URS

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

URS Job No. 29863494
April 22, 2003

2002 FOURTH QUARTER
GROUNDWATER MONITORING REPORT
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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 Fourth Quarter Groundwater Monitoring conducted at the above-referenced property (Site). The former Sears Auto Center is located at 2600 Telegraph Avenue in Oakland, California (Figure 1). The groundwater monitoring event consisted of gauging ten wells, sampling five monitoring wells (MW-1, MW-3, MW-4, MW-5, and MW-9), and sampling one extraction well (EW-1).

The purpose of the groundwater monitoring event was to assess current groundwater conditions in the vicinity of removed gasoline underground storage tanks (USTs), associated fuel dispensers and product piping, and removed motor oil and used oil USTs. The removed gasoline USTs, fuels dispensing system, motor oil USTs and used oil UST were associated with a former Sears Auto Center (Figure 2). The work is being performed under regulatory oversight of the Alameda County Environmental Health Services (ACEHS) pursuant to quarterly monitoring and reporting requirements under Title 23, Division 3, Chapter 16 of the California Code of Regulations.

2.0 SITE DESCRIPTION

The Site is located at 2600 Telegraph Avenue, Oakland California (Figure 1). It is bordered by 27th Street to the north, Telegraph Avenue to the west, 26th 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.

URS

April 23, 2003

Mr. Don Hwang
Hazardous Materials Specialist
Alameda County Environmental Health Services
1131 Harbor Bay Parkway, Number 250
Alameda, California 94502

RE: 2002 Fourth Quarter Groundwater Monitoring
Former Sears Auto Center #1058B
2600 Telegraph Avenue
Case I.D. # STID 1082
For Sears, Roebuck & Co.

Dear Mr. Hwang;

Submitted with this letter is the 2002 Fourth Quarter Groundwater Monitoring Report prepared on behalf of Sears, Roebuck & Co. Quarterly groundwater monitoring will continue within the current scope of work during the second quarter of 2003. Please feel free to contact me at 714.648.2793 if you have questions or comments.

Respectfully Submitted,
URS CORPORATION

J.S. Rowlands, R.G., C.HG.
Project Manager

cc: Mr. Scott DeMuth, Sears, Roebuck & Co.
Mr. Ryan Hartley, URS Corporation

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2.1 REGIONAL GEOLOGY AND HYDROGEOLOGY

The Site is approximately 1.5 miles east of the San Francisco Bay and three miles west of the Diablo Range in Oakland, California. The Site 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 [RWQCB], San Francisco Bay Region, June 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. Existing beneficial uses of groundwater within the East Bay Plain basin include municipal and domestic water supply, industrial process water supply, industrial service water supply, and agricultural water supply (RWQCB, June 1995).

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 feet 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 due to "readily available high quality imported surface water" (RWQCB, June 1999). Alameda County Well permit applications indicated 91% of groundwater wells within the basin are used for "backyard" or commercial irrigation, 8.6% of the wells are used for industrial process water, and 0.4% are used for drinking water supply (RWQCB, June 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. Five 1,000-gallon motor oil USTs and one 2,000-gallon motor oil UST were previously located on the east side of the former auto center building. One 1,000-gallon used oil UST and two 10,000 gallon gasoline USTs were previously located on the west side of the former auto center building. The USTs were installed in the 1960s. The two 10,000-gallon USTs, associated with the gasoline concession were removed prior to 1990. American Environmental Management Corporation (AEMC) removed all the USTs containing motor oil and used oil in September 1990 (AEMC, October 1990). The former UST locations are shown on Figure 2.

Soil samples collected by AEMC from the motor oil and used oil UST excavations contained concentrations of total petroleum hydrocarbons as gasoline (TPHg) up to 39 milligrams per kilogram (mg/kg). Soil samples collected from the motor oil and used oil UST excavations contained concentrations of total petroleum hydrocarbons as diesel fuel (TPHd) up to 4,400 mg/kg. Benzene was detected in soil samples at concentrations up to 12 micrograms per kilogram (µg/kg). Toluene was detected in soil samples at concentrations up to 310 µg/kg. Ethylbenzene was detected in soil samples at concentrations up to 410 µg/kg. Xylenes were detected in soil samples at concentrations up to 3,000 µg/kg. Trichloroethene, tetrachloroethene, and acetone were also detected in three soil samples at concentrations ranging from 7 to 140 µg/kg.

Approximately 55 cubic yards of soil was excavated by AEMC during the motor oil and used oil UST removals and a subsequent excavation project. The excavated soil was transported from the Site and disposed at Gibson Asphalt Recylers in Bakersfield, California (AEMC, January 1991). Confirmation samples collected from the excavations contained less than 60 mg/kg of TPHd. Ethylbenzene and xylenes were detected in one soil sample at concentrations of 13 µg/kg and 14 µg/kg, respectively.

AEMC conducted a Phase II assessment of soil and groundwater on the west side of the former Auto Center in the areas of the removed gasoline and used oil USTs during February 1991 (AEMC, August 1991). Due to drill refusal, soil samples were not collected from depths greater than 15 feet bgs. TPHg was detected in soil samples at concentrations up to 6.3 mg/kg. TPHd was "non-detect" (ND) in all soil samples. TPH as oil and grease was detected in soil samples at concentrations up to 930 mg/kg. Benzene was detected in soil samples at concentrations up to 100 µg/kg. Toluene

was detected in soil samples at concentrations up to 300 µg/kg. Ethylbenzene was detected in soil samples at concentrations up to 170 µg/kg. Xylenes were detected in soil samples at concentrations up to 280 µg/kg.

TPHg was detected in Hydropunch™ groundwater samples collected during the AEMC Phase II assessment at concentrations up to 18,000 µg/L. TPH oil and grease was detected in Hydropunch™ groundwater samples at concentrations up to 7,000 mg/L. Benzene, toluene, ethylbenzene and xylenes (BTEX) were detected in Hydropunch™ groundwater samples at concentrations up to 240 µg/L.

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. Groundwater monitoring 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 TPHg, TPHd, and oil range hydrocarbons (TPHo).

The highest dissolved phase concentrations of TPHg, TPHd, TPHo, 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 (µg/L)	Date of Detection
TPHg	MW-3	7,800	02/25/00
TPHd	MW-3	1,026	06/06/02
TPHo	MW-3	130,000	02/25/00
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	27	11/15/95
MTBE	EW-1	30	02/12/98

A summary of the historical chemical analytical results for previous groundwater monitoring events is provided as Appendix C. It should be noted that the gasoline USTs were removed from the Site prior to the widespread use of MTBE, and the detected concentrations may be "false positives" that were not confirmed by EPA analysis method 8260B.

4.0 HEALTH AND SAFETY PLAN

Pursuant to Health and Safety Code 1910.120, and 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 Fourth Quarter Groundwater Monitoring was performed on December 11, 2002. The monitoring consisted of gauging the depth to water in all 10 wells, then purging and sampling six of the ten wells (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 measured relative to the surveyed top of casing using a Solinst water level indicator. 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 fourth quarter are listed in Table 1 and historical data is included in Appendix A.

5.2 GROUNDWATER SAMPLING

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, dissolved oxygen (DO), oxidation reduction potential (ORP), 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 following well purging or from a disposable polyethylene bailer within two hours of well purging or 80% recovery.

The downhole pump was cleaned prior to use and between wells by washing in a solution of Alconox and tap water, rinsing in tap water, final rinsing in deionized water, and air drying. Pre-cleaned, disposable, polyethylene discharge tubing was attached to the pump following each decontamination and was changed between each well purging event. A blind duplicate sample was also collected from well EW-1 and labeled BD-1. One equipment blank sample, labeled EB-1, was collected by pumping deionized water from a clean container through the pump and clean, disposable, polyethylene tubing 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 Southland Technical Services, Inc.,(STS), a California Department of Health Services (DHS) accredited laboratory. A trip blank (TB-1), prepared by STS, 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 STS, in Montebello, California. The groundwater samples, duplicate and equipment blank were analyzed for TPHg, TPHd, and TPHo by modified EPA Method 8015M. The samples were also analyzed for volatile organic compounds (VOCs) including BTEX and the fuel oxygenates MTBE, Di-isopropyl Ether (DIPE), Ethyl tert-butyl Ether (ETBE), tert-Amyl Methyl Ether (TAME), and tert-Butanol (TBA) by EPA Method 8260B. The trip blank was 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

Purge water and decontamination water were collected and stored in three 55-gallon DOT-approved drums. Containers were numbered, and labeled with the date, and contents to identify the source of the wastes. The containers were stored onsite in a designated area and properly disposed of by Sears 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 feet to 14 feet bgs, or 12 feet to 18 feet above mean sea level (msl). The measured depth to water during the 2002 Fourth quarter monitoring ranged from 10.40 feet to 12.43 feet bgs, or approximately 12.97 feet to 16.58 feet above msl. Groundwater elevation contours and flow vectors were generated by 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 fourth quarter water level measurements, is provided as Figure 3.

6.2 LABORATORY ANALYTICAL RESULTS

TPHg was detected in three of the six groundwater samples (MW-3, MW-9, and EW-1) with concentrations ranging from 123 µg/L (MW-9) to 1,040 µg/L (EW-1). TPHd was ND (<500 µg/L) in all groundwater samples. TPHo was ND (<2000 µg/L) in all groundwater samples. MTBE, BTEX, DIPE, ETBE, TAME, and TBA were ND in all groundwater samples. Tert-Butylbenzene was detected in well MW-9 at a concentration of 5.2 µg/L. Tert-Butylbenzene and n-Butylbenzene were detected in EW-1 at concentrations of and 5.7µg/L and 31µg/L, respectively. All other VOCs were ND in the groundwater samples.

Chemical analysis results of the 2002 fourth quarter groundwater monitoring event are presented in Table 2. Copies of the laboratory reports and chain-of-custody documents are included in Appendix

B. A Site map showing TPHg, TPHd, TPHo concentrations for the 2002 Fourth Quarter is provided as Figure 4. URS conducted a check of data completeness for the analytical laboratory reports. Results indicate that "these data are considered to be usable for meeting project objectives." A copy of URS's Data Validation Summary is included as Appendix C.

7.0 DISCUSSION

Results of the 2002 Fourth Quarter Groundwater Monitoring indicate that detectable concentrations of TPHg ranging from 123 µg/L to 1,040 µg/L 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 were not detected in any of the groundwater samples collected during this sampling event. However, trace concentrations of tert-Butylbenzene (up to 6.5 µg/L) were identified in two of the wells (MW-9 and EW-1). Trace concentration of n-Butylbenzene was also found in EW-1 (up to 33 µg/L). No other VOC had been detected in the groundwater samples collected during this quarterly monitoring event. In addition, there have been no measurable separate phase petroleum hydrocarbons in well MW-3 for nine consecutive quarterly monitoring events.

Groundwater flow is towards the south with a gradient of 0.017. Groundwater flow direction and gradient are consistent with previous monitoring events. The potentiometric surface to groundwater beneath the Site has decreased an average of 0.21 feet since the last monitoring event conducted in September 2002.

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. A Work Plan to drill and sample confirmation soil borings in the areas of the removed USTs (URS, January 23, 2003) was submitted to the ACEHS in January 2003 for review. Data collected from the confirmation borings will be used to evaluate the Site for closure in accordance with the City of Oakland Urban Land Redevelopment (ULR) Program and Regional Water Quality Control Board, San Francisco Region (RWQCB) guidance documents.

8.0 SCHEDULE

The 2003 second quarter groundwater monitoring event is scheduled to be conducted during June 2003 and will include the sampling of all 10 wells (MW-1 through MW-9, and EW-1). The confirmation soil borings will be completed following review and approval of the Work Plan. 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

Joseph Liles
Senior Staff Geologist

J.S. Rowlands, R.G., C.HG.
Senior Project Geologist

9.0 REFERENCES

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Table 1
2002 Fourth 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	12/11/2002		12/11/2002	NA	11.25	26.20	14.95	24.57	6.24	353	91.3	29.7	0.47
MW-2	12/11/2002		12/11/2002	NA	10.86	26.50	15.64	NA	NA	NA	NA	NA	NA
MW-3	12/11/2002	1	12/11/2002	NA	12.43	26.34	13.91	22.20	6.51	612	-124.0	0.5	0.35
MW-4	12/11/2002		12/11/2002	NA	11.60	26.17	14.57	24.04	6.46	428	107.0	16.2	0.42
MW-5	12/11/2002		12/11/2002	NA	10.40	26.98	16.58	24.00	6.38	392	51.8	5.8	0.48
MW-6	12/11/2002		12/11/2002	NA	10.95	24.32	13.37	NA	NA	NA	NA	NA	NA
MW-7	12/11/2002		12/11/2002	NA	11.30	24.88	13.58	NA	NA	NA	NA	NA	NA
MW-8	12/11/2002		12/11/2002	NA	12.30	26.12	13.82	NA	NA	NA	NA	NA	NA
MW-9	12/11/2002		12/11/2002	NA	12.06	25.03	12.97	22.94	6.52	688	-69.3	1.8	0.42
EW-1	12/11/2002		12/11/2002	NA	12.57	26.80	14.23	23.26	6.51	881	-141.8	1.7	0.21

Notes: 1 - Well water has hydrocarbon odor
MSL - Mean Sea Level
bgs - below ground surface
Groundwater Elevation reference to MSL
Groundwater Elevation = Casing Elevation - Depth to Groundwater Water.
SP - Separate phase product in well

