW-8		05/10/94	13.00	--	0.00	26.12	14.12	µg/L	----	----	----	----	----	----	----	----	----	----	
MW-8		06/30/94	12.52	--	0.00	26.12	13.60	µg/L	< 0.5	< 0.5	< 0.5	1.1	----	250	----	< 100	----	ND	
MW-8		07/28/94	12.61	--	0.00	26.12	13.51	µg/L	----	----	----	----	----	----	----	----	----	----	
MW-8		08/31/94	12.72	--	0.00	26.12	13.40	µg/L	----	----	----	----	----	----	----	----	----	----	
MW-8		09/27/94	12.80	--	0.00	26.12	13.32	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	----	210	----	< *250	----	6g	
MW-8		10/28/94	12.84	--	0.00	26.12	13.28	µg/L	----	----	----	----	----	----	----	----	----	----	
MW-8		11/15/94	11.72	--	0.00	26.12	14.40	µg/L	----	----	----	----	----	----	----	----	----	----	
MW-8		12/01/94	11.87	--	0.00	26.12	14.25	µg/L	5.4	< 0.5	0.7	1.3	----	230	----	< *250	----	ND	
MW-8		01/04/95	11.75	--	0.00	26.12	14.37	µg/L	----	----	----	----	----	----	----	----	----	----	
MW-8		02/01/95	11.64	--	0.00	26.12	14.48	µg/L	----	----	----	----	----	----	----	----	----	----	
MW-8		03/08/95	12.04	--	0.00	26.12	14.08	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	----	250	----	< *250	----	ND	
MW-8		04/03/95	11.86	--	0.00	26.12	14.26	µg/L	----	----	----	----	----	----	----	----	----	----	
MW-8		05/18/95	12.11	--	0.00	26.12	14.01	µg/L	----	----	----	----	----	----	----	----	----	----	
MW-8		06/09/95	12.34	--	0.00	26.12	13.78	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	----	< 50	----	< *250	----	ND	
MW-8		07/13/95	12.37	--	0.00	26.12	13.75	µg/L	----	----	----	----	----	----	----	----	----	----	
MW-8		08/03/95	12.50	--	0.00	26.12	13.62	µg/L	----	----	----	----	----	----	----	----	----	----	
MW-8		08/29/95	12.55	--	0.00	26.12	13.57	µg/L	0.9	0.4	< 0.5	0.8	----	200	----	< *250	----	*15	
MW-8		09/15/95	12.70	--	0.00	26.12	13.42	µg/L	----	----	----	----	----	----	----	----	----	----	
MW-8		10/20/95	12.69	--	0.00	26.12	13.43	µg/L	----	----	----	----	----	----	----	----	----	----	
MW-8		11/15/95	12.67	--	0.00	26.12	13.45	µg/L	0.58	< 0.5	< 0.5	0.54	----	120	----	----	----	*21	
MW-8		12/11/95	11.80	--	0.00	26.12	14.32	µg/L	----	----	----	----	----	----	----	< *200	----	----	
MW-8		01/15/96	12.38	--	0.00	26.12	13.74	µg/L	----	----	----	----	----	----	----	----	----	----	
MW-8		03/05/96	11.44	--	0.00	26.12	14.68	µg/L	0.6	< 1.0	< 1.0	< 2.0	----	< 100	----	< *200	----	ND	
MW-8		04/19/96	10.80	--	0.00	26.12	15.32	µg/L	----	----	----	----	----	----	----	----	----	----	
MW-8		05/10/96	12.40	--	0.00	26.12	13.72	µg/L	----	----	----	----	----	----	----	----	----	----	
MW-8		06/03/96	12.26	--	0.00	26.12	13.86	µg/L	< 0.5	< 1.0	< 1.0	< 2.0	----	100	----	----	----	----	
MW-8		09/04/96	12.51	--	0.00	26.12	13.61	µg/L	< 0.5	< 1.0	< 1.0	< 2.0	----	110	----	< 200	----	----	
MW-8		12/02/96	11.99	--	0.00	26.12	14.13	µg/L	< 0.5	< 1.0	< 1.0	< 2.0	----	110	----	< 200	----	----	
MW-8		02/26/97	11.93	--	0.00	26.12	14.14	µg/L	< 0.5	< 1.0	< 1.0	< 2.0	----	< 100	----	< 200	----	----	
MW-8		06/09/97	12.36	--	0.00	26.12	13.76	µg/L	< 0.5	< 1.0	< 1.0	< 2.0	< 10	110	----	< 200	----	----	
MW-8		08/25/97	12.25	--	0.00	26.12	13.87	µg/L	< 0.5	< 0.5	< 0.5	< 2.0	< 5	70	----	< 200	----	----	
MW-8		11/28/97	11.70	--	0.00	26.12	14.42	µg/L	< 0.5	< 0.5	< 0.5	< 2.0	< 5	110	----	< 200	----	----	
MW-8		02/12/98	11.34	--	0.00	26.12	14.78	µg/L	< 0.5	< 0.5	0.6	< 2.0	< 5	70	----	< 200	----	----	
MW-8		05/20/98	13.21	--	0.00	26.12	13.91	µg/L	< 0.5	< 0.5	< 0.5	< 2.0	< 5	< 50	----	< 200	----	----	
MW-8		08/11/98	12.60	--	0.00	26.12	13.52	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	64	----	< 500	----	----	
MW-8		11/10/98	12.26	--	0.00	26.12	13.86	µg/L	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	52	----	< 250	----	----	
MW-8		02/11/99	11.00	--	0.00	26.12	15.12	µg/L	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	59	----	< 500	----	----	
MW-8		05/11/99	12.20	--	0.00	26.12	13.83	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 50	----	< 250	----	----	
MW-8		08/10/99	12.72	--	0.00	26.12	13.40	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 2.0	72	----	< 250	----	----	

Appendix A  
 Historical Groundwater Monitoring Results  
 Former Sears Auto Center No. 1058B  
 2600 Telegraph Avenue  
 Oakland, California  
 (Page 13 of 14)

