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**IT Corporation**  
757 Arnold Drive, Suite D  
Martinez, CA 94553-6526  
Tel. 925.370.3990  
Fax. 925.370.3991  
  
A Member of The IT Group

### Transmittal Letter

Date: July 14, 1999  
To: Amir Gholami  
Company: Alameda County HCS  
Address: 1131 Harbor Bay Parkway, Ste 250  
City: Alameda State/Zip: CA 94502-6577

We are sending via:

- Courier     U.S. Mail     UPS     Overnight Mail     Other \_\_\_\_\_

The following:

- Report     Shop Drawings     Samples  
 Proposal     Specifications     Other \_\_\_\_\_

Transmitted as checked:

- Approved     For Approval     Approved as Noted  
 For Correction     For Your Use     As Requested  
 For Comments     For Your Records     For Distribution

Comments:

Dear Mr. Gholami,

Enclosed is the Second Quarter 1999, Groundwater Monitoring and Sampling Report for the Sears, Roebuck and Co. Store No. 1058 located at 2633 Telegraph Avenue, in Oakland, California. If you have any questions, please call me at (925) 370-3990 extension 266.

Sincerely,  
**IT Corporation**

Melissa Gossell

Melissa Gossell  
West Zone Project Manager

c: Mr. Scott DeMuth, Sears, Roebuck and Co.  
USA Petroleum Files  
Mr. Russ Zora, IT Corporation, Central Files, Lenexa, KS  
Project Files



ENVIRONMENTAL  
PROTECTION  
99 JUL 15 AM 9: 55

**IT Corporation**

757 Arnold Drive, Suite D  
Martinez, CA 94553-6526  
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Fax. 925.370.3991

A Member of The IT Group

July 15, 1999

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

Subject: Second Quarter 1999, Groundwater Monitoring and Sampling Report  
Former Sears 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 May 11, 1999, from the above referenced site. The 10 groundwater monitoring wells were gauged to determine depth to groundwater and to check for the presence of separate-phase petroleum hydrocarbons. No separate-phase hydrocarbons were detected in the monitoring wells. Separate-phase hydrocarbons had been present in monitoring well MW-3 during the first quarter 1999. A potentiometric surface map is provided in attachment 1, figure 1. A historical summary of groundwater monitoring data is provided in attachment 2, table 1.

After measuring depth to water, seven of the 10 monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-8, MW-9, and EW-1) were purged and sampled. 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; total petroleum hydrocarbons as gasoline (TPH-g) using Environmental Protection Agency (EPA) Method 8015 modified; and total extractable petroleum hydrocarbons as motor oil (TPH-mo) using EPA Method 8015 modified (GC/FID). Confirmation analysis for MTBE was performed on two samples, MW-3 and MW-4, using EPA Method 8260.

Static groundwater levels for the second quarter 1999 ranged from 13.48 to 16.60 feet above mean sea level (an average of 11.52 feet below top of casing). Groundwater elevations have decreased by approximately 1 foot since first quarter 1999 (February 9 and 10, 1999). The apparent groundwater flow is to the south at an average hydraulic gradient of 0.018 foot per foot, and is consistent with previous quarterly data.

Analytical results indicated low benzene concentrations in only one well, MW-3. Low concentrations of MTBE were reported in monitoring wells MW-3 and MW-4 when analyzed by EPA Method 8020; however, using EPA Method 8260, MTBE was below detection limits in these samples. Monitoring wells MW-1, MW-3, MW-9, and EW-1 contained low concentrations of TPH-g. Monitoring wells MW-3 and EW-1 contained TPH-mo at concentrations of 59,000 micrograms per liter ( $\mu\text{g/L}$ ) and 4,800  $\mu\text{g/L}$ , respectively. Separate-phase hydrocarbons had been measured in monitoring well MW-3 during the first quarter 1999. 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 was limited to the vicinity of MW-3; therefore, the volume of separate-phase hydrocarbons at the site is estimated to have been small, less than 5 gallons.


In order to address the separate-phase hydrocarbons issue, an IT 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 remedial action will be provided under separate cover.

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:

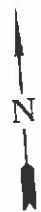
  
\_\_\_\_\_  
Ed K. Simonis, R.G.  
Senior Geologist



Attachments:

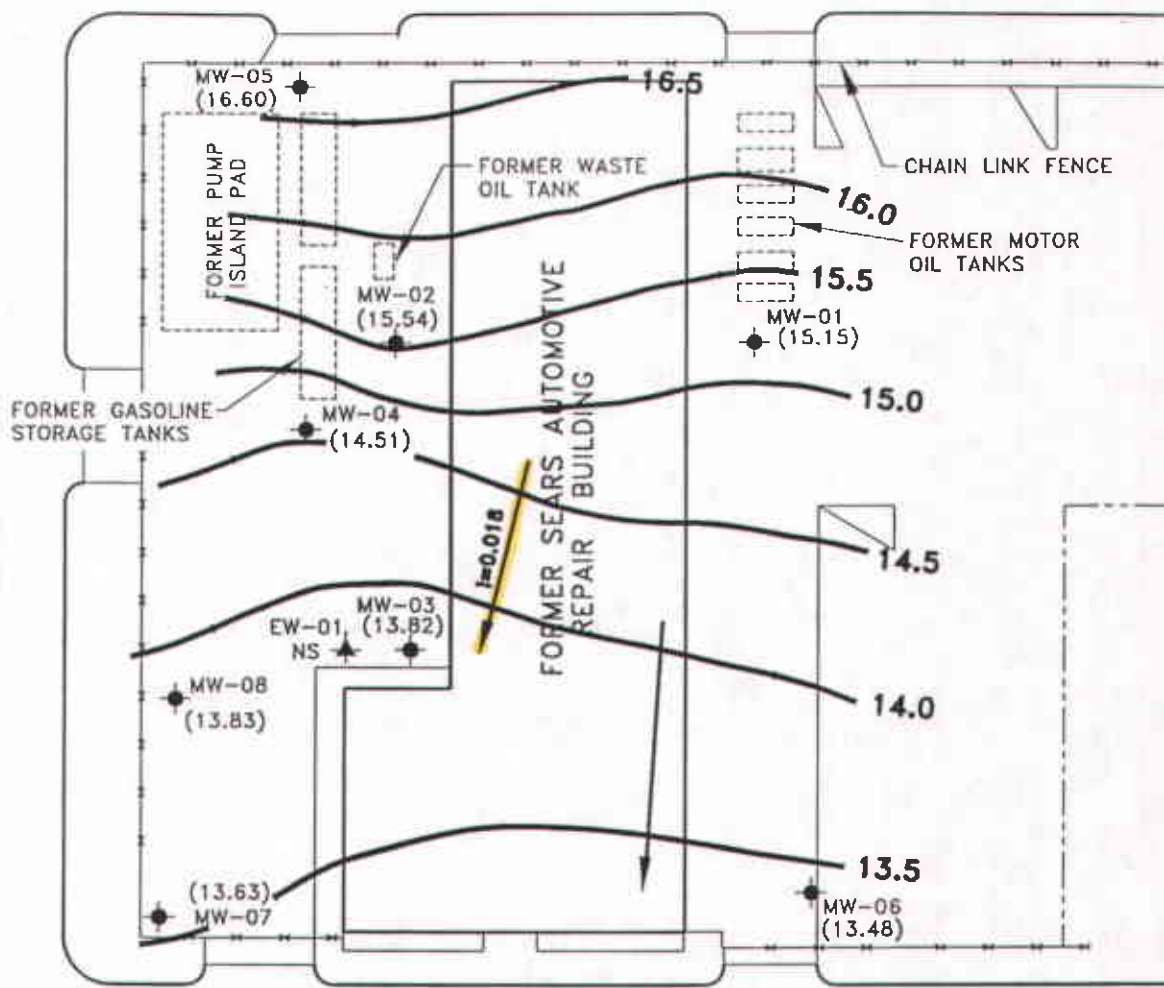
1. Figures
2. Tables
3. Groundwater Monitoring and Sample Collection Protocol and Field Data Sheets
4. Graphs
5. Laboratory Reports and Chain-of-Custody Documents

c: Scott M. DeMuth, Sears, Roebuck and Co.  
USA Petroleum files  
Mr. Russ Zora, IT Corporation, Central Files



27th STREET

TELEGRAPH AVENUE



26th STREET

**LEGEND**

- MONITORING WELL
- EXTRACTION WELL
- ( ) NOT SURVEYED
- POTENTIOMETRIC SURFACE CONTOUR; INTERVAL = 0.5 ft
- GROUNDWATER FLOW DIRECTION AND AVERAGE GRADIENT



