



ENVIRONMENTAL
PROTECTION

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IT Corporation

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A Member of The IT Group

September 30, 1999

STID
1082

Mr. Amir Gholami
Hazardous Materials Specialist
Alameda County, Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Subject: Third Quarter 1999, Groundwater Monitoring and Sampling Report
Former Sears Auto Center No. 1058, 2600 Telegraph Avenue, Oakland, California
IT Corporation Project 1176603

Dear Mr. Gholami:

On behalf of Sears, Roebuck and Co., IT Corporation presents the quarterly groundwater monitoring data collected on August 10, 1999, from the above referenced site. The ten groundwater monitoring wells were gauged to determine depth to groundwater and to check for the presence of separate-phase petroleum hydrocarbons. **Separate-phase hydrocarbons were detected in monitoring well MW-3 only.** A potentiometric surface map is provided in attachment 1, figure 1. Groundwater elevation data from well MW-3 was considered anomalous and was not used in drawing the contours shown on the potentiometric surface map. A historical summary of groundwater monitoring data is provided in attachment 2, table 1.

After measuring depth to water, **nine of the ten monitoring wells were purged and sampled.** Well MW-2 was not sampled due to the presence of a car parked over this well on the sampling date and the following day. Groundwater monitoring and sample collection protocol, and field data sheets are provided in attachment 3. The groundwater samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX), and methyl tert-butyl ether (MTBE) using Environmental Protection Agency (EPA) Method 8020; MTBE and other oxygenates using EPA Method 8260; total petroleum hydrocarbons as gasoline (TPH-g) using EPA Method 8015 modified; and total extractable petroleum hydrocarbons as motor oil (TPH-mo) using EPA Method 8015 modified (GC/FID).

Static groundwater levels for the third quarter 1999 ranged from 12.36 to 16.21 feet above mean sea level (an average of 12.04 feet below top of casing). Groundwater elevations have decreased by approximately 0.5 foot since second quarter 1999 (May 11, 1999). The apparent groundwater flow is to the south at an average hydraulic gradient of 0.017 foot per foot, and is consistent with previous quarterly data.

Analytical results indicated benzene was not detected in the groundwater samples. Low concentrations of benzene had been detected in well MW-3 during the second quarter 1999. MTBE was detected at a low concentration in well MW-5 only when analyzed using EPA Method 8020.


MTBE was detected slightly above the reporting limit of 2 micrograms per liter ($\mu\text{g/L}$) in monitoring wells MW-3, MW-4, MW-5, and EW-1 using EPA Method 8260. Monitoring wells MW-1, MW-3, MW-8, MW-9, and EW-1 contained dissolved TPH-g. Monitoring wells MW-3 and EW-1 contained TPH-mo at concentrations of 54,000 $\mu\text{g/L}$ and 1,100 $\mu\text{g/L}$, respectively. Separate-phase hydrocarbons were measured in monitoring well MW-3. Current and previous analyses for dissolved hydrocarbons in MW-3 indicate that the product in this well is predominantly motor oil. A summary of the groundwater analytical results is provided in attachment 2, table 2. A distribution map of dissolved benzene, TPH-g, TPH-mo, and MTBE concentrations is provided in attachment 1, figure 2. Hydrograph and detectable concentration versus time data are illustrated in graphs 1 through 10 (attachment 4). Hydrocarbon concentrations below detection limits are not shown on the graphs. Laboratory reports and chain-of-custody documents are provided in attachment 5.

Historical monitoring data indicate that the thickness of separate-phase hydrocarbons in MW-3 has averaged less than 0.05 foot, and the lateral extent of the product is limited to the vicinity of MW-3; therefore, the volume of separate-phase hydrocarbons at the site is estimated to be small, less than 5 gallons.


In order to address the separate-phase hydrocarbons issue, an IT Corporation field technician visited the site to conduct product bailing and to monitor well recovery after bailing. The purpose of the bailing program was to determine the amount of separate-phase hydrocarbons in groundwater (specifically in MW-3) and the recovery rate after product bailing/removal. The findings of this interim action are provided under separate cover. Additional bailing activities may be conducted following a review of the data from the initial bailing program.

If you have any comments or questions, please contact me at (925) 370-3990 extension 266.

Sincerely,
IT CORPORATION
Submitted by:


Melissa Gossell
West Zone Project Manager

IT CORPORATION
Approved by:

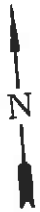

Ed K. Simonis, R.G.
Senior Geologist



Attachments:

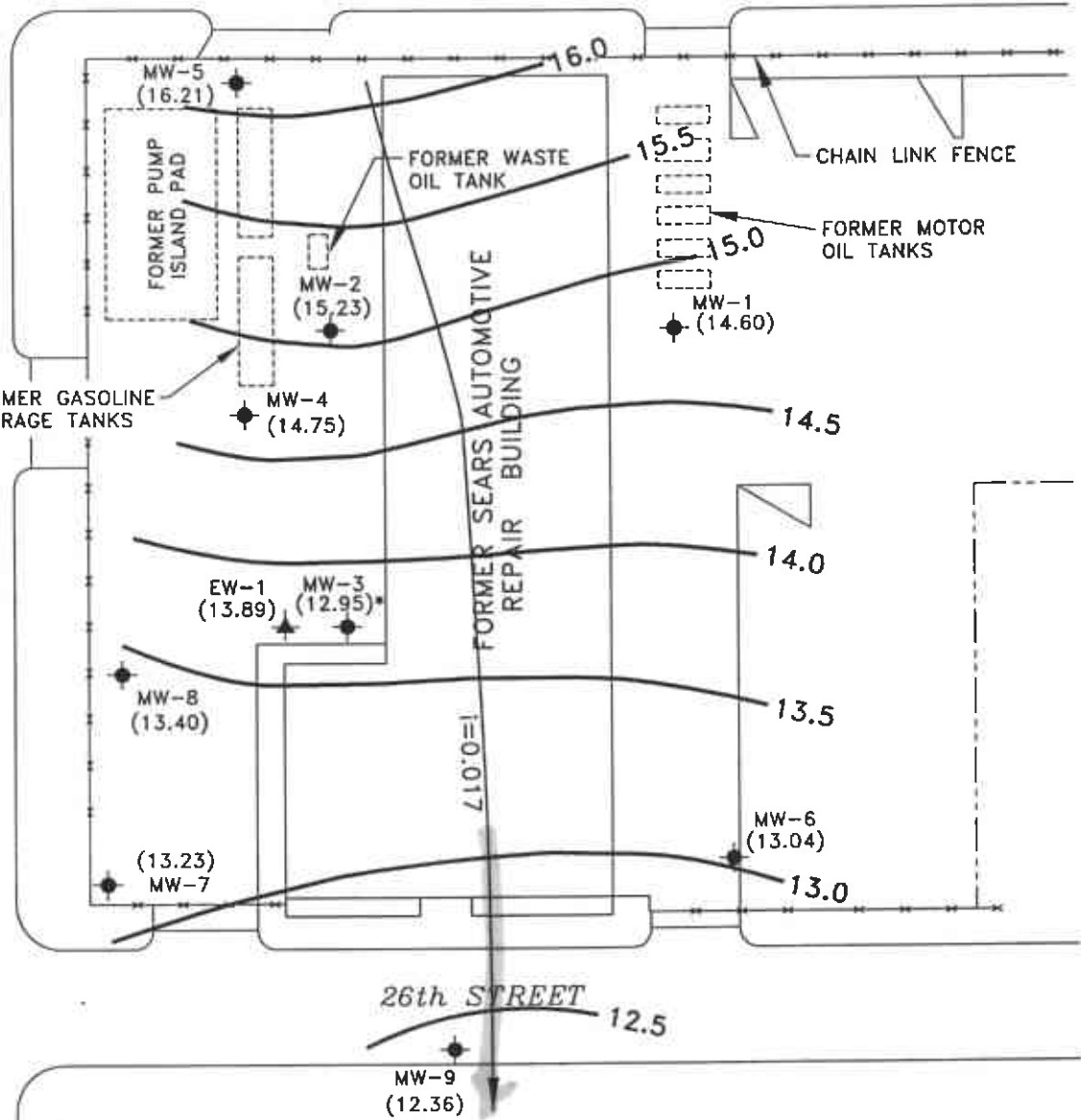
1. Figures
2. Tables
3. Groundwater Monitoring and Sample Collection Protocol and Field Data Sheets
4. Graphs
5. Laboratory Reports and Chain-of-Custody Documents

c: Scott M. DeMuth, Sears, Roebuck and Co.
Mr. Russ Zora, IT Corporation, Central Files
Project File



27th STREET

TELEGRAPH AVENUE



LEGEND

- MONITORING WELL
- EXTRACTION WELL
- POTENTIOMETRIC SURFACE ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- ANOMALOUS DATA
- POTENTIOMETRIC SURFACE CONTOUR; INTERVAL = 0.5 ft
- GROUNDWATER FLOW DIRECTION AND AVERAGE GRADIENT



IT CORPORATION



**POTENTIOMETRIC SURFACE MAP
(GAUGED 8/10/99)**

CLIENT:
SEARS, ROEBUCK AND CO.
SITE NO. 1058

FILE: PSM0899 (1:40)
REV.

PROJECT NO.:
1176603

PM: *HJ*
PE/RG: *ES*

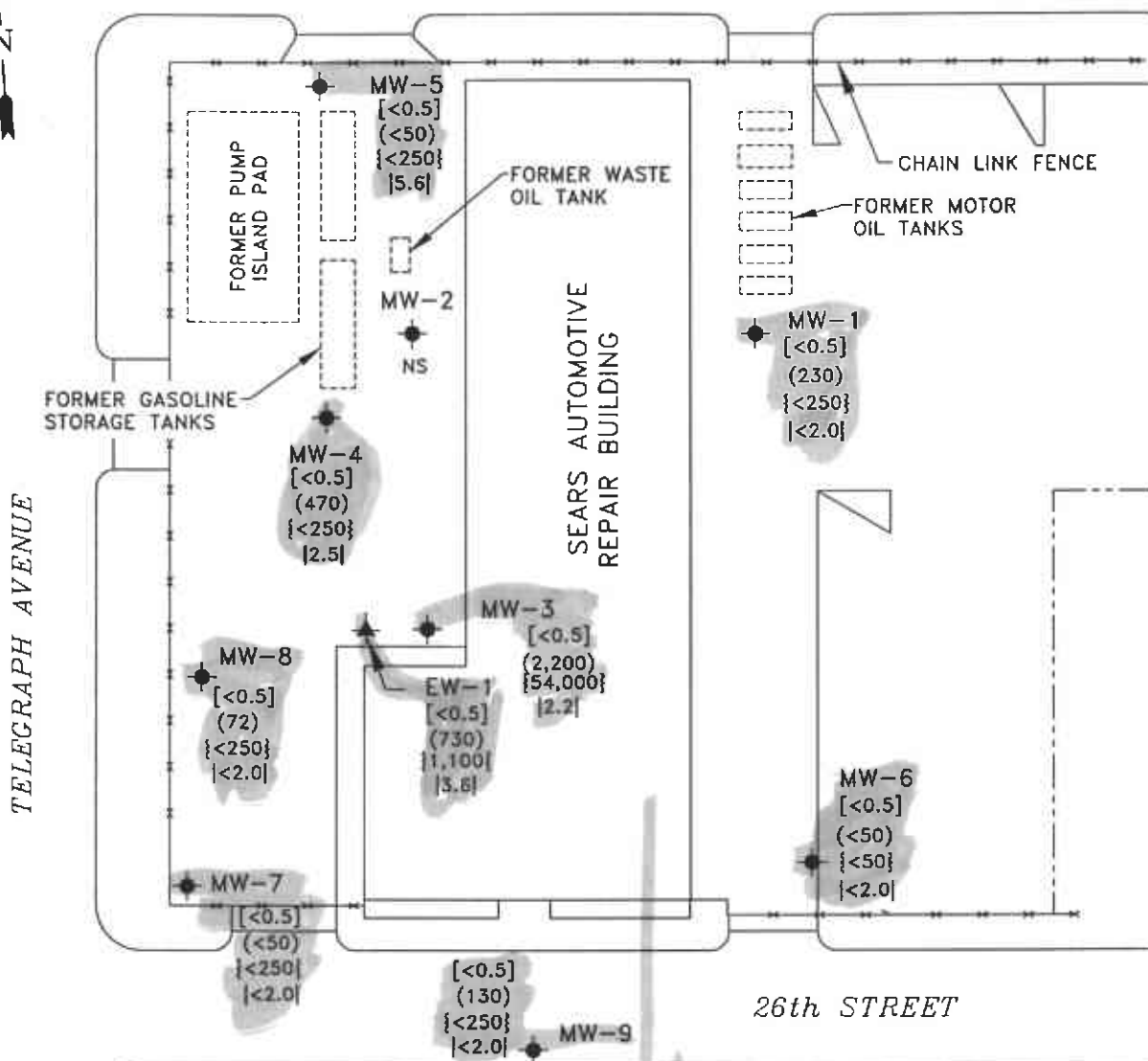
LOCATION:
2600 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA

DES. DG DET. DL DATE: 10/1/99

FIGURE:

1

27th STREET



LEGEND

- MONITORING WELL
- ▲ EXTRACTION WELL
- [] BENZENE CONCENTRATIONS [ug/l]
- () TPH-AS-GASOLINE (ug/l)
- { } TPH-AS-MOTOR OIL {ug/l}
- | | METHYL TERT-BUTYL ETHER (MTBE) |ug/L|
- NS NOT SAMPLED

GW



IT CORPORATION



CONCENTRATIONS OF BENZENE, TPH-AS GASOLINE, TPH-AS-MOTOR OIL & MTBE IN GROUNDWATER SAMPLED (8/99)

CLIENT: SEARS, ROEBUCK AND CO. SITE NO. 1058	FILE: BENNO899	PROJECT NO.: 1176603	PM	PE/RG <i>EIS</i>
	REV.	FIGURE: 2		
LOCATION: 2600 TELEGRAPH AVENUE OAKLAND, CALIFORNIA	DES. DG	DET. DL	DATE: 10/1/99	

TABLE 1
Summary of Historical Groundwater Monitoring Data
 (All measurements are in feet; all elevations are in feet above mean sea level)

Sears Store 1058
 2633 Telegraph Avenue, Oakland, California

Well ID	Casing Elevation	Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elevation	
MW-1	26.20	12/30/92	10.60	--	--	15.60	
		02/26/93	10.14	--	--	16.06	
		03/24/93	10.48	--	--	15.72	
		04/27/93	11.30	--	--	14.90	
		05/28/93	11.43	--	--	14.77	
		06/21/93	11.71	--	--	14.49	
		07/22/93	11.87	--	--	14.33	
		08/13/93	11.94	--	--	14.26	
		09/16/93	12.05	--	--	14.15	
		10/22/93	12.00	--	--	14.20	
		11/03/93	12.10	--	--	14.10	
		11/24/93	11.97	--	--	14.23	
		12/01/93	11.46	--	--	14.74	
		12/27/93	11.58	--	--	14.62	
		01/05/94	11.69	--	--	NM	
		02/08/94	11.87	--	--	14.33	
		03/09/94	11.08	--	--	15.12	
		04/01/94	11.47	--	--	14.73	
		05/10/94	10.77	--	--	15.43	
		06/30/94	11.82	--	--	14.38	
		07/28/94	11.90	--	--	14.30	
		08/31/94	11.94	--	--	14.26	
		09/27/94	12.04	--	--	14.16	
		10/28/94	12.06	--	--	14.14	
		11/15/94	10.02	--	--	16.18	
		12/01/94	10.61	--	--	15.59	
		01/04/95	9.93	--	--	16.27	
		02/01/95	9.56	--	--	16.64	
		03/08/95	10.51	--	--	15.69	
		04/03/95	NM	--	NM	NA	NA
		05/18/95	10.80	--	--	15.40	
		06/09/95	11.18	--	--	15.02	
		07/13/95	11.27	--	--	14.93	
		08/03/95	11.48	--	--	14.72	
		08/29/95	11.56	--	--	14.64	
		09/15/95	11.71	--	--	14.49	
		10/20/95	11.80	--	--	14.40	
		11/15/95	11.61	--	--	14.59	
		01/15/96	11.21	--	--	14.99	
		03/05/96	9.35	--	--	16.85	
04/19/96	10.60	--	--	15.60			
05/10/96	11.18	--	--	15.02			
06/03/96	10.90	--	--	15.30			
09/04/96	11.31	--	--	14.89			
12/02/96	10.61	--	--	15.59			
02/26/97	10.31	--	--	15.89			
06/09/97	11.25	--	--	14.95			
08/25/97	11.15	--	--	15.05			
11/28/97	10.07	--	--	16.13			
02/12/98	8.70	--	--	17.50			

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 (All measurements are in feet; all elevations are in feet above mean sea level)