Well No.	Notes	Sample Period	GROUNDWATER LEVELS					LABORATORY ANALYTICAL RESULTS										
			Depth to Groundwater (ft bgs)	Depth to Product (ft bgs)	Stand Prod Thickness (ft)	Casing Elevation (ft MSL)	Groundwater Elevation (ft MSL)	Anal. Units	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TPH <sub>6</sub> (µg/L)	TPH <sub>6</sub> (µg/L)	TPH <sub>6***</sub> (µg/L)	TRPH (µg/L)	Dissolved Metals
MW-8		10/26/99	12.85	--	0.00	26.12	13.27	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	83	----	< 250	----	----
MW-8		02/25/00	11.20	--	0.00	26.12	14.92	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	----	< 100	----	----
MW-8		05/03/00	12.15	--	0.00	26.12	13.97	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	----	< 100	----	----
MW-8		08/02/00	12.30	--	0.00	26.12	13.82	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	----	< 100	----	----
MW-8		11/07/00	12.00	--	0.00	26.12	14.12	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	----	< 100	----	----
MW-8		02/13/01	11.40	--	0.00	26.12	14.72	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	----	< 100	----	----
MW-8		04/26/01	11.91	--	0.00	26.12	14.19	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	----	< 100	----	----
MW-8		07/23/01	12.55	--	0.00	26.12	13.57	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	----	< 100	----	----
MW-8		11/01/01	12.60	--	0.00	26.12	13.52	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	----	< 100	----	----
MW-8	5	03/28/02	11.69	--	0.00	26.12	14.43	µg/L	----	----	----	----	----	----	----	----	----	----
MW-8	5	06/06/02	11.86	--	0.00	26.12	14.26	µg/L	----	----	----	----	----	----	----	----	----	----
MW-9		12/02/96	11.52	--	--	--	--	µg/L	< 0.5	< 1.0	< 1.0	< 2.0	----	210	----	250	----	----
MW-9		02/26/97	11.55	--	--	--	--	µg/L	< 0.5	< 1.0	< 1.0	< 2.0	----	170	----	340	----	----
MW-9		06/09/97	11.91	--	--	--	--	µg/L	0.8	< 1.0	< 1.0	< 2.0	< 10	130	----	350	----	----
MW-9		08/25/97	11.80	--	--	--	--	µg/L	< 0.5	0.8	< 0.5	< 2.0	< 5	110	----	< 200	----	----
MW-9		11/28/97	11.15	--	--	--	--	µg/L	< 0.5	0.5	0.9	< 2.0	< 5	150	----	< 200	----	----
MW-9		02/12/98	10.63	--	--	--	--	µg/L	< 0.5	< 0.5	< 0.5	< 2.0	< 5	60	----	< 200	----	----
MW-9		05/20/98	11.73	--	--	--	--	µg/L	< 0.5	< 0.5	0.9	< 2.0	< 5	130	----	< 200	----	----
MW-9		08/11/98	12.15	--	--	--	--	µg/L	< 0.5	< 0.5	< 0.5	0.76	< 2.5	240	----	< 500	----	----
MW-9		11/10/98	11.81	--	--	--	--	µg/L	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	220	----	< 250	----	----
MW-9		02/11/99	10.66	--	--	--	--	µg/L	< 0.50	< 0.50	< 0.50	< 0.50	3.5	52	----	< 500	----	----
MW-9		05/11/99	11.69	--	--	--	--	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	96	----	< 250	----	----
MW-9		08/10/99	12.67	--	0.00	25.03	12.36	µg/L	< 0.5	< 0.5	< 0.5	0.96	< 2.0	130	----	< 250	----	----
MW-9		10/26/99	12.28	--	0.00	25.03	12.75	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	3.3/2.1	130	----	< 250	----	----
MW-9		02/25/00	10.60	--	0.00	25.03	14.43	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	0.8	< 50	----	< 100	----	----
MW-9		05/03/00	11.70	--	0.00	25.03	13.33	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	1.5	150	----	< 100	----	----
MW-9		08/02/00	11.88	--	0.00	25.03	13.15	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	2.2	210	----	< 100	----	----
MW-9		11/07/00	11.56	--	0.00	25.03	13.47	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	1.4	190	----	< 100	----	----
MW-9		02/15/01	10.95	--	0.00	25.03	14.08	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	1.4	110	----	< 100	----	----
MW-9		04/26/01	11.52	--	0.00	25.03	13.51	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	1.6	150	----	< 100	----	----
MW-9		07/23/01	12.09	--	0.00	25.03	12.94	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	1.6	140	----	< 100	----	----
MW-9		11/01/01	12.17	--	0.00	25.03	12.86	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	1.5	310	----	< 100	----	----
MW-9	2	03/28/02	11.34	--	0.00	25.03	13.69	µg/L	< 0.50	< 0.50	< 0.50	< 1.0	< 5.0	55	60	< 500	----	----
MW-9	2	06/06/02	11.68	--	0.00	25.03	13.35	µg/L	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	102	< 500	< 2000	----	----
EW-1		09/04/96	--	--	--	--	--	µg/L	< 0.5	< 1.0	< 1.0	< 2.0	----	1,100	----	1,700	----	----
EW-1		12/02/96	12.17	--	--	--	--	µg/L	6.2	< 1.0	< 1.0	< 2.0	----	1,000	----	1,400	----	----
EW-1		02/16/97	12.13	--	--	--	--	µg/L	12	< 1.0	< 1.0	< 2.1	----	1,200	----	1,800	----	----
EW-1		06/09/97	12.46	--	--	--	--	µg/L	83	< 1.0	< 1.0	< 2.0	13	1,400	----	12,000	----	----
EW-1		08/25/97	12.35	--	--	--	--	µg/L	7.5	0.9	0.9	2	12	1,400	----	15,000	----	----
EW-1		11/28/97	12.12	--	--	--	--	µg/L	4.5	1.1	1.1	4	5.0	560	----	5,700	----	----
EW-1		03/12/98	11.33	--	--	--	--	µg/L	9.8	0.6	1.2	2	30	1,000	----	6,300	----	----