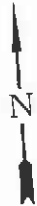
**IT CORPORATION**



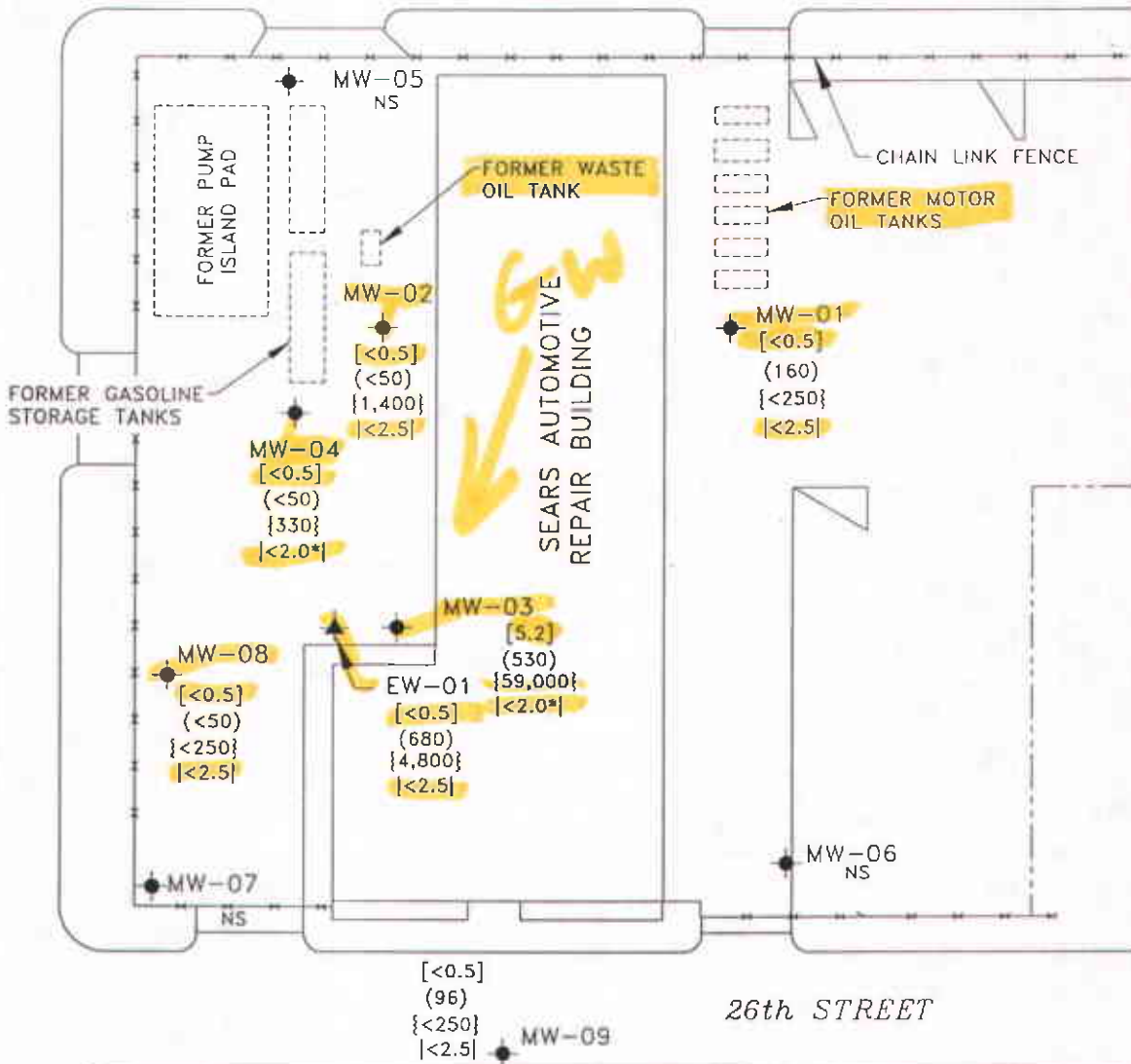
**POTENTIOMETRIC SURFACE MAP  
(GAUGED 5/11/99)**

CLIENT: SEARS, ROEBUCK AND CO. SITE NO. 1058	FILE: PSM0599 (1:40)	PROJECT NO.: 1176603	PM	PE/RG <i>EG</i>
	REV.	FIGURE: 1		
LOCATION: 2600 TELEGRAPH AVENUE OAKLAND, CALIFORNIA	DES. DG	DET. TRS	DATE: 6/25/99	

27th STREET



TELEGRAPH AVENUE



**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]  
(\* CONFIRMED BY EPA METHOD 8260)
- NS NOT SAMPLED



IT CORPORATION



**CONCENTRATIONS OF BENZENE, TPH-AS GASOLINE, TPH-AS-MOTOR OIL & MTBE IN GROUNDWATER SAMPLED (5/99)**

CLIENT: SEARS, ROEBUCK AND CO. SITE NO. 1058	FILE: BENNO599	PROJECT NO.: 1176603	PM <i>[Signature]</i>	PE/RG
LOCATION: 2600 TELEGRAPH AVENUE OAKLAND, CALIFORNIA	REV.	DES. DG	DET. DL	DATE: 6/23/99
				FIGURE: <b>2</b>

**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			

**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 (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
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		

**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-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
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
		MW-4	26.17	12/30/92	11.53	-
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		
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		
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		
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
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
MW-9	N/A	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		
EW-1	N/A	12/02/96	12.17	--	--	N/A
		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		

Notes:

- = No datum for the cell, including "product not detected"
- NM = not monitored
- N/A = not Available

**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-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	
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	-	ND	-
	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	-	ND <sup>15</sup>	-
	12/01/94	<0.3	<0.3	<0.3	<0.5	54	<sup>1</sup> 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 <sup>20</sup>	-
	11/15/95	<0.5	<0.5	<0.5	<0.5	<50	6,100	-	ND	-
	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	

**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-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	<del>59,000</del>	--	--	<2.0
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	



**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	<sup>b</sup> c5	--
	03/24/93	<0.3	<0.3	<0.3	0.5	19	--	2	<sup>a</sup> 341	--
	06/21/93	<0.3	<0.3	<0.3	<0.5	<10	<100	--	<sup>c</sup> ND	--
	09/16/93	0.3	<0.3	<0.3	1	<10	<100	--	<sup>c</sup> ND	--
	12/01/93	<0.3	<0.3	<0.3	1	17	--	--	<sup>c</sup> ND	--
	12/30/93	--	--	--	--	--	<100	--	--	--
	03/09/94	<0.3	<0.3	<0.3	<0.5	22	<100	--	<sup>c</sup> 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	--	<sup>d</sup> 7	--
	08/29/95	<0.3	<0.3	<0.3	<0.5	<50	<250	--	<sup>b</sup> 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	--	--	<5
	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	--	<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	<50	<500	--	--	3.2	
05/11/99	--	--	--	--	--	--	--	--	--	
MW-6	12/27/93	<0.3	<0.3	<0.3	<0.5	<10	<100	<1	<sup>a</sup> 70	--
	03/09/94	<0.3	<0.3	<0.3	<0.5	15	<100	--	<sup>c</sup> ND	--
	06/30/94	<0.3	<0.3	<0.3	<0.5	<10	<100	--	<sup>d</sup> ND	--
	09/27/94	<0.3	<0.3	<0.3	<0.5	<10	<250	--	<sup>e</sup> 8	--
	12/01/94	<0.3	<0.3	<0.3	<0.5	<10	<250	--	<sup>b</sup> 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	--	<sup>b</sup> 24	--
	11/15/95	<0.5	<0.5	<0.5	<0.5	<50	<200	--	<sup>b</sup> 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	--	--	<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	<50	<500	--	--	7.1	
05/11/99	--	--	--	--	--	--	--	--	--	