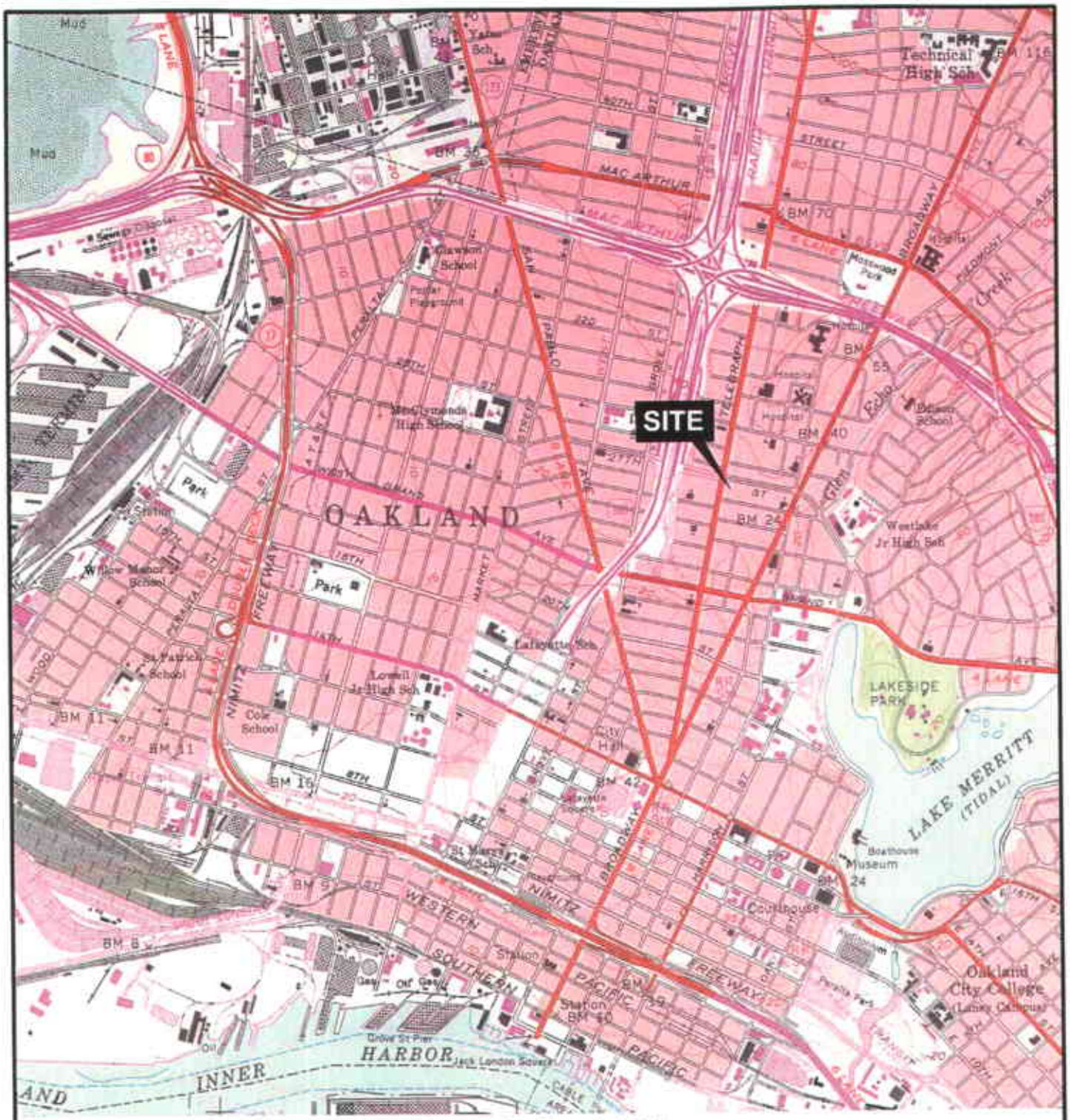
µS/cm - microSiemens per centimeter
mV - millivolt
mg/L - milligrams per liter
NTU - nephelometric turbidity units
O.R.P. - Oxidation Reduction Potential
NA - Not analyzed/Not available.

Table 2
2002 Fourth 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)				
			TPHg (µg/L)	TPH_d (µg/L)	TPH_o (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
MW-1	12/11/2002	1	< 50	< 500	< 2000	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0
MW-2	12/11/2002	3	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	12/11/2002	1	**876**	< 500	< 2000	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0
MW-4	12/11/2002	1	< 50	< 500	< 2000	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0
MW-5	12/11/2002	1	< 50	< 500	< 2000	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0
MW-6	12/11/2002	3	NA	NA	NA	NA	NA	NA	NA	NA
MW-7	12/11/2002	3	NA	NA	NA	NA	NA	NA	NA	NA
MW-8	12/11/2002	3	NA	NA	NA	NA	NA	NA	NA	NA
MW-9	12/11/2002	1	**123**	< 500	< 2000	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0
EW-1	12/11/2002	1	**1040**	< 500	< 2000	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0
EW-1	12/11/2002	1,2	**1100**	< 500	< 2000	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0

Notes: 1. "Post-purge" sample
2. Duplicate sample analysis.
3. Groundwater well not sampled
-- = Either not present, not measured, or not calculated.
Detected concentrations are depicted in bold
< = Analytical result less than the method detection limit indicated.
NA= Not analyzed/Not available.
µg/L= micrograms per liter

TPHg = Total Petroleum Hydrocarbonsas gasoline range hydrocarbons by EPA Method 8015 (modified).
TPHd = Total Petroleum Hydrocarbonsas diesel range hydrocarbons by EPA Method 8015 (modified).
TRPo = Total Petroleum Hydrocarbons hydrocarbons as oil range by EPA Method 8015 (modified)



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.

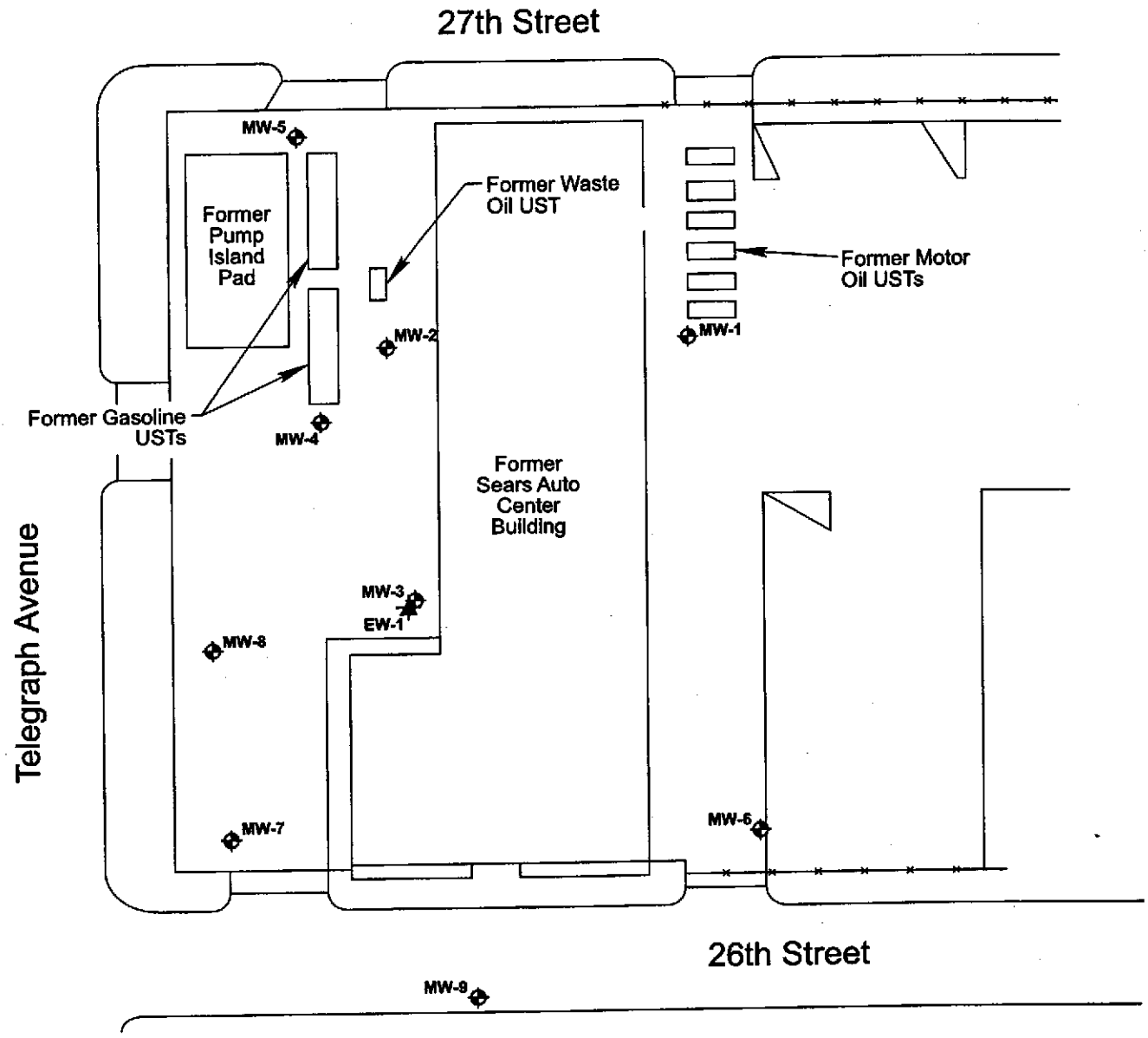
N

0 1/2 1

Scale in Miles

URS

L:/sears/topo #1058b.fh10 4/02



LEGEND

MW-8 — MONITORING WELL LOCATION

EW-1 — EXTRACTED WELL LOCATION

CHAIN LINK FENCE

0 20 40

Scale In Feet

PLOT PLAN

Project: Sears Auto Center #1058,
2600 Telegraph Avenue, Oakland, CA

Project No.: 29863494

Figure 2

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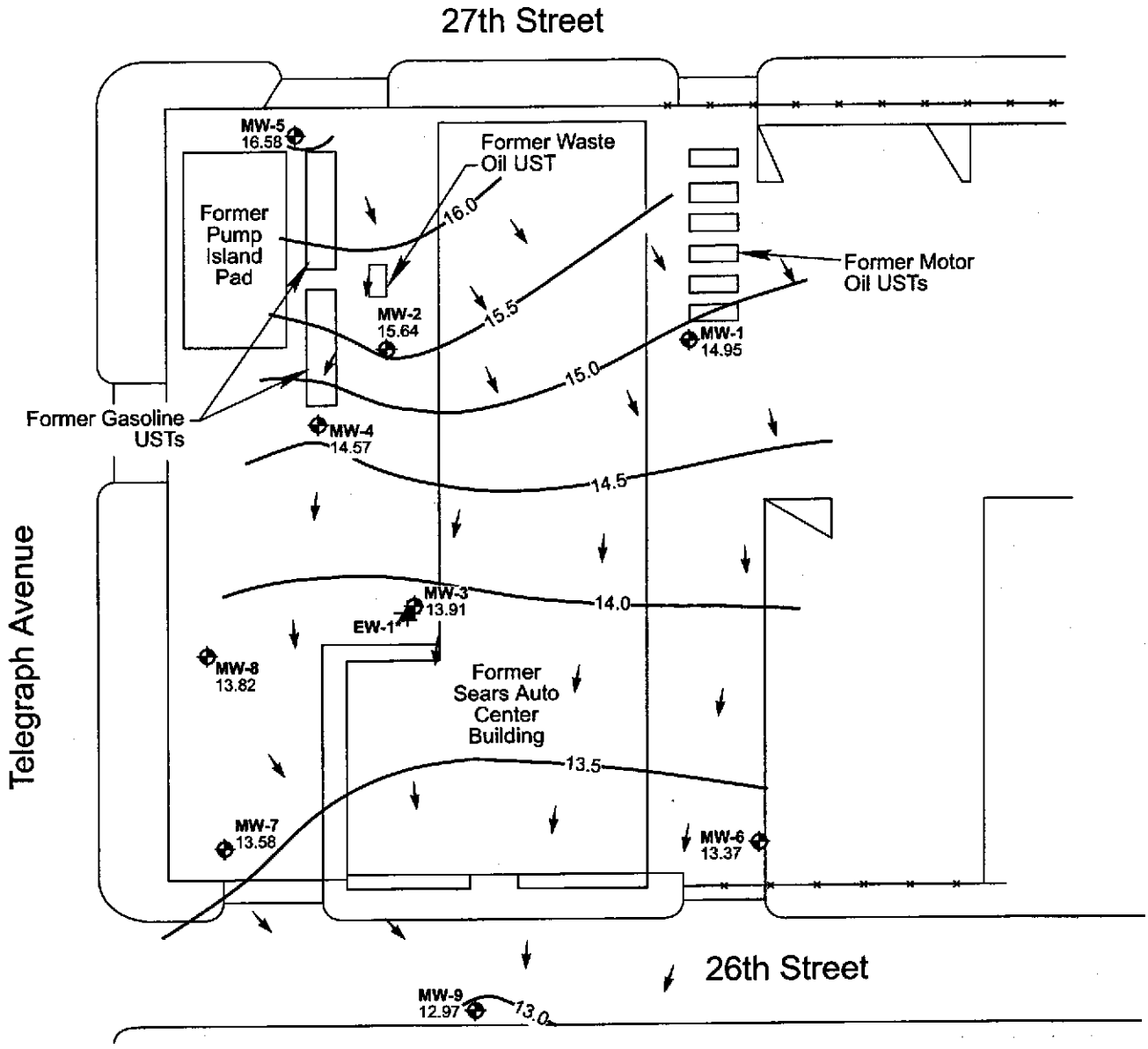
L:/Sears/figure 2 #1058.fh10 10/02



LEGEND

- MW-8 13.82 — MONITORING WELL LOCATION AND GROUNDWATER POTENTIOMETRIC ELEVATION
- EW-1 — EXTRACTION WELL LOCATION
- CHAIN LINK FENCE
- 14.0 — GROUNDWATER ELEVATION CONTOUR (MSL)
- GROUNDWATER FLOW VECTOR
- * — GROUNDWATER ELEVATION NOT USED IN CONTOURING