Appendix A  
 Historical Groundwater Monitoring Results  
 Former Sears Auto Center No. 1058B  
 2600 Telegraph Avenue  
 Oakland, California  
 (Page 14 of 14)

Well No.	Notes	Sample Period	GROUNDWATER LEVELS					LABORATORY ANALYTICAL RESULTS											
			Depth to Groundwater (ft bgs)	Depth to Product (ft bgs)	Stand Prod Thickness (ft)	Casing Elevation (ft MSL)	Groundwater Elevation (ft MSL)	Anal Units	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TPH <sub>a</sub> (µg/L)	TPH <sub>d</sub> (µg/L)	TPH <sub>o</sub> ** (µg/L)	TRPH (mg/L)	Dissolved Metals	
EW-1		05/20/98	12.51	--	--	--	--	µg/L	7.2	< 0.5	< 0.5	< 2.0	26	320	--	6,200	--	--	
EW-1		08/11/98	12.85	--	--	--	--	µg/L	2.6	< 0.5	< 0.5	0.96	8.7	320	--	5,400	--	--	
EW-1		11/10/98	12.55	--	--	--	--	µg/L	< 0.50	< 0.50	< 0.50	0.75	13	320	--	2,900	--	--	
EW-1		02/11/99	11.66	--	--	--	--	µg/L	4.0	< 0.50	0.51	0.94	14	720	--	1,300	--	--	
EW-1		05/11/99	12.56	--	--	--	--	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	680	--	4,800	--	--	
EW-1		08/10/99	12.91	--	0.00	26.80	13.89	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	3.6	730	--	1,100	--	--	
EW-1		10/26/99	13.00	--	0.00	26.80	13.80	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 50	1,500	--	13,000	--	--	
EW-1		02/25/00	11.41	--	0.00	26.80	15.39	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	2.2	1,100	--	6,300	--	--	
EW-1		05/03/00	12.36	--	0.00	26.80	14.44	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	110	--	3,100	--	--	
EW-1		08/02/00	12.51	--	0.00	26.80	14.29	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	2.6	1,100	--	4,500	--	--	
EW-1		11/07/00	12.27	--	0.00	26.80	14.53	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	2.1	1,200	--	5,100	--	--	
EW-1		02/15/01	11.66	--	0.00	26.80	15.14	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	2.0	1,100	--	11,000	--	--	
EW-1		04/26/01	12.12	--	0.00	26.80	14.68	µg/L	< 0.5/0.5 <sup>f</sup>	< 0.5/0.5 <sup>f</sup>	< 0.5/0.5 <sup>f</sup>	< 0.5/0.5 <sup>f</sup>	2.3	1,600	--	6,600	--	--	
EW-1		07/23/01	12.59	--	0.00	26.80	14.21	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	1.8	930	--	18,000	--	--	
EW-1		11/01/01	12.74	--	0.00	26.80	14.06	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	1.7	1200	--	6,000	--	--	
EW-1	2	03/29/02	11.85	--	0.00	26.80	14.95	µg/L	< 0.50	< 0.50	< 0.50	< 1.0	< 5.0	930	710	< 500	--	--	
EW-1	2,3	03/28/02	11.85	--	0.00	26.80	14.95	µg/L	< 0.50	< 0.50	< 0.50	< 1.0	< 5.0	800	310	< 500	--	--	
EW-1	2	06/06/02	12.09	--	0.00	26.80	14.71	µg/L	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	1040	< 500	< 2,000	--	--	

Notes:

1. "Pre-purge" sample (well not purged prior to sampling).
  2. "Post-purge" sample
  3. Duplicate sample analysis.
  4. Well inaccessible during sampling event and not sampled.
  5. Groundwater well not sampled
- = Either not present or not measured.  
 SH = Product sheen observed in field.  
 SPH = Separate phase hydrocarbons  
 ND = Non-detectable (Detection limits for each metal are listed in laboratory reports.)  
 mg/l = Milligrams per liter  
 \* = Water samples were not filtered; analytical results represent total metals present, not dissolved concentration--  
 \*\* = Uncategorized hydrocarbon compound not included in this hydrocarbon concentration.  
 \*\*\* = The carbon ranges reported under the TPH oil range analyses may have varied over the monitoring period  
 a = Dissolved lead  
 b = Dissolved lead only analyte detected  
 c = Dissolved lead, cadmium, total chromium, nickel, and zinc  
 d = Cadmium only analyte detected  
 e = Hydrocarbon pattern not characteristic of motor oil  
 f = Uncategorized compounds included in concentration  
 z = Zinc only analyte detected  
 h = Chromium only analyte detected  
 i = Duplicate sample result from EPA Method 8260A

BTEX = Volatile aromatic constituents Benzene, Toluene, Ethylbenzene, and Xylenes by EPA Method 8020/8021B or 8260B

TPH<sub>a</sub> = Total Petroleum Hydrocarbons as gasoline range hydrocarbons by EPA Method 8015 (modified)

TPH<sub>d</sub> = Total Petroleum Hydrocarbons as diesel range hydrocarbons by EPA Method 8015 (modified).

TPH<sub>o</sub> = Total Petroleum Hydrocarbons as oil range by EPA Method 8015 (modified)

TRPH = Total Recoverable Petroleum Hydrocarbons by EPA Method 418.1

MTBE = Methyl Tertiary Butyl Ether by CA LUFT/EPA Method 8021B/8260B

< = Analytical result less than the detection limit indicated.

-- = Either not sampled and/or not tested for given parameter

J = Analyte detection is less than the Reporting Limit and greater than or equal to the Method Detection Limit

mg/l = Milligrams per liter

µg/l = Micrograms per liter



**APPENDIX B**

**LABORATORY REPORTS AND CHAIN OF CUSTODY DOCUMENTATION**



Southland Technical Services, Inc.  
Environmental Laboratories

7801 Telegraph Road, Suite L  
Montebello, CA 90640

Phone (323) 888-0728  
Fax (323) 888-1509

06-19-2002

Mr. Scott Rowlands  
URS Corporation  
2020 E. First Street, Suit 400  
Santa Ana, CA 92705

Project: 22-00000303.02  
Project Site: Sears Oakland 1058B  
Sample Date: 06-06-2002  
Lab Job No.: UR206042

Dear Mr. Rowlands:

Enclosed please find the analytical report for the sample(s) received by STS Environmental Laboratories on 06-07-2002 and analyzed by the following EPA methods:

EPA 8015M (Gasoline)  
EPA 8015M (Diesel & Oil)  
EPA 8260B (VOCs by GC/MS)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled at 4°C, intact) and with a chain of custody record attached.