**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	<sup>a</sup> 40	--
	03/09/94	<0.3	<1.0	1.5	4.1	620	<100	--	<sup>a</sup> 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	<sup>a</sup> <250	--	ND	--
	12/01/94	<0.3	<0.3	<0.3	1.1	<10	<sup>a</sup> <250	--	<sup>a</sup> 28	--
	03/08/95	<0.3	<0.3	<0.3	<0.5	<10	<sup>a</sup> <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	--	<sup>a</sup> 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	--	--	--	--	--	--	--	--	--	
MW-8	12/27/93	0.4	4	0.4	1	390	<100	<1	<sup>a</sup> 18	--
	03/09/94	0.6	0.8	0.5	1.5	420	<100	--	<sup>a</sup> 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	<sup>a</sup> <250	--	<sup>a</sup> 9	--
	12/01/94	5.4	<0.3	0.7	1.3	230	<sup>a</sup> <250	--	<sup>a</sup> ND	--
	03/08/95	<0.3	<0.3	<0.3	<0.5	230	<sup>a</sup> <250	--	ND	--
	06/09/95	<0.3	<0.3	<0.3	<0.5	<50	<sup>a</sup> <250	--	ND	--
	08/29/95	0.9	0.4	<0.3	0.8	200	<sup>a</sup> <250	--	<sup>a</sup> 15	--
	11/15/95	0.58	<0.5	<0.5	0.54	120	--	--	<sup>a</sup> 21	--
	12/11/95	--	--	--	--	--	<sup>a</sup> <200	--	--	--
	03/05/96	0.6	<1.0	<1.0	<2.0	<100	<sup>a</sup> <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	--	--	<5
	11/28/97	<0.5	<0.5	<0.5	<2.0	110	<200	--	--	<5
	02/12/98	<0.5	<0.5	0.6	<2.0	70	<200	--	--	<5
	05/20/98	<0.5	<0.5	<0.5	<2.0	<50	<200	--	--	<5
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	

**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
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	

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.

SITE VISIT FORM  
IT Corporation - Martinez, California

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

Technician: Hector Marino  
Scheduled: 5/10/99  
Site Mgr:

PREPARATORY COMMENTS

Visit Date: 5-11-99 Arrival Time: 9:30 AM Departure Time: 1500

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

Called PM?  Y/N Time: \_\_\_\_\_ Who: BELLO Topic: MW-3

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

LOC: 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: 5/6/99 @ 1:30 goss

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 and temperature. NOTE: Recharge DTW.

SITE VISIT FORM  
IT Corporation - Martinez, California

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

Technician: H. Merino  
 Scheduled: 5/10/99  
 Site Mgr:

GROUNDWATER SAMPLING (Continued) - Task Nr: 03054300 [Quarterly]

3. Collect one trip blank and one duplicate from MW-4 and submit for BTEX-8020 only.
4. Complete detailed drum count. Check with owner if drums can be left in corner. Label drums properly (Non Haz).
5. Submit samples to Sequoia Analytical in Walnut Creek, CA ph# (925) 988-9600. To be analyzed for BTEX/MTBE/TPH-G (EPA 8020/8015), and TPH-Motor Oil (EPA 8015). NOTE ON COC: MTBE DETECTIONS IN 8020 NEED CONFIRMATION BY 8260, PLEASE RUN AS NEEDED.
6. COMPLETED ALL THREE PAGES OF WASTE INVENTORY FORM? \_\_\_\_\_ IF NO, EXPLAIN \_\_\_\_\_
7. Record hours used on-site as well as travel time used.

HOURS ESTIMATED FOR MARCH/AUG 6.0

JUNE/DEC 5.0

Hours Estimated

6.00

Hours Used

FINAL CHECKS

SITE SECURITY: well/covers/gates... secure? Y/N-If No, Explain

WASTE COMPLIANCE: # of Drums w/: Water\_\_\_, Soil\_\_\_, Empty\_\_\_, Other\_\_\_

DRUMS labeled? NA/Y/N Gen. Date:\_\_\_\_\_ Label Type:\_\_\_\_\_

SOIL pile? Y/N size:\_\_\_\_\_cu.yds.

SITE LEFT CLEAN? Y/N

ONSITE 6.50

TRAVEL 1.50

SITE VISIT FORM  
IT Corporation - Martinez, California

Project: 1176603.00

Site: SEARS/#1058/Oakland, CA

Project Mgr: Melissa Gossell

Technician: *A. Merino*

Scheduled: 5/10/99

Site Mgr:

TECHNICIAN'S COMMENTS

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Total Hours Estimated

6.00

Total Hours Used

Travel Time Estimated

1.50

Travel Time Used

\_\_\_\_\_  
Technician



**SITE VISIT FORM**  
IT Corporation

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

Technician: A 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: 5-11-99 Arrival Time: 9:30 Departure Time: \_\_\_\_\_

Called Project Manager?  YES  NO Time: \_\_\_\_\_ Who: BECC

If you did not call, why not? \_\_\_\_\_

Weather: Rain Snow  Sunny  Cloudy Temperature: \_\_\_\_\_

Well ID

MW-1:	DTB_21.72	DTW <u>11.05</u>	SAT. THICK _____	#GAL. BAILED _____
MW-2:	DTB_21.79	DTW <u>10.96</u>	SAT. THICK _____	#GAL. BAILED _____
MW-3:	DTB_24.67	DTW <u>12.52</u>	SAT. THICK _____	#GAL. BAILED _____
MW-4:	DTB_22.97	DTW <u>11.66</u>	SAT. THICK _____	#GAL. BAILED _____
MW-5:	DTB_25.27	DTW <u>10.38</u>	SAT. THICK _____	#GAL. BAILED _____
MW-6:	DTB_22.05	DTW <u>10.84</u>	SAT. THICK _____	#GAL. BAILED _____
MW-7:	DTB_21.70	DTW <u>11.25</u>	SAT. THICK _____	#GAL. BAILED _____
MW-8:	DTB_22.14	DTW <u>12.29</u>	SAT. THICK _____	#GAL. BAILED _____
MW-9:	DTB_20.30	DTW <u>11.69</u>	SAT. THICK _____	#GAL. BAILED _____
EW-1	DTB_22.30	DTW <u>12.56</u>	SAT. THICK _____	#GAL. BAILED _____

NOTES: LEFT stainless steel bailer in well. (MW-3)  
NO DNAPL in bailer, WATER had A heavy sheen & small droplets in bailer, not enough for probe to detect, Small Amount sticking to outside bailer. NO product detected in recharge.

HOURS ESTIMATED:

HOURS USED:

FINAL CHECKS

Are Wells Locked?  YES  NO Why Not?

Are Manholes Bolted Down?  YES  NO Why Not?

SITE VISIT FORM  
IT Corporation

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

Technician:  
Schedule:  
Job No. 1176603.03054300

TECHNICIAN'S COMMENTS

Multiple horizontal lines for technician comments.

TOTAL HOURS ESTIMATED:

HOURS USED:

TRAVEL TIME ESTIMATED:

TRAVEL TIME USED:

\_\_\_\_\_  
TECHNICIAN

DRUMMED MATERIAL INVENTORY FORM

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

Sears Facility Contact and Phone # \_\_\_\_\_

IT Corporation Representative A Merino

Accumulation Start Date 5-11-99 Completion Date: 5-11-99

Exact Drum Storage Location BEHIND RESTAURANT, NEXT TO FENCE

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	<u>2</u>	<u>A, B</u>	<u>O or B</u>	H / N / U	
GASOLINE IMPACTED PURGE WATER			O or B	H / N / U	
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!

DRUMMED MATERIAL INVENTORY FORM

Store Number 1058

City/State 2633 Telegraph AVE

IT Corporation Representative A Merino

THERE SHOULD NEVER BE 2 DRUMS WITH THE SAME DRUM ID PRESENT AT A SITE AT THE SAME TIME

DRUM ID	ACCUMULATION START DATE	CONTENTS (as on label) VOLUME (if mixed waste)	SOURCE (be specific)	SLUDGE PRESENT Y/N	VOLUME (gallon)
<u>A</u>	<u>5-11-99</u>	<u>PURGE WATER</u>	<u>Well water</u>	<u>NO</u>	<u>55</u>
<u>B</u>	<u>5-11-99</u>	<u>PURGE WATER</u>	<u>Well water</u>	<u>NO</u>	<u>30</u>

EXAMPLE

<u>A</u>	<u>6/24/94</u>	<u>diesel(3)/water(8)</u>	<u>diesel lines, flush water</u>	<u>no</u>	<u>11</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 26033 Telegraph Ave

Sears Facility Contact and Phone # \_\_\_\_\_

IT Corporation Representative \_\_\_\_\_

Accumulation Start Date 5-11-99 Completion Date 5-11-99

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 \_\_\_\_\_  $\div 2 \div 27 =$  \_\_\_\_\_ Yds<sup>3</sup>

Calculation for a rectangular or square shaped soil pile:

Length \_\_\_\_\_ X Width \_\_\_\_\_ X Height \_\_\_\_\_  $\div 27 =$  \_\_\_\_\_ Yds<sup>3</sup>