0 20 40
Scale in Feet

2002 FOURTH QUARTER GROUNDWATER CONTOUR MAP

Project: Sears Auto Center #1058B,
2600 Telegraph Avenue, Oakland, CA

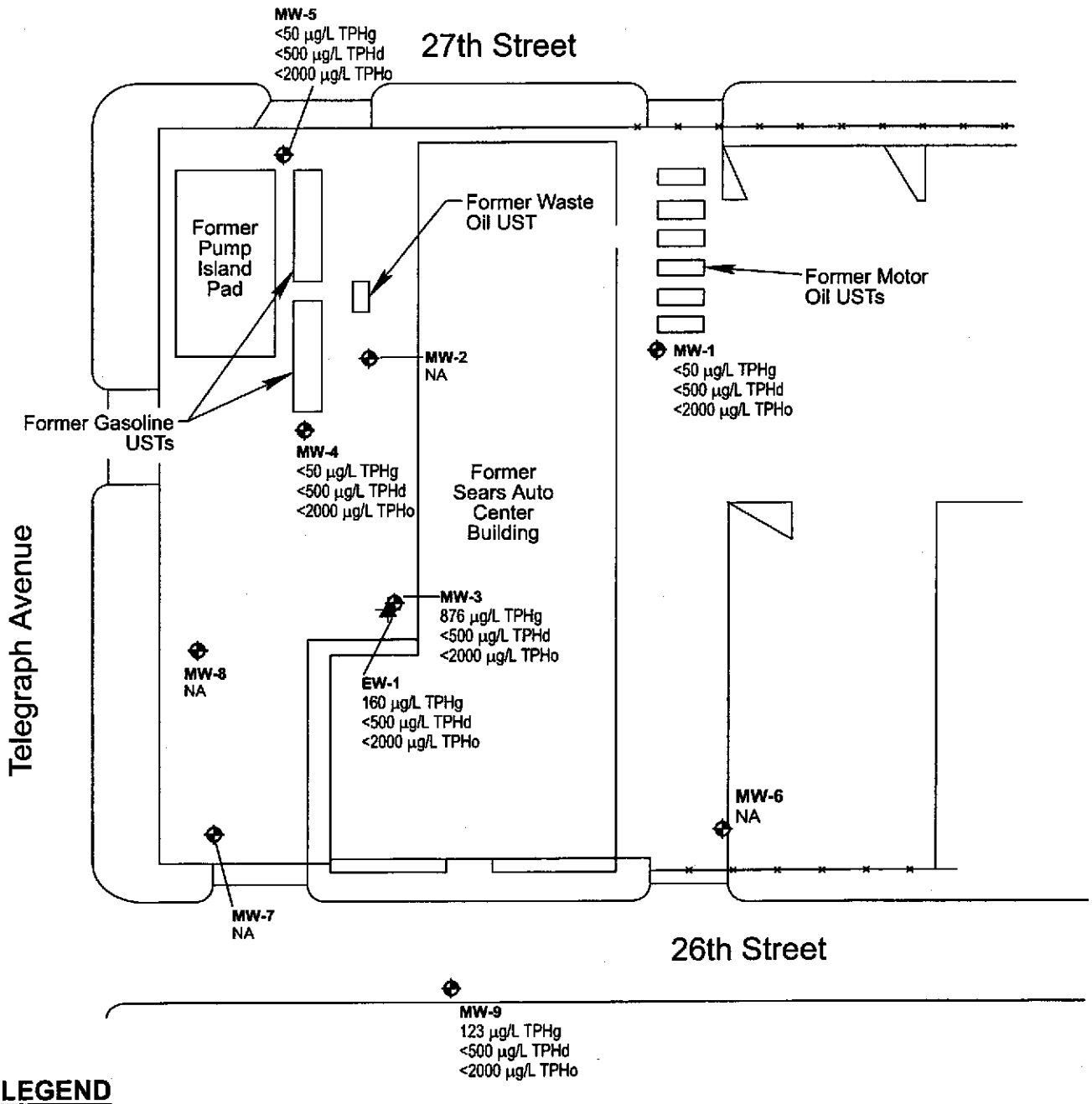
Project No.: 29863494

Date: FEBRUARY 2003

Figure 3

URS

L:/Sears/Oakland/GW contour 4th qrt 02 oakl 1058B.FH10 1/03



LEGEND

MW-8 ◆	MONITORING WELL LOCATION
EW-1 ✦	EXTRACTED WELL LOCATION
—×—×—	CHAIN LINK FENCE
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
N/A	NOT ANALYZED

0 20 40
Scale in Feet

2002 FOURTH QUARTER TPH CONCENTRATION MAP

Project: Sears Auto Center #1058B, 2600 Telegraph Avenue, Oakland, CA

Project No.: 29863494

Date: FEBRUARY 2003

Figure 4

URS

L:/Sears/Oakland/TPH 4th quart 02 oakland.fh10 1/03

APPENDIX A

HISTORICAL GROUNDWATER MONITORING RESULTS

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

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

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

			GROUNDWATER LEVELS					LABORATORY ANALYTICAL RESULTS									
Well No.	Notes	Sample Period	Depth to Groundwater (ft bgs)	Depth to Product (ft bgs)	Stand Prod Thickness (ft)	Casing Elevation (ft MSL)	Groundwater Elevation (ft MSL)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TPH_g (µg/L)	TPH_d (µg/L)	TPH_o (µg/L)	TRPH (µg/L)	Dissolved Metals
MW-1		11/15/95	11.61	--	0.00	26.20	14.59	< 0.5	< 0.5	< 1.0	27	---	---	---	< [1]200	---	---
MW-1		01/15/96	11.21	--	0.00	26.20	14.99	---	---	---	---	---	---	---	---	---	---
MW-1		03/05/96	9.35	--	0.00	26.20	16.85	< 0.5	< 1.0	< 1.0	< 2.0	---	---	---	< [1]200	---	---
MW-1		04/19/96	10.60	--	0.00	26.20	15.60	---	---	---	---	---	---	---	---	---	---
MW-1		05/10/96	11.18	--	0.00	26.20	15.02	---	---	---	---	---	---	---	---	---	---
MW-1		06/03/96	10.90	--	0.00	26.20	15.30	< 0.5	< 1.0	3.7	3.4	---	340	---	< [1]200	---	---
MW-1		09/04/96	11.31	--	0.00	26.20	14.89	< 0.5	< 1.0	< 1.0	< 2.0	---	390	---	310	---	---
MW-1		12/02/96	10.61	--	0.00	26.20	15.59	< 0.5	< 1.0	< 1.0	2.7	---	400	---	< [1]200	---	---
MW-1		02/26/97	10.31	--	0.00	26.20	15.89	< 0.5	< 1.0	< 1.0	4.5	---	390	---	< [1]200	---	---
MW-1		06/09/97	11.25	--	0.00	26.20	14.95	< 0.5	< 1.0	< 0.5	2.3	< 10	340	---	< 200	---	---
MW-1		08/25/97	11.15	--	0.00	26.20	15.05	< 0.5	< 0.5	< 0.5	3	< 5	220	---	< 200	---	---
MW-1		11/28/97	10.07	--	0.00	26.20	16.13	< 0.5	< 0.5	< 0.5	3	6.0	340	---	< 200	---	---
MW-1		02/12/98	8.70	--	0.00	26.20	17.50	< 0.5	< 0.5	< 0.5	< 2.0	< 5	280	---	< 200	---	---
MW-1		05/20/98	10.89	--	0.00	26.20	15.31	< 0.5	< 0.5	0.8	3	< 5	340	---	< 200	---	---
MW-1		08/11/98	11.60	--	0.00	26.20	14.60	< 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	< 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	< 0.50	< 0.50	1	1.6	6.7	260	---	< 500	---	---
MW-1		05/11/99	11.05	--	0.00	26.20	15.15	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	107	< 500	< 2000	---	---
MW-1	2	09/07/02	11.31	--	0.00	26.20	14.89	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	95	< 500	< 2000	---	---
MW-1	2	12/11/2002	11.25	--	0.00	26.20	14.95	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 50	< 500	< 2000	---	---
MW-2		12/30/92	10.65	--	0.00	26.50	15.85	0.7	< 0.3	< 0.3	3	---	190	---	---	1	[2]ND
MW-2		02/26/93	10.56	--	0.00	26.50	15.94	---	---	---	---	---	---	---	---	---	---
MW-2		03/24/93	10.52	--	0.00	26.50	15.98	0.6	< 0.3	< 0.3	2	---	120	---	---	< 1	[2]ND
MW-2		04/27/93	11.17	--	0.00	26.50	15.33	---	---	---	---	---	---	---	---	---	---

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			GROUNDWATER LEVELS					LABORATORY ANALYTICAL RESULTS									
Well No.	Notes	Sample Period	Depth to Groundwater (ft bgs)	Depth to Product (ft bgs)	Stand Prod Thickness (ft)	Casing Elevation (ft MSL)	Groundwater Elevation (ft MSL)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TPH_g (µg/L)	TPH_d (µg/L)	TPH_o (µg/L)	TRPH (µg/L)	Dissolved Metals
MW-2		05/28/93	11.12	--	0.00	26.50	15.38	---	---	---	---	---	---	---	---	---	---
MW-2		06/21/93	11.41	--	0.00	26.50	15.09	0.3	< 0.3	< 0.3	0.7	---	82	---	< **100	---	[c]ND
MW-2		07/22/93	11.50	--	0.00	26.50	15.00	---	---	---	---	---	---	---	---	---	---
MW-2		08/13/93	11.54	--	0.00	26.50	14.96	---	---	---	---	---	---	---	---	---	---
MW-2		09/16/93	11.62	--	0.00	26.50	14.88	< 0.3	< 0.3	< 0.3	< 0.5	---	28	---	< **100	---	[c]ND
MW-2		10/22/93	11.57	--	0.00	26.50	14.93	---	---	---	---	---	---	---	---	---	---
MW-2		11/03/93	11.65	--	0.00	26.50	14.85	---	---	---	---	---	---	---	---	---	---
MW-2		11/24/93	11.52	--	0.00	26.50	14.98	---	---	---	---	---	---	---	---	---	---
MW-2		12/01/93	11.08	--	0.00	26.50	15.42	< 0.3	< 0.3	< 0.3	1	---	68	---	---	---	[c]ND
MW-2		12/27/93	11.27	--	0.00	26.50	15.23	---	---	---	---	---	---	---	---	---	---
MW-2		12/30/93	--	--	--	26.50	--	---	---	---	---	---	---	---	310	---	--
MW-2		01/05/94	11.39	--	0.00	26.50	15.11	---	---	---	---	---	---	---	---	---	---
MW-2		02/08/94	11.49	--	0.00	26.50	15.01	---	---	---	---	---	---	---	---	---	---
MW-2		03/09/94	11.06	--	0.00	26.50	15.44	< 0.3	< 0.3	< 0.3	< 0.5	---	47	---	< 100	---	ND
MW-2		04/01/94	11.25	--	0.00	26.50	15.25	---	---	---	---	---	---	---	---	---	---
MW-2		05/10/94	10.83	--	0.00	26.50	15.67	---	---	---	---	---	---	---	---	---	---
MW-2		06/30/94	11.44	--	0.00	26.50	15.06	< 0.3	< 0.3	< 0.3	< 0.5	---	< 10	---	100	---	ND
MW-2		07/28/94	11.48	--	0.00	26.50	15.02	---	---	---	---	---	---	---	---	---	---
MW-2		08/31/94	11.56	--	0.00	26.50	14.94	---	---	---	---	---	---	---	---	---	---
MW-2		09/27/94	11.61	--	0.00	26.50	14.89	< 0.3	< 0.3	< 0.3	< 0.5	---	< 10	---	< [e]250	---	[d]15
MW-2		10/28/94	11.65	--	0.00	26.50	14.85	---	---	---	---	---	---	---	---	---	---
MW-2		11/15/94	9.65	--	0.00	26.50	16.85	---	---	---	---	---	---	---	---	---	---
MW-2		12/01/94	10.71	--	0.00	26.50	15.79	< 0.3	< 0.3	< 0.3	< 0.5	---	54	---	[f]1,300	---	[d]6
MW-2		01/04/95	10.11	--	0.00	26.50	16.39	---	---	---	---	---	---	---	---	---	---
MW-2		02/01/95	10.38	--	0.00	26.50	16.12	---	---	---	---	---	---	---	---	---	---
MW-2		03/08/95	10.80	--	0.00	26.50	15.70	< 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	---	---	---	---	---	---	---	---	---	---
MW-2		05/18/95	10.95	--	0.00	26.50	15.55	---	---	---	---	---	---	---	---	---	---
MW-2		06/09/95	11.13	--	0.00	26.50	15.37	< 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	---	---	---	---	---	---	---	---	---	---
MW-2		08/03/95	11.26	--	0.00	26.50	15.24	---	---	---	---	---	---	---	---	---	---
MW-2		08/29/95	11.32	--	0.00	26.50	15.18	< 0.3	< 0.3	< 0.3	< 0.5	---	< 50	---	4,300	---	[h]20
MW-2		09/15/95	11.42	--	0.00	26.50	15.08	---	---	---	---	---	---	---	---	---	---
MW-2		10/20/95	11.42	--	0.00	26.50	15.08	---	---	---	---	---	---	---	---	---	---
MW-2		11/15/95	11.37	--	0.00	26.50	15.13	< 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	---	---	---	---	---	---	---	---	---	---
MW-2		03/05/96	10.24	--	0.00	26.50	16.26	< 0.5	< 1.0	< 1.0	< 2.0	---	< 100	---	3,200	---	ND