STS Environmental Laboratory is certified by CA DHS (Certificate Number 1986). Thank you for giving us the opportunity to serve you. Please feel free to call me at (323) 888-0728 if our laboratory can be of further service to you.

Sincerely,

A handwritten signature in black ink, appearing to read "Roger Wang", is written over the typed name.

Roger Wang, Ph. D.  
Laboratory Director

Enclosures

This cover letter is an integral part of this analytical report.



**Southland Technical Services, Inc.**  
Environmental Laboratories

7801 Telegraph Road, Suite L  
Montebello, CA 90640

Phone (323) 888-0728  
Fax (323) 888-1509

06-19-2002

Client: URS Corporation  
Project: 22-00000303.02  
Project Site: Sears Oakland 1058B  
Matrix: Water  
Batch No.: AF10-GW1/for Gasoline  
Batch No.: EF07-DW1/for Diesel & Oil

Lab Job No.: UR206042  
Date Sampled: 06-06-2002  
Date Received: 06-07-2002  
Date Analyzed: 06-10-2002  
Date Analyzed: 06-07-2002

**EPA 8015M (Gasoline, Diesel & Oil)**  
Reporting Unit:  $\mu\text{g/L}$  (ppb)

Date of Analysis for TPH (Gasoline)	06-10-02	06-10-02	06-10-02	06-10-02	06-10-02	06-10-02
Preparation Method for TPH (Gasoline)	5030	5030	5030	5030	5030	5030
Date of Analysis for TPH (D & O)	06-07-02	06-07-02	06-07-02	06-07-02	06-07-02	06-07-02
Date of Extraction for TPH (D & O)	06-07-02	06-07-02	06-07-02	06-07-02	06-07-02	06-07-02
Preparation Method for TPH (D & O)	3510C	3510C	3510C	3510C	3510C	3510C
LAB SAMPLE I.D.		UR206042-1	UR206042-2	UR206042-3	UR206042-4	
CLIENT SAMPLE I.D.		MW-1	MW-3	MW-4	MW-5	
Analyte	MDL	MB				
TPH-Gasoline (C4 - C12)	50	ND	147	870	ND	ND
TPH-Diesel (C13 - C23)	500	ND	ND	1,026	ND	ND
TPH-Oil (C24 - C40)	2000	ND	ND	ND	ND	ND
Surrogate	Spk Conc.	ACP%	MB %RC	%RC	%RC	%RC
BFB (for TPH-Gasoline)	20 ppb	70-130	98	104	109	112
Diocthyl Phthalate (for TPH-D & O)	5 ppm	70-130	100	93	138 *	97

SPK Conc.=Spiking Concentration; ACP%=Acceptable Range of Percent; %RC=% Recovery  
MDL=Method Detection Limit; MB=Method Blank; ND=Not Detected(Below MDL); NA=Not Analyzed

\* The surrogate recovery is out of QC range.

Checked & approved by:

Roger Wang, Ph.D.  
Laboratory Director.



**Southland Technical Services, Inc.**  
Environmental Laboratories

7801 Telegraph Road, Suite L  
Montebello, CA 90640

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06-19-2002

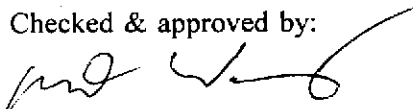
Client:	URS Corporation	Lab Job No.:	UR206042
Project:	22-00000303.02	Date Sampled	06-06-2002
Project Site:	Sears Oakland 1058B	Date Received:	06-07-2002
Matrix:	Water	Date Analyzed:	06-10-2002
Batch No.:	AF10-GW1/for Gasoline	Date Analyzed:	06-07-2002
Batch No.:	EF07-DW1/for Diesel & Oil		

**EPA 8015M (Gasoline, Diesel & Oil)**  
Reporting Unit:  $\mu\text{g/L}$  (ppb)

Date of Analysis for TPH (Gasoline)		06-10-02	06-10-02	06-10-02	06-10-02	06-10-02
Preparation Method for TPH (Gasoline)		5030	5030	5030	5030	5030
Date of Analysis for TPH (D & O)		06-07-02	06-07-02	06-07-02	06-07-02	06-07-02
Date of Extraction for TPH (D & O)		06-07-02	06-07-02	06-07-02	06-07-02	06-07-02
Preparation Method for TPH (D & O)		3510C	3510C	3510C	3510C	3510C
LAB SAMPLE I.D.		UR206042-5	UR206042-6	UR206042-7	UR206042-8	UR206042-9
CLIENT SAMPLE I.D.		MW-9	DUP-1	TB	EW-1	EB-1
Analyte	MDL					
TPH-Gasoline (C4 - C12)	50	102	107	ND	1,040	ND
TPH-Diesel (C13 - C23)	500	ND	ND	NA	ND	NA
TPH-Oil (C24 - C40)	2000	ND	ND	NA	ND	NA
Surrogate	Spk Conc.	ACP%	%RC	%RC	%RC	%RC
BFB (for TPH-Gasoline)	20 ppb	70-130	110	114	113	120
Diethyl Phthalate (for TPH-D & O)	5 ppm	70-130	100	90	NA	97

SPK Conc.=Spiking Concentration; ACP%=Acceptable Range of Percent; %RC=% Recovery  
MDL=Method Detection Limit; MB=Method Blank; ND=Not Detected(Below MDL); NA=Not Analyzed.

Checked & approved by:

  
Roger Wang, Ph.D.  
Laboratory Director.