Calculation for a conical (cone) shaped soil pile:

.04 X Radius \_\_\_\_\_ X Radius \_\_\_\_\_ X Height \_\_\_\_\_ = \_\_\_\_\_ Yds<sup>3</sup>

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

Date: 5-11-99  
 Page 1 of 7  
 Project Manager: Melissa Gossell

Well ID: MW-1

DTW Measurements:  
 Initial: 11.05 Calc Well Volume: 1.7 gal  
 Recharge: 11.45 Well Volume: 5.2 gal  
 DTB: 21.72

Well Diameter: 2

Purge Method  
 Peristaltic \_\_\_\_\_  
 Gear Drive \_\_\_\_\_  
 Submersible

Pump Depth \_\_\_\_\_ ft.  
 Hand Bailed \_\_\_\_\_  
 Air Lift \_\_\_\_\_  
 Other \_\_\_\_\_

Instruments Used  
 YSI:  \_\_\_\_\_ Other: \_\_\_\_\_  
 Hydac: \_\_\_\_\_  
 Omega: \_\_\_\_\_

Time	Temp	Conductivity (mmhos/cm)	pH	Purge Volume Gallons	Turbidity	Comments
	<del>C</del> F					
11:30	20.5	0.99	6.46	1	↓ cloudy brown	
11:32	20.5	1.12	6.46	2		
11:33	20.5	1.17	6.46	3		
11:34	20.5	1.21	6.46	4		
11:35	20.5	1.34	6.46	5		



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

Date: 5-11-99  
 Page 3 of 7  
 Project Manager: Melissa Gossell

Well ID: MW 8  
 Well Diameter: 2

DTW Measurements:  
 Initial: 2.29 Calc Well Volume: 16 gal  
 Recharge: 2.35 Well Volume: 4.8 gal  
 DTB: 2.14

Purge Method \_\_\_\_\_ Pump Depth \_\_\_\_\_ ft.  
 Peristaltic \_\_\_\_\_ Hand Bailed \_\_\_\_\_  
 Gear Drive \_\_\_\_\_ Air Lift \_\_\_\_\_  
 Submersible ✓ Other \_\_\_\_\_

Instruments Used  
 YSI: ✓ \_\_\_\_\_ Other: \_\_\_\_\_  
 Hydac: \_\_\_\_\_  
 Omega: \_\_\_\_\_

Time	Temp	Conductivity (mmhos/cm)	pH	Purge Volume Gallons	Turbidity	Comments
	<del>C</del> F					
12:00	20.8	0.78	6.45	1	cloudy BROWN	INSTALLED NEW CAP + LOCK
12:01	20.8	0.77	6.45	2		
12:02	20.8	0.77	6.45	3		
12:03	20.8	0.77	6.45	4		
12:04	20.8	0.77	6.45	5	X	



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

Date: 5-11-99  
 Page 4 of 7  
 Project Manager: Melissa Gossell

Well ID: MW-2  
 Well Diameter: 2

DTW Measurements:  
 Initial: 10.96 Calc Well Volume: 1.7 gal  
 Recharge: 11.19 Well Volume: 5.2 gal  
 DTB: 21.79

Purge Method: Peristaltic \_\_\_\_\_ Hand Bailed \_\_\_\_\_  
 Gear Drive \_\_\_\_\_ Air Lift \_\_\_\_\_  
 Submersible  Other \_\_\_\_\_

Pump Depth \_\_\_\_\_ ft.  
 Instruments Used:  
 YSI:  \_\_\_\_\_ Other: \_\_\_\_\_  
 Hydac: \_\_\_\_\_  
 Omega: \_\_\_\_\_

Time	Temp C F	Conductivity (mmhos/cm)	pH	Purge Volume Gallons	Turbidity	Comments
12:25	21.0	0.76	6.45	1	cloudy	
12:26	21.0	0.76	6.45	2		
12:27	21.0	0.83	6.45	3		
12:28	21.0	0.35	6.45	4		dry @ 4 Gallons
				5		

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

Date: 5-11-99  
 Page 5 of 7  
 Project Manager: Melissa Gossell

Well ID: MW4  
 Well Diameter: 7

DTW Measurements:  
 Initial: 1166 Calc Well Volume: 1.8 gal  
 Recharge: 1172 Well Volume: 55 gal  
 DTB: 2297

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

Time	Temp <u>0</u> C <u>1</u> F	Conductivity (mmhos/cm)	pH	Purge Volume Gallons	Turbidity	Comments
12:39	21.1	1.36	6.45	1	cloudy	
12:40	21.1	1.34	6.45	2		
12:41	21.7	0.78	6.45	3		
12:42	21.2	0.74	6.45	4		
12:43	21.2	0.74	6.45	5		

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

Date: 5-11-99  
 Page 6 of 7  
 Project Manager: Melissa Gossell

Well ID: Ewl

DTW Measurements:

Well Diameter: 4

Initial: 12.56 Calc Well Volume: 6.3 gal

Recharge: 12.59 Well Volume: 19.0 gal

DTB: 22.30

Purge Method  
 Peristaltic \_\_\_\_\_  
 Gear Drive \_\_\_\_\_  
 Submersible

Pump Depth \_\_\_\_\_ ft.  
 Hand Bailed \_\_\_\_\_  
 Air Lift \_\_\_\_\_  
 Other \_\_\_\_\_

Instruments Used  
 YSI:  \_\_\_\_\_  
 Hydac: \_\_\_\_\_  
 Omega: \_\_\_\_\_  
 Other: \_\_\_\_\_

Time	Temp <input checked="" type="checkbox"/> C <input type="checkbox"/> F	Conductivity (mmhos/cm)	pH	Purge Volume Gallons	Turbidity	Comments
12:55	21.2	0.66	6.45	5	cloudy	
13:00	21.3	0.63	6.45	10		
13:05	21.3	0.60	6.45	15		
13:40	20.5	0.73	6.45	20	✓	

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

Date: 5-11-99  
 Page 7 of 7  
 Project Manager: Melissa Gossell

Well ID: MW3  
 Well Diameter: 2

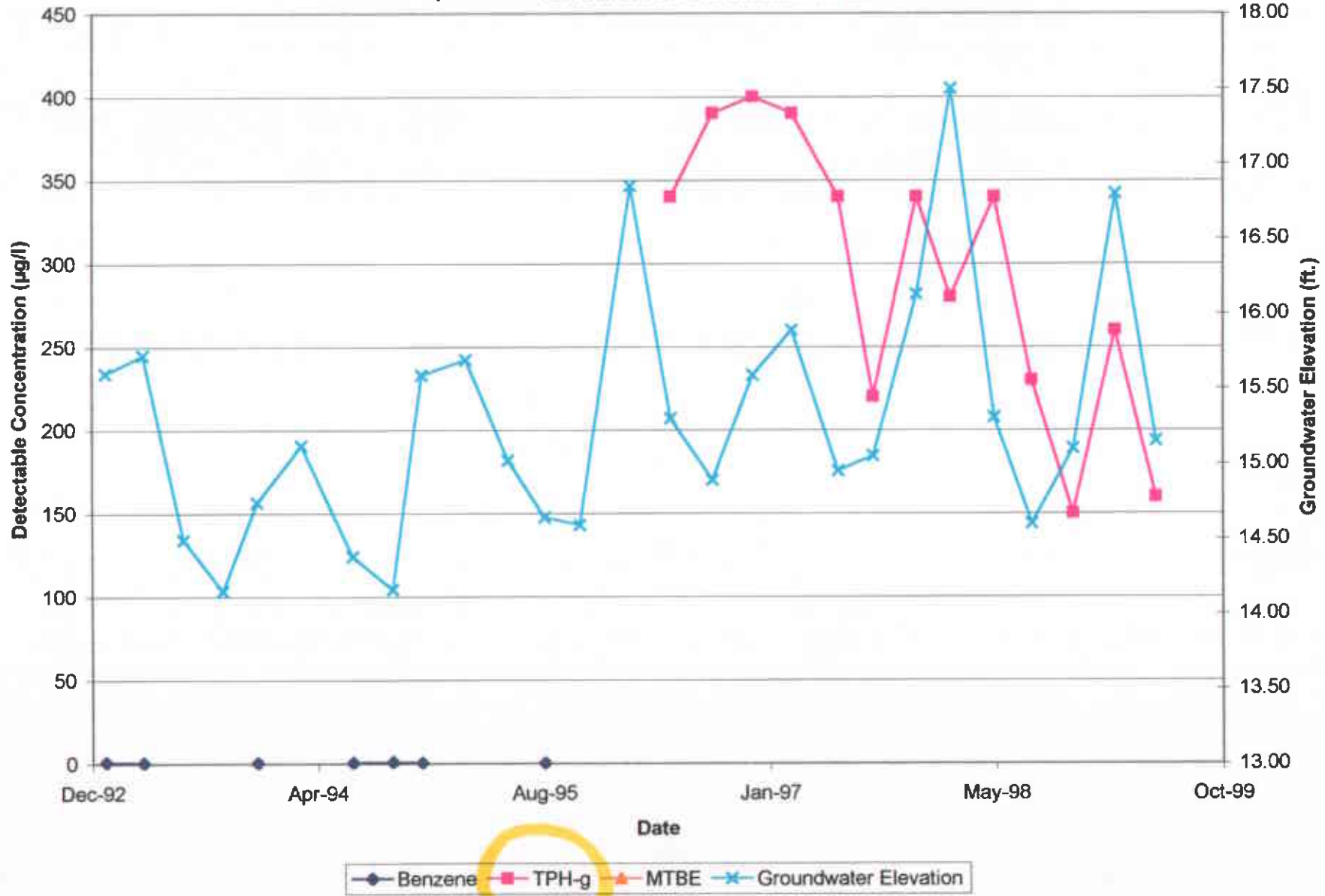
DTW Measurements: @ 10:35  
 Initial: 12.52 Calc Well Volume: \_\_\_\_\_ gal  
 Recharge: 12.70 Well Volume: \_\_\_\_\_ gal  
 DTB: \_\_\_\_\_