Sears Store 1058
 2633 Telegraph Avenue, Oakland, California

Well ID	Casing Elevation	Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elevation
MW-1 (cont'd)		05/20/98	10.89	--	--	15.31
		08/11/98	11.60	--	--	14.60
		11/10/98	11.10	--	--	15.10
		02/11/99	9.40	--	--	16.80
		05/11/99	11.05	--	--	15.15
		08/10/99	11.66	--	--	14.60
MW-2	26.50	12/30/92	10.65			15.85
		02/26/93	10.56			15.94
		03/24/93	10.52			15.98
		04/27/93	11.17	--	--	15.33
		05/28/93	11.12	--	--	15.38
		06/21/93	11.41	--	--	15.09
		07/22/93	11.50	--	--	15.00
		08/13/93	11.54	--	--	14.96
		09/16/93	11.62	--	--	14.88
		10/22/93	11.57	--	--	14.93
		11/03/93	11.65	--	--	14.85
		11/24/93	11.52	--	--	14.98
		12/01/93	11.08	--	--	15.42
		12/27/93	11.27	--	--	15.23
		01/05/94	11.39	--	--	15.11
		02/08/94	11.49	--	--	15.01
		03/09/94	11.06	--	--	15.44
		04/01/94	11.25	--	--	15.25
		05/10/94	10.83	--	--	15.67
		06/30/94	11.44	--	--	15.06
		07/28/94	11.48	--	--	15.02
		08/31/94	11.56	--	--	14.94
		09/27/94	11.61	--	--	14.89
		10/28/94	11.65	--	--	14.85
		11/15/94	9.65	--	--	16.85
		12/01/94	10.71	--	--	15.79
		01/04/95	10.11	--	--	16.39
		02/01/95	10.38	--	--	16.12
		03/08/95	10.80	--	--	15.70
		04/03/95	10.61	--	--	15.89
		05/18/95	10.95	--	--	15.55
06/09/95	11.13	--	--	15.37		
07/13/95	11.15	--	--	15.35		
08/03/95	11.26	--	--	15.24		
08/29/95	11.32	--	--	15.18		
09/15/95	11.42	--	--	15.08		
10/20/95	11.42	--	--	15.08		
11/15/95	11.37	--	--	15.13		
01/15/96	11.10	--	--	15.40		
03/05/96	10.24	--	--	16.26		
04/19/96	10.84	--	--	15.66		
05/10/96	11.13	--	--	15.37		
06/03/96	10.94	--	--	15.56		
09/04/96	11.24	--	--	15.26		
12/02/96	10.80	--	--	15.70		

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 (All measurements are in feet; all elevations are in feet above mean sea level)

Sears Store 1058
 2633 Telegraph Avenue, Oakland, California

Well ID	Casing Elevation	Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elevation
MW-2 (cont'd)		02/26/97	10.70	—	—	15.80
		06/09/97	11.10	—	—	15.40
		08/25/97	11.05	—	—	15.45
		11/28/97	10.59	—	—	15.91
		02/12/98	10.04	—	—	16.46
		05/20/98	10.84	—	—	15.66
		08/11/98	11.56	—	—	14.94
		11/10/98	11.02	—	—	15.48
		02/11/99	10.17	—	—	16.33
		05/11/99	10.96	—	—	15.54
		08/10/99	11.27	—	—	15.23
MW-3	26.34	12/30/92	12.43	—	—	13.91
		02/26/93	12.21	—	—	14.13
		03/24/93	12.36	—	—	13.98
		04/27/93	12.70	—	—	13.64
		05/28/93	12.72	—	—	13.62
		06/21/93	12.87	—	—	13.47
		07/22/93	12.92	—	—	13.42
		08/13/93	12.96	—	—	13.38
		09/16/93	13.01	12.97	0.04	13.33
		10/22/93	NM	12.96	NA	NA
		11/03/93	13.13	13.02	0.11	13.21
		11/24/93	12.94	12.92	0.02	13.40
		12/01/93	12.71	12.69	0.02	13.63
		12/27/93	12.77	12.73	0.04	13.57
		01/05/94	12.85	12.83	0.02	13.49
		02/08/94	12.37	—	—	13.97
		03/09/94	12.53	—	—	13.81
		04/01/94	12.64	—	—	13.70
		05/10/94	12.32	—	—	14.02
		06/30/94	12.84	12.82	0.02	13.50
		07/28/94	12.93	12.89	0.04	13.41
		08/31/94	13.04	13.01	0.03	13.30
		09/27/94	13.13	13.02	0.11	13.21
		10/28/94	13.30	13.08	0.22	13.04
		11/15/94	11.05	11.02	0.03	15.29
		12/01/94	11.90	11.88	0.02	14.44
		01/04/95	11.80	11.76	0.01	14.54
		02/01/95	12.00	11.98	0.02	14.34
		03/08/95	12.35	12.30	0.05	13.99
		04/03/95	12.09	12.05	0.04	14.25
		05/18/95	12.43	12.40	0.03	13.91
06/09/95	12.60	12.58	0.02	13.74		
07/13/95	12.55	12.46	0.09	13.79		
08/03/95	12.64	12.61	0.03	13.70		
08/29/95	12.65	12.62	0.03	13.69		
09/15/95	13.00	12.86	0.14	13.34		
10/20/95	12.86	12.03	0.03	13.48		
11/15/95	12.81	12.74	0.07	13.53		
01/15/96	12.60	12.47	0.13	13.74		
03/05/96	11.68	11.64	0.04	14.66		

TABLE 1
Summary of Historical Groundwater Monitoring Data
 (All measurements are in feet; all elevations are in feet above mean sea level)

Sears Store 1058
 2633 Telegraph Avenue, Oakland, California

Well ID	Casing Elevation	Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elevation
MW-3 (cont'd)		04/19/96	12.36	12.34	0.02	13.98
		05/10/96	11.93	11.91	0.02	14.41
		06/03/96	12.93	12.50	0.43	13.41
		09/04/96	12.60	12.55	0.05	13.74
		12/02/96	12.11	12.00	0.03	14.23
		02/26/97	12.03	12.02	0.01	14.31
		06/09/97	12.39	12.35	0.04	13.95
		08/25/97	12.28	12.25	0.03	14.06
		11/28/97	12.13	12.10	0.03	14.21
		02/12/98	11.85	11.82	0.03	14.49
		05/20/98	12.51	12.48	0.03	13.83
		08/11/98	12.97	12.79	0.18	13.37
		11/10/98	12.54	12.51	0.03	13.80
		02/11/99	11.75	11.73	0.02	14.59
		05/11/99	12.52	-	-	13.82
		08/10/99	13.50	13.36	0.14	12.95
MW-4	26.17	12/30/92	11.53	-	Sheen	14.64
		02/26/93	11.35	-	-	14.82
		03/24/93	11.46	-	-	14.71
		04/27/93	11.74	-	-	14.43
		05/28/93	11.77	-	-	14.40
		06/21/93	11.92	-	-	14.25
		07/22/93	11.95	-	-	14.22
		08/13/93	12.01	-	-	14.16
		09/16/93	12.08	-	-	14.09
		10/22/93	12.03	-	-	14.14
		11/03/93	12.10	-	-	14.07
		11/24/93	12.02	-	-	14.15
		12/01/93	11.78	-	-	14.39
		12/27/93	11.80	-	-	14.37
		01/05/94	11.91	-	-	14.26
		02/08/94	11.85	-	-	14.32
		03/09/94	11.61	-	-	14.56
		04/01/94	11.73	-	-	14.44
		05/10/94	11.49	-	-	14.68
		06/30/94	11.90	-	-	14.27
		07/28/94	11.97	-	-	14.20
		08/31/94	12.06	-	-	14.11
		09/27/94	12.11	-	-	14.06
		10/28/94	12.18	-	-	13.99
		11/15/94	10.72	-	-	15.45
		12/01/94	11.37	-	-	14.80
		01/04/95	11.20	-	-	14.97
		02/01/95	11.16	-	-	15.01
		03/08/95	11.49	-	-	14.68
		04/03/95	11.35	-	-	14.82
05/18/95	11.56	-	-	14.61		
06/09/95	11.72	-	-	14.45		
07/13/95	11.72	-	-	14.45		
08/03/95	11.81	-	-	14.36		
08/29/95	11.88	-	-	14.29		

TABLE 1
Summary of Historical Groundwater Monitoring Data
 (All measurements are in feet; all elevations are in feet above mean sea level)

Sears Store 1058
 2633 Telegraph Avenue, Oakland, California

Well ID	Casing Elevation	Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elevation
MW-4 (cont'd)		09/15/95	11.99	-	-	14.18
		10/20/95	12.00	-	-	14.17
		11/15/95	11.96	-	-	14.21
		01/15/96	11.71	-	-	14.46
		03/05/96	11.02	-	-	15.15
		04/19/96	11.51	-	-	14.66
		05/10/96	11.74	-	-	14.43
		06/03/96	11.60	-	-	14.57
		09/04/96	11.85	-	-	14.32
		12/02/96	11.45	-	-	14.72
		02/26/97	11.42	-	-	14.75
		06/09/97	11.70	-	-	14.47
		08/25/97	11.63	-	-	14.54
		11/28/97	11.27	-	-	14.90
		02/12/98	11.00	-	-	15.17
		05/20/98	11.62	-	-	14.55
		08/11/98	11.90	-	-	14.27
		11/10/98	11.65	-	-	14.52
02/11/99	10.87	-	-	15.30		
05/11/99	11.66	-	-	14.51		
08/10/99	11.95	-	-	14.75		
MW-5	26.98	12/30/92	10.50	-	-	16.48
		02/26/93	10.12	-	-	16.86
		03/24/93	10.31	-	-	16.67
		04/27/93	10.75	-	-	16.23
		05/28/93	10.80	-	-	16.18
		06/21/93	10.94	-	-	16.04
		07/22/93	11.01	-	-	15.97
		08/13/93	11.07	-	-	15.91
		09/16/93	11.18	-	-	15.80
		10/22/93	11.19	-	-	15.79
		11/03/93	11.23	-	-	15.75
		11/24/93	12.00	-	-	14.98
		12/01/93	10.84	-	-	16.14
		12/27/93	10.81	-	-	16.17
		01/05/94	10.96	-	-	16.02
		02/08/94	10.94	-	-	16.04
		03/09/94	10.54	-	-	16.44
		04/01/94	10.77	-	-	16.21
		05/10/94	10.44	-	-	16.54
		06/30/94	10.88	-	-	16.10
		07/28/94	10.98	-	-	16.00
		08/31/94	11.07	-	-	15.91
		09/27/94	11.12	-	-	15.86
		10/28/94	11.21	-	-	15.77
11/15/94	10.05	-	-	16.93		
12/01/94	10.39	-	-	16.59		
01/04/95	10.18	-	-	16.80		
02/01/95	9.93	-	-	17.05		
03/08/95	10.35	-	-	16.63		
04/03/95	10.15	-	-	16.83		

TABLE 1
Summary of Historical Groundwater Monitoring Data
 (All measurements are in feet; all elevations are in feet above mean sea level)

Sears Store 1058
 2633 Telegraph Avenue, Oakland, California

Well ID	Casing Elevation	Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elevation
MW-5 (cont'd)		05/18/95	10.43	-	-	16.55
		06/09/95	10.62	-	-	16.36
		07/13/95	10.76	-	-	16.22
		08/03/95	10.82	-	-	16.16
		08/29/95	10.91	-	-	16.07
		09/15/95	11.00	-	-	15.98
		10/20/95	11.02	-	-	15.96
		11/15/95	11.95	-	-	15.03
		01/15/96	10.57	-	-	16.41
		03/05/96	9.81	-	-	17.17
		04/19/96	10.32	-	-	16.66
		05/10/96	10.56	-	-	16.42
		06/03/96	10.46	-	-	16.52
		09/04/96	10.86	-	-	16.12
		12/02/96	10.45	-	-	16.53
		02/26/97	10.38	-	-	16.60
		06/09/97	10.78	-	-	16.20
		08/25/97	10.69	-	-	16.29
		11/28/97	10.15	-	-	16.83
		02/12/98	9.55	-	-	17.43
05/20/98	10.29	-	-	16.69		
08/11/98	10.67	-	-	16.31		
11/10/98	10.59	-	-	16.39		
02/11/99	9.75	-	-	17.23		
05/11/99	10.38	-	-	16.60		
08/10/99	10.77	-	-	16.21		
MW-6	24.32	12/27/93	11.24	-	-	13.08
		01/05/94	11.39	-	-	12.93
		02/08/94	11.15	-	-	13.17
		03/09/94	10.97	-	-	13.35
		04/01/94	11.25	-	-	13.07
		05/10/94	10.78	-	-	13.54
		06/30/94	11.49	-	-	12.83
		07/28/94	11.59	-	-	12.73
		08/31/94	11.56	-	-	12.76
		09/27/94	11.65	-	-	12.67
		10/28/94	11.59	-	-	12.73
		11/15/94	10.24	-	-	14.08
		12/01/94	10.30	-	-	14.02
		01/04/95	9.81	-	-	14.51
		02/01/95	10.01	-	-	14.31
		03/08/95	10.64	-	-	13.68
		04/03/95	10.26	-	-	14.06
		05/18/95	10.81	-	-	13.51
		06/09/95	11.07	-	-	13.25
		07/13/95	10.91	-	-	13.41
08/03/95	11.15	-	-	13.17		
08/29/95	11.09	-	-	13.23		
09/15/95	11.35	-	-	12.97		
10/20/95	11.32	-	-	13.00		
11/15/95	11.20	-	-	13.12		

TABLE 1
Summary of Historical Groundwater Monitoring Data
 (All measurements are in feet; all elevations are in feet above mean sea level)

Sears Store 1058
 2633 Telegraph Avenue, Oakland, California

Well ID	Casing Elevation	Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elevation
MW-6 (cont'd)		01/15/96	10.83	—	—	13.49
		03/05/96	9.60	—	—	14.72
		04/19/96	10.71	—	—	13.61
		05/10/96	11.05	—	—	13.27
		06/03/96	10.91	—	—	13.41
		09/04/96	10.84	—	—	13.48
		12/02/96	10.46	—	—	13.86
		02/26/97	10.46	—	—	13.86
		06/09/97	10.90	—	—	13.42
		08/25/97	10.84	—	—	13.48
		11/28/97	10.07	—	—	14.25
		02/12/98	9.39	—	—	14.93
		05/20/98	10.85	—	—	13.47
		08/11/98	11.21	—	—	13.11
		11/10/98	10.82	—	—	13.50
02/11/99	9.39	—	—	14.93		
05/11/99	10.84	—	—	13.48		
08/10/99	11.28	—	—	13.04		
MW-7	24.88	12/27/93	11.80	—	—	13.08
		01/05/94	11.53	—	—	13.35
		02/08/94	11.90	—	—	12.98
		03/09/94	11.23	—	—	13.65
		04/01/94	11.34	—	—	13.54
		05/10/94	11.02	—	—	13.86
		06/30/94	11.49	—	—	13.39
		07/28/94	11.58	—	—	13.30
		08/31/94	11.69	—	—	13.19
		09/27/94	11.73	—	—	13.15
		10/28/94	11.77	—	—	13.11
		11/15/94	10.29	—	—	14.59
		12/01/94	10.89	—	—	13.99
		01/04/95	10.77	—	—	14.11
		02/01/95	10.70	—	—	14.18
		03/08/95	11.05	—	—	13.83
		04/03/95	10.88	—	—	14.00
		05/18/95	11.12	—	—	13.76
		06/09/95	11.25	—	—	13.63
		07/13/95	11.15	—	—	13.73
		08/03/95	11.32	—	—	13.56
		08/29/95	11.53	—	—	13.35
		09/15/95	11.65	—	—	13.23
		10/20/95	11.64	—	—	13.24
		11/15/95	11.60	—	—	13.28
		01/15/96	11.07	—	—	13.81
03/05/96	10.50	—	—	14.38		
04/19/96	12.02	—	—	12.86		
05/10/96	11.14	—	—	13.74		
06/03/96	11.10	—	—	13.78		
09/04/96	11.45	—	—	13.43		
12/02/96	10.96	—	—	13.92		
02/26/97	11.02	—	—	13.86		

TABLE 1
Summary of Historical Groundwater Monitoring Data
 (All measurements are in feet; all elevations are in feet above mean sea level)

Sears Store 1058
 2633 Telegraph Avenue, Oakland, California

Well ID	Casing Elevation	Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elevation
MW-7 cont'd		06/09/97	11.34	--	--	13.54
		08/25/97	11.25	--	--	13.63
		11/28/97	10.69	--	--	14.19
		02/12/98	10.11	--	--	14.77
		05/20/98	11.20	--	--	13.68
		08/11/98	11.55	--	--	13.33
		11/10/98	11.21	--	--	13.67
		02/11/99	10.27	--	--	14.61
		05/11/99	11.25	--	--	13.63
		08/10/99	11.65	--	--	13.23
MW-8	26.12	12/27/93	12.45	--	--	13.67
		01/05/94	12.57	--	--	13.55
		02/08/94	12.02	--	--	14.10
		03/09/94	12.22	--	--	13.90
		04/01/94	12.33	--	--	13.79
		05/10/94	12.00	--	--	14.12
		06/30/94	12.52	--	--	13.60
		07/28/94	12.61	--	--	13.51
		08/31/94	12.72	--	--	13.40
		09/27/94	12.80	--	--	13.32
		10/28/94	12.84	--	--	13.28
		11/15/94	11.72	--	--	14.40
		12/01/94	11.87	--	--	14.25
		01/04/95	11.75	--	--	14.37
		02/01/95	11.64	--	--	14.48
		03/08/95	12.04	--	--	14.08
		04/03/95	11.86	--	--	14.26
		05/18/95	12.11	--	--	14.01
		06/09/95	12.34	--	--	13.78
		07/13/95	12.37	--	--	13.75
		08/03/95	12.50	--	--	13.62
		08/29/95	12.55	--	--	13.57
		09/15/95	12.70	--	--	13.42
		10/20/95	12.69	--	--	13.43
		11/15/95	12.67	--	--	13.45
		12/11/95	11.80	--	--	14.32
		01/15/96	12.38	--	--	13.74
		03/05/96	11.44	--	--	14.68
		04/19/96	10.80	--	--	15.32
		05/10/96	12.40	--	--	13.72
06/03/96	12.26	--	--	13.86		
09/04/96	12.51	--	--	13.61		
12/02/96	11.99	--	--	14.13		
02/26/97	11.98	--	--	14.14		
06/09/97	12.36	--	--	13.76		
08/25/97	12.25	--	--	13.87		
11/28/97	11.70	--	--	14.42		
02/12/98	11.34	--	--	14.78		
05/20/98	12.21	--	--	13.91		
08/11/98	12.60	--	--	13.52		
11/10/98	12.26	--	--	13.86		