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			GROUNDWATER LEVELS					LABORATORY ANALYTICAL RESULTS									
Well No.	Notes	Sample Period	Depth to Groundwater (ft bgs)	Depth to Product (ft bgs)	Stand Prod Thickness (ft)	Casing Elevation (ft MSL)	Groundwater Elevation (ft MSL)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TPH_g (µg/L)	TPH_d (µg/L)	TPH_o (µg/L)	TRPH (µg/L)	Dissolved Metals
MW-2		04/19/96	10.84	--	0.00	26.50	15.66	---	---	---	---	---	---	---	---	---	---
MW-2		05/10/96	11.13	--	0.00	26.50	15.37	---	---	---	---	---	---	---	---	---	---
MW-2		06/03/96	10.94	--	0.00	26.50	15.56	---	---	---	---	---	---	---	---	---	---
MW-2		06/04/96	--	--	--	26.50	--	< 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	< 0.5	< 1.0	< 1.0	< 2.0	---	< 100	---	3,100	---	---
MW-2		12/02/96	10.80	--	0.00	26.50	15.70	< 0.5	< 1.0	< 1.0	< 2.0	---	< 100	---	2,200	---	---
MW-2		02/26/97	10.70	--	0.00	26.50	15.80	< 0.5	< 1.0	< 1.0	< 2.0	---	< 100	---	2,100	---	---
MW-2		06/09/97	11.10	--	0.00	26.50	15.40	< 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	< 0.5	< 0.5	< 0.5	< 2.0	< 5	< 50	---	< 200	---	---
MW-2		11/28/97	10.59	--	0.00	26.50	15.91	0.6	< 0.5	< 0.5	< 2.0	< 5	< 50	---	1,900	---	---
MW-2		02/12/98	10.04	--	0.00	26.50	16.46	< 0.5	< 0.5	< 0.5	< 2.0	< 5	< 50	---	1,600	---	---
MW-2		05/20/98	10.84	--	0.00	26.50	15.66	< 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	< 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	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 50	---	820	---	---
MW-2		02/11/99	10.17	--	0.00	26.50	16.33	< 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	< 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	---	---	---	---	---	---	---	---	---	---
MW-2		10/26/99	12.03	--	0.00	26.50	14.47	---	---	---	---	---	---	---	---	---	---
MW-2		02/25/00	9.95	--	0.00	26.50	16.55	< 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	< 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	< 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	< 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	< 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	< 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	< 0.5	< 0.5	< 0.5	< 0.5	1.2	< 50	---	< 100	---	---
MW-2		11/01/01	11.00	--	0.00	26.50	15.50	< 0.5	< 0.5	< 0.5	< 0.5	1.4	< 50	---	240	---	---
MW-2	5	03/28/02	10.42	--	0.00	26.50	16.08	---	---	---	---	---	---	---	---	---	---
MW-2	5	06/06/02	10.57	--	0.00	26.50	15.93	---	---	---	---	---	---	---	---	---	---
MW-2	2	09/07/02	11.00	--	0.00	26.50	15.50	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 50	< 500	2,000	---	---
MW-2	5	12/11/02	10.86	--	0.00	26.50	15.64	---	---	---	---	---	---	---	---	---	---
MW-3		12/30/92	12.43	--	0.00	26.34	13.91	11	0.9	< 0.3	2	---	910	---	SPH	20	*ND
MW-3		02/26/93	12.21	--	0.00	26.34	14.13	---	---	---	---	---	---	---	---	---	---
MW-3		03/24/93	12.36	--	0.00	26.34	13.98	28	0.7	1	8	---	3,300	---	SPH	28	**15
MW-3		04/27/93	12.70	--	0.00	26.34	13.64	---	---	---	---	---	---	---	---	---	---
MW-3		05/28/93	12.72	--	0.00	26.34	13.62	---	---	---	---	---	---	---	---	---	---
MW-3		06/21/93	12.87	--	0.00	26.34	13.47	21	5	2	19	---	**2,600	---	32,000	26	**5
MW-3		07/22/93	12.92	--	0.00	26.34	13.42	---	---	---	---	---	---	---	---	---	---

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

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)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TPH_g (µg/L)	TPH_d (µg/L)	TPH_o (µg/L)	TRPH (µg/L)	Dissolved Metals
MW-3		08/13/93	12.96	--	0.00	26.34	13.38	---	---	---	---	---	---	---	---	---	---
MW-3		09/16/93	13.05	13.01	0.04	26.34	13.32	SPH	SPH	SPH	SPH	---	SPH	---	SPH	SPH	SPH
MW-3		10/22/93	--	--	--	26.34	--	---	---	---	---	---	---	---	---	---	---
MW-3		11/03/93	13.24	13.13	0.11	26.34	13.19	---	---	---	---	---	---	---	---	---	---
MW-3		11/24/94	12.96	12.94	0.02	26.34	13.40	---	---	---	---	---	---	---	---	---	---
MW-3		12/01/93	12.73	12.71	0.02	26.34	13.63	SPH	SPH	SPH	SPH	---	SPH	---	SPH	SPH	SPH
MW-3		12/27/93	12.81	12.77	0.04	26.34	13.56	---	---	---	---	---	---	---	---	---	---
MW-3		01/05/94	12.87	12.85	0.02	26.34	13.49	---	---	---	---	---	---	---	---	---	---
MW-3		02/08/94	12.37	--	0.00	26.34	13.97	---	---	---	---	---	---	---	---	---	---
MW-3		03/09/94	12.53	--	0.00	26.34	13.81	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	---	---	---	---	---	---	---	---	---	---
MW-3		05/10/94	12.32	--	0.00	26.34	14.02	---	---	---	---	---	---	---	---	---	---
MW-3		06/30/94	12.86	12.84	0.02	26.34	13.50	SPH	SPH	SPH	SPH	---	SPH	---	SPH	SPH	SPH
MW-3		07/28/94	12.97	12.93	0.04	26.34	13.40	---	---	---	---	---	---	---	---	---	---
MW-3		08/31/94	13.07	13.04	0.03	26.34	13.29	---	---	---	---	---	---	---	---	---	---
MW-3		09/27/94	13.24	13.13	0.11	26.34	13.19	SPH	SPH	SPH	SPH	---	SPH	---	SPH	SPH	SPH
MW-3		10/28/94	13.52	13.30	0.22	26.34	13.00	---	---	---	---	---	---	---	---	---	---
MW-3		11/15/94	11.08	11.05	0.03	26.34	15.28	---	---	---	---	---	---	---	---	---	---
MW-3		12/01/94	11.92	11.90	0.02	26.34	14.44	SPH	SPH	SPH	SPH	---	SPH	---	SPH	SPH	SPH
MW-3		01/04/95	11.81	11.80	0.01	26.34	14.54	---	---	---	---	---	---	---	---	---	---
MW-3		02/01/95	12.02	12.00	0.02	26.34	14.34	---	---	---	---	---	---	---	---	---	---
MW-3		03/08/95	12.40	12.35	0.05	26.34	13.98	SPH	SPH	SPH	SPH	---	SPH	---	SPH	SPH	SPH
MW-3		04/03/95	12.13	12.09	0.04	26.34	14.24	---	---	---	---	---	---	---	---	---	---
MW-3		05/18/95	12.46	12.43	0.03	26.34	13.90	---	---	---	---	---	---	---	---	---	---
MW-3		06/09/95	12.62	12.60	0.02	26.34	13.74	SPH	SPH	SPH	SPH	---	SPH	---	SPH	SPH	SPH
MW-3		07/13/95	12.64	12.55	0.09	26.34	13.77	---	---	---	---	---	---	---	---	---	---
MW-3		08/03/95	12.67	12.64	0.03	26.34	13.69	---	---	---	---	---	---	---	---	---	---
MW-3		08/29/95	12.68	12.65	0.03	26.34	13.68	SPH	SPH	SPH	SPH	---	SPH	---	SPH	SPH	SPH
MW-3		09/15/95	13.14	13.00	0.14	26.34	13.31	---	---	---	---	---	---	---	---	---	---
MW-3		10/20/95	12.89	12.86	0.03	26.34	13.47	---	---	---	---	---	---	---	---	---	---
MW-3		11/15/95	12.88	12.81	0.07	26.34	13.52	SPH	SPH	SPH	SPH	---	SPH	---	SPH	SPH	SPH
MW-3		01/15/96	12.73	12.60	0.13	26.34	13.71	---	---	---	---	---	---	---	---	---	---
MW-3		03/05/96	11.72	11.68	0.04	26.34	14.65	SPH	SPH	SPH	SPH	---	SPH	---	SPH	SPH	SPH
MW-3		04/19/96	12.38	12.36	0.02	26.34	13.98	---	---	---	---	---	---	---	---	---	---
MW-3		05/10/96	11.95	11.93	0.02	26.34	14.41	---	---	---	---	---	---	---	---	---	---
MW-3		06/03/96	13.36	12.93	0.43	26.34	13.32	SPH	SPH	SPH	SPH	---	SPH	---	SPH	SPH	SPH
MW-3		09/04/96	12.65	12.60	0.05	26.34	13.73	SPH	SPH	SPH	SPH	---	SPH	---	SPH	SPH	SPH

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

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)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TPH_g (µg/L)	TPH_d (µg/L)	TPH_o (µg/L)	TRPH (µg/L)	Dissolved Metals
MW-3		12/02/96	12.14	12.11	0.03	26.34	14.22	SPH	SPH	SPH	SPH	---	SPH	---	SPH	SPH	SPH
MW-3		02/26/97	12.04	12.03	0.01	26.34	14.31	SPH	SPH	SPH	SPH	---	SPH	---	SPH	SPH	SPH
MW-3		06/09/97	12.43	12.39	0.04	26.34	13.94	SPH	SPH	SPH	SPH	SPH	SPH	---	SPH	SPH	SPH
MW-3		08/25/97	12.31	12.28	0.03	26.34	14.05	5	6	5	16	< 30	5,600	---	110,000	---	---
MW-3		11/28/97	12.16	12.13	0.03	26.34	14.20	SPH	SPH	SPH	SPH	SPH	SPH	---	SPH	SPH	SPH
MW-3		02/12/98	11.88	11.85	0.03	26.34	14.48	SPH	SPH	SPH	SPH	SPH	SPH	---	SPH	SPH	SPH
MW-3		05/20/98	12.54	12.51	0.03	26.34	13.82	SPH	SPH	SPH	SPH	SPH	SPH	---	SPH	SPH	SPH
MW-3		08/11/98	13.15	12.97	0.18	26.34	13.33	SPH	SPH	SPH	SPH	SPH	SPH	---	SPH	SPH	---
MW-3		11/10/98	12.57	12.54	0.03	26.34	13.79	SPH	SPH	SPH	SPH	SPH	SPH	---	SPH	SPH	SPH
MW-3		02/11/99	11.77	11.75	0.02	26.34	14.59	SPH	SPH	SPH	SPH	SPH	SPH	---	SPH	SPH	SPH
MW-3		05/11/99	12.52	--	0.00	26.34	13.82	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	< 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	SPH	SPH	SPH	SPH	SPH	SPH	---	SPH	SPH	SPH
MW-3		02/25/00	11.41	--	0.00	26.34	14.93	< 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	< 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	SPH	SPH	SPH	SPH	---	SPH	---	SPH	SPH	---
MW-3		11/07/00	12.18	--	0.00	26.34	14.16	< 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	< 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	< 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	< 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	< 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	< 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	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	870	1,026	< 2,000	---	---
MW-3	2	09/07/02	12.81	--	0.00	26.34	13.53	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	347	< 500	< 2,000	---	---
MW-3	2	12/11/02	12.43	--	0.00	26.34	13.91	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	876	< 500	< 2,000	---	---
MW-4		12/30/92	11.53	--	sheen	26.17	14.64	2	< 0.3	1	< 0.5	---	1,200	---	---	< 1	*ND
MW-4		02/26/93	11.35	--	0.00	26.17	14.82	---	---	---	---	---	---	---	---	---	---
MW-4		03/24/93	11.46	--	0.00	26.17	14.71	< 0.3	< 0.3	< 0.3	< 0.5	---	750	---	---	2	*7
MW-4		04/27/93	11.74	--	0.00	26.17	14.43	---	---	---	---	---	---	---	---	---	---
MW-4		05/28/93	11.77	--	0.00	26.17	14.40	---	---	---	---	---	---	---	---	---	---
MW-4		06/21/93	11.92	--	0.00	26.17	14.25	< 0.3	2	< 0.3	0.5	---	660	---	19,000	---	*ND
MW-4		07/22/93	11.95	--	0.00	26.17	14.22	---	---	---	---	---	---	---	---	---	---
MW-4		08/13/93	12.01	--	0.00	26.17	14.16	---	---	---	---	---	---	---	---	---	---
MW-4		09/16/93	12.08	--	0.00	26.17	14.09	0.3	< 0.3	2	3	---	410	---	2,500	---	*ND
MW-4		10/22/93	12.03	--	0.00	26.17	14.14	---	---	---	---	---	---	---	---	---	---
MW-4		11/03/93	12.10	--	0.00	26.17	14.07	---	---	---	---	---	---	---	---	---	---
MW-4		11/24/93	12.02	--	0.00	26.17	14.15	---	---	---	---	---	---	---	---	---	---