# Southland Technical Services, Inc.

Environmental Laboratories

7801 Telegraph Road, Suite L  
Montebello, CA 90640

Phone (323) 888-0728  
Fax (323) 888-1509

Client: URS Corporation

Lab Job No.: UR206042

Date Reported: 06-19-2002

Project: 22-00000303.02/Sears Oakland 1058B Matrix: Water

Date Sampled: 06-06-2002

EPA 8260B (VOCs by GC/MS, Page 1 of 2) Reporting Unit: µg/L(ppb)

Date ANALYZED		06-11-02	06-11-02	06-11-02	06-11-02	06-11-02	06-11-02
PREPARATION METHOD		5030	5030	5030	5030	5030	5030
DILUTION FACTOR		1	1	1	1	1	1
LAB SAMPLE I.D.			UR206042-1	UR206042-2	UR206042-3	UR206042-4	UR206042-5
CLIENT SAMPLE I.D.			MW-1	MW-3	MW-4	MW-5	MW-9
COMPOUND	MDL	MB					
Dichlorodifluoromethane	5	ND	ND	ND	ND	ND	ND
Chloromethane	5	ND	ND	ND	ND	ND	ND
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND
Iodomethane	5	ND	ND	ND	ND	ND	ND
Methylene Chloride	5	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	5	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND
Bromochloromethane	5	ND	ND	ND	ND	ND	ND
Chloroform	5	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	5	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	5	ND	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND
Trichloroethene	2.5	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	5	ND	ND	ND	ND	ND	ND
Bromodichloromethane	5	ND	ND	ND	ND	ND	ND
Dibromomethane	5	ND	ND	ND	ND	ND	ND
Trans-1,3-Dichloropropene	5	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	5	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	5	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	5	ND	ND	ND	ND	ND	ND
Dibromochloromethane	5	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	5	ND	ND	ND	ND	ND	ND
Bromoform	5	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5	ND	ND	ND	ND	ND	ND
Bromobenzene	5	ND	ND	ND	ND	ND	ND
Toluene	1	ND	ND	ND	ND	ND	ND
Tetrachloroethene	2.5	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane(EDB)	5	ND	ND	ND	ND	ND	ND



**Southland Technical Services, Inc.**  
Environmental Laboratories

7801 Telegraph Road, Suite L  
Montebello, CA 90640

Phone (323) 888-0728  
Fax (323) 888-1509

Client: URS Corporation

Lab Job No.: UR206042

Date Reported: 06-19-2002

Project: 22-00000303.02/Sears Oakland 1058B Matrix: Water

Date Sampled: 06-06-2002

**EPA 8260B (VOCs by GC/MS, Page 2 of 2) Reporting Unit: ppb**

COMPOUND	MDL	MB	MW-1	MW-3	MW-4	MW-5	MW-9	
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	
1,1,1,2-Tetrachloroethan	5	ND	ND	ND	ND	ND	ND	
Ethylbenzene	1	ND	ND	ND	ND	ND	ND	
Total Xylenes	2	ND	ND	ND	ND	ND	ND	
Styrene	5	ND	ND	ND	ND	ND	ND	
1,1,2,2-Tetrachloroethan	5	ND	ND	ND	ND	ND	ND	
1,2,3-Trichloropropane	5	ND	ND	ND	ND	ND	ND	
n-Propylbenzene	5	ND	ND	ND	ND	ND	ND	
2-Chlorotoluene	5	ND	ND	ND	ND	ND	ND	
4-Chlorotoluene	5	ND	ND	ND	ND	ND	ND	
1,3,5-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	
tert-Butylbenzene	5	ND	ND	ND	ND	ND	ND	
1,2,4-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	
Sec-Butylbenzene	5	ND	ND	ND	ND	ND	ND	
1,3-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND	
p-Isopropyltoluene	5	ND	ND	ND	ND	ND	ND	
1,4-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND	
1,2-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND	
n-Butylbenzene	5	ND	ND	ND	ND	ND	ND	
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	
1,2-Dibromo-3-Chloropropane	5	ND	ND	ND	ND	ND	ND	
Hexachlorobutadiene	5	ND	ND	ND	ND	ND	ND	
Naphthalene	5	ND	ND	ND	ND	ND	ND	
1,2,3-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	
Acetone	25	ND	ND	ND	ND	ND	ND	
2-Butanone (MEK)	25	ND	ND	ND	ND	ND	ND	
Carbon disulfide	25	ND	ND	ND	ND	ND	ND	
4-Methyl-2-pentanone	25	ND	ND	ND	ND	ND	ND	
2-Hexanone	25	ND	ND	ND	ND	ND	ND	
Vinyl Acetate	25	ND	ND	ND	ND	ND	ND	
MTBE	2	ND	ND	ND	ND	ND	ND	
ETBE	2	ND	ND	ND	ND	ND	ND	
DIPE	2	ND	ND	ND	ND	ND	ND	
TAME	2	ND	ND	ND	ND	ND	ND	
t-Butyl Alcohol	10	ND	ND	ND	ND	ND	ND	
SURROGATE	SPK Conc.	%RC	%RC	%RC	%RC	%RC	%RC	Accept Limit%
Dibromofluoro-methane	25	99	102	100	95	94	95	79-126
Toluene-d8	25	94	99	102	98	98	97	79-121
Bromofluoro-benzene	25	102	103	101	101	94	101	71-131

MB=Method Blank; MDL=Method Detection Limit; ND=Not Detected (below DF x MDL). \* Result from a higher dilution analysis.