TABLE 1
Summary of Historical Groundwater Monitoring Data
 (All measurements are in feet; all elevations are in feet above mean sea level)

Sears Store 1058
 2633 Telegraph Avenue, Oakland, California

Well ID	Casing Elevation	Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elevation
MW-8 cont'd		02/11/99	11.00	—	—	15.12
		05/11/99	12.29	—	—	13.83
		08/10/99	12.72	—	—	13.40
MW-9	25.03*	12/02/96	11.52	—	—	N/A
		02/26/97	11.55	—	—	N/A
		06/09/97	11.91	—	—	N/A
		08/25/97	11.80	—	—	N/A
		11/28/97	11.15	—	—	N/A
		02/12/98	10.63	—	—	N/A
		05/20/98	11.73	—	—	N/A
		08/11/98	12.15	—	—	N/A
		11/10/98	11.81	—	—	N/A
		02/11/99	10.66	—	—	N/A
		05/11/99	11.69	—	—	N/A
		08/10/99	12.67	—	—	12.36
		EW-1	26.8*	12/02/96	12.17	—
02/26/97	12.13			—	—	N/A
06/09/97	12.46			—	—	N/A
08/25/97	12.35			—	—	N/A
11/28/97	12.12			—	—	N/A
02/12/98	11.83			—	—	N/A
05/20/98	12.51			—	—	N/A
08/11/98	12.85			—	—	N/A
11/10/98	12.55			—	—	N/A
02/11/99	11.66			—	—	N/A
05/11/99	12.56			—	—	N/A
08/10/99	12.91			—	—	13.89

Notes:

- = No datum for the cell, including "product not detected"
- NM = not monitored
- N/A = not Available
- * = Survey of casing elevations for wells MW-9 and EW-1 conducted July 6, 1999

TABLE 2
Summary of Historical Groundwater Sample Analyses
 (All results expressed in micrograms per liter unless otherwise specified)

Sears Store 1058
 2633 Telegraph Avenue, Oakland, California

Well ID	Date Sampled	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH as Gasoline	TPH as Motor Oil	TPH (mg/l)	Dissolved Metals	MTBE
MW-1	12/30/92	1	1	2	2	-	-	1	-	-
	03/24/93	0.4	1	0.32	10	-	-	1	-	-
	06/21/93	<0.3	1	<0.3	6	-	**<100	-	-	-
	09/16/93	<0.3	0.7	2	7	-	**<100	-	-	-
	12/01/93	0.4	1	-	7	-	-	-	-	-
	12/30/93	-	-	1	-	-	-	<100	-	-
	03/09/94	<0.3	<0.3	2.4	4.2	-	-	<100	-	-
	06/30/94	0.6	0.7	1.4	15	-	-	<100	-	-
	09/27/94	0.9	0.5	<0.3	10	-	-	*<250	-	-
	12/01/94	0.4	0.4	<0.3	6.6	-	-	*<250	-	-
	03/08/95	<0.3	0.6	4.7	2.7	-	-	*<250	-	-
	06/09/95	<0.3	1.4	3.9	5.6	-	-	*<250	-	-
	08/29/95	0.3	0.9	<0.5	2.8	-	-	*<250	-	-
	11/15/95	<0.5	<0.5	<1.0	27	-	-	*<200	-	-
	03/05/96	<0.5	<1.0	<1.0	<2.0	-	-	*<200	-	-
	06/03/96	<0.5	<1.0	3.7	3.4	340	-	*<200	-	-
	09/04/96	<0.5	<1.0	<1.0	<2.0	390	310	-	-	-
	12/02/96	<0.5	<1.0	<1.0	2.7	400	*<200	-	-	-
	02/26/97	<0.5	<1.0	<1.0	4.5	390	*<200	-	-	-
	06/09/97	<0.5	<1.0	<0.5	2.3	340	<200	-	-	<10
	08/25/97	<0.5	<0.5	<0.5	3	220	<200	-	-	<5
	11/28/97	<0.5	<0.5	<0.5	3	340	<200	-	-	6
	02/12/98	<0.5	<0.5	<0.5	<2.0	280	<200	-	-	<5
	05/20/98	<0.5	<0.5	0.8	3	340	<200	-	-	<5
	08/11/98	<0.5	<0.5	<0.5	<0.5	230	<500	-	-	<2.5
11/10/98	<0.50	<0.50	<0.50	<0.50	150	<250	-	-	<2.5	
02/11/99	<0.50	<0.50	1	1.6	260	<500	-	-	6.7	
05/11/99	<0.5	0.54	<0.5	4.7	160	<250	-	-	<2.5	
08/10/99	<0.5	0.79	<0.5	2.8	230	<250	-	-	<2.0	
MW-2	12/30/92	0.7	<0.3	<0.3	3	190	-	1	*ND	-
	03/24/93	0.6	<0.3	<0.3	2	120	-	<1	*ND	-
	06/21/93	0.3	<0.3	<0.3	0.7	82	**<100	-	*ND	-
	09/16/93	<0.3	<0.3	<0.3	<0.5	28	**<100	-	*ND	-
	12/01/93	<0.3	<0.3	<0.3	1	68	-	-	*ND	-
	12/30/93	-	-	-	-	-	310	-	-	-
	03/09/94	<0.3	<0.3	<0.3	<0.5	47	<100	-	-	-
	06/30/94	<0.3	<0.3	<0.3	<0.5	<10	100	-	ND	-
	09/27/94	<0.3	<0.3	<0.3	<0.5	<10	*<250	-	*15	-
	12/01/94	<0.3	<0.3	<0.3	<0.5	54	1,300	-	*6	-
	03/08/95	<0.3	<0.3	<0.3	<0.5	<10	3,000	-	ND	-
	06/09/95	<0.3	<0.3	<0.3	<0.5	<50	2,000	-	ND	-
	08/29/95	<0.3	<0.3	<0.3	<0.5	<50	4,300	-	ND	-
	11/15/95	<0.5	<0.5	<0.5	<0.5	<50	6,100	-	*20	-
	03/05/96	<0.5	<1.0	<1.0	<2.0	<100	3,200	-	ND	-
	06/04/96	<0.5	<1.0	<1.0	<2.0	<100	3,800	-	ND	-
	09/04/96	<0.5	<1.0	<1.0	<2.0	<100	3,100	-	-	-
	12/02/96	<0.5	<1.0	<1.0	<2.0	<100	2,200	-	-	-
	02/26/97	<0.5	<1.0	<1.0	<2.0	<100	2,100	-	-	-
	06/09/97	<0.5	<1.0	<1.0	<2.0	<100	2,400	-	-	<10
	08/25/97	<0.5	<0.5	<0.5	<2.0	<50	<200	-	-	<5
	11/28/97	0.6	<0.5	<0.5	<2.0	<50	1,900	-	-	<5
	02/12/98	<0.5	<0.5	<0.5	<2.0	<50	1,600	-	-	<5
	05/20/98	<0.5	<0.5	<0.5	<2.0	<50	3,100	-	-	<5
	08/11/98	<0.5	<0.5	<0.5	<0.5	<50	1,200	-	-	<2.5
11/10/98	<0.50	<0.50	<0.50	<0.50	<50	820	-	-	<2.5	
02/11/99	<0.50	<0.50	<0.50	<0.50	<50	<500	-	-	3.3	
05/11/99	<0.5	<0.5	<0.5	<0.5	<50	1,400	-	-	<2.5	
08/10/99	NS	NS	NS	NS	NS	NS	NS	NS	NS	

TABLE 2
Summary of Historical Groundwater Sample Analyses
 (All results expressed in micrograms per liter unless otherwise specified)

Sears Store 1058
 2633 Telegraph Avenue, Oakland, California

Well ID	Date Sampled	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH as Gasoline	TPH as Motor Oil	TPH (mg/l)	Dissolved Metals	MTBE
MW-3	12/30/92	11	0.9	<0.3	2	910	SPH	20	*ND	--
	03/24/93	28	0.7	1	8	3,300	SPH	28	**15	--
	06/21/93	21	5	2	19	**2,600	32,000	26	**5	--
	09/16/93	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	--
	12/01/93	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	--
	03/09/94	2	1.4	4.5	13	2,000	**5,700	**63	*ND	--
	06/30/94	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	--
	09/27/94	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	--
	12/01/94	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	--
	03/08/95	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	--
	06/09/95	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	--
	08/29/95	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	--
	11/15/95	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	--
	03/05/96	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	--
	06/03/96	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	--
	09/04/96	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	--
	12/02/96	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	--
	02/26/97	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	--
	06/09/97	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	08/25/97	5	6	5	16	5,600	110,000	--	--	<30
	11/28/97	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	02/12/98	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	05/20/98	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
08/11/98	SPH	SPH	SPH	SPH	SPH	SPH	SPH	--	SPH	
11/10/98	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	
02/11/99	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	
05/11/99	5.2	<0.5	<0.5	<0.5	<0.5	530	59,000	--	--	<2.0
08/10/99	<0.5	<0.5	<0.5	<0.5	<0.5	2,200	54,000	--	--	2.2
MW-4	12/30/92	2	<0.3	1	<0.5	1,200	--	<1	*ND	--
	03/24/93	<0.3	<0.3	<0.3	<0.5	750	--	2	*7	--
	06/21/93	<0.3	2	<0.3	0.5	660	19,000	--	*ND	--
	09/16/93	0.3	<0.3	2	3	410	2,500	--	*ND	--
	12/01/93	<0.3	<0.3	<0.3	<0.5	150	390	--	*ND	--
	03/09/94	0.7	0.8	2	3.6	1,500	780	--	*ND	--
	06/30/94	<0.3	1.7	0.5	1	450	130	--	ND	--
	09/27/94	0.5	<0.3	<0.3	<0.5	110	1,100	--	ND	--
	12/01/94	0.6	0.5	0.3	0.8	290	580	--	*5	--
	03/08/95	<0.3	<0.3	<0.3	<0.5	360	1,000	--	*5	--
	06/09/95	<0.3	0.4	<0.3	<0.5	64	1,100	--	*5	--
	08/29/95	<0.3	<0.3	<0.3	<0.5	<50	1,200	--	*5	--
	11/15/95	<0.5	<0.5	<0.5	<0.5	<50	2,100	--	*ND	--
	03/05/96	<0.5	<1.0	<1.0	<2.0	<100	590	--	*ND	--
	06/04/96	<0.5	<1.0	<1.0	<2.0	<100	860	--	ND	--
	09/04/96	<0.5	<1.0	<1.0	<2.0	<100	600	--	--	--
	12/02/96	<0.5	<1.0	<1.0	<2.0	<100	940	--	--	--
	02/26/97	<0.5	<1.0	<1.0	<2.0	<100	390	--	--	--
	06/09/97	<0.5	<1.0	<1.0	<2.0	<100	630	--	--	<10
	08/25/97	<0.5	<0.5	<0.5	<2.0	<50	<200	--	--	5
	11/28/97	3.6	3.9	3.7	12	120	<200	--	--	5
	02/12/98	<0.5	<0.5	<0.5	<2.0	<50	<200	--	--	5
	05/20/98	<0.5	<0.5	<0.5	<2.0	<50	300	--	--	5
08/11/98	<0.5	<0.5	<0.5	<0.5	<50	<500	--	--	<2.5	
11/10/98	<0.50	<0.50	<0.50	<0.50	62	610	--	--	<2.5	
02/11/99	<0.50	2.4	1.3	6.5	140	<500	--	--	8.0	
05/11/99	<0.5	<0.5	<0.5	<0.5	<50	330	--	--	<2.0	
08/10/99	<0.5	<0.5	<0.5	2.6	470	<250	--	--	2.5	

TABLE 2
Summary of Historical Groundwater Sample Analyses
 (All results expressed in micrograms per liter unless otherwise specified)

Sears Store 1058
 2633 Telegraph Avenue, Oakland, California

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH as Gasoline	TPH as Motor Oil	TPH (mg/l)	Dissolved Metals	MTBE
MW-5	12/30/92	<0.3	<0.3	<0.3	<0.5	37	-	<1	^b c5	-
	03/24/93	<0.3	<0.3	<0.3	0.5	19	-	2	^a 341	-
	06/21/93	<0.3	<0.3	<0.3	<0.5	<10	<100	-	^c ND	-
	09/16/93	0.3	<0.3	<0.3	1	<10	<100	-	^c ND	-
	12/01/93	<0.3	<0.3	<0.3	1	17	-	-	^c ND	-
	12/30/93	-	-	-	-	-	<100	-	-	-
	03/09/94	<0.3	<0.3	<0.3	<0.5	22	<100	-	^c ND	-
	06/30/94	<0.3	<0.3	<0.3	<0.5	<10	<100	-	ND	-
	09/27/94	0.5	0.4	<0.3	<0.5	<10	560	-	ND	-
	12/01/94	<0.3	<0.3	<0.3	<0.5	<10	<250	-	ND	-
	03/08/95	<0.3	<0.3	<0.3	<0.5	<10	<250	-	ND	-
	06/09/95	<0.3	<0.3	<0.3	<0.5	<50	<250	-	^d 7	-
	08/29/95	<0.3	<0.3	<0.3	<0.5	<50	<250	-	^e 36	-
	11/15/95	<0.5	<0.5	<0.5	<0.5	<50	<200	-	ND	-
	03/05/96	<0.5	<1.0	<1.0	<2.0	<100	<200	-	ND	-
	06/03/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/04/96	<0.5	<1.0	<1.0	<2.0	<100	310	-	-	-
	12/02/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/26/97	<0.5	<1.0	<1.0	<2.0	<100	<200	-	-	-
	06/09/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	08/25/97	>0.5	<0.5	<0.5	<2.0	<50	<200	-	-	<6
	11/28/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/12/98	<0.5	<0.5	<0.5	<0.5	<50	<200	Y	-	<6
	05/20/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	08/11/98	<0.5	<0.5	<0.5	<0.5	<50	<500	-	-	<2.5
	11/10/98	NS	NS	NS	NS	NS	NS	-	-	NS
02/11/99	<0.5	<0.5	<0.5	<0.5	<50	<500	-	-	3.2	
05/11/99	-	-	-	-	-	-	-	-	-	
08/10/99	<0.5	<0.5	<0.5	<0.5	<50	<250	-	-	5.6	
MW-6	12/27/93	<0.3	<0.3	<0.3	<0.5	<10	<100	<1	^a 70	-
	03/09/94	<0.3	<0.3	<0.3	<0.5	15	<100	-	^c ND	-
	06/30/94	<0.3	<0.3	<0.3	<0.5	<10	<100	-	^d D	-
	09/27/94	<0.3	<0.3	<0.3	<0.5	<10	<250	-	^e 8	-
	12/01/94	<0.3	<0.3	<0.3	<0.5	<10	<250	-	^f 32	-
	03/08/95	<0.3	<0.3	<0.3	<0.5	<10	<250	-	ND	-
	06/09/95	<0.3	<0.3	<0.3	<0.5	<50	<250	-	ND	-
	08/29/95	<0.3	<0.3	<0.3	<0.5	<50	<250	-	^g 24	-
	11/15/95	<0.5	<0.5	<0.5	<0.5	<50	<200	-	^h 31	-
	03/05/96	<0.5	<1.0	<1.0	<2.0	<100	<200	-	ND	-
	06/03/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/04/96	<0.5	<1.0	<1.0	<2.0	<100	230	-	-	-
	12/02/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/26/97	<0.5	<1.0	<1.0	<2.0	<100	<200	NS	NS	NS
	06/09/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	08/25/97	<0.5	1.1	<0.5	<2.0	<50	<200	-	-	<6
	11/28/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/12/98	<0.5	<0.5	<0.5	<2.0	<50	<200	-	-	<6
	05/20/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	08/11/98	<0.5	<0.5	<0.5	<0.5	<50	<500	-	-	<2.5
11/10/98	NS	NS	NS	NS	NS	NS	-	-	NS	
02/11/99	<0.5	<0.5	<0.5	<0.5	<50	<500	-	-	7.1	
05/11/99	-	-	-	-	-	-	-	-	-	
08/10/99	<0.5	<0.5	<0.5	<0.5	<50	<250	-	-	<2.0	

TABLE 2
Summary of Historical Groundwater Sample Analyses
 (All results expressed in micrograms per liter unless otherwise specified)