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

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)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TPH_g (µg/L)	TPH_d (µg/L)	TPH_o (µg/L)	TRPH (µg/L)	Dissolved Metals
MW-4		12/01/93	11.78	--	0.00	26.17	14.39	< 0.3	< 0.3	< 0.3	< 0.5	---	150	---	390	---	*ND
MW-4		12/27/93	11.80	--	0.00	26.17	14.37	---	---	---	---	---	---	---	---	---	---
MW-4		01/05/94	11.91	--	0.00	26.17	14.26	---	---	---	---	---	---	---	---	---	---
MW-4		02/08/94	11.85	--	0.00	26.17	14.32	---	---	---	---	---	---	---	---	---	---
MW-4		03/09/94	11.61	--	0.00	26.17	14.56	0.7	0.8	2	3.6	---	1,500	---	780	---	*ND
MW-4		04/01/94	11.73	--	0.00	26.17	14.44	---	---	---	---	---	---	---	---	---	---
MW-4		05/10/94	11.49	--	0.00	26.17	14.68	---	---	---	---	---	---	---	---	---	---
MW-4		06/30/94	11.90	--	0.00	26.17	14.27	< 0.3	1.7	0.5	1	---	450	---	130	---	ND
MW-4		07/28/94	11.97	--	0.00	26.17	14.20	---	---	---	---	---	---	---	---	---	---
MW-4		08/31/94	12.06	--	0.00	26.17	14.11	---	---	---	---	---	---	---	---	---	---
MW-4		09/27/94	12.11	--	0.00	26.17	14.06	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	---	---	---	---	---	---	---	---	---	---
MW-4		11/15/94	10.72	--	0.00	26.17	15.45	---	---	---	---	---	---	---	---	---	---
MW-4		12/01/94	11.37	--	0.00	26.17	14.80	0.6	0.5	0.3	0.8	---	290	---	580	---	< *5
MW-4		01/04/95	11.20	--	0.00	26.17	14.97	---	---	---	---	---	---	---	---	---	---
MW-4		02/01/95	11.16	--	0.00	26.17	15.01	---	---	---	---	---	---	---	---	---	---
MW-4		03/08/95	11.49	--	0.00	26.17	14.68	< 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	---	---	---	---	---	---	---	---	---	---
MW-4		05/08/95	11.56	--	0.00	26.17	14.61	---	---	---	---	---	---	---	---	---	---
MW-4		06/09/95	11.72	--	0.00	26.17	14.45	< 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	---	---	---	---	---	---	---	---	---	---
MW-4		08/31/95	11.81	--	0.00	26.17	14.36	---	---	---	---	---	---	---	---	---	---
MW-4		08/29/95	11.88	--	0.00	26.17	14.29	< 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	---	---	---	---	---	---	---	---	---	---
MW-4		10/20/95	12.00	--	0.00	26.17	14.17	---	---	---	---	---	---	---	---	---	---
MW-4		11/15/95	11.96	--	0.00	26.17	14.21	< 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	---	---	---	---	---	---	---	---	---	---
MW-4		03/05/96	11.02	--	0.00	26.17	15.15	< 0.5	< 1.0	< 1.0	< 2.0	---	< 100	---	590	---	*ND
MW-4		04/19/96	11.51	--	0.00	26.17	14.66	---	---	---	---	---	---	---	---	---	---
MW-4		05/10/96	11.74	--	0.00	26.17	14.43	---	---	---	---	---	---	---	---	---	---
MW-4		06/03/96	11.60	--	0.00	26.17	14.57	---	---	---	---	---	---	---	---	---	---
MW-4		06/04/96	---	--	---	26.17	---	< 0.5	< 1.0	< 1.0	< 2.0	---	< 100	---	860	---	ND
MW-4		09/04/96	11.85	--	0.00	26.17	14.32	< 0.5	< 1.0	< 1.0	< 2.0	---	< 100	---	600	---	---
MW-4		12/02/96	11.45	--	0.00	26.17	14.72	< 0.5	< 1.0	< 1.0	< 2.0	---	< 100	---	940	---	---
MW-4		02/26/97	11.42	--	0.00	26.17	14.75	< 0.5	< 1.0	< 1.0	< 2.0	---	< 100	---	390	---	---
MW-4		06/09/97	11.70	--	0.00	26.17	14.47	< 0.5	< 1.0	< 1.0	< 2.0	< 10	< 100	---	630	---	---
MW-4		08/25/97	11.63	--	0.00	26.17	14.54	< 0.5	< 0.5	< 0.5	< 2.0	< 5	< 50	---	< 200	---	---

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

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)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TPH_g (µg/L)	TPH_d (µg/L)	TPH_o (µg/L)	TRPH (µg/L)	Dissolved Metals
MW-4		11/28/97	11.27	--	0.00	26.17	14.90	3.6	3.9	3.7	12	< 5	120	---	< 200	---	---
MW-4		02/12/98	11.00	--	0.00	26.17	15.17	< 0.5	< 0.5	< 0.5	< 2.0	< 5	< 50	---	< 200	---	---
MW-4		05/20/98	11.62	--	0.00	26.17	14.55	< 0.5	< 0.5	< 0.5	< 2.0	< 5	< 50	---	300	---	---
MW-4		08/11/98	11.90	--	0.00	26.17	14.27	< 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	< 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	< 0.50	2.4	1.3	6.5	8.0	140	---	< 500	---	---
MW-4		05/11/99	11.66	--	0.00	26.17	14.51	< 0.5	< 0.5	< 0.5	< 0.5	< 2.0	< 50	---	330	---	---
MW-4		08/10/99	11.95	--	0.00	26.17	14.22	< 0.5	< 0.5	< 0.5	2.6	2.5	470	---	< 250	---	---
MW-4		10/26/99	11.40	--	0.00	26.17	14.77	< 0.5	< 0.5	< 0.5	< 0.5	3.5/2.2[1]	< 50	---	1,300	---	---
MW-4		02/25/00	10.75	--	0.00	26.17	15.42	< 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	< 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	< 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	< 0.5	< 0.5	< 0.5	< 0.5	2.9	< 50	---	< 100	---	---
MW-4		02/15/01	10.98	--	0.00	26.17	15.19	< 0.5/0.5[1]	< 0.5/0.5[1]	< 0.5/0.5[1]	< 0.5/0.5[1]	2.4	< 50	---	< 100	---	---
MW-4		04/26/01	11.35	--	0.00	26.17	14.82	< 0.5	< 0.5	< 0.5	< 0.5	2.8	< 50	---	< 100	---	---
MW-4		07/23/01	11.79	--	0.00	26.17	14.38	< 0.5/0.5[1]	< 0.5/0.5[1]	< 0.5/0.5[1]	< 0.5/0.5[1]	2.5	< 50	---	< 100	---	---
MW-4		11/01/01	11.77	--	0.00	26.17	14.40	< 0.5/0.5[1]	< 0.5/0.5[1]	< 0.5/0.5[1]	< 0.5/0.5[1]	3.3	< 50	---	< 100	---	---
MW-4	2	03/28/02	11.17	--	0.00	26.17	15.00	< 0.50	< 0.50	< 0.50	< 1.0	< 5.0	< 50	< 50	< 500	---	---
MW-4	2	06/06/02	11.29	--	0.00	26.17	14.88	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 50	< 500	< 2,000	---	---
MW-4	2	09/07/02	11.80	--	0.00	26.17	14.37	< 1.0	< 1.0	< 1.0	< 2.0	2.2	< 50	< 500	< 2,000	---	---
MW-4	2	12/11/02	11.60	--	0.00	26.17	14.57	< 1.0	< 1.0	< 1.0	< 2.0	2.2	< 50	< 500	< 2,000	---	---
MW-5		12/30/92	10.50	--	0.00	26.98	16.48	< 0.3	< 0.3	< 0.3	< 0.5	---	37	---	---	< 1	[b]5
MW-5		02/26/93	10.12	--	0.00	26.98	16.86	---	---	---	---	---	---	---	---	---	---
MW-5		03/24/93	10.31	--	0.00	26.98	16.67	< 0.3	< 0.3	< 0.3	0.5	---	19	---	---	2	*341
MW-5		04/27/93	10.75	--	0.00	26.98	16.23	---	---	---	---	---	---	---	---	---	---
MW-5		05/28/93	10.80	--	0.00	26.98	16.18	---	---	---	---	---	---	---	---	---	---
MW-5		06/21/93	10.94	--	0.00	26.98	16.04	< 0.3	< 0.3	< 0.3	< 0.5	---	< 10	---	< 100	---	[c]ND
MW-5		07/22/93	11.01	--	0.00	26.98	15.97	---	---	---	---	---	---	---	---	---	---
MW-5		08/13/93	11.07	--	0.00	26.98	15.91	---	---	---	---	---	---	---	---	---	---
MW-5		09/16/93	11.18	--	0.00	26.98	15.80	0.3	< 0.3	< 0.3	1	---	< 10	---	< 100	---	[c]ND
MW-5		10/22/93	11.19	--	0.00	26.98	15.79	---	---	---	---	---	---	---	---	---	---
MW-5		11/03/93	11.23	--	0.00	26.98	15.75	---	---	---	---	---	---	---	---	---	---
MW-5		11/24/93	12.00	--	0.00	26.98	14.98	---	---	---	---	---	---	---	---	---	---
MW-5		12/01/93	10.84	--	0.00	26.98	16.14	< 0.3	< 0.3	< 0.3	1	---	17	---	---	---	[c]ND
MW-5		12/27/93	10.81	--	0.00	26.98	16.17	---	---	---	---	---	---	---	---	---	---
MW-5		12/30/93	--	--	--	--	--	---	---	---	---	---	---	---	< 100	---	--
MW-5		01/05/94	10.96	--	0.00	26.98	16.02	---	---	---	---	---	---	---	---	---	---

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

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)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TPH_g (µg/L)	TPH_d (µg/L)	TPH_o (µg/L)	TRPH (µg/L)	Dissolved Metals
MW-5		02/08/94	10.94	--	0.00	26.98	16.04	---	---	---	---	---	---	---	---	---	---
MW-5		03/09/94	10.54	--	0.00	26.98	16.44	< 0.3	< 0.3	< 0.3	< 0.5	---	22	---	< 100	---	[c]ND
MW-5		04/01/94	10.77	--	0.00	26.98	16.21	---	---	---	---	---	---	---	---	---	---
MW-5		05/10/94	10.44	--	0.00	26.98	16.54	---	---	---	---	---	---	---	---	---	---
MW-5		06/30/94	10.88	--	0.00	26.98	16.10	< 0.3	< 0.3	< 0.3	< 0.5	---	< 10	---	< 100	---	ND
MW-5		07/28/94	10.98	--	0.00	26.98	16.00	---	---	---	---	---	---	---	---	---	---
MW-5		08/31/94	11.07	--	0.00	26.98	15.91	---	---	---	---	---	---	---	---	---	---
MW-5		09/27/94	11.12	--	0.00	26.98	15.86	0.5	0.4	< 0.3	< 0.5	---	< 10	---	560	---	ND
MW-5		10/28/94	11.21	--	0.00	26.98	15.77	---	---	---	---	---	---	---	---	---	---
MW-5		11/15/94	10.05	--	0.00	26.98	16.93	---	---	---	---	---	---	---	---	---	---
MW-5		12/01/94	10.39	--	0.00	26.98	16.59	< 0.3	< 0.3	< 0.3	< 0.5	---	< 10	---	< 250	---	ND
MW-5		01/04/95	10.18	--	0.00	26.98	16.80	---	---	---	---	---	---	---	---	---	---
MW-5		02/01/95	9.93	--	0.00	26.98	17.05	---	---	---	---	---	---	---	---	---	---
MW-5		03/08/95	10.35	--	0.00	26.98	16.63	< 0.3	< 0.3	< 0.3	< 0.5	---	< 10	---	< 250	---	ND
MW-5		04/03/95	10.15	--	0.00	26.98	16.83	---	---	---	---	---	---	---	---	---	---
MW-5		05/18/95	10.43	--	0.00	26.98	16.55	---	---	---	---	---	---	---	---	---	---
MW-5		06/09/95	10.62	--	0.00	26.98	16.36	< 0.3	< 0.3	< 0.3	< 0.5	---	< 50	---	< 250	---	[d]7
MW-5		07/13/95	10.76	--	0.00	26.98	16.22	---	---	---	---	---	---	---	---	---	---
MW-5		08/03/95	10.82	--	0.00	26.98	16.16	---	---	---	---	---	---	---	---	---	---
MW-5		08/29/95	10.91	--	0.00	26.98	16.07	< 0.3	< 0.3	< 0.3	< 0.5	---	< 50	---	< 250	---	[b]36
MW-5		09/15/95	11.00	--	0.00	26.98	15.98	---	---	---	---	---	---	---	---	---	---
MW-5		10/20/95	11.02	--	0.00	26.98	15.96	---	---	---	---	---	---	---	---	---	---
MW-5		11/15/95	11.95	--	0.00	26.98	15.03	< 0.5	< 0.5	< 0.5	< 0.5	---	< 50	---	< 200	---	ND
MW-5		01/15/96	10.57	--	0.00	26.98	16.41	---	---	---	---	---	---	---	---	---	---
MW-5		03/05/96	9.81	--	0.00	26.98	17.17	< 0.5	< 1.0	< 1.0	< 2.0	---	< 100	---	< 200	---	ND
MW-5		04/19/96	10.32	--	0.00	26.98	16.66	---	---	---	---	---	---	---	---	---	---
MW-5		05/10/96	10.56	--	0.00	26.98	16.42	---	---	---	---	---	---	---	---	---	---
MW-5		06/03/96	10.46	--	0.00	26.98	16.52	---	---	---	---	---	---	---	---	---	---
MW-5		09/04/96	10.86	--	0.00	26.98	16.12	< 0.5	< 1.0	< 1.0	< 2.0	---	< 100	---	310	---	---
MW-5		12/02/96	10.45	--	0.00	26.98	16.53	---	---	---	---	---	---	---	---	---	---
MW-5		02/26/97	10.38	--	0.00	26.98	16.60	< 0.5	< 1.0	< 1.0	< 2.0	---	< 100	---	< 200	---	---
MW-5		06/09/97	10.78	--	0.00	26.98	16.20	---	---	---	---	---	---	---	---	---	---
MW-5		08/25/97	10.69	--	0.00	26.98	16.29	< 0.5	< 0.5	< 0.5	< 2.0	< 5	< 50	---	< 200	---	---
MW-5		11/28/97	10.15	--	0.00	26.98	16.83	---	---	---	---	---	---	---	---	---	---
MW-5		02/12/98	9.55	--	0.00	26.98	17.43	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 50	---	< 200	---	---
MW-5		05/20/98	10.29	--	0.00	26.98	16.69	---	---	---	---	---	---	---	---	---	---
MW-5		08/11/98	10.67	--	0.00	26.98	16.31	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 50	---	< 500	---	---