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Client: URS Corporation

Lab Job No.: UR206042

Date Reported: 06-19-2002

Project: 22-00000303.02/Sears Oakland 1058B Matrix: Water

Date Sampled: 06-06-2002

**EPA 8260B (VOCs by GC/MS, Page 1 of 2) Reporting Unit: µg/L(ppb)**

Date ANALYZED		06-11-02	06-11-02	06-11-02	06-11-02	06-11-02		
PREPARATION METHOD		5030	5030	5030	5030	5030		
DILUTION FACTOR		1	1	1	1	1		
LAB SAMPLE I.D.			UR206042-6	UR206042-7	UR206042-8	UR206042-9		
CLIENT SAMPLE I.D.			DUP-1	TB	EW-1	EB-1		
COMPOUND	MDL	MB						
Dichlorodifluoromethane	5	ND	ND	ND	ND	ND		
Chloromethane	5	ND	ND	ND	ND	ND		
Vinyl Chloride	2	ND	ND	ND	ND	ND		
Bromomethane	5	ND	ND	ND	ND	ND		
Chloroethane	5	ND	ND	ND	ND	ND		
Trichlorofluoromethane	5	ND	ND	ND	ND	ND		
1,1-Dichloroethene	5	ND	ND	ND	ND	ND		
Iodomethane	5	ND	ND	ND	ND	ND		
Methylene Chloride	5	ND	ND	ND	ND	ND		
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND		
1,1-Dichloroethane	5	ND	ND	ND	ND	ND		
2,2-Dichloropropane	5	ND	ND	ND	ND	ND		
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND		
Bromochloromethane	5	ND	ND	ND	ND	ND		
Chloroform	5	ND	ND	ND	ND	ND		
1,2-Dichloroethane	5	ND	ND	ND	ND	ND		
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND		
Carbon tetrachloride	5	ND	ND	ND	ND	ND		
1,1-Dichloropropene	5	ND	ND	ND	ND	ND		
Benzene	1	ND	ND	ND	ND	ND		
Trichloroethene	2.5	ND	ND	ND	ND	ND		
1,2-Dichloropropane	5	ND	ND	ND	ND	ND		
Bromodichloromethane	5	ND	ND	ND	ND	ND		
Dibromomethane	5	ND	ND	ND	ND	ND		
Trans-1,3-Dichloropropene	5	ND	ND	ND	ND	ND		
cis-1,3-Dichloropropene	5	ND	ND	ND	ND	ND		
1,1,2-Trichloroethane	5	ND	ND	ND	ND	ND		
1,3-Dichloropropane	5	ND	ND	ND	ND	ND		
Dibromochloromethane	5	ND	ND	ND	ND	ND		
2-Chloroethylvinyl ether	5	ND	ND	ND	ND	ND		
Bromoform	5	ND	ND	ND	ND	ND		
Isopropylbenzene	5	ND	ND	ND	ND	ND		
Bromobenzene	5	ND	ND	ND	ND	ND		
Toluene	1	ND	ND	ND	ND	ND		
Tetrachloroethene	2.5	ND	ND	ND	ND	ND		
1,2-Dibromoethane(EDB)	5	ND	ND	ND	ND	ND		



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Client: URS Corporation

Lab Job No.: UR206042

Date Reported: 06-19-2002

Project: 22-00000303.02/Sears Oakland 1058B Matrix: Water

Date Sampled: 06-06-2002

**EPA 8260B (VOCs by GC/MS, Page 2 of 2) Reporting Unit: ppb**

COMPOUND	MDL	MB	DUP-1	TB	EW-1	EB-1		
Chlorobenzene	5	ND	ND	ND	ND	ND		
1,1,1,2-Tetrachloroethan	5	ND	ND	ND	ND	ND		
Ethylbenzene	1	ND	ND	ND	ND	ND		
Total Xylenes	2	ND	ND	ND	ND	ND		
Styrene	5	ND	ND	ND	ND	ND		
1,1,2,2-Tetrachloroethan	5	ND	ND	ND	ND	ND		
1,2,3-Trichloropropane	5	ND	ND	ND	ND	ND		
n-Propylbenzene	5	ND	ND	ND	ND	ND		
2-Chlorotoluene	5	ND	ND	ND	ND	ND		
4-Chlorotoluene	5	ND	ND	ND	ND	ND		
1,3,5-Trimethylbenzene	5	ND	ND	ND	ND	ND		
tert-Butylbenzene	5	ND	ND	ND	ND	ND		
1,2,4-Trimethylbenzene	5	ND	ND	ND	ND	ND		
Sec-Butylbenzene	5	ND	ND	ND	ND	ND		
1,3-Dichlorobenzene	5	ND	ND	ND	ND	ND		
p-Isopropyltoluene	5	ND	ND	ND	ND	ND		
1,4-Dichlorobenzene	5	ND	ND	ND	ND	ND		
1,2-Dichlorobenzene	5	ND	ND	ND	ND	ND		
n-Butylbenzene	5	ND	ND	ND	ND	ND		
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND		
1,2-Dibromo-3-Chloropropane	5	ND	ND	ND	ND	ND		
Hexachlorobutadiene	5	ND	ND	ND	ND	ND		
Naphthalene	5	ND	ND	ND	ND	ND		
1,2,3-Trichlorobenzene	5	ND	ND	ND	ND	ND		
Acetone	25	ND	ND	ND	ND	ND		
2-Butanone (MEK)	25	ND	ND	ND	ND	ND		
Carbon disulfide	25	ND	ND	ND	ND	ND		
4-Methyl-2-pentanone	25	ND	ND	ND	ND	ND		
2-Hexanone	25	ND	ND	ND	ND	ND		
Vinyl Acetate	25	ND	ND	ND	ND	ND		
MTBE	2	ND	ND	ND	ND	ND		
ETBE	2	ND	ND	ND	ND	ND		
DIPE	2	ND	ND	ND	ND	ND		
TAME	2	ND	ND	ND	ND	ND		
t-Butyl Alcohol	10	ND	ND	ND	ND	ND		
SURROGATE	SPK Conc.	%RC	%RC	%RC	%RC	%RC		Accept Limit%
Dibromofluoro-methane	25	99	94	94	94	92		79-126
Toluene-d8	25	94	96	99	99	95		79-121
Bromofluoro-benzene	25	102	98	103	103	100		71-131

MB=Method Blank; MDL=Method Detection Limit; ND=Not Detected (below DF × MDL). \* Result from a higher dilution analysis.