Purge Method \_\_\_\_\_ Pump Depth \_\_\_\_\_ ft. Instruments Used \_\_\_\_\_  
 Peristaltic \_\_\_\_\_ Hand Bailed K Stainless steel YSI: X Other: \_\_\_\_\_  
 Gear Drive \_\_\_\_\_ Air Lift \_\_\_\_\_ barter Hydac: \_\_\_\_\_  
 Submersible \_\_\_\_\_ Other \_\_\_\_\_ Omega: \_\_\_\_\_

Time	Temp <u>X</u> C F	Conductivity (mmhos/cm)	pH	Purge Volume Gallons	Turbidity	Comments
10:46	19.8	0.78	6.70	5		NO PRODUCT ON BOTTOM OF WELL Heavy Shum, DEK GREY STEEL COOK.
10:56	19.6	0.75	6.69	10		↓ DRYING @ 15 GALLONS Recharging quickly
11:06	19.7	0.75	6.70	15		
						11:10 (13.00) DTW
						13:35 (12.70) DTW
						5/12/99 12.55 (DTW) 9:05 AM

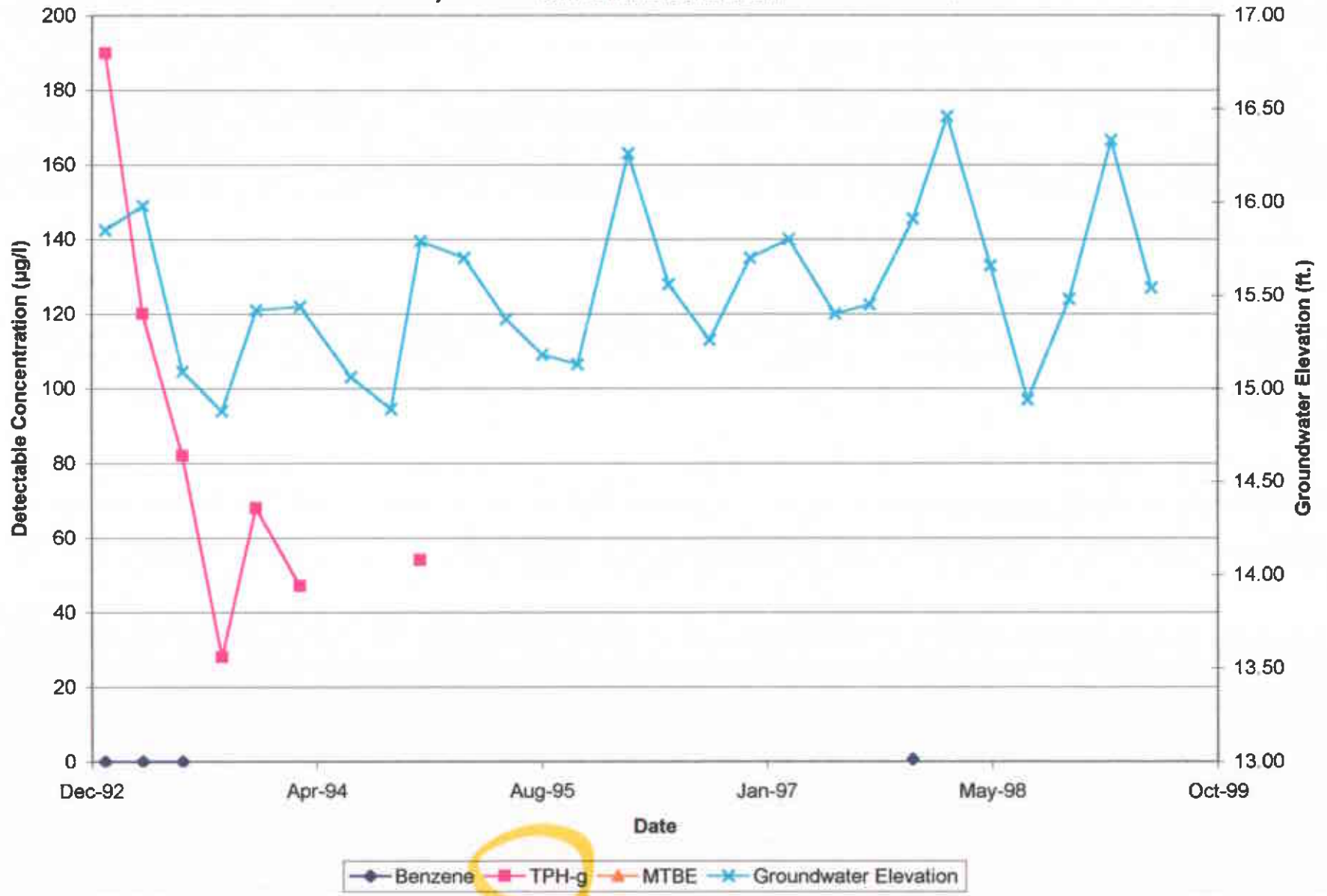
Graph 1, MW-1  
 Sears Store No. 1058, 2633 Telegraph Avenue  
 Oakland, California

Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time



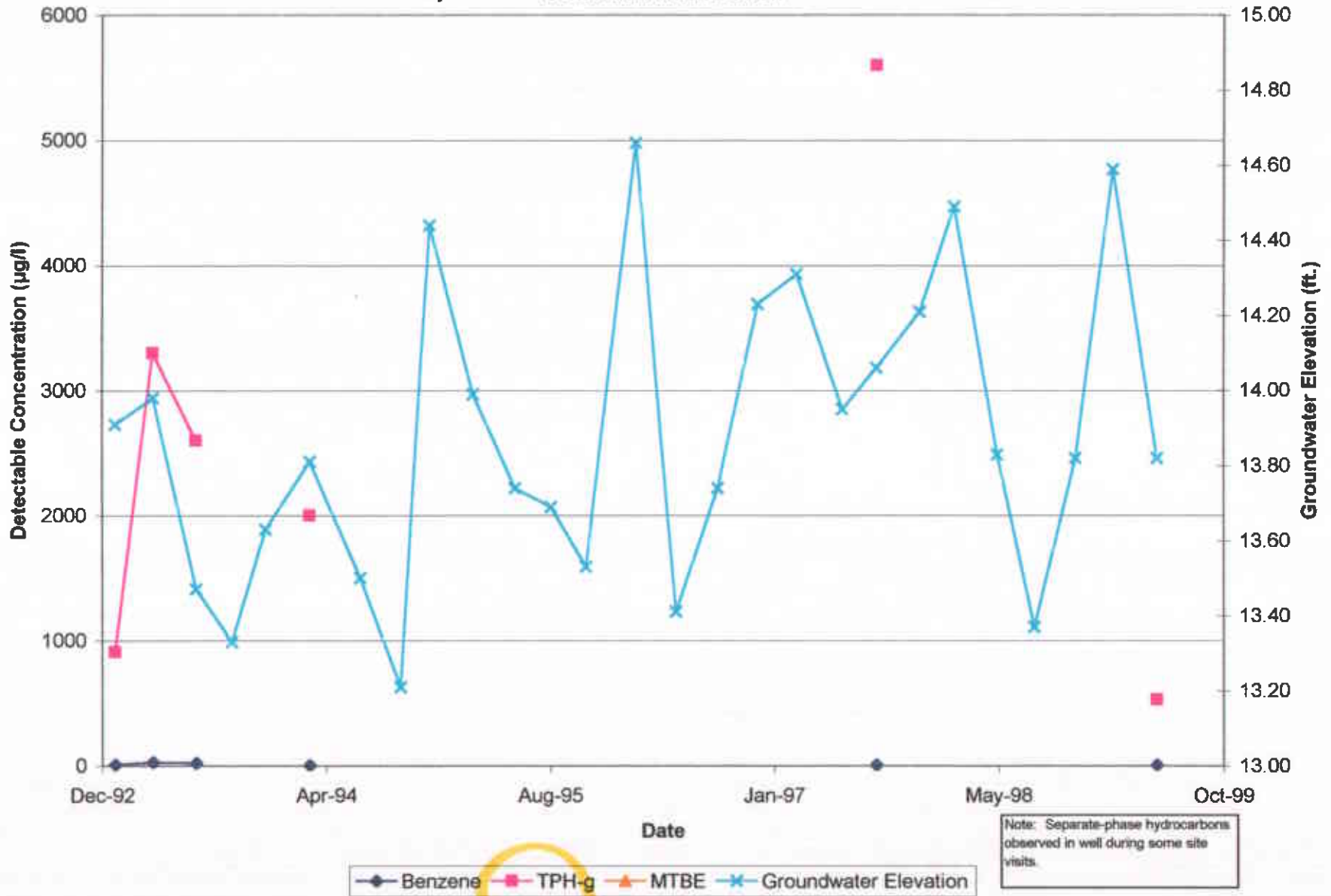
Graph 2, MW-2  
Sears Store No. 1058, 2633 Telegraph Avenue  
Oakland, California

Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time



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

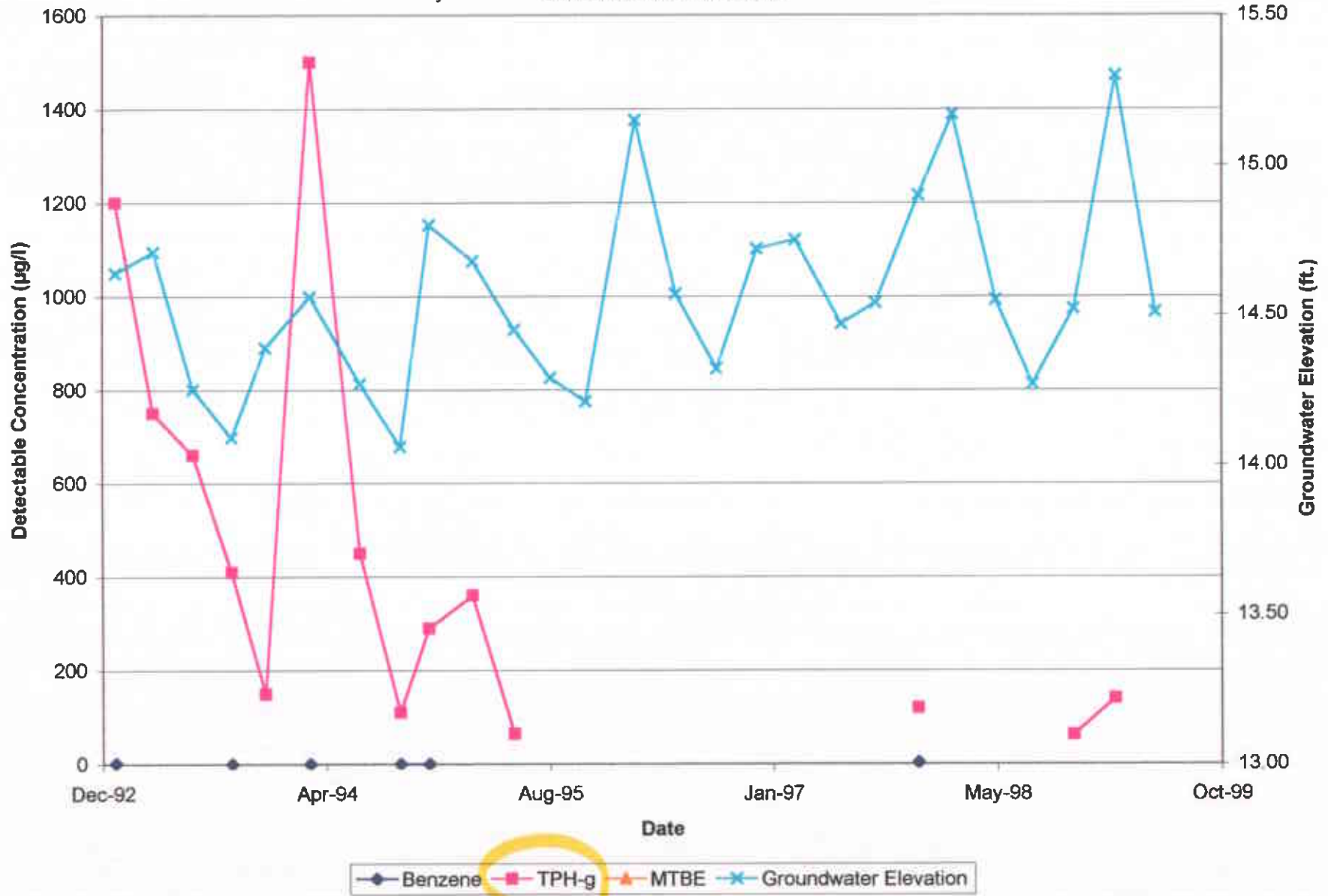
Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time



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

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

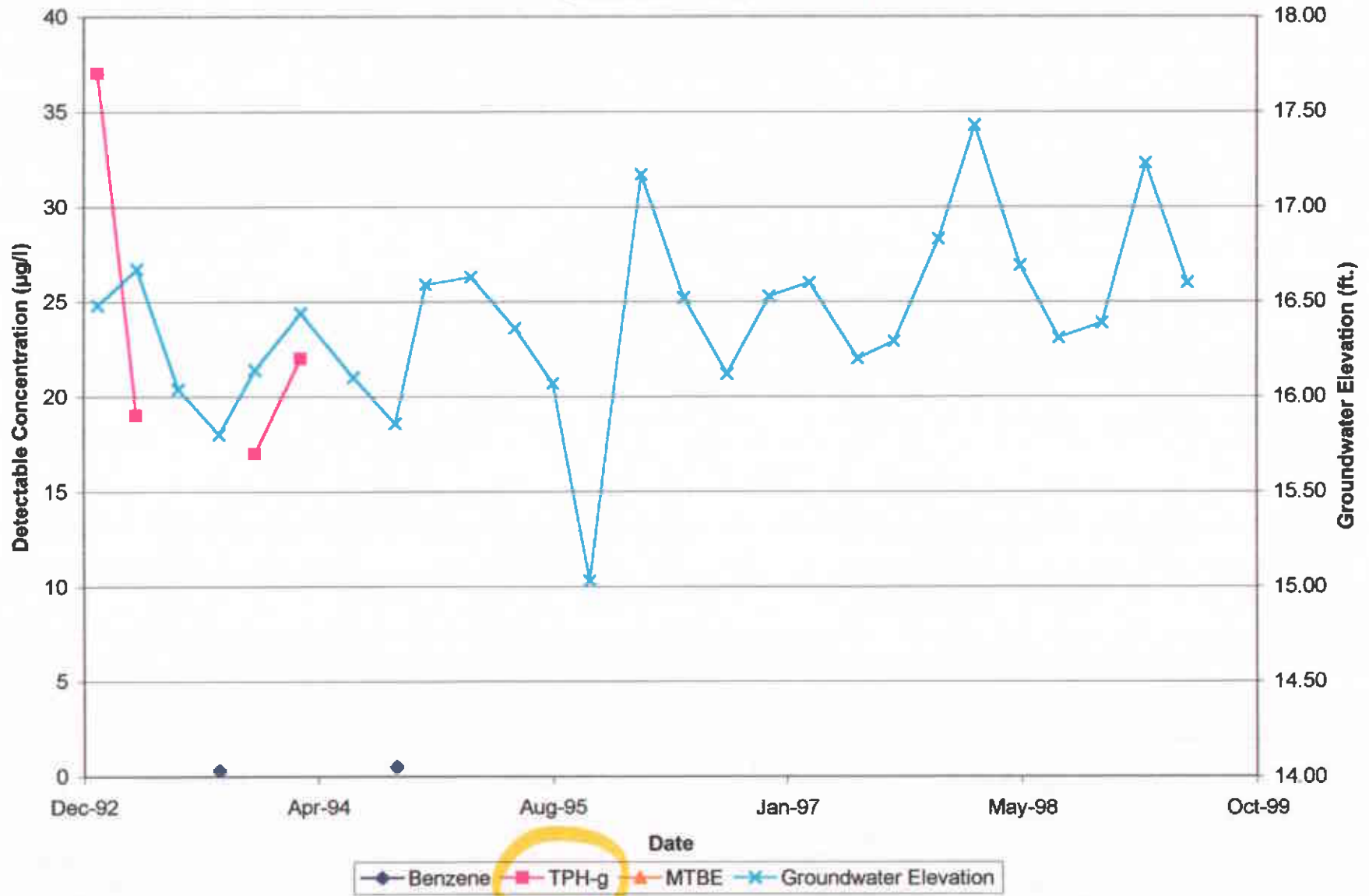
Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time