Sears Store 1058
 2633 Telegraph Avenue, Oakland, California

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH as Gasoline	TPH as Motor Oil	TPH (mg/l)	Dissolved Metals	MTBE
MW-7	12/27/93	<0.3	<0.3	1	2	140	<100	<1	*40	-
	03/09/94	<0.3	<1.0	1.5	4.1	620	<100	-	*ND	-
	06/30/94	<0.3	<0.3	<0.3	<0.5	33	<100	-	ND	-
	09/27/94	<0.3	<0.3	0.4	0.7	52	*<250	-	ND	-
	12/01/94	<0.3	<0.3	<0.3	1.1	<10	*<250	-	*28	-
	03/08/95	<0.3	<0.3	<0.3	<0.5	<10	*<250	-	ND	-
	06/09/95	<0.3	<0.3	<0.3	<0.5	<50	<250	-	ND	-
	08/29/95	<0.3	<0.3	<0.3	<0.5	<50	<250	-	*13	-
	11/15/95	<0.5	<0.5	<0.5	<0.5	<50	<200	-	ND	-
	03/05/96	<0.5	<1.0	<1.0	<2.0	<100	270	-	ND	-
	06/03/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/04/96	<0.5	<1.0	<1.0	<2.0	<100	<200	-	-	-
	12/02/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/26/97	<0.5	<1.0	<1.0	<2.0	<100	<200	NS	NS	NS
	06/09/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	08/25/97	<0.5	<0.5	<0.5	<2.0	<50	<200	-	-	<5
	11/28/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/12/98	<0.5	<0.5	<0.5	<2.0	<50	<200	-	-	<5
	05/20/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	08/11/98	<0.5	<0.5	<0.5	<0.5	<50	<500	-	-	<2.5
11/10/98	NS	NS	NS	NS	NS	NS	-	-	NS	
02/11/99	<0.5	<0.5	<0.5	<0.5	130	<500	-	-	5.8	
05/11/99	-	-	-	-	-	-	-	-	-	
08/10/99	<0.5	<0.5	<0.5	<0.5	<50	<250	-	-	<2.0	
MW-8	12/27/93	0.4	4	0.4	1	390	<100	<1	*18	-
	03/09/94	0.6	0.8	0.5	1.5	420	<100	-	*ND	-
	06/30/94	0.9	<0.3	<0.3	1.1	250	<100	-	ND	-
	09/27/94	<0.3	<0.3	<0.3	<0.5	210	*<250	-	*9	-
	12/01/94	5.4	<0.3	0.7	1.3	230	*<250	-	*ND	-
	03/08/95	<0.3	<0.3	<0.3	<0.5	230	*<250	-	ND	-
	06/09/95	<0.3	<0.3	<0.3	<0.5	<50	*<250	-	ND	-
	08/29/95	0.9	0.4	<0.3	0.8	200	*<250	-	*15	-
	11/15/95	0.58	<0.5	<0.5	0.54	120	-	-	*21	-
	12/11/95	-	-	-	-	-	*<200	-	-	-
	03/05/96	0.6	<1.0	<1.0	<2.0	<100	*<200	-	ND	-
	06/03/96	<0.5	<1.0	<1.0	<2.0	100	-	-	-	-
	09/04/96	<0.5	<1.0	<1.0	<2.0	110	<200	-	-	-
	12/02/96	<0.5	<1.0	<1.0	<2.0	110	<200	-	-	-
	02/26/97	<0.5	<1.0	<1.0	<2.0	<100	<200	-	-	-
	06/09/97	<0.5	<1.0	<1.0	<2.0	110	<200	-	-	<10
	08/25/97	<0.5	<0.5	<0.5	<2.0	70	<200	-	-	<6
	11/28/97	<0.5	<0.5	<0.5	<2.0	110	<200	-	-	<6
	02/12/98	<0.5	<0.5	0.6	<2.0	70	<200	-	-	<6
	05/20/98	<0.5	<0.5	<0.5	<2.0	<50	<200	-	-	<6
08/11/98	<0.5	<0.5	<0.5	<0.5	64	<500	-	-	<2.5	
11/10/98	<0.50	<0.50	<0.50	<0.50	52	<250	-	-	<2.5	
02/11/99	<0.50	<0.50	<0.50	<0.50	59	<500	-	-	<2.5	
05/11/99	<0.5	<0.5	<0.5	<0.5	<50	<250	-	-	<2.5	
08/10/99	<0.5	<0.5	<0.5	<0.5	72	<250	-	-	<2.0	

TABLE 2
Summary of Historical Groundwater Sample Analyses
 (All results expressed in micrograms per liter unless otherwise specified)

Sears Store 1058
 2633 Telegraph Avenue, Oakland, California

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH as Gasoline	TPH as Motor Oil	TPH (mg/l)	Dissolved Metals	MTBE
MW-9	12/02/96	<0.5	<1.0	<1.0	<2.0	210	250	--	--	--
	02/26/97	<0.5	<1.0	<1.0	<2.0	170	340	--	--	--
	06/09/97	0.8	<1.0	<1.0	<2.0	130	350	--	--	<10
	08/25/97	<0.5	0.8	<0.5	<2.0	110	<200	--	--	5
	11/28/97	<0.5	0.5	0.9	<2.0	150	<200	--	--	5
	02/12/98	<0.5	<0.5	<0.5	<2.0	60	<200	--	--	5
	05/20/98	<0.5	<0.5	0.9	<2.0	130	<200	--	--	5
	08/11/98	<0.5	<0.5	<0.5	0.76	240	<500	--	--	<2.5
	11/10/98	<0.50	<0.50	<0.50	<0.50	220	<250	--	--	<2.5
	02/11/99	<0.50	<0.50	<0.50	<0.50	52	<500	--	--	3.5
	05/11/99	<0.5	<0.5	<0.5	<0.5	96	<250	--	--	<2.5
08/10/99	<0.5	<0.5	<0.5	0.96	130	<250	--	--	<2.0	
EW-1	09/04/96	<0.5	<1.0	<1.0	<2.0	1,100	1,700	--	--	--
	12/02/96	6.2	<1.0	<1.0	<2.0	1,000	1,400	--	--	--
	02/26/97	12	<1.0	<1.0	<2.1	1,200	2,100	--	--	--
	06/09/97	83	<1.0	<1.0	<2.0	1,400	12,000	--	--	13
	08/25/97	7.5	0.9	0.9	2	1,400	15,000	--	--	12
	11/28/97	4.5	1.1	1.1	4	560	5,700	--	--	5
	02/12/98	9.8	0.6	1.2	2	1,000	6,300	--	--	30
	05/20/98	7.2	<0.5	<0.5	<2.0	820	6,200	--	--	26
	08/11/98	2.6	<0.5	<0.5	0.86	320	5,400	--	--	8.7
	11/10/98	<0.50	<0.50	<0.50	0.75	820	2,900	--	--	13
	02/11/99	4.0	<0.50	0.51	0.94	720	1,300	--	--	14
	05/11/99	<0.5	<0.5	<0.5	<0.5	680	4,800	--	--	<2.5
	08/10/99	<0.5	<0.5	<0.5	<0.5	730	1,100	--	--	3.6

Notes:

- = No data for the cell, including "not analyzed for this constituent"
- < = Compound was not detected above the laboratory reporting limits.
- mg/l = Milligrams per liter
- TPH = Total petroleum hydrocarbons
- ND = Non-detectable (Detection limits for each metal are listed in laboratory reports.)
- SPH = Separate phase hydrocarbon
- NS = Not sampled
- * = Water samples were not filtered; analytical results represent total metals present, not dissolved concentrations
- ** = Uncategorized hydrocarbon compound not included in this hydrocarbon concentration.
- 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
- g = Zinc only analyte detected
- h = Chromium only analyte detected
- MTBE = Methyl Tert-Butyl Ether

Attachment 3

**Groundwater Monitoring and Sample Collection
Protocol and Field Data Sheets**

IT CORPORATION GROUNDWATER MONITORING AND SAMPLE COLLECTION PROTOCOL

Groundwater Monitoring

Groundwater monitoring is accomplished using an INTERFACE PROBE™ Well Monitoring System. The INTERFACE PROBE™ Well Monitoring System is a hand held, battery-operated device for measuring the depth to separate-phase hydrocarbons and depth to water. The INTERFACE PROBE™ Well Monitoring System consists of a dual-sensing probe that utilized an optical liquid sensor and electrical conductivity to distinguish between water and petroleum products.

Monitoring is accomplished by measuring from the surveyed top of well casing or grade to groundwater and separate-phase hydrocarbons if present. The static water elevation is then calculated for each well and a potentiometric surface map is constructed. If separate-phase hydrocarbons are detected, the water elevation is adjusted by the following calculation:

$$(\text{Product thickness}) \times (0.8) + (\text{Water elevation}) = \text{Corrected water elevation}$$

Groundwater monitoring wells are monitored in order of wells with lowest concentrations of volatile organic compounds to wells with the highest concentrations, based upon historical concentrations. If separate-phase hydrocarbons are encountered in a well, the product is visually inspected to confirm and note color, amount, and viscosity. Monitoring equipment is washed with laboratory grade detergent and rinsed with distilled or deionized water before monitoring each well.

Groundwater Sampling

Before groundwater samples are collected, sufficient water is purged from each well to ensure representative formation water is entering the well. Wells are purged and sampled in the same order as monitoring, from wells with the lowest concentrations of volatile organic compounds to wells with the highest concentrations. Wells are purged using either a polyvinyl chloride (PVC) bailer fitted with a check valve or with a stainless steel submersible Grundfos pump. The purge equipment is decontaminated before use in each well by washing with laboratory grade detergent and tripled rinsing with deionized or distilled water. A minimum of 3 well-casing volumes of water are removed from each well while pH, electrical conductivity, and temperature are recorded to verify that "fresh" formation water is being sampled and the parameters have stabilized. If the well is low yielding, it may be purged dry and sampled before 3 casing volumes are purged. The wells are then allowed to recharge to approximately 80 percent of the initial water level before a sample is collected.

Groundwater samples are collected from each well using a new, prepackaged disposable bailer and string. The water sample is decanted from the bailer into laboratory-provided containers (appropriate for the analyses required) so that there is no headspace in the containers. Samples collected for benzene, toluene, ethylbenzene, xylene, and total petroleum hydrocarbons as gasoline analyses are collected in 40-milliliter vials fitted with Teflon® septum lids. Samples are preserved with hydrochloric acid (HCL) to a pH of less than 2. Dissolved metals samples are filtered through a 0.45-micron paper filter in the field and preserved as required before submitting to the laboratory for analyses. All samples are labeled immediately upon collection and logged on the chain-of-custody record. Sample label and chain-of-custody recorded information includes the project name and number, sample identification, date and time of collection, analyses requested, and the sampler's name. Sample bottles are placed in plastic bags (to protect the bottles and labels) and on ice (frozen water) in an insulated cooler and are shipped under chain-of-custody protocol to the laboratory.

The chain-of-custody record documents who has possession of the samples until the analyses is performed. Other pertinent information is also noted for the laboratory use on the chain-of-custody record.

Trip blanks (TBLBs) are used for each project as a quality assurance/quality control measure. The TBLBs are prepared by the laboratory and are placed in the insulated cooler and accompany the field samples throughout the sampling event.

Tues 8/10

SITE VISIT FORM

IT Corporation - Martinez, California

Project: 1176603.00

Technician: J. Merino

Site: SEARS/#1058/Oakland, CA

Scheduled: 8/09/99

Project Mgr: Melissa Gossell

Site Mgr:

PREPARATORY COMMENTS

Visit Date: 8-10-99 Arrival Time: 9:30 Departure Time: 15:00

Work Order read in office: Y/N upon arrival: Y/N upon departure: Y/N

Called PM? Y/N Time: Who: Topic:

Are You In Possession of a Site Safety Plan? Y/N

COC: Complete with store #, site address & proj office address? Y/N

Job # and task #

GROUNDWATER SAMPLING - Task Nr: 03054300 [Quarterly]

SITE ADDRESS: 2633 Telegraph Avenue, Oakland, CA

cc: Melissa Gossell, Doug Gay

Notify Tom Peacock 72 hrs in advance (510) 567-6782 DONE: 8/4 @ 9:35 AM message

During any sampling activities, a minimum work zone will be defined by a 10ft by 10ft square centered around the monitor well and marked with 36" -high orange traffic cones with flag poles and flags placed in the center of the cone and caution tape stretched between the cones. Employees will be constantly aware of the public access to the work zone and keep them within the outer perimeter of the cones and caution tape at all times.

BRING 9/16 BOLTS FOR ALL 8 WELLS. Need three (3) new drums for this site.

1. MARCH(1st)/AUG(3rd): Monitor and sample all wells (MW-1 through MW-9 and EW-1) in the following order: MW-5, MW-1, MW-6, MW-7, MW-8, MW-4, MW-2, MW-9, MW-3 and the extraction well (EW-1) located next to MW-3. USE DISPOSABLE BAILERS.

JUNE(2nd)/DEC(4th): Monitor all wells (MW-1 through MW-9, and EW-1). Sample seven (7) wells in the following order: MW-9, MW-1, MW-8, MW-2, MW-4, MW-3 and EW-1. USE DISPOSABLE BAILERS. Collect six (6) 40ml, HCL-preserved VOAs from all wells.

2. Record DTW, DTP, pH, Conductivity, temperature and dissolved oxygen. NOTE: Recharge DTW.

SITE VISIT FORM
 IT Corporation - Martinez, California

Project: 1176603.00
 Site: SEARS/#1058/Oakland, CA
 Project Mgr: Melissa Gossell

Technician:
 Scheduled: 8/09/99
 Site Mgr:

TECHNICIAN'S COMMENTS

Total Hours Estimated	6.00	Total Hours Used	6.0
Travel Time Estimated	1.50	Travel Time Used	1.50

7.50

 Technician

DRUMMED MATERIAL INVENTORY FORM

Store Number 1058 Address/City/State/ZIP 2633 TELEGRAPH AVE OAKLAND
 Sears Facility Contact and Phone # Vacant site
 IT Corporation Representative A Merino
 Accumulation Start Date 8-10-99 Completion Date: 8-10-99
 Exact Drum Storage Location NEXT TO FENCE BEHIND BUILDING, SEE MAP BETWEEN 27TH, 26TH

CONTENTS	# OF DRUMS	DRUM ID (A,B,C...) OR (1,2,3...)	LID TYPE (OPEN OR BUNG)	LABEL TYPE: HAZARDOUS, NON-HAZARDOUS, UNCLASSIFIED	DRUM DESCRIPTION: COLOR, CONDITION, MARKINGS
GASOLINE			O or B	H / N / U	
GASOLINE/WATER MIXTURE			O or B	H / N / U	
GASOLINE IMPACTED PURGE WATER	5	A,B,C,D,E	O or B	H (N) U	Black
GASOLINE TANK BOTTOMS/SLUDGE			O or B	H / N / U	
GASOLINE IMPACTED DEBRIS			O or B	H / N / U	
GASOLINE IMPACTED SOIL			O or B	H / N / U	
FUEL OIL (INC. DIESEL & HEATING OIL)			O or B	H / N / U	
FUEL OIL/WATER MIXTURE			O or B	H / N / U	
FUEL OIL IMPACTED PURGE WATER			O or B	H / N / U	
FUEL OIL TANKS BOTTOMS/SLUDGE			O or B	H / N / U	
FUEL OIL IMPACTED DEBRIS			O or B	H / N / U	
FUEL OIL IMPACTED SOIL			O or B	H / N / U	
HYDRAULIC FLUID			O or B	H / N / U	
HYDRAULIC FLUID/WATER MIXTURE			O or B	H / N / U	
HYDRAULIC FLUID IMPACTED PURGE WATER			O or B	H / N / U	
HYDRAULIC FLUID IMPACTED SLUDGE			O or B	H / N / U	
HYDRAULIC FLUID IMPACTED DEBRIS			O or B	H / N / U	
HYDRAULIC FLUID IMPACTED SOIL			O or B	H / N / U	
USED OIL			O or B	H / N / U	
USED OIL/WATER MIXTURE			O or B	H / N / U	
USED OIL IMPACTED PURGE WATER			O or B	H / N / U	
USED OIL TANK BOTTOMS/SLUDGE			O or B	H / N / U	
USED OIL IMPACTED DEBRIS			O or B	H / N / U	
USED OIL IMPACTED SOIL			O or B	H / N / U	
CHLORINATED SOLVENT:			O or B	H / N / U	
NON-CHLORINATED SOLVENT:			O or B	H / N / U	
OTHER:			O or B	H / N / U	
OTHER:			O or B	H / N / U	
OTHER:			O or B	H / N / U	

NOTE: There should NEVER be 2 drums with the same ID present at a site at the same time!