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06-19-2002

**EPA 8015M (TPH)  
Batch QA/QC Report**

Client: URS Corporation  
Project: 22-00000303.02  
Matrix: Water  
Batch No.: AF10-GW1

Lab Job No.: UR206042  
Lab Sample ID: UR206030-1  
Date Analyzed: 06-10-2002

**I. MS/MSD Report  
Unit: ppb**

Analyte	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
TPH-G	ND	1000	753	943	75.3	94.3	22.4	30	70-130

**II. LCS Result  
Unit: ppb**

Analyte	LCS Report Value	True Value	Rec.%	%Rec Accept. Limit
TPH-G	916	1000	91.6	80-120

ND: Not Detected (at the specified limit).



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06-19-2002

**EPA 8015M (TPH)  
Batch QA/QC Report**

Client: URS Corporation  
Project: 22-00000303.02  
Matrix: Water  
Batch No.: EF07-DW1

Lab Job No.: UR206042  
Lab Sample ID: UR206042-3  
Date Analyzed: 06-07-2002

**I. MS/MSD Report  
Unit: ppm**

Analyte	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
TPH-d	ND	20	22.4	22.2	112.0	111.0	0.9	30	70-130

**II. LCS Result  
Unit: ppm**

Analyte	LCS Report Value	True Value	Rec.%	%Rec Accept. Limit
TPH-d	23.2	20	116.0	80-120

ND: Not Detected (at the specified limit).



**Southland Technical Services, Inc.**  
Environmental Laboratories

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06-19-2002

**EPA 8260B  
Batch QA/QC Report**

Client: URS Corporation  
Project: 22-00000303.02  
Matrix: Water  
Batch No: 0611-VOAW

Lab Job No.: UR206042  
Sample ID: UR206042-3  
Date Analyzed: 06-11-2002

**I. MS/MSD Report  
Unit: ppb**

Compound	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
1,1-Dichloroethene	ND	20	24.8	24.7	124.0	123.5	0.4	30	70-130
Benzene	ND	20	22.5	21.5	112.5	107.5	4.5	30	70-130
Trichloro-ethene	ND	20	18.2	17.1	91.0	85.5	6.2	30	70-130
Toluene	ND	20	20.8	19.9	104.0	99.5	4.4	30	70-130
Chlorobenzene	ND	20	21.0	20.3	105.0	101.5	3.4	30	70-130

**II. LCS Result  
Unit: ppb**

Analyte	LCS Value	True Value	Rec.%	Accept. Limit
1,1-Dichloroethene	20.5	20.0	102.5	80-120
Benzene	20.7	20.0	103.5	80-120
Trichloro-ethene	17.8	20.0	89.0	80-120
Toluene	19.4	20.0	97.0	80-120
Chlorobenzene	19.4	20.0	97.0	80-120

ND: Not Detected.

# URS CORPORATION

2020 East First Street, Suite 400  
 Santa Ana, CA 92705  
 (714) 835-6886  
 FAX (714) 667-7147

Date: 6/6/02

## CHAIN OF CUSTODY RECORD

Page 1 of     

*UR206042*

Data Requested in GISKey Format

Lab Name:		URS Project/PO Number:		Requested Analyses:												Special Instructions:				
STS		22-0000 303.02																		
Client Name/Project Name/Location:		GeoTracker Information:																		
Seas Oakland 1058B																				
URS Project Manager:		EDF Reporting Y N Global ID:																		
Scott Rowlands																				
Sampler Name and Signature:		COELT Log Number:																		
Robert Kovacs																				
Sample Name:	Sample Date:	Sample Time:	Preserved:	Matrix:	Container Type:	# of Cont:	TPH <sub>2</sub> (8015M)	VO <sub>2</sub> (82608)	PM <sub>10</sub> TPH <sub>0</sub> (8015M)											HOLD
TB	N/A	N/A	Y N	S L G	Acetate SS. Brass Jar Encore 40 ml Amb. Plas. Glass VOA	2	XX													
<sup>2K</sup> MW-4	6-6	1035	Y N	S G	Acetate SS. Brass Jar Encore 40 ml Amb. Plas. Glass VOA	6	XX													
MW-4	6-6	1035	Y N	S G	Acetate SS. Brass Jar Encore 100 ml Amb. Plas. Glass VOA	1		X												
MW-5	6-6	1120	Y N	S G	Acetate SS. Brass Jar Encore 40 ml Amb. Plas. Glass VOA	6	XX													
MW-5	6-6	1120	Y N	S G	Acetate SS. Brass Jar Encore 100 ml Amb. Plas. Glass VOA	1		X												
MW-9	6-6	1205	Y N	S G	Acetate SS. Brass Jar Encore 40 ml Amb. Plas. Glass VOA	6	XX													
MW-9	6-6	1205	Y N	S G	Acetate SS. Brass Jar Encore 100 ml Amb. Plas. Glass VOA	1		X												
MW-1	6-6	1300	Y N	S G	Acetate SS. Brass Jar Encore 40 ml Amb. Plas. Glass VOA	6	XX													
MW-1	6-6	1300	Y N	S G	Acetate SS. Brass Jar Encore 100 ml Amb. Plas. Glass VOA	1		X												
DUP-1	6-6	1305	Y N	S G	Acetate SS. Brass Jar Encore 40 ml Amb. Plas. Glass VOA	6	XX													