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

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)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TPH_g (µg/L)	TPH_d (µg/L)	TPH_o (µg/L)	TRPH (µg/L)	Dissolved Metals
MW-5		11/10/98	10.59	--	0.00	26.98	16.39	---	---	---	---	---	---	---	---	---	---
MW-5		02/11/99	9.75	--	0.00	26.98	17.23	< 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	---	---	---	---	---	---	---	---	---	---
MW-5		08/10/99	10.77	--	0.00	26.98	16.21	< 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	---	---	---	---	---	---	---	---	---	---
MW-5		02/25/00	9.50	--	0.00	26.98	17.48	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 50	< 500	< 2000	---	---
MW-5	2	09/07/02	10.62	--	0.00	26.98	16.36	< 1.0	< 1.0	< 1.0	< 2.0	2.0	< 50	< 500	< 2000	---	---
MW-5	2	12/11/02	10.40	--	0.00	26.98	16.58	< 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	< 0.3	< 0.3	< 0.3	< 0.5	---	< 10	---	< 100	<1	[3]70
MW-6		01/05/94	11.39	--	0.00	24.32	12.93	---	---	---	---	---	---	---	---	---	---
MW-6		02/08/94	11.15	--	0.00	24.32	13.17	---	---	---	---	---	---	---	---	---	---
MW-6		03/09/94	10.97	--	0.00	24.32	13.35	< 0.3	< 0.3	< 0.3	< 0.5	---	15	---	< 100	---	[3]ND
MW-6		04/01/94	11.25	--	0.00	24.32	13.07	---	---	---	---	---	---	---	---	---	---
MW-6		05/10/94	10.78	--	0.00	24.32	13.54	---	---	---	---	---	---	---	---	---	---
MW-6		06/30/94	11.49	--	0.00	24.32	12.83	< 0.3	< 0.3	< 0.3	< 0.5	---	< 10	---	< 100	---	ND
MW-6		07/28/94	11.59	--	0.00	24.32	12.73	---	---	---	---	---	---	---	---	---	---
MW-6		08/31/94	11.56	--	0.00	24.32	12.76	---	---	---	---	---	---	---	---	---	---
MW-6		09/27/94	11.65	--	0.00	24.32	12.67	< 0.3	< 0.3	< 0.3	< 0.5	---	< 10	---	< 250	---	[4]8
MW-6		10/28/94	11.59	--	0.00	24.32	12.73	---	---	---	---	---	---	---	---	---	---
MW-6		11/15/94	10.24	--	0.00	24.32	14.08	---	---	---	---	---	---	---	---	---	---
MW-6		12/01/94	10.30	--	0.00	24.32	14.02	< 0.3	< 0.3	< 0.3	< 0.5	---	< 10	---	< 250	---	[5]32
MW-6		01/04/95	9.81	--	0.00	24.32	14.51	---	---	---	---	---	---	---	---	---	---
MW-6		02/01/95	10.01	--	0.00	24.32	14.31	---	---	---	---	---	---	---	---	---	---
MW-6		03/08/95	10.64	--	0.00	24.32	13.68	< 0.3	< 0.3	< 0.3	< 0.5	---	< 10	---	< 250	---	ND
MW-6		04/03/95	10.26	--	0.00	24.32	14.06	---	---	---	---	---	---	---	---		---
MW-6		05/18/95	10.81	--	0.00	24.32	13.51	---	---	---	---	---	---	---	---		---
MW-6		06/09/95	11.07	--	0.00	24.32	13.25	< 0.3	< 0.3	< 0.3	< 0.5	---	< 10	---	< 250	---	ND
MW-6		07/13/95	10.91	--	0.00	24.32	13.41	---	---	---	---	---	---	---	---		---

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

			GROUNDWATER LEVELS					LABORATORY ANALYTICAL RESULTS									
Well No.	Notes	Sample Period	Depth to Groundwater (ft bgs)	Depth to Product (ft bgs)	Stand Prod Thickness (ft)	Casing Elevation (ft MSL)	Groundwater Elevation (ft MSL)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TPH_g (µg/L)	TPH_d (µg/L)	TPH_o (µg/L)	TRPH (µg/L)	Dissolved Metals
MW-6		08/03/95	11.15	--	0.00	24.32	13.17	---	---	---	---	---	---	---	---	---	---
MW-6		08/29/95	11.09	--	0.00	24.32	13.23	< 0.3	< 0.3	< 0.3	< 0.5	---	> 50	---	< 250	---	[h]24
MW-6		09/15/95	11.35	--	0.00	24.32	12.97	---	---	---	---	---	---	---	---		---
MW-6		10/20/95	11.32	--	0.00	24.32	13.00	---	---	---	---	---	---	---	---		---
MW-6		11/15/95	11.20	--	0.00	24.32	13.12	< 0.5	< 0.5	< 0.5	< 0.5	---	< 50	---	< 200	---	[z]31
MW-6		01/15/96	10.83	--	0.00	24.32	13.49		---	---	---	---	---	---	---		---
MW-6		03/05/96	9.60	--	0.00	24.32	14.72	< 0.5	< 1.0	< 1.0	< 2.0	---	< 100	---	< 200	---	ND
MW-6		04/19/96	10.71	--	0.00	24.32	13.61	---	---	---	---	---	---	---	---		---
MW-6		05/10/96	11.05	--	0.00	24.32	13.27	---	---	---	---	---	---	---	---		---
MW-6		06/03/96	10.91	--	0.00	24.32	13.41	---	---	---	---	---	---	---	---	---	---
MW-6		09/04/96	10.84	--	0.00	24.32	13.48	< 0.5	< 1.0	< 1.0	< 2.0	---	< 100	---	230	---	---
MW-6		12/02/96	10.46	--	0.00	24.32	13.86	---	---	---	---	---	---	---	---	---	---
MW-6		02/26/97	10.46	--	0.00	24.32	13.86	< 0.5	< 1.0	< 1.0	< 2.0	---	< 100	---	< 200	---	---
MW-6		06/09/97	10.90	--	0.00	24.32	13.42	---	---	---	---	---	---	---	---	---	---
MW-6		08/25/97	10.84	--	0.00	24.32	13.48	< 0.5	1.1	< 0.5	< 2.0	< 5	< 50	---	< 200	---	---
MW-6		11/28/97	10.07	--	0.00	24.32	14.25	---	---	---	---	---	---	---	---	---	---
MW-6		02/12/98	9.39	--	0.00	24.32	14.93	< 0.5	< 0.5	< 0.5	< 2.0	< 5	< 50	---	< 200	---	---
MW-6		05/20/98	10.85	--	0.00	24.32	13.47	---	---	---	---	---	---	---	---	---	---
MW-6		08/11/98	11.21	--	0.00	24.32	13.11	< 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	---	---	---	---	---	---	---	---	---	---
MW-6		02/11/99	9.39	--	0.00	24.32	14.93	< 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	---	---	---	---	---	---	---	---	---	---
MW-6		08/10/99	11.28	--	0.00	24.32	13.04	< 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	---	---	---	---	---	---	---	---	---	---
MW-6		02/25/00	9.27	--	0.00	24.32	15.05	< 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	< 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	< 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	< 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	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	---	< 100	---	---
MW-6		07/23/01	11.00	--	0.00	24.32	13.32	< 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	< 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	---	---	---	---	---	---	---	---	---	---
MW-6	5	06/06/02	10.55	--	0.00	24.32	13.77	---	---	---	---	---	---	---	---	---	---
MW-6	2	09/07/02	11.10	--	0.00	24.32	13.22	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 50	< 500	< 2000	---	---
MW-6	5	12/11/02	10.95	--	0.00	24.32	13.37	---	---	---	---	---	---	---	---	---	---
MW-7		12/27/93	11.80	--	0.00	24.88	13.08	< 0.3	< 0.3	1	2	---	140	---	100	<1	[a]40

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

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)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TPH_g (µg/L)	TPH_d (µg/L)	TPH_o (µg/L)	TRPH (µg/L)	Dissolved Metals
MW-7		01/05/94	11.53	--	0.00	24.88	13.35	---	---	---	---	---	---	---	---	---	---
MW-7		02/08/94	11.90	--	0.00	24.88	12.98	---	---	---	---	---	---	---	---	---	---
MW-7		03/09/94	11.23	--	0.00	24.88	13.65	< 0.3	< 1.0	1.5	4.1	---	620	---	< 100	---	[a]ND
MW-7		04/01/94	11.34	--	0.00	24.88	13.54	---	---	---	---	---	---	---	---	---	---
MW-7		05/10/94	11.02	--	0.00	24.88	13.86	---	---	---	---	---	---	---	---	---	---
MW-7		06/30/94	11.49	--	0.00	24.88	13.39	< 0.3	< 0.3	< 0.3	< 0.5	---	33	---	< 100	---	ND
MW-7		07/28/94	11.58	--	0.00	24.88	13.30	---	---	---	---	---	---	---	---	---	---
MW-7		08/31/94	11.69	--	0.00	24.88	13.19	---	---	---	---	---	---	---	---	---	---
MW-7		09/27/94	11.73	--	0.00	24.88	13.15	< 0.3	< 0.3	0.4	0.7	---	52	---	< [a]250	---	ND
MW-7		10/28/94	11.77	--	0.00	24.88	13.11	---	---	---	---	---	---	---	---	---	---
MW-7		11/15/94	10.29	--	0.00	24.88	14.59	---	---	---	---	---	---	---	---	---	---
MW-7		12/01/94	10.89	--	0.00	24.88	13.99	< 0.3	< 0.3	< 0.3	1.1	---	< 10	---	< [a]250	---	[a]28
MW-7		01/04/95	10.77	--	0.00	24.88	14.11	---	---	---	---	---	---	---	---	---	---
MW-7		02/01/95	10.70	--	0.00	24.88	14.18	---	---	---	---	---	---	---	---	---	---
MW-7		03/08/95	11.05	--	0.00	24.88	13.83	< 0.3	< 0.3	< 0.3	< 0.5	---	< 10	---	< [a]250	---	ND
MW-7		04/03/95	10.88	--	0.00	24.88	14.00	---	---	---	---	---	---	---	---	---	---
MW-7		05/18/95	11.12	--	0.00	24.88	13.76	---	---	---	---	---	---	---	---	---	---
MW-7		06/09/95	11.25	--	0.00	24.88	13.63	< 0.3	< 0.3	< 0.3	< 0.5	---	< 50	---	< 250	---	ND
MW-7		07/13/95	11.15	--	0.00	24.88	13.73	---	---	---	---	---	---	---	---	---	---
MW-7		08/03/95	11.32	--	0.00	24.88	13.56	---	---	---	---	---	---	---	---	---	---
MW-7		08/29/95	11.53	--	0.00	24.88	13.35	< 0.3	< 0.3	< 0.3	< 0.5	---	< 50	---	< 250	---	[b]13
MW-7		09/15/95	11.65	--	0.00	24.88	13.23	---	---	---	---	---	---	---	---	---	---
MW-7		10/20/95	11.64	--	0.00	24.88	13.24	---	---	---	---	---	---	---	---	---	---
MW-7		11/15/95	11.60	--	0.00	24.88	13.28	< 0.5	< 0.5	< 0.5	< 0.5	---	< 50	---	< 200	---	ND
MW-7		01/15/96	11.07	--	0.00	24.88	13.81		---	---	---	---	---	---	---	---	---
MW-7		03/05/96	10.50	--	0.00	24.88	14.38	< 0.5	< 1.0	< 1.0	< 2.0	---	< 100	---	270	---	ND
MW-7		04/19/96	12.02	--	0.00	24.88	12.86	---	---	---	---	---	---	---	---	---	---
MW-7		05/10/96	11.14	--	0.00	24.88	13.74	---	---	---	---	---	---	---	---	---	---
MW-7		06/03/96	11.10	--	0.00	24.88	13.78	---	---	---	---	---	---	---	---	---	---
MW-7		09/04/96	11.45	--	0.00	24.88	13.43	< 0.5	< 1.0	< 1.0	< 2.0	---	< 100	---	< 200	---	--
MW-7		12/02/96	10.96	--	0.00	24.88	13.92	---	---	---	---	---	---	---	---	---	---
MW-7		02/26/97	11.02	--	0.00	24.88	13.86	< 0.5	< 1.0	< 1.0	< 2.0	---	< 100	---	< 200	---	---
MW-7		06/09/97	11.34	--	0.00	24.88	13.54	---	---	---	---	---	---	---	---	---	---
MW-7		08/25/97	11.25	--	0.00	24.88	13.63	< 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	---	---	---	---	---	---	---	---	---	---
MW-7		02/12/98	10.11	--	0.00	24.88	14.77	< 0.5	< 0.5	< 0.5	< 2.0	< 5	< 50	---	< 200	---	---
MW-7		05/20/98	11.20	--	0.00	24.88	13.68	---	---	---	---	---	---	---	---	---	---

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

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)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TPH_g (µg/L)	TPH_d (µg/L)	TPH_o (µg/L)	TRPH (µg/L)	Dissolved Metals
MW-7		08/11/98	11.55	--	0.00	24.88	13.33	< 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	---	---	---	---	---	---	---	---	---	---
MW-7		02/11/99	10.27	--	0.00	24.88	14.61	< 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	---	---	---	---	---	---	---	---	---	---
MW-7		08/10/99	11.65	--	0.00	24.88	13.23	< 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	---	---	---	---	---	---	---	---	---	---
MW-7		02/25/00	10.40	--	0.00	24.88	14.48	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	---	---	---	---	---	---	---	---	---	---
MW-7	5	06/06/02	10.97	--	0.00	24.88	13.91	---	---	---	---	---	---	---	---	---	---
MW-7	2	09/07/02	11.65	--	0.00	24.88	13.23	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 50	< 500	< 2000	---	---
MW-7	5	12/11/02	11.30	--	0.00	24.88	13.58	---	---	---	---	---	---	---	---	---	---
MW-8		12/27/93	12.45	--	0.00	26.12	13.67	0.4	4	0.4	1	---	390	---	< 100	< 1	[a]18
MW-8		01/05/94	12.57	--	0.00	26.12	13.55	---	---	---	---	---	---	---	---	---	---
MW-8		02/08/94	12.02	--	0.00	26.12	14.10	---	---	---	---	---	---	---	---	---	---
MW-8		03/09/94	12.22	--	0.00	26.12	13.90	0.6	0.8	0.5	1.5	---	420	---	< 100	---	[a]ND
MW-8		04/01/94	12.33	--	0.00	26.12	13.79	---	---	---	---	---	---	---	---	---	---
MW-8		05/10/94	12.00	--	0.00	26.12	14.12	---	---	---	---	---	---	---	---	---	---
MW-8		06/30/94	12.52	--	0.00	26.12	13.60	< 0.9	< 0.3	< 0.3	1.1	---	250	---	< 100	---	ND
MW-8		07/28/94	12.61	--	0.00	26.12	13.51	---	---	---	---	---	---	---	---	---	---
MW-8		08/31/94	12.72	--	0.00	26.12	13.40	---	---	---	---	---	---	---	---	---	---
MW-8		09/27/94	12.80	--	0.00	26.12	13.32	< 0.3	< 0.3	< 0.3	< 0.5	---	210	---	< [c]250	---	[d]9
MW-8		10/28/94	12.84	--	0.00	26.12	13.28	---	---	---	---	---	---	---	---	---	---
MW-8		11/15/94	11.72	--	0.00	26.12	14.40	---	---	---	---	---	---	---	---	---	---
MW-8		12/01/94	11.87	--	0.00	26.12	14.25	5.4	< 0.3	0.7	1.3	---	230	---	< [c]250	---	[c]ND
MW-8		01/04/95	11.75	--	0.00	26.12	14.37	---	---	---	---	---	---	---	---	---	---
MW-8		02/01/95	11.64	--	0.00	26.12	14.48	---	---	---	---	---	---	---	---	---	---
MW-8		03/08/95	12.04	--	0.00	26.12	14.08	< 0.3	< 0.3	< 0.3	< 0.5	---	230	---	< [c]250	---	ND
MW-8		04/03/95	11.86	--	0.00	26.12	14.26	---	---	---	---	---	---	---	---	---	---
MW-8		05/18/95	12.11	--	0.00	26.12	14.01	---	---	---	---	---	---	---	---	---	---
MW-8		06/09/95	12.34	--	0.00	26.12	13.78	< 0.3	< 0.3	< 0.3	< 0.5	---	< 50	---	< [c]250	---	ND