BULK MATERIAL INVENTORY FORM

Store Number 1058 Address/City/State/ZIP 2633 TELEGRAPH AVE

Sears Facility Contact and Phone # Vacant site

IT Corporation Representative H. Marino

Accumulation Start Date 8-10-99 Completion Date 8-10-99

Exact Bulk Storage Location _____

CONTAMINANTS	SOIL (Cu Yds)	DEBRIS (Cu Yds)	LIQUID (Gallons)
GASOLINE			
FUEL OIL			
HYDRAULIC FLUID			
USED OIL			
CHLORINATED SOLVENT:			
NON-CHLORINATED SOLVENT:			
OTHER:			
OTHER:			

SOIL PILE CALCULATIONS

Calculation for a tent shaped soil pile:

Length _____ X Width _____ X Height _____ $\div 2 \div 27 =$ _____ Yds³

Calculation for a rectangular or square shaped soil pile:

Length _____ X Width _____ X Height _____ $\div 27 =$ _____ Yds³

Calculation for a conical (cone) shaped soil pile:

.04 X Radius _____ X Radius _____ X Height _____ = _____ Yds³

SITE VISIT FORM
IT Corporation

Project: Sears#1058/Oakland
Store #: 1058/2633 Telegraph
Project Manager: Melissa Gossell

Technician: H Merino
Schedule:
Job No. 1176603.03054300

WELL WATER SAMPLING - TASK Nr: 03054300 [QUARTERLY]

Gauge wells for volume of water & bail 3 well Vol.s. DECON

PREPARATORY COMMENTS

Visit Date: 8-10-99 Arrival Time: 9:30 Departure Time: 15:00

Called Project Manager? YES NO Time: 15:00 Who: M. Gossell

If you did not call, why not? _____

Weather: Rain Snow Sunny Cloudy Temperature: _____

Well ID

MW-1:	DTB_21.72	DTW <u>11.66</u>	SAT. THICK _____	#GAL. BAILED _____
MW-2:	DTB_21.79	DTW <u>11.27</u>	SAT. THICK _____	#GAL. BAILED _____
MW-3:	DTB_24.67	DTW <u>13.50</u>	SAT. THICK <u>DTP</u>	#GAL. BAILED <u>13.36</u>
MW-4:	DTB_22.97	DTW <u>11.95</u>	SAT. THICK _____	#GAL. BAILED _____
MW-5:	DTB_25.27	DTW <u>10.77</u>	SAT. THICK _____	#GAL. BAILED _____
MW-6:	DTB_22.05	DTW <u>11.28</u>	SAT. THICK _____	#GAL. BAILED _____
MW-7:	DTB_21.70	DTW <u>11.65</u>	SAT. THICK _____	#GAL. BAILED _____
MW-8:	DTB_22.14	DTW <u>12.72</u>	SAT. THICK _____	#GAL. BAILED _____
MW-9:	DTB_20.30	DTW <u>12.67</u>	SAT. THICK _____	#GAL. BAILED _____
EW-1:	DTB_22.30	DTW <u>12.91</u>	SAT. THICK _____	#GAL. BAILED _____

NOTES: MW3 DTP DTW PT
13.36 13.50 0.14

No Sample taken from MW2, small shorts cap on well.

Ben & went to site next day. Same cap on well.

HOURS ESTIMATED:

HOURS USED:

FINAL CHECKS

Are Wells Locked? YES NO Why Not?

Are Manholes Bolted Down? YES NO Why Not?

Project Name: Sears / #1058/Oakland, CA
 Site Address: 2633 Telegraph Ave., Oakland
 Project Number: 1176603.03054300

Date: 8-10-99
 Page 1 of
 Project Manager: Melissa Gossell

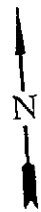
Well ID: MW-1
 Well Diameter: 2

DTW Measurements:
 Initial: 11.66 Calc Well Volume: 1.6 gal
 Recharge: 11.80 Well Volume: x3 4.9 gal
 DTB: 21.72

Purge Method Pump Depth _____ ft. Instruments Used
 Peristaltic _____ Hand Bailed _____ YSI: ✓ Other: _____
 Gear Drive _____ Air Lift _____ Hydac: _____
 Submersible ✓ Other _____ Omega: _____

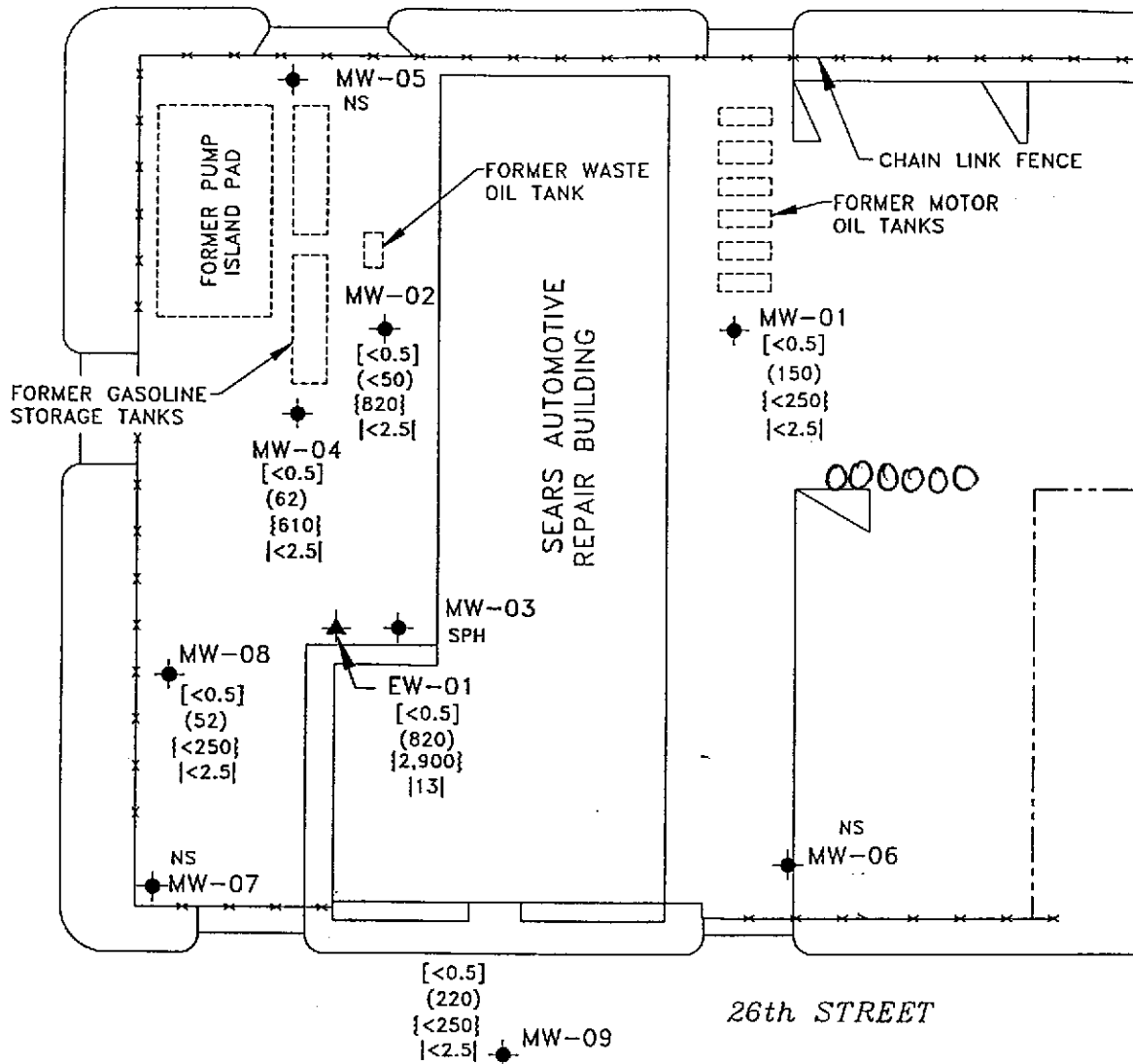
Time	Temp <u>✓</u> C F	Conductivity (mmhos/cm)	pH	Dissolved Oxygen	Purge Volume Gallons	Turbidity	Comments
	21.2	0.60	6.41	1.7			
10:08	21.2	0.60	6.41	0.9	1	cloudy	
10:09	21.3	0.60	6.20	0.7	2		
10:10	21.5	0.59	6.18	0.6	3		Dev @ 3 Gallons
					4		
					5		

12604
 12605
 12606
 12607
 12608
 12609



27th STREET

TELEGRAPH AVENUE



LEGEND

- ◆ MONITORING WELL
- ▲ EXTRACTION WELL
- [] BENZENE CONCENTRATIONS [$\mu\text{g/l}$]
- () TPH-AS-GASOLINE ($\mu\text{g/l}$)
- { } TPH-AS-MOTOR OIL { $\mu\text{g/l}$ }
- | | METHYL TERT-BUTYL ETHER (MTBE) [$\mu\text{g/L}$]
- SPH SEPARATE-PHASE HYDROCARBONS
- NS NOT SAMPLED

FLUOR DANIEL GTI

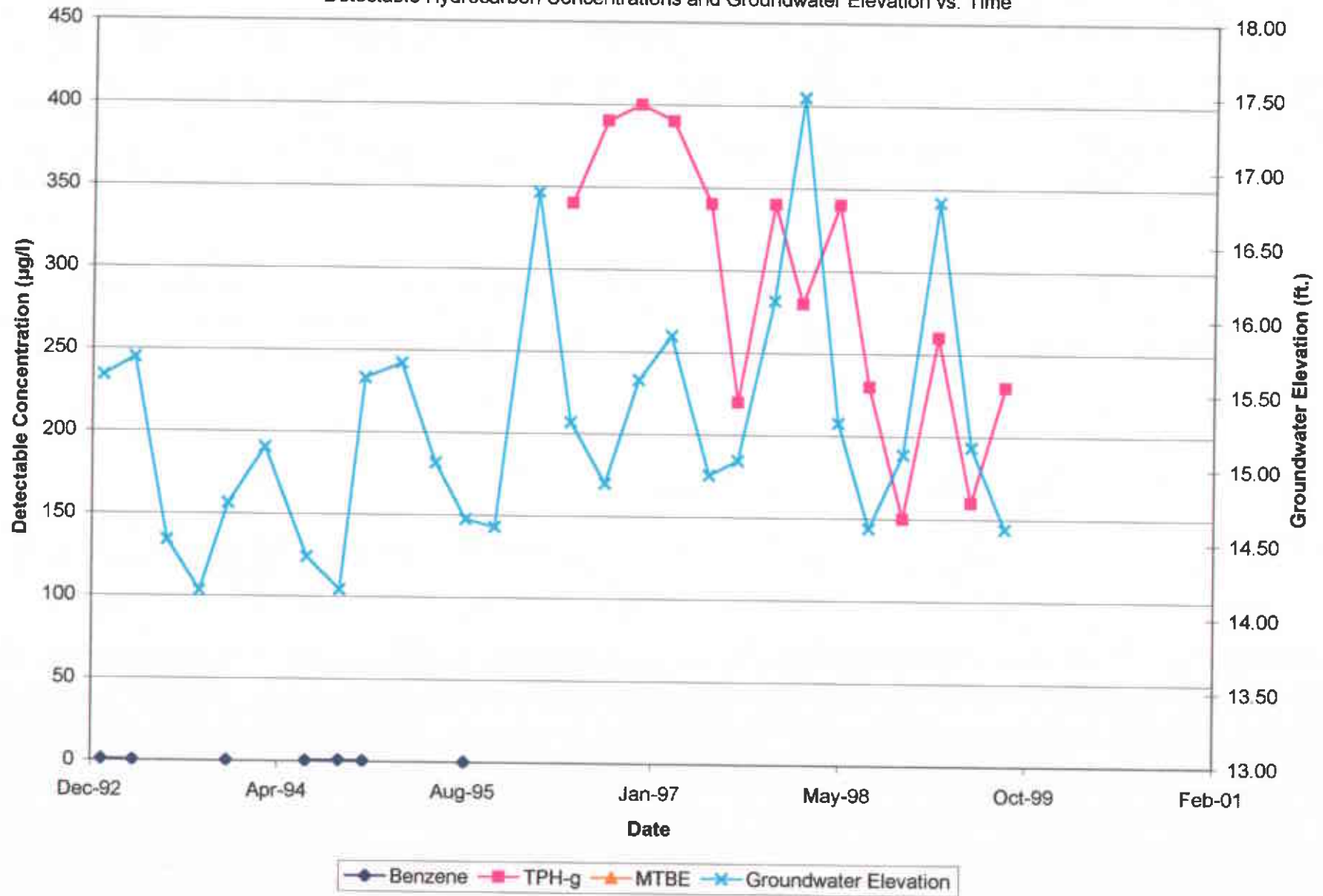


CONCENTRATIONS OF BENZENE, TPH-AS GASOLINE, TPH-AS-MOTOR OIL & MTBE IN GROUNDWATER SAMPLED (11/10/98)

CLIENT: SEARS, ROEBUCK AND CO. SITE NO. 1058	FILE: BENN1098	PROJECT NO.: 103232	PM	PE/RG
LOCATION: 2633 TELEGRAPH AVENUE OAKLAND, CALIFORNIA	REV.	DES. BP	DET. ML	DATE: 12/5/98
FIGURE:				2

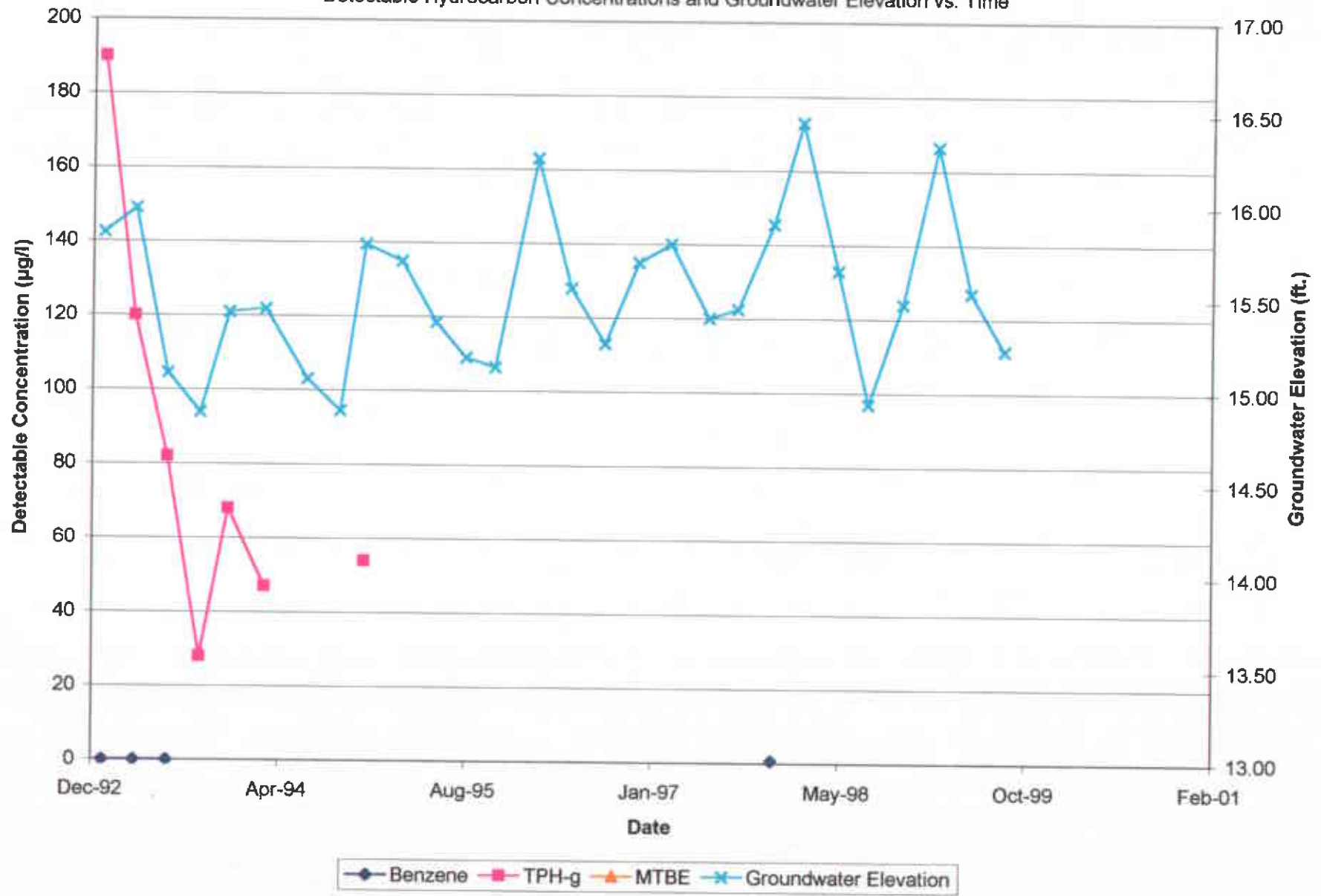
Graph 1, MW-1
 Sears Store No. 1058, 2633 Telegraph Avenue
 Oakland, California

Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time



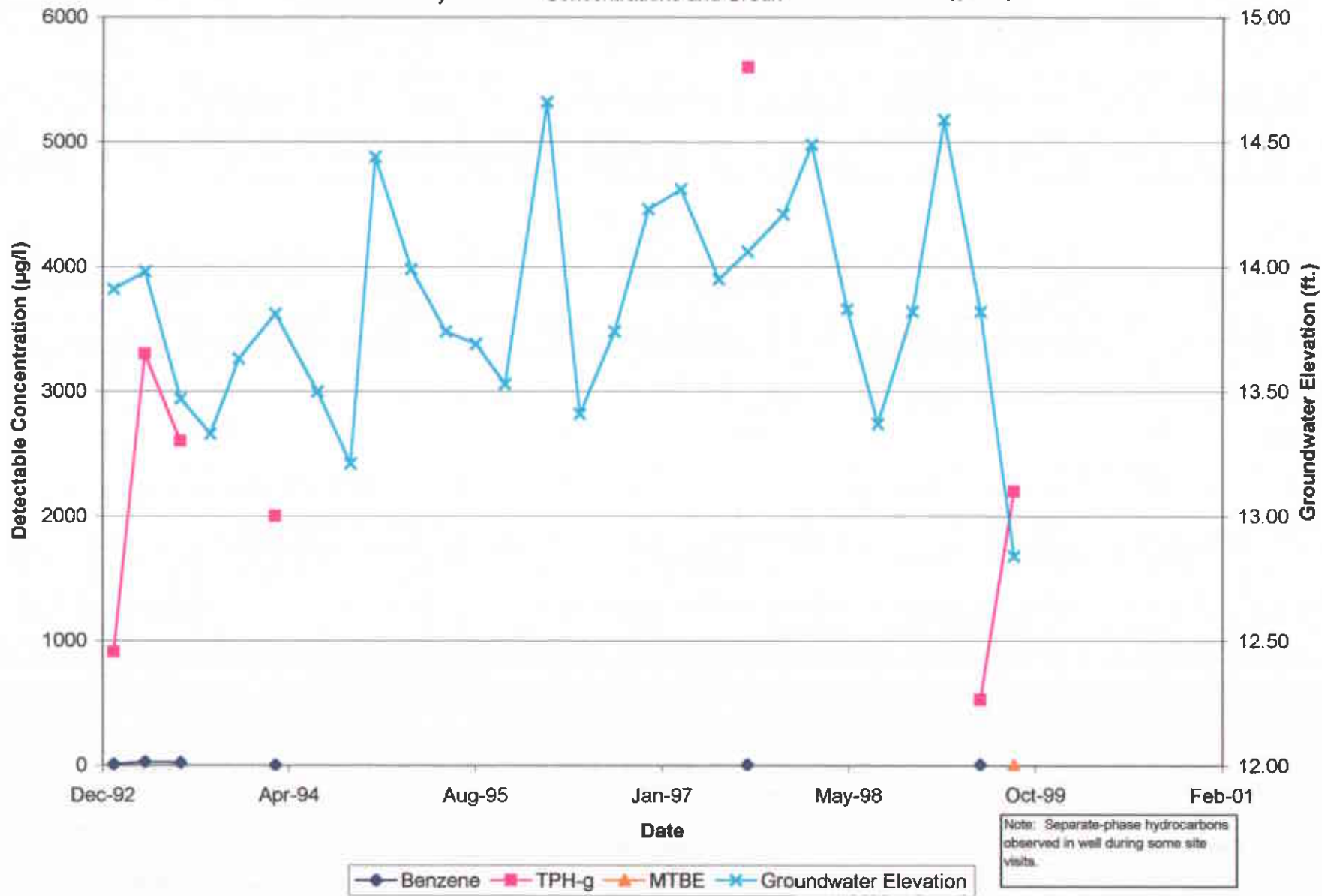
Graph 2, MW-2
 Sears Store No. 1058, 2633 Telegraph Avenue
 Oakland, California

Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time



Graph 3, MW-3
 Sears Store No. 1058, 2633 Telegraph Avenue
 Oakland, California

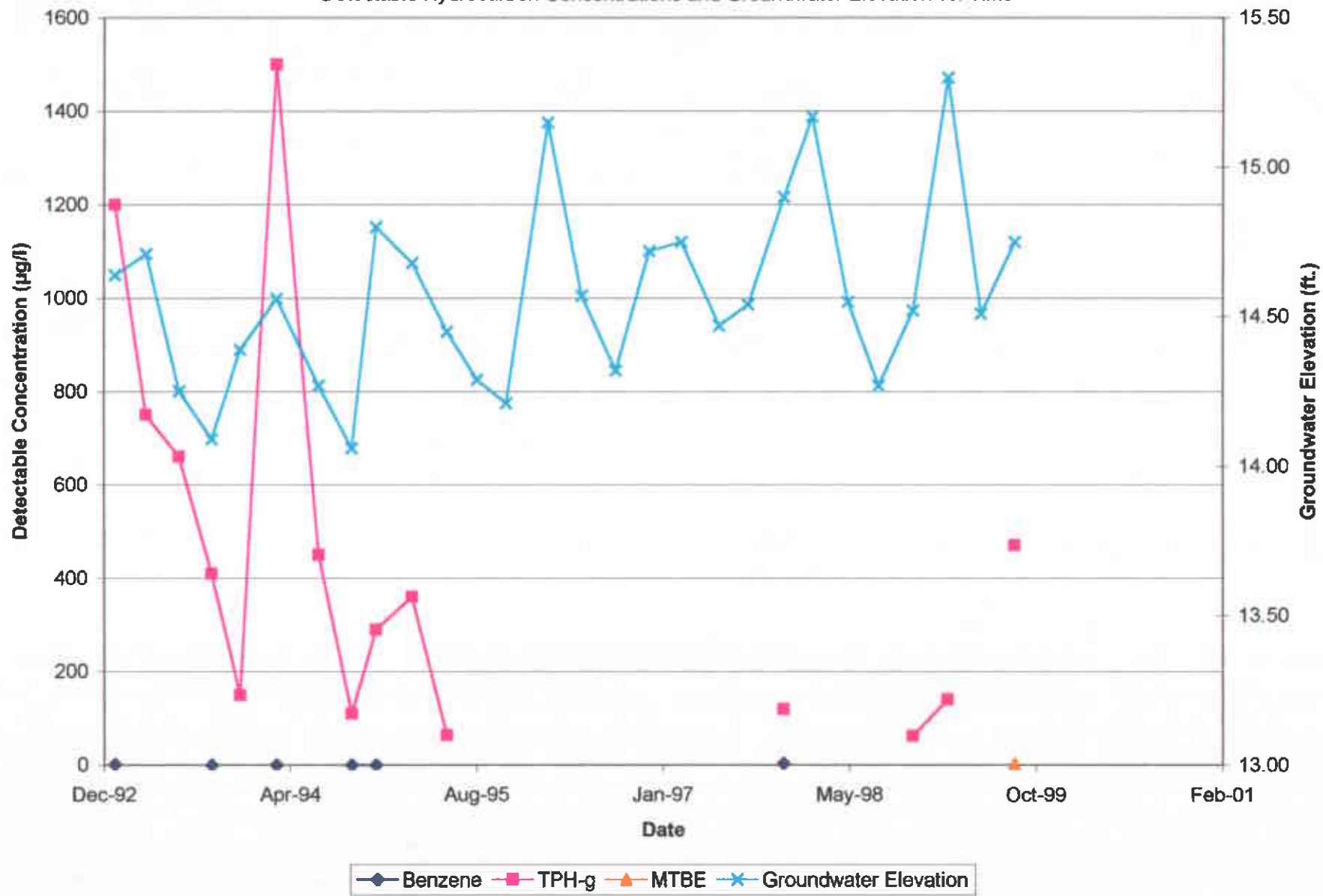
Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time



Note: Separate-phase hydrocarbons observed in well during some site visits.

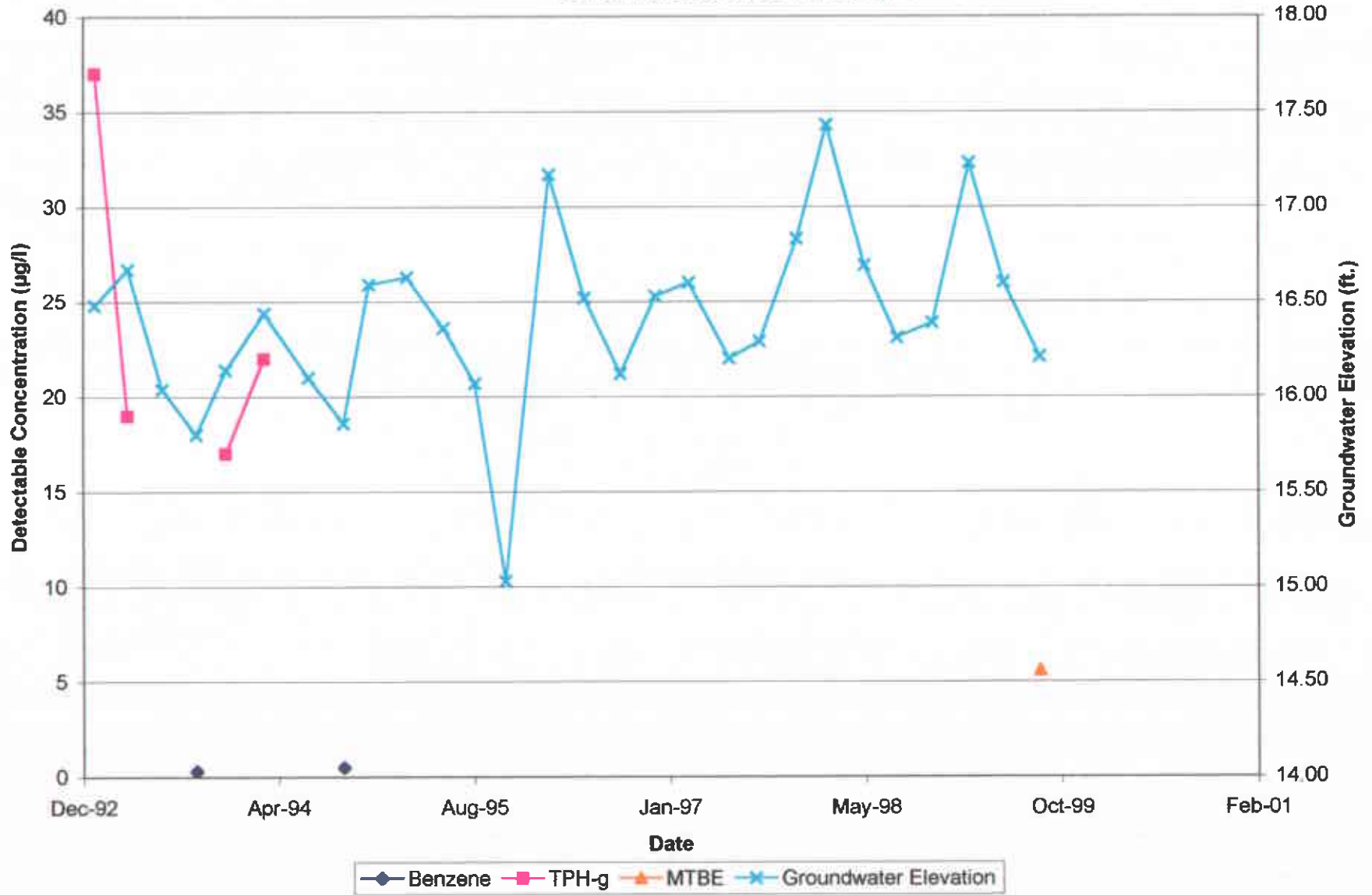
Graph 4, MW-4
Sears Store No. 1058, 2633 Telegraph Avenue
Oakland, California

Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time



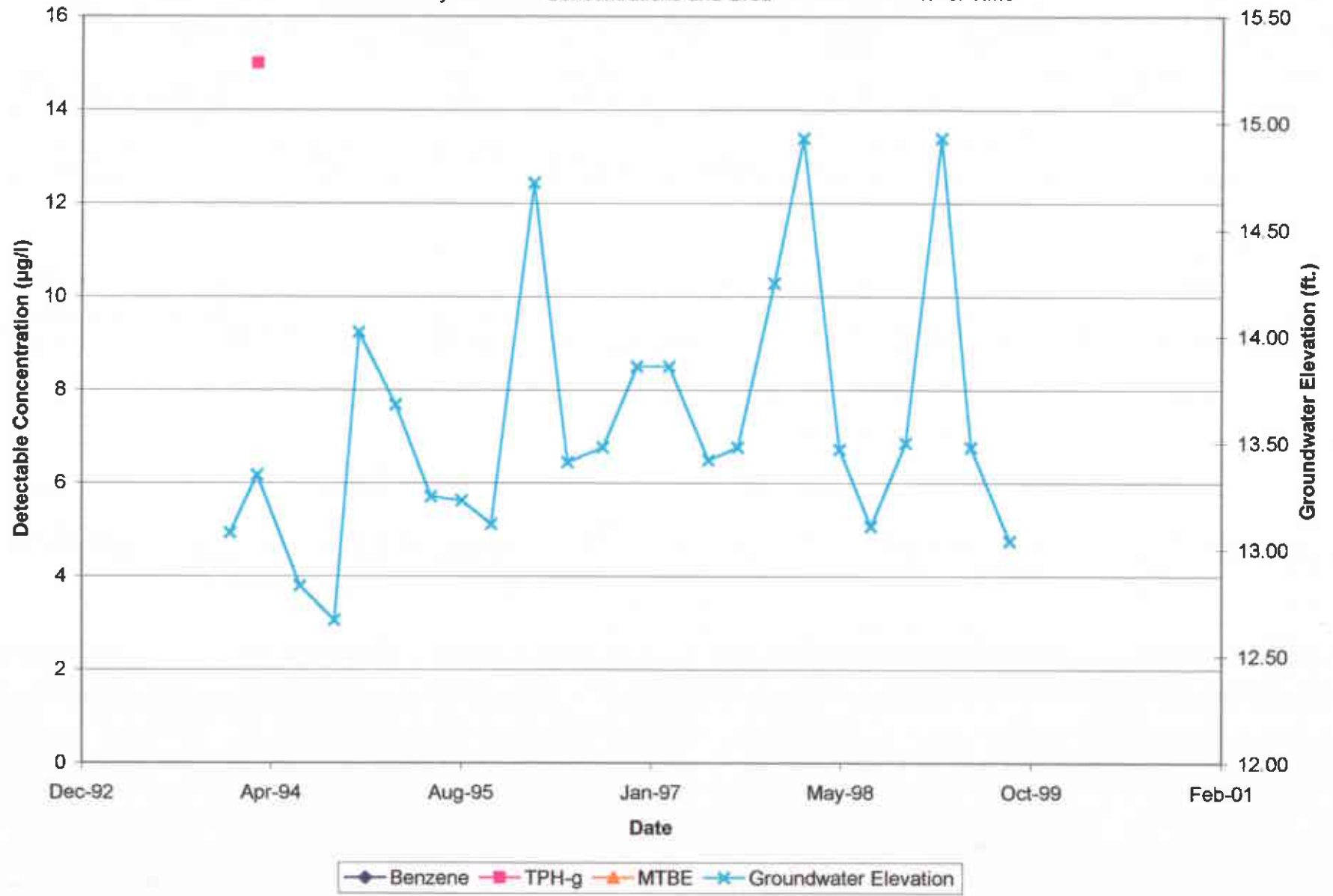
Graph 5, MW-5
Sears Store No. 1058, 2633 Telegraph Avenue
Oakland, California

Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time



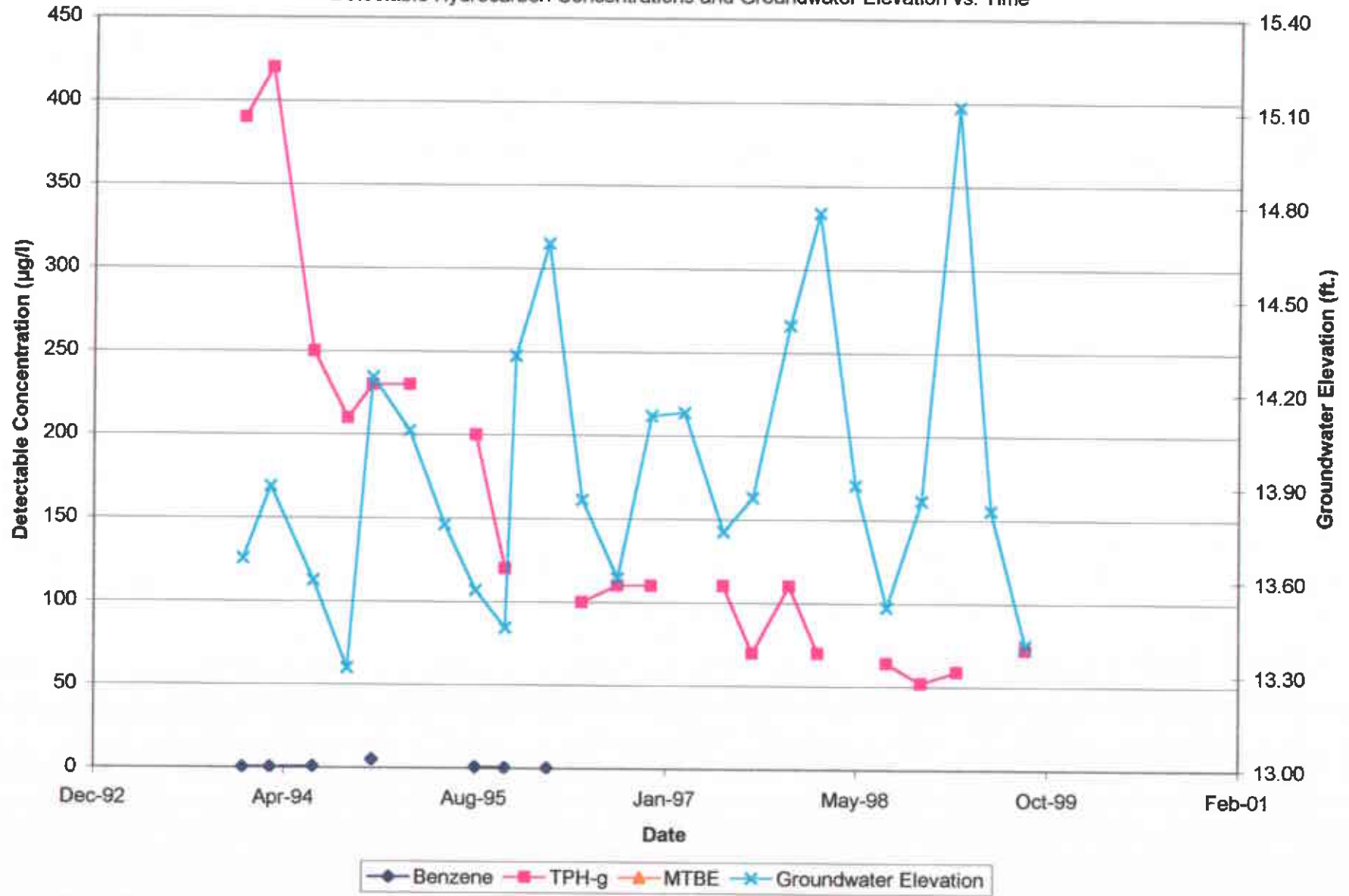
Graph 6, MW-6
Sears Store No. 1058, 2633 Telegraph Avenue
Oakland, California

Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time



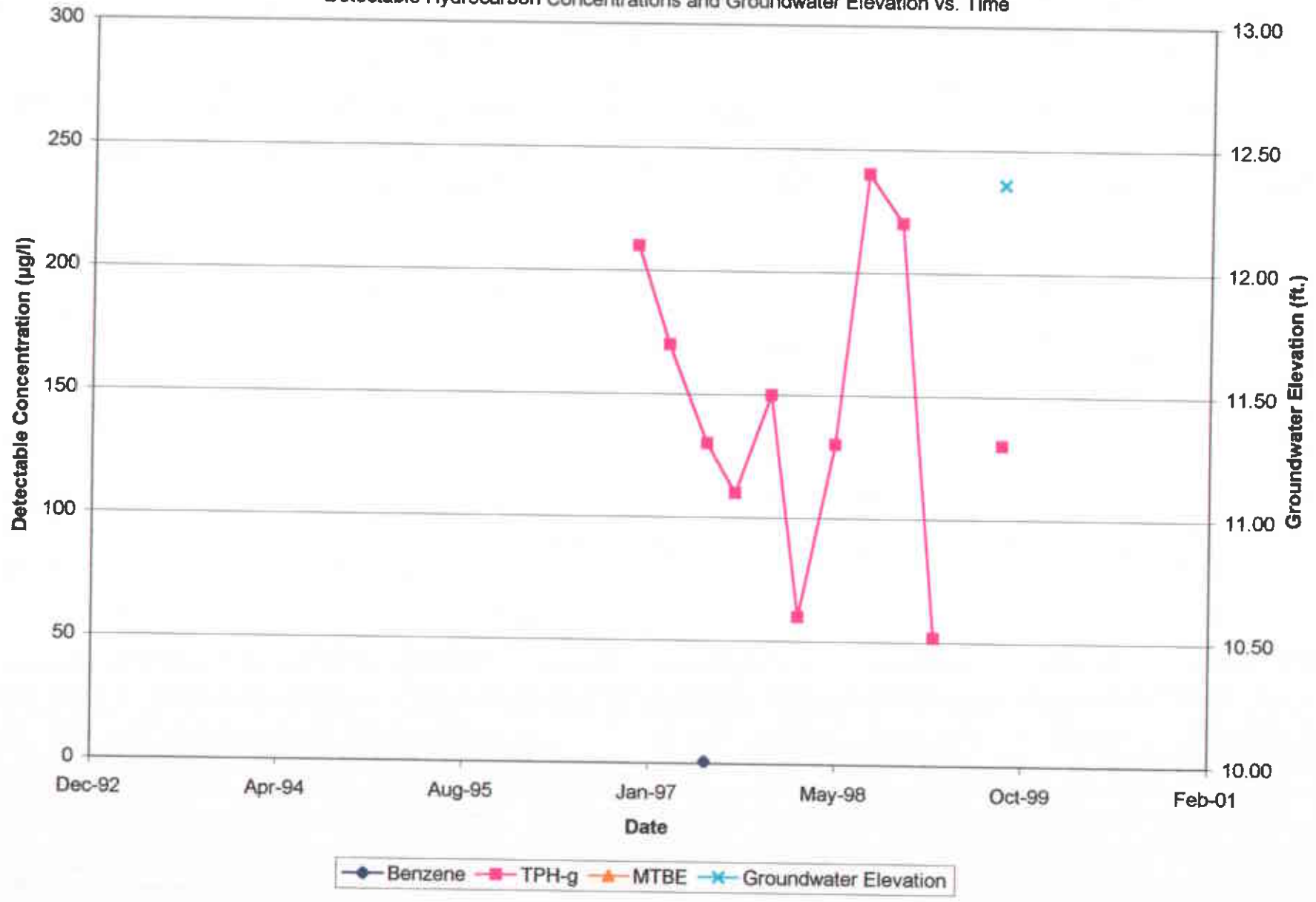
Graph 8, MW-8
 Sears Store No. 1058, 2633 Telegraph Avenue
 Oakland, California

Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time



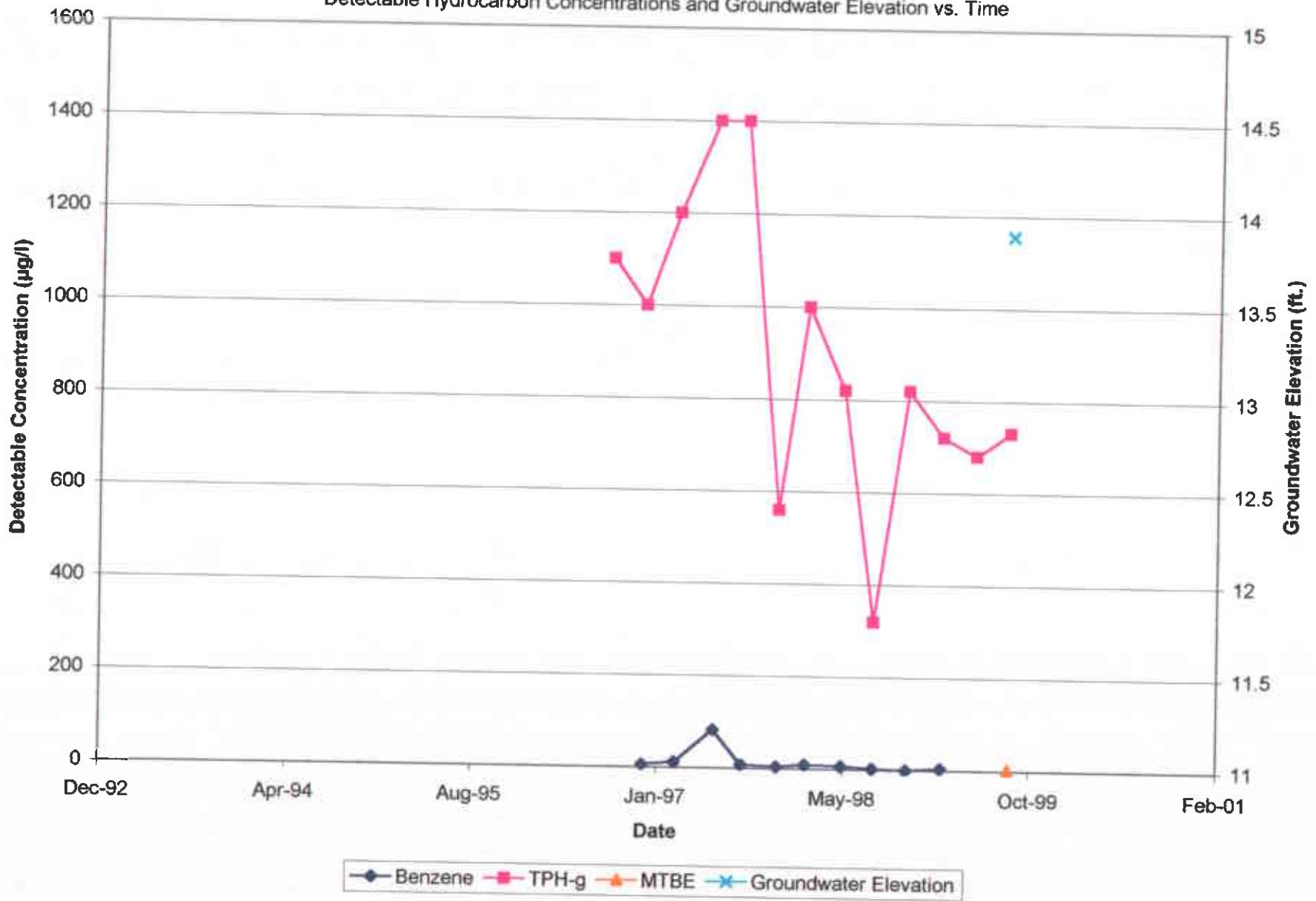
Graph 9, MW-9
Sears Store No. 1058, 2633 Telegraph Avenue
Oakland, California

Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time



Graph 10, EW-1
Sears Store No. 1058, 2633 Telegraph Avenue
Oakland, California

Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time



Attachment 5

Laboratory Reports and Chain-of-Custody Documents



Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

26 August, 1999

Melissa Gossell
T Corporation
57 Arnold Dr., Suite D
Martinez, CA 94553

RE: Sears

Enclosed are the results of analyses for samples received by the laboratory on 12-Aug-99 14:22. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

D Sharma
Dimple Sharma
Project Manager





IT Corporation
757 Arnold Dr., Suite D
Martinez CA, 94553

Project: Sears
Project Number: Sears # 1058
Project Manager: Melissa Gossell

Reported:
26-Aug-99 18:12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	W908259-01	Water	10-Aug-99 13:14	12-Aug-99 14:22
MW-4	W908259-04	Water	10-Aug-99 14:00	12-Aug-99 14:22
MW-6	W908259-02	Water	10-Aug-99 13:24	12-Aug-99 14:22
MW-5	W908259-03	Water	10-Aug-99 13:46	12-Aug-99 14:22
EW-1	W908259-07	Water	10-Aug-99 14:35	12-Aug-99 14:22
MW-8	W908259-06	Water	10-Aug-99 14:22	12-Aug-99 14:22
MW-3	W908259-08	Water	10-Aug-99 14:42	12-Aug-99 14:22
MW-9	W908259-11	Water	10-Aug-99 13:34	12-Aug-99 14:22
MW-7	W908259-05	Water	10-Aug-99 14:12	12-Aug-99 14:22

Sequoia Analytical - Walnut Creek

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Dimple Sharma, Project Manager





IT Corporation
757 Arnold Dr., Suite D
Martinez CA, 94553

Project: Sears
Project Number: Sears # 1058
Project Manager: Melissa Gossell

Reported:
26-Aug-99 18:12

Hydrocarbons as Motor Oil by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TW-1 (W908259-01) Water Sampled: 10-Aug-99 13:14 Received: 12-Aug-99 14:22									
Motor Oil (C16-C36)	ND	250	ug/l	1	9H13003	13-Aug-99	15-Aug-99	DHS LUFT	
Surrogate: n-Pentacosane		72.1 %	50-150		"	"	"	"	
TW-6 (W908259-02) Water Sampled: 10-Aug-99 13:24 Received: 12-Aug-99 14:22									
Motor Oil (C16-C36)	ND	250	ug/l	1	9H13003	13-Aug-99	15-Aug-99	DHS LUFT	
Surrogate: n-Pentacosane		54.1 %	50-150		"	"	"	"	
MW-5 (W908259-03) Water Sampled: 10-Aug-99 13:46 Received: 12-Aug-99 14:22									
Motor Oil (C16-C36)	ND	250	ug/l	1	9H13003	13-Aug-99	15-Aug-99	DHS LUFT	
Surrogate: n-Pentacosane		78.1 %	50-150		"	"	"	"	
MW-4 (W908259-04) Water Sampled: 10-Aug-99 14:00 Received: 12-Aug-99 14:22									
Motor Oil (C16-C36)	ND	250	ug/l	1	9H13003	13-Aug-99	15-Aug-99	DHS LUFT	
Surrogate: n-Pentacosane		66.1 %	50-150		"	"	"	"	
MW-7 (W908259-05) Water Sampled: 10-Aug-99 14:12 Received: 12-Aug-99 14:22									
Motor Oil (C16-C36)	ND	250	ug/l	1	9H24007	24-Aug-99	25-Aug-99	DHS LUFT	
Surrogate: n-Pentacosane		75.1 %	50-150		"	"	"	"	
MW-8 (W908259-06) Water Sampled: 10-Aug-99 14:22 Received: 12-Aug-99 14:22									
Motor Oil (C16-C36)	ND	250	ug/l	1	9H24007	24-Aug-99	26-Aug-99	DHS LUFT	
Surrogate: n-Pentacosane		60.1 %	50-150		"	"	"	"	
EW-1 (W908259-07) Water Sampled: 10-Aug-99 14:35 Received: 12-Aug-99 14:22									
Motor Oil (C16-C36)	1100	250	ug/l	1	9H24007	24-Aug-99	26-Aug-99	DHS LUFT	D-05
Surrogate: n-Pentacosane		81.1 %	50-150		"	"	"	"	

Sequoia Analytical - Walnut Creek

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Anupam Sharma, Project Manager





IT Corporation
757 Arnold Dr., Suite D
Martinez CA, 94553

Project: Sears
Project Number: Sears # 1058
Project Manager: Melissa Gossell

Reported:
26-Aug-99 18:12

Hydrocarbons as Motor Oil by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
IW-3 (W908259-08) Water Sampled: 10-Aug-99 14:42 Received: 12-Aug-99 14:22									
Motor Oil (C16-C36)	54000	13000	ug/l	50	9H24007	24-Aug-99	26-Aug-99	DHS LUFT	D-05
Surrogate: n-Pentacosane		%	50-150		"	"	"	"	D-09
IW-9 (W908259-11) Water Sampled: 10-Aug-99 13:34 Received: 12-Aug-99 14:22									
Motor Oil (C16-C36)	ND	250	ug/l	1	9H24007	24-Aug-99	26-Aug-99	DHS LUFT	
Surrogate: n-Pentacosane		57.1 %	50-150		"	"	"	"	

Sequoia Analytical - Walnut Creek

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Dimple Sharma, Project Manager





IT Corporation
757 Arnold Dr., Suite D
Martinez CA, 94553

Project: Sears
Project Number: Sears # 1058
Project Manager: Melissa Gossell


Reported:
26-Aug-99 18:12

Volatile Organic Compounds by EPA Method 8260A Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (W908259-01) Water Sampled: 10-Aug-99 13:14 Received: 12-Aug-99 14:22									
tert-Butyl alcohol	ND	100	ug/l	1	9H25009	24-Aug-99	24-Aug-99	EPA 8260A	
Methyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Ethylene dibromide	ND	2.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		100 %	50-150		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	50-150		"	"	"	"	
MW-6 (W908259-02) Water Sampled: 10-Aug-99 13:24 Received: 12-Aug-99 14:22									
tert-Butyl alcohol	ND	100	ug/l	1	9H25009	24-Aug-99	24-Aug-99	EPA 8260A	
Methyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Ethylene dibromide	ND	2.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		104 %	50-150		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	50-150		"	"	"	"	
MW-5 (W908259-03) Water Sampled: 10-Aug-99 13:46 Received: 12-Aug-99 14:22									
tert-Butyl alcohol	ND	100	ug/l	1	9H25009	24-Aug-99	24-Aug-99	EPA 8260A	
Methyl tert-butyl ether	5.6	2.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Ethylene dibromide	ND	2.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		100 %	50-150		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		100 %	50-150		"	"	"	"	

Sequoia Analytical - Walnut Creek

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Dimple Sharma, Project Manager





IT Corporation
757 Arnold Dr., Suite D
Martinez CA, 94553

Project: Sears
Project Number: Sears # 1058
Project Manager: Melissa Gossell

Reported:
26-Aug-99 18:12

Volatile Organic Compounds by EPA Method 8260A Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TW-4 (W908259-04) Water Sampled: 10-Aug-99 14:00 Received: 12-Aug-99 14:22									
tert-Butyl alcohol	ND	100	ug/l	1	9H25009	24-Aug-99	24-Aug-99	EPA 8260A	
Methyl tert-butyl ether	2.5	2.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Ethylene dibromide	ND	2.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		100 %	50-150		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.0 %	50-150		"	"	"	"	
TW-7 (W908259-05) Water Sampled: 10-Aug-99 14:12 Received: 12-Aug-99 14:22									
tert-Butyl alcohol	ND	100	ug/l	1	9H25009	24-Aug-99	24-Aug-99	EPA 8260A	
Methyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Ethylene dibromide	ND	2.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		100 %	50-150		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.0 %	50-150		"	"	"	"	
TW-8 (W908259-06) Water Sampled: 10-Aug-99 14:22 Received: 12-Aug-99 14:22									
tert-Butyl alcohol	ND	100	ug/l	1	9H25009	24-Aug-99	24-Aug-99	EPA 8260A	
Methyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Ethylene dibromide	ND	2.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		94.0 %	50-150		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		88.0 %	50-150		"	"	"	"	

Sequoia Analytical - Walnut Creek

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Anupama Sharma, Project Manager





IT Corporation
757 Arnold Dr., Suite D
Martinez CA, 94553

Project: Sears
Project Number: Sears # 1058
Project Manager: Melissa Gossell

Reported:
26-Aug-99 18:12

Volatile Organic Compounds by EPA Method 8260A Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TW-1 (W908259-07) Water Sampled: 10-Aug-99 14:35 Received: 12-Aug-99 14:22									
tert-Butyl alcohol	ND	100	ug/l	1	9H25009	24-Aug-99	24-Aug-99	EPA 8260A	
Methyl tert-butyl ether	3.6	2.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Ethylene dibromide	ND	2.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		100 %	50-150	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.0 %	50-150	"	"	"	"	"	
TW-3 (W908259-08) Water Sampled: 10-Aug-99 14:42 Received: 12-Aug-99 14:22									
tert-Butyl alcohol	ND	100	ug/l	1	9H25009	24-Aug-99	24-Aug-99	EPA 8260A	
Methyl tert-butyl ether	2.2	2.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Ethylene dibromide	ND	2.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		96.0 %	50-150	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.0 %	50-150	"	"	"	"	"	
TW-9 (W908259-11) Water Sampled: 10-Aug-99 13:34 Received: 12-Aug-99 14:22									
tert-Butyl alcohol	ND	100	ug/l	1	9H25009	24-Aug-99	24-Aug-99	EPA 8260A	
Methyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Ethylene dibromide	ND	2.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		98.0 %	50-150	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.0 %	50-150	"	"	"	"	"	

Sequoia Analytical - Walnut Creek

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.