*UR 206042-7*

*-3*

*-3*

*-4*

*-4*

*-5*

*-5*

*-1*

*-1*

*-6*

Relinquished by: *Robert Kovacs* Date: *6-6-02*

Received By: *[Signature]* Date/Time: *6-7-02 9:00am*

Turnaround Time: (Check)  
 Same Day  72 Hour

Lab Use Only  
 Cooler Temperature\*: *4°C*  
 \*Record upon arrival

Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_

Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

24 Hour  5 Day

URS

Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_

Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

48 Hour  Standard

**URS CORPORATION**

2020 East First Street, Suite 400  
 Santa Ana, CA 92705  
 (714) 835-6886  
 FAX (714) 667-7147

Date: 6/6/02

**CHAIN OF CUSTODY RECORD**

Page 2 of     

*UR 206042*

Data Requested in GISKey Format

Lab Name <b>STS</b>			URS Project/PO Number: <b>22-00000 303.02</b>			Requested Analyses:										Special Instructions:			
Client Name/Project Name/Location: <b>Seane Oakland 1058B</b>			Geotracker Information:			TPH <sub>6</sub> (VOISN) MoC (8260B) TPH <sub>10</sub> (BOISN)										HOLD			
URS Project Manager: <b>Scott Rowlands</b>			EDF Reporting: Y N Global ID:																
Sampler Name and Signature: <b>Robert Kovacs</b>			COELT Log Number:																
Sample Name:	Sample Date:	Sample Time:	Preserved:	Matrix:	Container Type:	# of Cont:													
DOP-1	6-6	1305	Y N	S L G	Acetate SS, Brass Jar Encore <del>100</del> ml Amb. Plas. Glass VOA	1											UR 206042-6		
EW-1	6-6	1410	Y N	S L G	Acetate SS, Brass Jar Encore <del>40</del> ml Amb. Plas. Glass VOA	6	XX											-8	
EW-1	6-6	1410	Y N	S L G	Acetate SS, Brass Jar Encore <del>100</del> ml Amb. Plas. Glass VOA	1		X											-8
MW-3	6-6	1500	Y N	S L G	Acetate SS, Brass Jar Encore <del>100</del> ml Amb. Plas. Glass VOA	6	XX											-2	
MW-3	6-6	1500	Y N	S L G	Acetate SS, Brass Jar Encore <del>100</del> ml Amb. Plas. Glass VOA	1		X											-2
EB-1	6-6	1515	Y N	S L G	Acetate SS, Brass Jar Encore <del>40</del> ml Amb. Plas. Glass VOA	6	XX											-9	
			Y N	S L G	Acetate SS, Brass Jar Encore ml Amb. Plas. Glass VOA														
			Y N	S L G	Acetate SS, Brass Jar Encore ml Amb. Plas. Glass VOA														
			Y N	S L G	Acetate SS, Brass Jar Encore ml Amb. Plas. Glass VOA														
			Y N	S L G	Acetate SS, Brass Jar Encore ml Amb. Plas. Glass VOA														
Relinquished by: <b>Robert Kovacs</b>		Date: <b>6-6-02</b>	Received By: <i>[Signature]</i>		Date/Time: <b>6-7-02 9:00A</b>	Turnaround Time: (Check)			Lab Use Only										
Relinquished by:		Date:	Received By:		Date/Time:	Same Day	72 Hour	Cooler Temperature*: <u>4°C</u>											
Relinquished by:		Date:	Received By:		Date/Time:	24 Hour	5 Day	*Record upon arrival											
Relinquished by:		Date:	Received By:		Date/Time:	48 Hour	Standard	<b>URS</b>											

S=Solid L=Liquid G=Gas White Copy in Final Report, Yellow to File, Pink to URS at Dropoff

**APPENDIX C**

**URS DATA VALIDATION REPORT**

### Level III Data Validation Summary

**PROJECT:** Sears Oakland 1058B  
**LABORATORY:** Southland Technical Services, Inc. (STS)  
**MATRIX:** Water  
**LAB PROJECT #:** UR206042  
**SAMPLES:** See table below

Field ID	QC Designations	Lab ID	TPH-Gasoline	TPH-Diesel, TPH-Oil	VOCs (including Fuel Oxygenates)
TB	Trip Blank	UR206042-7	X		X
MW-4		UR206042-3	X	X	X
MW-5		UR206042-4	X	X	X
MW-9		UR206042-5	X	X	X
MW-1		UR206042-1	X	X	X
Dup-1	Field duplicate of MW-1	UR206042-6	X	X	X
EW-1		UR206042-8	X	X	X
MW-3		UR206042-2	X	X	X
EB-1	Equipment blank	UR206042-9	X		X

Date Sampled: 6/6/02

TPH-Gasoline= Total petroleum hydrocarbon – gasoline range (C4-C12), TPH-Diesel= Total petroleum hydrocarbon – diesel range (C13-C23)

TPH-Oil= Total petroleum hydrocarbon – oil range (C24-C40) VOCs = Volatile organic compounds

Fuel Oxygenates = t-butyl alcohol (TBA), t-amyl methyl ether (TAME), di - isopropyl ether (DIPE), ethyl-t-butyl ether (ETBE), Methyl tertiary butyl ether (MTBE).

STS is certified by California Department of Health Services (Certificate Number 1986).

### DATA REVIEW MATRIX

QC Parameter	TPH-Gasoline EPA5030/8015M	TPH-Diesel, and TPH-Oil EPA3510C/8015M	VOCs EPA5030/8260B
Chain-of-custody (COC)	✓	✓	✓
Sample Receipt	✓	✓	✓
Holding Times	✓	✓	✓
Method Blank	✓	✓	✓
Surrogate Recovery	✓	(2)	✓
Laboratory Control Sample	✓	✓	✓
Matrix Spike	(1)	✓(3)	✓(3)
Duplicate or Spike Duplicate	(1)	✓(3)	✓(3)
Field Duplicate	✓	✓	✓
Trip Blank/Equipment Blank	✓/✓	NA/NA	✓/✓

✓ = Quality control evaluation criteria met.

NA = Not Applicable or Not Analyzed

Notes:

- MS/MSD was conducted on a non-site related sample; therefore, the MS/MSD results obtained may not be fully representative of the accuracy and precision of the analysis on the site-specific sample matrix.
- The surrogate recovery results for Diesel was outside of laboratory acceptance criterion for sample MW-3. Consequently, the results for diesel were qualified as estimated (J) for this sample. Non-detect results for TPH-oil for sample MW-3 were considered to be acceptable without qualification.
- MS/MSD was conducted on sample MW-4. The results were within acceptance criterion.

Summary: Based on this Level III validation covering the QC parameters listed in the table above, these data are considered to be useable for meeting project objectives. However, the data user must evaluate the ultimate usability of the data based on the reporting limits obtained. The table below lists the detection limits obtained for undiluted samples.

Analyte	Detection Limits Obtained
TPH-Diesel	500
TPH-Oil	2000
TPH-Gasoline	50
VOCs	1 to 25
MTBE	2
TBA	10
Other Oxygenates	2

Aqueous units are microgram per Liter ( $\mu\text{g}/\text{L}$ ).



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