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

			GROUNDWATER LEVELS					LABORATORY ANALYTICAL RESULTS									
Well No.	Notes	Sample Period	Depth to Groundwater (ft bgs)	Depth to Product (ft bgs)	Stand Prod Thickness (ft)	Casing Elevation (ft MSL)	Groundwater Elevation (ft MSL)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TPH_g (µg/L)	TPH_d (µg/L)	TPH_o (µg/L)	TRPH (µg/L)	Dissolved Metals
MW-8		07/13/95	12.37	--	0.00	26.12	13.75	---	---	---	---	---	---	---	---	---	---
MW-8		08/03/95	12.50	--	0.00	26.12	13.62	---	---	---	---	---	---	---	---	---	---
MW-8		08/29/95	12.55	--	0.00	26.12	13.57	0.9	0.4	< 0.3	0.8	---	200	---	< [a]250	---	[b]15
MW-8		09/15/95	12.70	--	0.00	26.12	13.42	---	---	---	---	---	---	---	---	---	---
MW-8		10/20/95	12.69	--	0.00	26.12	13.43	---	---	---	---	---	---	---	---	---	---
MW-8		11/15/95	12.67	--	0.00	26.12	13.45	0.58	< 0.5	< 0.5	0.54	---	120	---	---	---	[a]21
MW-8		12/11/95	11.80	--	0.00	26.12	14.32	---	---	---	---	---	---	---	---	---	---
MW-8		01/15/96	12.38	--	0.00	26.12	13.74	---	---	---	---	---	---	---	---	---	---
MW-8		03/05/96	11.44	--	0.00	26.12	14.68	0.6	< 1.0	< 1.0	< 2.0	---	< 100	---	< [a]200	---	ND
MW-8		04/19/96	10.80	--	0.00	26.12	15.32	---	---	---	---	---	---	---	---	---	---
MW-8		05/10/96	12.40	--	0.00	26.12	13.72	---	---	---	---	---	---	---	---	---	---
MW-8		06/03/96	12.26	--	0.00	26.12	13.86	< 0.5	< 1.0	< 1.0	< 2.0	---	100	---	---	---	---
MW-8		09/04/96	12.51	--	0.00	26.12	13.61	< 0.5	< 1.0	< 1.0	< 2.0	---	110	---	< 200	---	---
MW-8		12/02/96	11.99	--	0.00	26.12	14.13	< 0.5	< 1.0	< 1.0	< 2.0	---	110	---	< 200	---	---
MW-8		02/26/97	11.98	--	0.00	26.12	14.14	< 0.5	< 1.0	< 1.0	< 2.0	---	< 100	---	< 200	---	---
MW-8		06/09/97	12.36	--	0.00	26.12	13.76	< 0.5	< 1.0	< 1.0	< 2.0	< 10	110	---	< 200	---	---
MW-8		08/25/97	12.25	--	0.00	26.12	13.87	< 0.5	< 0.5	< 0.5	< 2.0	< 5	70	---	< 200	---	---
MW-8		11/28/97	11.70	--	0.00	26.12	14.42	< 0.5	< 0.5	< 0.5	< 2.0	< 5	110	---	< 200	---	---
MW-8		02/12/98	11.34	--	0.00	26.12	14.78	< 0.5	< 0.5	0.6	< 2.0	< 5	70	---	< 200	---	---
MW-8		05/20/98	12.21	--	0.00	26.12	13.91	< 0.5	< 0.5	< 0.5	< 2.0	< 5	< 50	---	< 200	---	---
MW-8		08/11/98	12.60	--	0.00	26.12	13.52	< 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	< 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	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	59	---	< 500	---	---
MW-8		05/11/99	12.29	--	0.00	26.12	13.83	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 2.0	72	---	< 250	---	---
MW-8		10/26/99	12.85	--	0.00	26.12	13.27	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	63	---	< 250	---	---
MW-8		02/25/00	11.20	--	0.00	26.12	14.92	< 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	< 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	< 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	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	---	< 100	---	---
MW-8		02/15/01	11.40	--	0.00	26.12	14.72	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	---	< 100	---	---
MW-8		04/26/01	11.93	--	0.00	26.12	14.19	< 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	< 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	< 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	---	---	---	---	---	---	---	---	---	---
MW-8	5	06/06/02	11.86	--	0.00	26.12	14.26	---	---	---	---	---	---	---	---	---	---
MW-8	2	09/07/02	12.61	--	0.00	26.12	13.51	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 50	< 500	< 2000	---	---

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

			GROUNDWATER LEVELS					LABORATORY ANALYTICAL RESULTS									
Well No.	Notes	Sample Period	Depth to Groundwater (ft bgs)	Depth to Product (ft bgs)	Stand Prod Thickness (ft)	Casing Elevation (ft MSL)	Groundwater Elevation (ft MSL)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TPH_g (µg/L)	TPH_d (µg/L)	TPH_o (µg/L)	TRPH (µg/L)	Dissolved Metals
MW-8	5	12/11/02	12.30	--	0.00	26.12	13.82	----	---	---	---	---	---	---	---	---	---
MW-9		12/02/96	11.52	--	--	--	--	< 0.5	< 1.0	< 1.0	< 2.0	---	210	---	250	---	---
MW-9		02/26/97	11.55	--	--	--	--	< 0.5	< 1.0	< 1.0	< 2.0	---	170	---	340	---	---
MW-9		06/09/97	11.91	--	--	--	--	0.8	< 1.0	< 1.0	< 2.0	< 10	130	---	350	---	---
MW-9		08/25/97	11.80	--	--	--	--	< 0.5	0.8	< 0.5	< 2.0	< 5	110	---	< 200	---	---
MW-9		11/28/97	11.15	--	--	--	--	< 0.5	0.5	0.9	< 2.0	< 5	150	---	< 200	---	---
MW-9		02/12/98	10.63	--	--	--	--	< 0.5	< 0.5	< 0.5	< 2.0	< 5	60	---	< 200	---	---
MW-9		05/20/98	11.73	--	--	--	--	< 0.5	< 0.5	0.9	< 2.0	< 5	130	---	< 200	---	---
MW-9		08/11/98	12.15	--	--	--	--	< 0.5	< 0.5	< 0.5	0.76	< 2.5	240	---	< 500	---	---
MW-9		11/10/98	11.81	--	--	--	--	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	220	---	< 250	---	---
MW-9		02/11/99	10.66	--	--	--	--	< 0.50	< 0.50	< 0.50	< 0.50	3.5	52	---	< 500	---	---
MW-9		05/11/99	11.69	--	--	--	--	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	102	< 500	< 2000	---	---
MW-9	2	09/07/02	12.29	--	0.00	25.03	12.74	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	117	< 500	< 2000	---	---
MW-9	2	12/11/02	12.06	--	0.00	25.03	12.97	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	123	< 500	< 2000	---	---
EW-1		09/04/96	--	--	--	--	--	< 0.5	< 1.0	< 1.0	< 2.0	---	1,100	---	1,700	---	---
EW-1		12/02/96	12.17	--	--	--	--	6.2	< 1.0	< 1.0	< 2.0	---	1,000	---	1,400	---	---
EW-1		02/26/97	12.13	--	--	--	--	12	< 1.0	< 1.0	< 2.1	---	1,200	---	2,100	---	---
EW-1		06/09/97	12.46	--	--	--	--	83	< 1.0	< 1.0	< 2.0	13	1,400	---	12,000	---	---
EW-1		08/25/97	12.35	--	--	--	--	7.5	0.9	0.9	2	12	1,400	---	15,000	---	---
EW-1		11/28/97	12.12	--	--	--	--	4.5	1.1	1.1	4	5.0	560	---	5,700	---	---
EW-1		02/12/98	11.83	--	--	--	--	9.8	0.6	1.2	2	30	1,000	---	6,300	---	---
EW-1		05/20/98	12.51	--	--	--	--	7.2	< 0.5	< 0.5	< 2.0	26	820	---	6,200	---	---
EW-1		08/11/98	12.85	--	--	--	--	2.6	< 0.5	< 0.5	0.86	8.7	320	---	5,400	---	---
EW-1		11/10/98	12.55	--	--	--	--	< 0.50	< 0.50	< 0.50	0.75	13	820	---	2,900	---	---
EW-1		02/11/99	11.66	--	--	--	--	4.0	< 0.50	0.51	0.94	14	720	---	1,300	---	---

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

			GROUNDWATER LEVELS					LABORATORY ANALYTICAL RESULTS									
Well No.	Notes	Sample Period	Depth to Groundwater (ft bgs)	Depth to Product (ft bgs)	Stand Prod Thickness (ft)	Casing Elevation (ft MSL)	Groundwater Elevation (ft MSL)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TPH_g (µg/L)	TPH_d (µg/L)	TPH_o (µg/L)	TRPH (µg/L)	Dissolved Metals
EW-1		05/11/99	12.56	--	--	--	--	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 0.5/0.5[1]	< 0.5/0.5[1]	< 0.5/0.5[1]	< 0.5/0.5[1]	2.3	1,600	---	6,600	---	---
EW-1		07/23/01	12.59	--	0.00	26.80	14.21	< 0.5	< 0.5	< 0.5	< 0.5	1.8	930	---	15,000	---	---
EW-1		11/01/01	12.74	--	0.00	26.80	14.06	< 0.5	< 0.5	< 0.5	< 0.5	1.7	1200	---	6,000	---	---
EW-1	2	03/28/02	11.85	--	0.00	26.80	14.95	< 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	< 0.50	< 0.50	< 0.50	< 1.0	< 5.0	800	510	< 500	---	---
EW-1	2	06/06/02	12.09	--	0.00	26.80	14.71	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	1,040	< 500	< 2,000	---	---
EW-1	2	09/07/02	12.63	--	0.00	26.80	14.17	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	1,050	< 500	< 2,000	---	---
EW-1	2,3	09/07/02	12.63	--	0.00	26.80	14.17	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	942	< 500	< 2,000	---	---
EW-1	2	12/11/02	12.57	--	0.00	26.80	14.23	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	1040	< 500	< 2,000	---	---
EW-1	2,3	12/11/02	12.57	--	0.00	26.80	14.23	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	1100	< 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 hyrocarbons
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 concentratio---
** = 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
BTEX = Volatile aromatic constituents Benzene, Toluene, Ethylbenzene, and Xylenes by EPA Method 8020/8021B or 8260B
TPHg = Total Petroleum Hydrocarbons as gasoline range hydrocarbons by EPA Method 8015 (modified)
TPHd = Total Petroleum Hydrocarbonsas diesel range hydrocarbons by EPA Method 8015 (modified).
TRPo = 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
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

APPENDIX B

LABORATORY REPORTS AND CHAIN OF CUSTODY DOCUMENTATION

Southland Technical Services, Inc.
Environmental Laboratories

12-20-2002

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

Project: 29863494.02034/Sears Oakland 1058B
Project Site: 2600 Telegraph Ave., Oakland, CA
Sample Date: 12-11-2002
Lab Job No.: UR212100

Dear Mr. Rowlands:

Enclosed please find the analytical report for the sample(s) received by STS Environmental Laboratories on 12-13-2002 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,

Roger Wang, Ph. D.
Laboratory Director

Enclosures

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

7801 Telegraph Road Suite L. Montebello, CA 90640 Phone: (323) 888-0728 Fax: (323) 888-1509

Southland Technical Services, Inc.
Environmental Laboratories

12-20-2002

Client:	URS Corporation	Lab Job No.:	UR212100
Project:	29863494.02034/Sears Oakland 1058B		
Project Site:	2600 Telegraph Ave., Oakland, CA	Date Sampled	12-11-2002
Matrix:	Water	Date Received:	12-13-2002
Batch No.:	AI17-GW1/for Gasoline	Date Analyzed:	12-17-2002
Batch No.:	EL13-DW1/for Diesel & Oil	Date Analyzed:	12-13-2002

EPA 8015M (Gasoline, Diesel & Oil)
Reporting Unit: µg/L (ppb)

Date of Analysis for TPH (Gasoline)			12-17-02	12-17-02	12-17-02	12-17-02	12-17-02
Preparation Method for TPH (Gasoline)			5030	5030	5030	5030	5030
Date of Analysis for TPH (D & O)			12-13-02	12-13-02	12-13-02	12-13-02	12-13-02
Date of Extraction for TPH (D & O)			12-13-02	12-13-02	12-13-02	12-13-02	12-13-02
Preparation Method for TPH (D & O)			3510C	3510C	3510C	3510C	3510C
LAB SAMPLE I.D.				UR212100-1	UR212100-2	UR212100-3	UR212100-4
CLIENT SAMPLE I.D.				MW-1	MW-3	MW-4	MW-5
Analyte		**MDL**	**MB**				
TPH-Gasoline (C4 - C12)		50	ND	ND	876	ND	ND
TPH-Diesel (C13 - C23)		500	ND	ND	ND	ND	ND
TPH-Oil (C24 - C40)		2000	ND	ND	ND	ND	ND
Surrogate	Spk Conc.	ACP%	MB %RC	%RC	%RC	%RC	%RC
BFB (for TPH-Gasoline)	20 ppb	70-130	102	107	122	118	107
Diocthyl Phthalate (for TPH-D & O)	5 ppm	70-130	122	122	122	130	122

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.