Dimple Sharma, Project Manager





IT Corporation
757 Arnold Dr., Suite D
Martinez CA, 94553

Project: Sears
Project Number: Sears # 1058
Project Manager: Melissa Gossell

Reported:
26-Aug-99 18:12

**Hydrocarbons as Motor Oil by DHS LUFT - Quality Control
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9H13003: Prepared 13-Aug-99 Using EPA 3510B

Blank (9H13003-BLK1)

Motor Oil (C16-C36)	ND	250	ug/l							
Diesel Range Hydrocarbons	ND	50	"							
Surrogate: n-Pentacosane	26.7		"	33.3		80.2	50-150			

LCS (9H13003-BS1)

Diesel Range Hydrocarbons	522	50	ug/l	500		104	60-140			
Surrogate: n-Pentacosane	27.7		"	33.3		83.2	50-150			

LCS Dup (9H13003-BSD1)

Diesel Range Hydrocarbons	510	50	ug/l	500		102	60-140	2.33	50	
Surrogate: n-Pentacosane	27.0		"	33.3		81.1	50-150			

Matrix Spike (9H13003-MS1)

Diesel Range Hydrocarbons	499	50	ug/l	500		99.8	50-150			
Surrogate: n-Pentacosane	27.7		"	33.3		83.2	50-150			

Matrix Spike Dup (9H13003-MSD1)

Diesel Range Hydrocarbons	520	50	ug/l	500		104	50-150	4.12	50	
Surrogate: n-Pentacosane	28.3		"	33.3		85.0	50-150			

Batch 9H24007: Prepared 24-Aug-99 Using EPA 3510B

Blank (9H24007-BLK1)

Motor Oil (C16-C36)	ND	250	ug/l							
Diesel Range Hydrocarbons	ND	50	"							
Surrogate: n-Pentacosane	21.7		"	33.3		65.2	50-150			

Sequoia Analytical - Walnut Creek

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.


Dimple Sharma, Project Manager





IT Corporation
757 Arnold Dr., Suite D
Martinez CA, 94553

Project: Sears
Project Number: Sears # 1058
Project Manager: Melissa Gossell

Reported:
26-Aug-99 18:12

**Hydrocarbons as Motor Oil by DHS LUFT - Quality Control
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9H24007: Prepared 24-Aug-99 Using EPA 3510B

LCS (9H24007-BS1)

Diesel Range Hydrocarbons	417	50	ug/l	500		83.4	60-140			
Surrogate: n-Pentacosane	25.7		"	33.3		77.2	50-150			

LCS Dup (9H24007-BSD1)

Diesel Range Hydrocarbons	412	50	ug/l	500		82.4	60-140	1.21	50	
Surrogate: n-Pentacosane	26.0		"	33.3		78.1	50-150			

Matrix Spike (9H24007-MS1)

Diesel Range Hydrocarbons	433	50	ug/l	500		86.6	50-150			
Surrogate: n-Pentacosane	26.7		"	33.3		80.2	50-150			

Matrix Spike Dup (9H24007-MSD1)

Diesel Range Hydrocarbons	461	50	ug/l	500		92.2	50-150	6.26	50	
Surrogate: n-Pentacosane	29.0		"	33.3		87.1	50-150			

Sequoia Analytical - Walnut Creek

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Dimple Sharma, Project Manager





IT Corporation
757 Arnold Dr., Suite D
Martinez CA, 94553

Project: Sears
Project Number: Sears # 1058
Project Manager: Melissa Gossell

Reported:
26-Aug-99 18:12

Volatile Organic Compounds by EPA Method 8260A - Quality Control Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9H25009: Prepared 24-Aug-99 Using EPA 5030B [P/T]

Blank (9H25009-BLK1)

tert-Butyl alcohol	ND	100	ug/l							
Methyl tert-butyl ether	ND	2.0	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
1,2-Dichloroethane	ND	2.0	"							
tert-Amyl methyl ether	ND	2.0	"							
Ethylene dibromide	ND	2.0	"							
Surrogate: Dibromofluoromethane	50.0		"	50.0		100	50-150			
Surrogate: 1,2-Dichloroethane-d4	49.0		"	50.0		98.0	50-150			

LCS (9H25009-BS1)

Methyl tert-butyl ether	48.6	2.0	ug/l	50.0		97.2	70-130			
Surrogate: Dibromofluoromethane	49.7		"	50.0		99.4	50-150			
Surrogate: 1,2-Dichloroethane-d4	48.0		"	50.0		96.0	50-150			

Matrix Spike (9H25009-MS1)

Source: W908259-08

Methyl tert-butyl ether	47.4	2.0	ug/l	50.0	2.2	90.4	60-140			
Surrogate: Dibromofluoromethane	48.6		"	50.0		97.2	50-150			
Surrogate: 1,2-Dichloroethane-d4	46.1		"	50.0		92.2	50-150			

Matrix Spike Dup (9H25009-MSD1)

Source: W908259-08

Methyl tert-butyl ether	48.3	2.0	ug/l	50.0	2.2	92.2	60-140	1.88	25	
Surrogate: Dibromofluoromethane	48.8		"	50.0		97.6	50-150			
Surrogate: 1,2-Dichloroethane-d4	47.3		"	50.0		94.6	50-150			

Sequoia Analytical - Walnut Creek

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.


Dimple Sharma, Project Manager





IT Corporation
757 Arnold Dr., Suite D
Martinez CA, 94553

Project: Sears
Project Number: Sears # 1058
Project Manager: Melissa Gossell

Reported:
26-Aug-99 18:12

Notes and Definitions

- D-05 Motor Oil.
- D-09 Surrogate diluted out below control limits due to high concentrations of hydrocarbons.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference


Dimple Sharma, Project Manager





Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

International Technology Corp. 4585 Pacheco Blvd. Martinez, CA 94553 Attention: Melissa Gossel	Client Project ID: Sears #1058, Oakland Sample Matrix: Water Analysis Method: EPA 5030/8015 Mod./8020 First Sample #: W908259-01	Sampled: Aug 10, 1999 Received: Aug 12, 1999 Reported: Aug 26, 1999
---	---	---

QC Batch Number: GC082099 GC082099 GC082099 GC082099 GC082099 GC082099 GC082099
802005A 802005A 802005A 802005A 802005A 802005A 802005A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX / MTBE

Analyte	Reporting Limit µg/L	Sample I.D. W908259-01 MW-1	Sample I.D. 02 MW 6	Sample I.D. 03 MW 5	Sample I.D. 04 MW 4	Sample I.D. 05 MW 7	Sample I.D. 06 MW 8
Purgeable Hydrocarbons	50	230	N.D.	N.D.	470	N.D.	72
Benzene	0.50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Toluene	0.50	0.79	N.D.	N.D.	N.D.	N.D.	N.D.
Ethyl Benzene	0.50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Total Xylenes	0.50	2.8	N.D.	N.D.	2.6	N.D.	N.D.
MTBE	2.5	N.D.	N.D.	5.1	N.D.	N.D.	N.D.

Chromatogram Pattern: Gasoline & Unidentified Hydrocarbons C6-C12 -- -- Unidentified Hydrocarbons C6-C12 -- Gasoline

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0	1.0
Date Analyzed:	8/20/99	8/20/99	8/20/99	8/20/99	8/20/99	8/20/99
Instrument Identification:	HP-5	HP-5	HP-5	HP-5	HP-5	HP-5
Surrogate Recovery, %: (QC Limits = 70-130%)	91	89	88	85	87	86

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

D Sharma
Dimple Sharma
Project Manager





International Technology Corp. 4585 Pacheco Blvd. Martinez, CA 94553 Attention: Melissa Gossel	Client Project ID: Sears #1058, Oakland Sample Matrix: Water Analysis Method: EPA 5030/8015 Mod./8020 First Sample #: W908259-07	Sampled: Aug 10, 1999 Received: Aug 12, 1999 Reported: Aug 26, 1999
---	---	---

QC Batch Number: GC082399 GC082399 GC082099 GC082099 GC082399

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX / MTBE

Analyte	Reporting Limit µg/L	Sample I.D. W908259-07 EW-1	Sample I.D. 08 MW 3	Sample I.D. 09 Dup MW 4	Sample I.D. 10 TBLB	Sample I.D. 11 MW 9
Purgeable Hydrocarbons	50	730	2,200	N.D.	N.D.	130
Benzene	0.50	N.D.	N.D.	N.D.	N.D.	N.D.
Toluene	0.50	N.D.	N.D.	N.D.	N.D.	N.D.
Ethyl Benzene	0.50	N.D.	N.D.	N.D.	N.D.	N.D.
Total Xylenes	0.50	N.D.	N.D.	N.D.	N.D.	0.96
MTBE	2.5	N.D.	N.D.	N.D.	N.D.	N.D.

Chromatogram Pattern: Gasoline Gasoline & Unidentified Hydrocarbons > C10 -- -- Gasoline

Quality Control Data

Report Limit Multiplication Factor:	10	10	1.0	1.0	1.0
Date Analyzed:	8/23/99	8/23/99	8/20/99	8/20/99	8/23/99
Instrument Identification:	HP-5	HP-5	HP-5	HP-5	HP-4
Surrogate Recovery, %: (QC Limits = 70-130%)	95	86	116	86	88

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

D Sharma
Dimple Sharma
Project Manager





International Technology Corp.
4585 Pacheco Blvd.
Martinez, CA 94553
Attention: Melissa Gossel

Client Project ID: Sears #1058, Oakland
Matrix: Liquid

QC Sample Group: W908259

Reported: Aug 26, 1999

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC082399 802004A	GC082399 802004A	GC082399 802004A	GC082399 802004A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	C. Westwater	C. Westwater	C. Westwater	C. Westwater
MS/MSD #:	908283-06	908283-06	908283-06	908283-06
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	8/23/99	8/23/99	8/23/99	8/23/99
Analyzed Date:	8/23/99	8/23/99	8/23/99	8/23/99
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Result:	21	17	18	61
MS % Recovery:	105	85	90	102
Dup. Result:	16	14	16	56
MSD % Recov.:	80	70	80	93
RPD:	27	19	12	8.5
RPD Limit:	0-20	0-20	0-20	0-20

LCS #:	4LCS082399	4LCS082399	4LCS082399	4LCS082399
Prepared Date:	8/23/99	8/23/99	8/23/99	8/23/99
Analyzed Date:	8/23/99	8/23/99	8/23/99	8/23/99
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
LCS Result:	21	18	19	64
LCS % Recov.:	105	90	95	107
LCSD Result:	22	18	19	63
LCSD % Recov.:	110	90	95	105

MS/MSD	LCS	70-130	70-130	70-130	70-130
Control Limits					

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS= Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

SEQUOIA ANALYTICAL, #1271

Sharma
Dimple Sharma
Project Manager





International Technology Corp.
4585 Pacheco Blvd.
Martinez, CA 94553
Attention: Melissa Gossel

Client Project ID: Sears #1058, Oakland
Matrix: Liquid

QC Sample Group: W908259

Reported: Aug 26, 1999

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC082099 802005A	GC082099 802005A	GC082099 802005A	GC082099 802005A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	C. Westwater	C. Westwater	C. Westwater	C. Westwater
MS/MSD #:	908259-01	908259-01	908259-01	908259-01
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	8/20/99	8/20/99	8/20/99	8/20/99
Analyzed Date:	8/20/99	8/20/99	8/20/99	8/20/99
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Result:	20	20	20	62
MS % Recovery:	100	100	100	103
Dup. Result:	18	19	18	58
MSD % Recov.:	90	95	90	97
RPD:	11	5.1	11	6.7
RPD Limit:	0-20	0-20	0-20	0-20

LCS #:	5LCS082099	5LCS082099	5LCS082099	5LCS082099
Prepared Date:	8/20/99	8/20/99	8/20/99	8/20/99
Analyzed Date:	8/20/99	8/20/99	8/20/99	8/20/99
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
LCS Result:	19	19	19	60
LCS % Recov.:	95	95	95	100

MS/MSD LCS Control Limits	70-130	70-130	70-130	70-130
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Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

SEQUOIA ANALYTICAL, #1271

Dimple Sharma
Dimple Sharma
Project Manager





International Technology Corp.
4585 Pacheco Blvd.
Martinez, CA 94553
Attention: Melissa Gossel

Client Project ID: Sears #1058, Oakland
Matrix: Liquid

QC Sample Group: W908259

Reported: Aug 26, 1999

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC082399 802005A	GC082399 802005A	GC082399 802005A	GC082399 802005A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	C. Westwater	C. Westwater	C. Westwater	C. Westwater
MS/MSD #:	908284-04	908284-04	908284-04	908284-04
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	8/23/99	8/23/99	8/23/99	8/23/99
Analyzed Date:	8/23/99	8/23/99	8/23/99	8/23/99
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Result:	19	19	19	59
MS % Recovery:	95	95	95	98
Dup. Result:	19	19	19	60
MSD % Recov.:	95	95	95	100
RPD:	0.0	0.0	0.0	1.7
RPD Limit:	0-20	0-20	0-20	0-20

LCS #:	5LCS082399	5LCS082399	5LCS082399	5LCS082399
Prepared Date:	8/23/99	8/23/99	8/23/99	8/23/99
Analyzed Date:	8/23/99	8/23/99	8/23/99	8/23/99
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
LCS Result:	21	21	21	65
LCS % Recov.:	105	105	105	108

MS/MSD LCS Control Limits	70-130	70-130	70-130	70-130

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS= Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

SEQUOIA ANALYTICAL, #1271

Dimple Sharma
Dimple Sharma
Project Manager





SEQUOIA ANALYTICAL CHAIN OF CUSTODY

580 Chesapeake Drive • Redwood City, CA 94063 • (650) 364-9600 FAX (650) 364-9233
 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673
 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342

Company Name: IT			Project Name: SEARS #1058 OAKLAND CA		
Mailing Address: 757 ARNOLD DR. SUITE D			Billing Address (if different): 2633 Telegraph		
City: MARTINEZ	State: CA	Zip Code: 94533	1176603 - 03054300		
Telephone: (925) 370-3790		FAX: (925) 370-3991	P.O. #: W908259		
Report To: MELISSA GUSSELL	Sampler: H Merino		QC Data: <input type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A		

Turnaround 10 Working Days 3 Working Days 2 - 8 Hours
 Time: 7 Working Days 2 Working Days
 5 Working Days 24 Hours

Analyses Requested
 Drinking Water
 Waste Water
 Other

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	Analyses Requested										Comments				
1. MW-1	8/13:14	GW	8	40ML GILLNET	01A-H	X	X	X												MATBE Det
2. MW6	13:24	GW	8		02A-H	X	X	X												in 1500 need code
3. MW9	10/13:34	GW	8		11A-H	X	X	X												by 8260
4. MW5	99/13:46	GW	8		03A-H	X	X	X												Please run as needed
5. MW2	14:58		8			X	X	X												
6. MW4	14:00	GW	8		04A-H	X	X	X												as per Hector
7. MW7	14:12	GW	8		05A-H	X	X	X												cancel as per melissa
8. MW8	14:22	GW	8		06A-H	X	X	X												
9. EW-1	14:35	GW	8		07A-H	X	X	X												on 8/12/99 at 1500.
10. MW3	14:42	GW	8		08A-H	X	X	X												

Relinquished By:	Date: 8/12	Time: 9:45	Received By:	Date: 8/12	Time: 9:45
Relinquished By:	Date: 8/12	Time: 14:22	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab: Ronald C. Jensen WC	Date: 8/12/99	Time: 14:22

Pink - Client

Yellow - Sequoia

White - Sequoia



SEQUOIA ANALYTICAL CHAIN OF CUSTODY

600 Chesapeake Drive • Redwood City, CA 94063 • (650) 364-0000 FAX (650) 364-0233
 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673
 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342

Company Name: IT			Project Name: SEARS # 105B OAKLAND CA		
Mailing Address: 757 ARNOLD DR. Suite D			Billing Address (if different): 2633 Telegraph Ave		
City: MARTINEZ	State: CA	Zip Code: 94533	1176603-03054300		
Telephone: (925) 370-3990		FAX #: (925) 370-3991	P.O. #: W908259		
Report To: Melissa Gossell		Sampler: [Signature]	QC Data: <input type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A		

Turnaround 10 Working Days 3 Working Days 2 - 8 Hours
 Time: 7 Working Days 2 Working Days
 5 Working Days 24 Hours

Drinking Water
 WASTE WATER
 Other

Analyses Requested

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	Analyses Requested										Comments				
1. DUP MW 4	8/10	1400 GW	3	40ML	09A-C	X														
2. TBLB	8/9	DI	1	40ML	10A	X														
3.																				
4.																				
5.																				
6.																				
7.																				
8.																				
9.																				
10.																				

Relinquished By: [Signature]	Date: 8/12	Time: 9:45	Received By: [Signature]	Date: 8/12	Time: 9:45
Relinquished By: [Signature]	Date: 8/12	Time: 14:22	Received By: [Signature]	Date: 8/12/99	Time: 14:22
Relinquished By: [Signature]	Date: 8/12/99	Time: 14:22	Received By Lab: Ronald C. Jensen WC	Date: 8/12/99	Time: 14:22

Pink - Client
 Yellow - Sequoia
 White - Sequoia