7801 Telegraph Road Suite L, Montebello, CA 90640 Phone: (323) 888-0728 Fax: (323) 888-1509

Southland Technical Services, Inc.

Environmental Laboratories

12-20-2002

Client:	URS Corporation	Lab Job No.:	UR212100
Project:	29863494.02034/Sears Oakland 1058B		
Project Site:	2600 Telegraph Ave., Oakland, CA	Date Sampled	12-11-2002
Matrix:	Water	Date Received:	12-13-2002
Batch No.:	AL17-GW1/for Gasoline	Date Analyzed:	12-17-2002
Batch No.:	El13-DW1/for Diesel & Oil	Date Analyzed:	12-13-2002

EPA 8015M (Gasoline, Diesel & Oil)
Reporting Unit: µg/L (ppb)

Date of Analysis for TPH (Gasoline)			12-17-02	12-17-02	12-17-02	12-17-02	12-17-02
Preparation Method for TPH (Gasoline)			5030	5030	5030	5030	5030
Date of Analysis for TPH (D & O)			12-13-02	12-13-02	12-13-02	12-13-02	
Date of Extraction for TPH (D & O)			12-13-02	12-13-02	12-13-02	12-13-02	
Preparation Method for TPH (D & O)			3510C	3510C	3510C	3510C	
LAB SAMPLE I.D.			UR212100-5	UR212100-6	UR212100-7	UR212100-8	UR212100-9
CLIENT SAMPLE I.D.			MW-9	EB-1	BD-1	EW-1	TB-1
Analyte		**MDL**					
TPH-Gasoline (C4 - C12)		50	123	ND	1,100	1,040	ND
TPH-Diesel (C13 - C23)		500	ND	ND	ND	ND	NA
TPH-Oil (C24 - C40)		2000	ND	ND	ND	ND	NA
Surrogate	Spk Conc.	ACP%	%RC	%RC	%RC	%RC	%RC
BFB (for TPH-Gasoline)	20 ppb	70-130	121	111	118	122	122
Diocthyl Phthalate (for TPH-D & O)	5 ppm	70-130	122	122	126	130	

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.

7801 Telegraph Road Suite L, Montebello, CA 90640 Phone: (323) 888-0728 Fax: (323) 888-1509

Southland Technical Services, Inc.
Environmental Laboratories

Client: URS Corporation
Project: 29863494.02034/Sears Oakland 1058B

Lab Job No.: UR212100
Matrix: Water

Date Reported: 12-20-2002
Date Sampled: 12-11-2002

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

Date ANALYZED		12-17-02	12-17-02	12-17-02	12-17-02	12-17-02	12-17-02	
PREPARATION METHOD		5030	5030	5030	5030	5030	5030	
DILUTION FACTOR		1	1	1	1	1	1	
LAB SAMPLE I.D.			UR212100-1	UR212100-2	UR212100-3	UR212100-4	UR212100-5	
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	

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Southland Technical Services, Inc.
Environmental Laboratories

Client: URS Corporation
Project: 29863494.02034/Sears Oakland 1058B

Lab Job No.: UR212100
Matrix: Water

Date Reported: 12-20-2002
Date Sampled: 12-11-2002

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	5.2	
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	12	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	101	89	90	90	89	89	79-126
Toluene-d8	25	93	99	93	103	91	101	79-121
Bromofluoro-benzene	25	94	91	94	90	92	99	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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Southland Technical Services, Inc.
Environmental Laboratories

Client: URS Corporation
Project: 29863494.02034/Sears Oakland 1058B

Lab Job No.: UR212100
Matrix: Water

Date Reported: 12-20-2002
Date Sampled: 12-11-2002

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

Date ANALYZED		12-17-02	12-17-02	12-17-02	12-17-02	12-17-02		
PREPARATION METHOD		5030	5030	5030	5030	5030		
DILUTION FACTOR		1	1	1	1	1		
LAB SAMPLE I.D.			UR212100-6	UR212100-7	UR212100-8	UR212100-9		
CLIENT SAMPLE I.D.			EB-1	DB-1	EW-1	TB-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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Southland Technical Services, Inc.
Environmental Laboratories

Client: URS Corporation | Lab Job No.: UR212100 | Date Reported: 12-20-2002
Project: 29863494.02034/Sears Oakland 1058B | Matrix: Water | Date Sampled: 12-11-2002

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

COMPOUND	MDL	MB	EB-1	DB-1	EW-1	TB-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	6.5	5.7	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	33	31	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	101	88	87	91	91		79-126
Toluene-d8	25	93	97	96	93	99		79-121
Bromofluoro-benzene	25	94	94	93	106	90		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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Southland Technical Services, Inc.
Environmental Laboratories

12-20-2002

EPA 8015M (TPH)
Batch QA/QC Report

Client: URS Corporation
Project: 29863494.02034/Sears Oakland 1058B
Matrix: Water
Batch No.: EL14-DW1

Lab Job No.: UR212100
Lab Sample ID: ST21214-1
Date Analyzed: 12-14-2002

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	24.3	24.1	121.5	120.5	0.8	30	70-130

II. LCS Result
Unit: ppm

Analyte	LCS Report Value	True Value	Rec.%	%Rec Accept. Limit
TPH-d	23.9	20	119.5	80-120

ND: Not Detected (at the specified limit).

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Southland Technical Services, Inc.
Environmental Laboratories

12-20-2002

EPA 8015M (TPH)
Batch QA/QC Report

Client: URS Corporation
Project: 29863494.02034/Sears Oakland 1058B
Matrix: Water
Batch No.: AL17-GW1

Lab Job No.: UR212100
Lab Sample ID: UR212100-3
Date Analyzed: 12-17-2002

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	903	772	90.3	77.2	15.6	30	70-130

II. LCS Result
Unit: ppb

Analyte	LCS Report Value	True Value	Rec.%	%Rec Accept. Limit
TPH-G	966	1000	96.6	80-120

ND: Not Detected (at the specified limit).

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Southland Technical Services, Inc.
Environmental Laboratories

12-20-2002

EPA 8260B
Batch QA/QC Report

Client: URS Corporation
Project: 29863494.02034/Sears Oakland 1058B
Matrix: Water
Batch No: 1217-VOAW

Lab Job No.: UR212100
Lab Sample ID: UR212100-1
Date Analyzed: 12-17-2002

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	18.4	20.1	92.0	100.5	8.8	30	70-130
Benzene	ND	20	19.3	22.0	96.5	110.0	13.1	30	70-130
Trichloro-ethene	ND	20	19.6	20.9	98.0	104.5	6.4	30	70-130
Toluene	ND	20	21.8	21.7	109.0	108.5	0.5	30	70-130
Chlorobenzene	ND	20	17.7	20.5	88.5	102.5	14.7	30	70-130

II. LCS Result
Unit: ppb

Analyte	LCS Value	True Value	Rec.%	Accept. Limit
1,1-Dichloroethene	18.7	20.0	93.5	80-120
Benzene	21.8	20.0	109.0	80-120
Trichloro-ethene	22.6	20.0	113.0	80-120
Toluene	22.3	20.0	111.5	80-120
Chlorobenzene	21.9	20.0	109.5	80-120

ND: Not Detected.

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URS CORPORATION

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

CHAIN OF CUSTODY RECORD

Date: 12/11/02

Page 1 of 2

UR212100

☐ Data Requested in GISKey Format

Lab Name: STS Inc.

URS Project/PO Number: 29863494.02034

Client Name/Project Name/Location: Sears/2600 Telegraph Ave. Oakland

GeoTracker Information:

URS Project Manager: Scott Rowlands

EDF Reporting: Y N Global ID:

Sampler Name and Signature: Nathan Starr

COELT Log Number:

	Sample Name:	Sample Date:	Sample Time:	Preserved:	Matrix:	Container Type:	# of Cont.:	Requested Analyses: TPHg 8015M	TPHd 8015M	TPHo 8015M	VOCs 8260B	HOLD	Special Instructions:
1	MW-4	12-11-02	0820	Y N HCl	S W G	Acetate SS. Brass Jar Encore ml Amb. Plas. Glass VOA	3	X		X	X		UR212100-3
2	MW-4	12-11-02	0820	Y N	S W G	Acetate SS. Brass Jar Encore ml Amb. Plas. Glass VOA 1L	1		X	X			3
3	MW-5	12-11-02	0900	Y N HCl	S W G	Acetate SS. Brass Jar Encore ml Amb. Plas. Glass VOA	3	X		X	X		4
4	MW-5	12-11-02	0900	Y N	S W G	Acetate SS. Brass Jar Encore ml Amb. Plas. Glass VOA 1L	1		X	X			4
5	MW-9	12-11-02	0935	Y N HCl	S W G	Acetate SS. Brass Jar Encore ml Amb. Plas. Glass VOA	3	X		X	X		5
6	MW-9	12-11-02	0935	Y N	S W G	Acetate SS. Brass Jar Encore ml Amb. Plas. Glass VOA 1L	1		X	X			5
7	MW-1	12-11-02	1015	Y N HCl	S W G	Acetate SS. Brass Jar Encore ml Amb. Plas. Glass VOA	3	X		X	X		6 -1
8	MW-1	12-11-02	1015	Y N	S W G	Acetate SS. Brass Jar Encore ml Amb. Plas. Glass VOA 1L	1		X	X			-1
9	EB-1	12-11-02	1030	Y N HCl	S W G	Acetate SS. Brass Jar Encore ml Amb. Plas. Glass VOA	3	X		X	X		6
10	EB-1	12-11-02	1030	Y N	S W G	Acetate SS. Brass Jar Encore ml Amb. Plas. Glass VOA 1L	1		X	X			6

Relinquished by:	Date:	Received By:	Date/Time:
[signature]	12/11/02	[signature] STS	12/13/02 900 Am
Relinquished by:	Date:	Received By:	Date/Time:
Relinquished by:	Date:	Received By:	Date/Time:

Turnaround Time: (Check)

Same Day: ____ 72 Hour: ____

24 Hour: ____ 5 Day: ____

48 Hour: ____ Standard: ✓

Lab Use Only

Cooler Temperature*: 4°C

*Record upon arrival

URS

S=Solid L=Liquid G= Gas

White Copy in Final Report, Yellow to File, Pink to URS at Dropoff

URS CORPORATION

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

CHAIN OF CUSTODY RECORD

Date: 12/11/02

UR212100

☐ Data Requested in GISKey Format

Lab Name: STS	URS Project/PO Number: 29863494.02034
Client Name/Project Name/Location: Sears/2600 Telegraph Oakland	GeoTracker Information:
URS Project Manager: Scott Rowland	EDF Reporting: Y N Global ID:
Sampler Name and Signature: Nathan Starr	COELT Log Number:

	Sample Name:	Sample Date:	Sample Time:	Preserved:	Matrix:	Container Type:	# of Cont.:	Requested Analyses: TPH-G/BTEX	TPH-D w/ SGRM	VOCs/8260D	HOLD	Special Instructions:
1	BD-1		1100	Y N HCl	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass VOA		X		X		UR212100-7
2	BD-1		1100	Y N	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass VOA 1L			X			-7
3	EW-1		1120	Y N HCl	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass VOA		X		X		-8
4	EW-1		1120	Y N	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass VOA 1L			X			-8
5	MW-3		1200	Y N HCl	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass VOA		X		X		-2
6	MW-3		1200	Y N	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass VOA 1L			X			-2
7	TB-1			Y N	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass VOA				X		-9
8				Y N	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass VOA						
9				Y N	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass VOA						
10				Y N	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass VOA						

Relinquished by:	Date: 12/11/02	Received By: STS.	Date/Time: 12-12-02 900A
Relinquished by:	Date:	Received By:	Date/Time:
Relinquished by:	Date:	Received By:	Date/Time:

Turnaround Time: (Check)

Same Day:____ 72 Hour:____
24 Hour:____ 5 Day:____
48 Hour:____ Standard: ✓

Lab Use Only

Cooler Temperature*: 4°C
*Record upon arrival

URS

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: Groundwater
LAB PROJECT #: UR212100
SAMPLES: See table below

Field ID	QC Designations	Lab ID	TPH-Gasoline	TPH-Diesel, TPH-Oil	VOCs (including Fuel Oxygenates)
MW-4		UR212100-3	X	X	X
MW-5		UR212100-4	X	X	X
MW-9		UR212100-5	X	X	X
MW-1		UR212100-1	X	X	X
EB-1	Equipment blank	UR212100-6	X	X	X
BD-1	Field duplicate of EW-1	UR212100-7	X	X	X
EW-1		UR212100-8	X	X	X
MW-3		UR212100-2	X	X	X
TB-1	Trip blank	UR212100-9	X		X

Date Sampled: 12/11/02
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, Environmental Laboratory Accreditation Program (ELAP 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	✓	✓	✓
Laboratory Control Sample	✓	✓	✓
Matrix Spike	✓(1)	✓(2)	✓(3)
Duplicate or Spike Duplicate	✓(1)	✓(2)	✓(3)
Field Duplicate	✓	✓	✓
Trip Blank	✓	NA	✓
Equipment Blank	✓	✓	✓

✓ = Quality control evaluation criteria met.
NA = Not Applicable or Not Analyzed

Notes:
1. MS/MSD was conducted on sample MW-4. The results were within acceptance criterion.
2. 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.
3. MS/MSD was conducted on sample MW-1. 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 (μg /L).

Samples did not require dilution for the requested analyses.