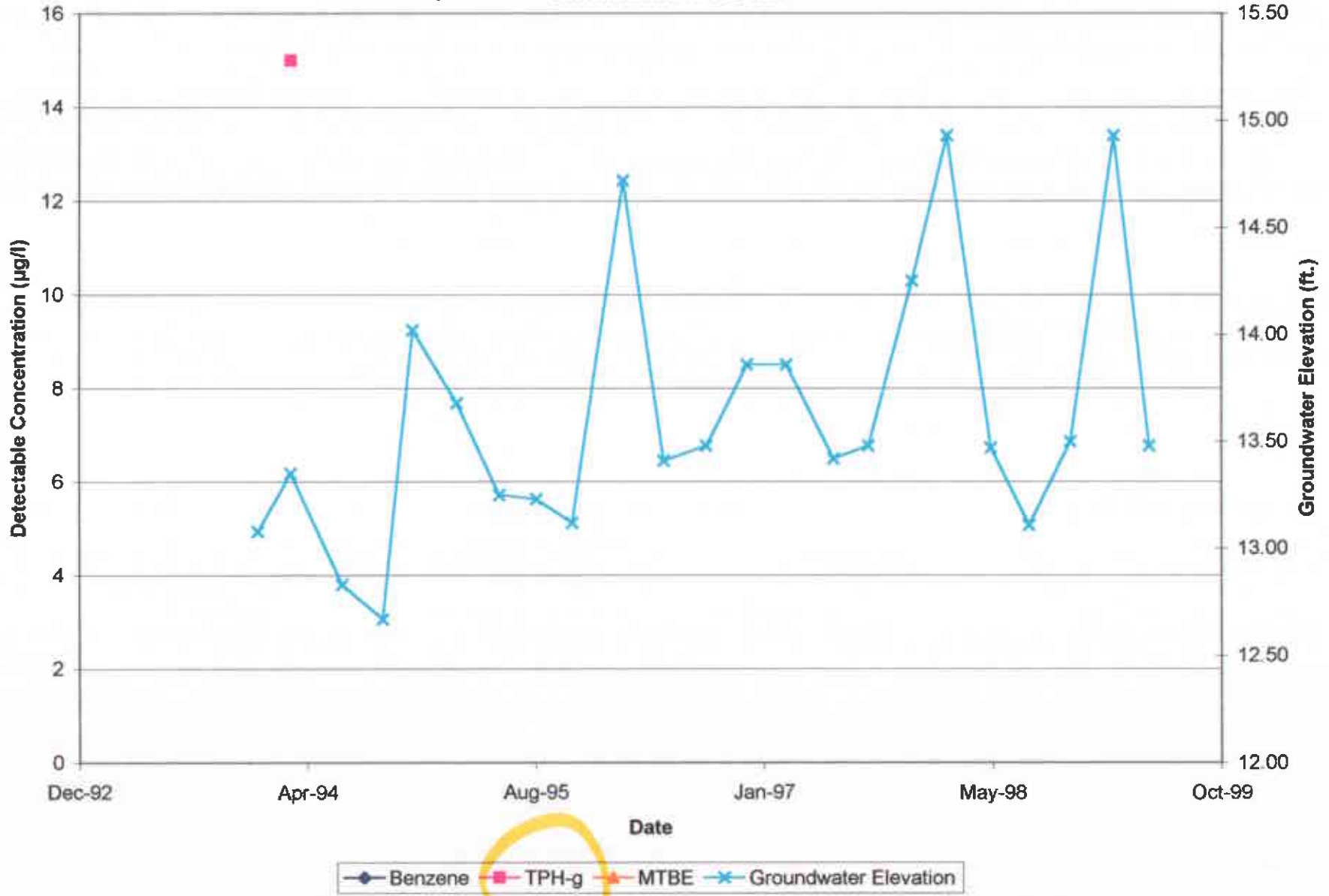
Graph 5, MW-5  
Sears Store No. 1058, 2633 Telegraph Avenue  
Oakland, California

Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time



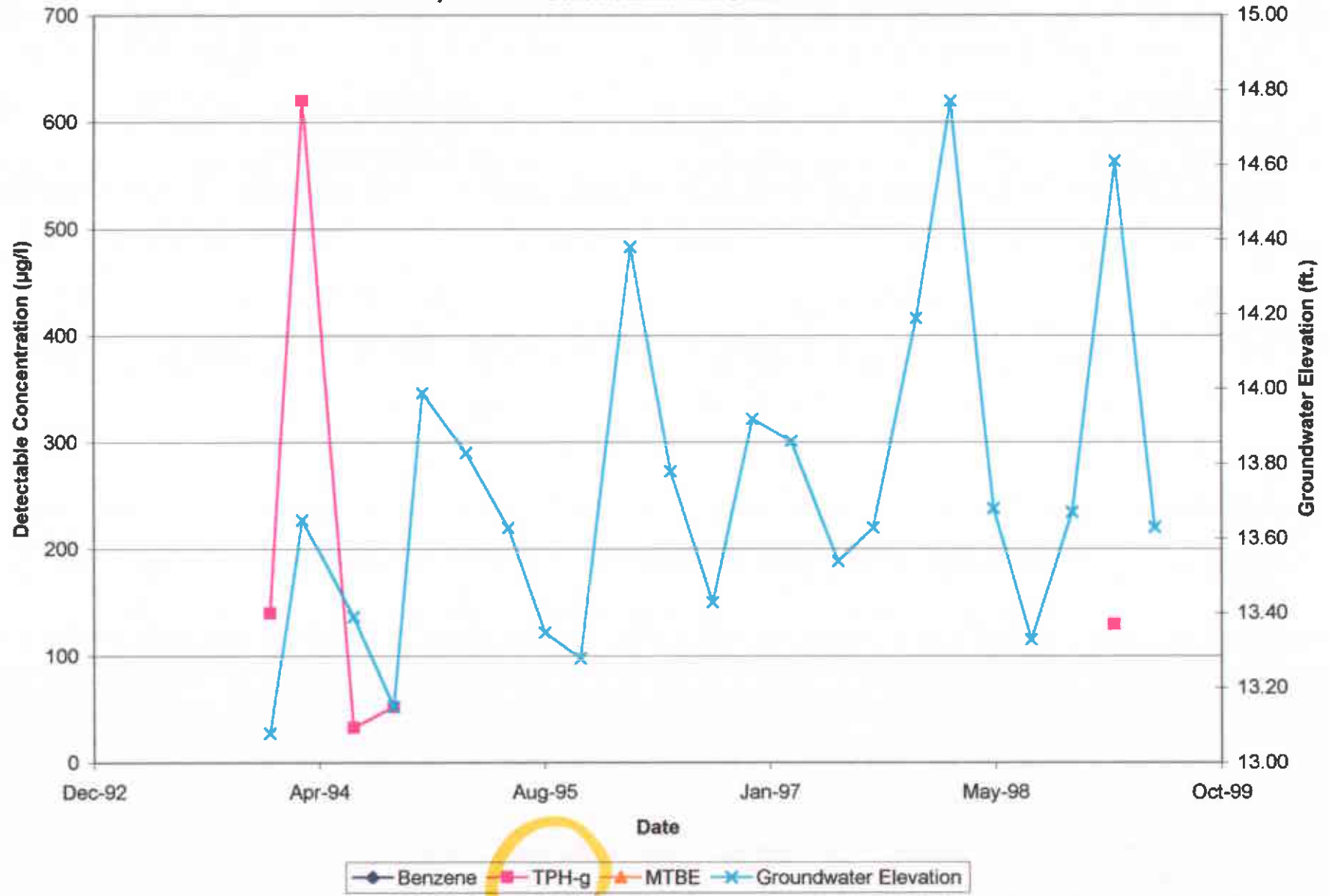
Graph 6, MW-6  
 Sears Store No. 1058, 2633 Telegraph Avenue  
 Oakland, California

Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time



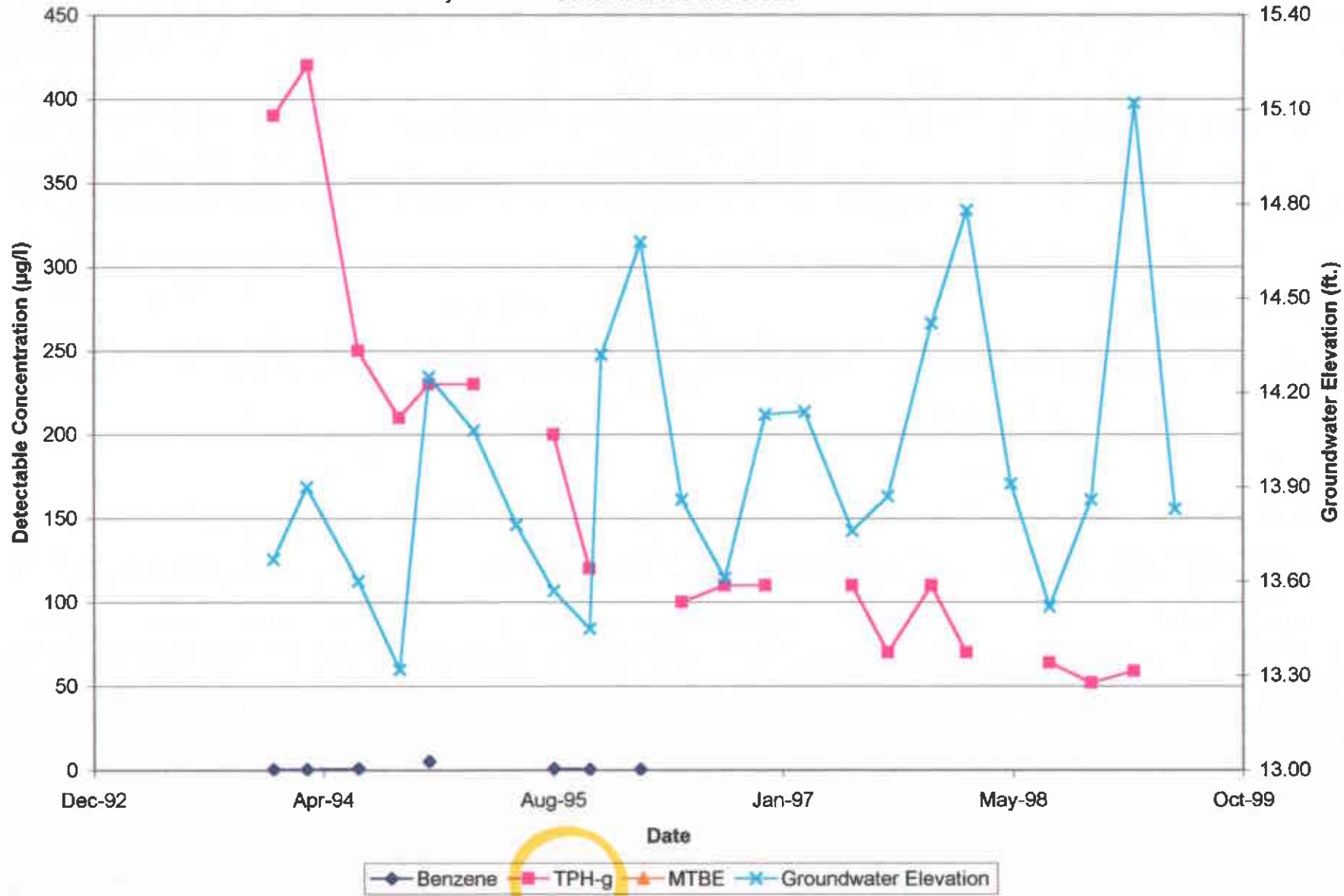
Graph 7, MW-7  
Sears Store No. 1058, 2633 Telegraph Avenue  
Oakland, California

Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time



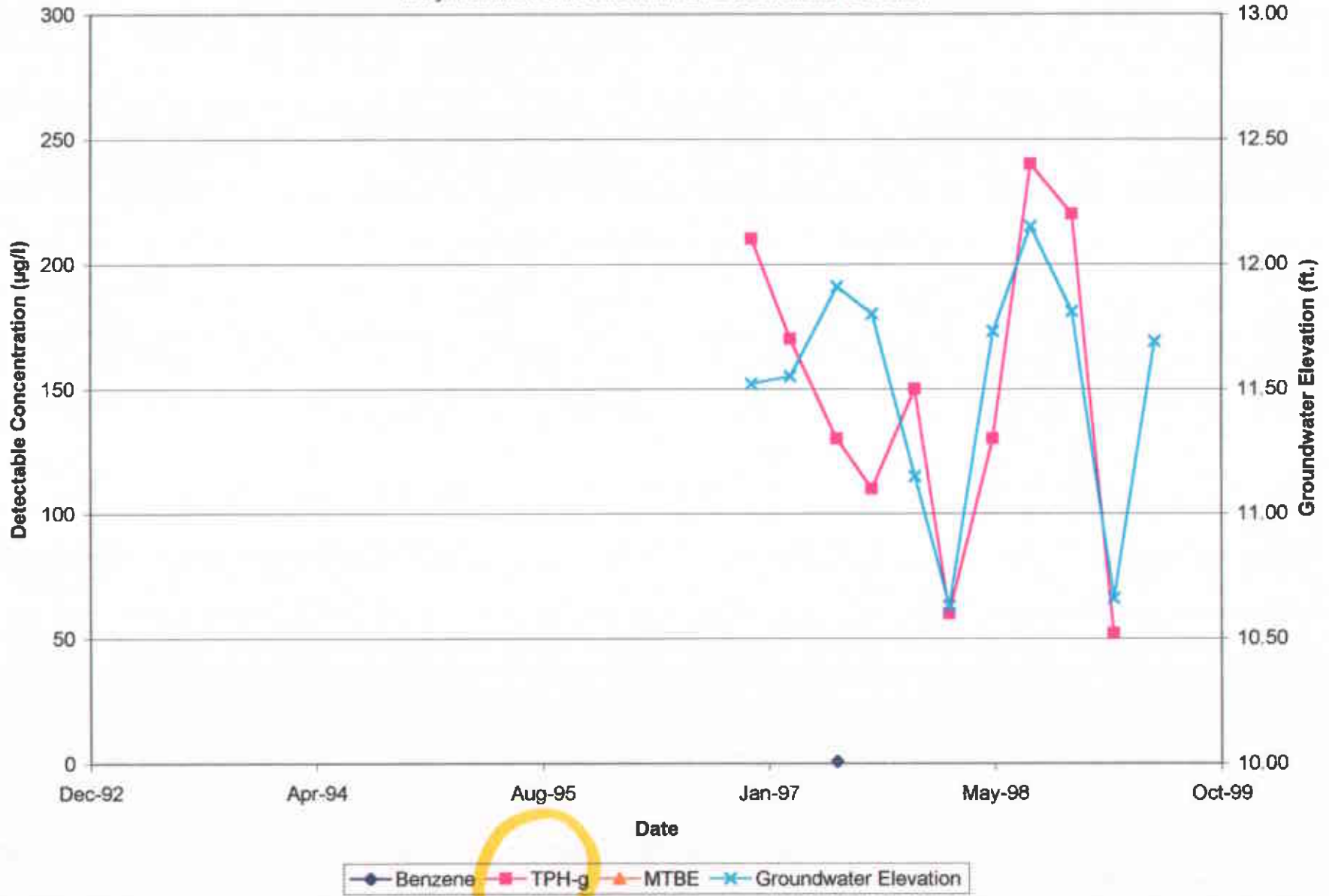
Graph 8, MW-8  
Sears Store No. 1058, 2633 Telegraph Avenue  
Oakland, California

Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time



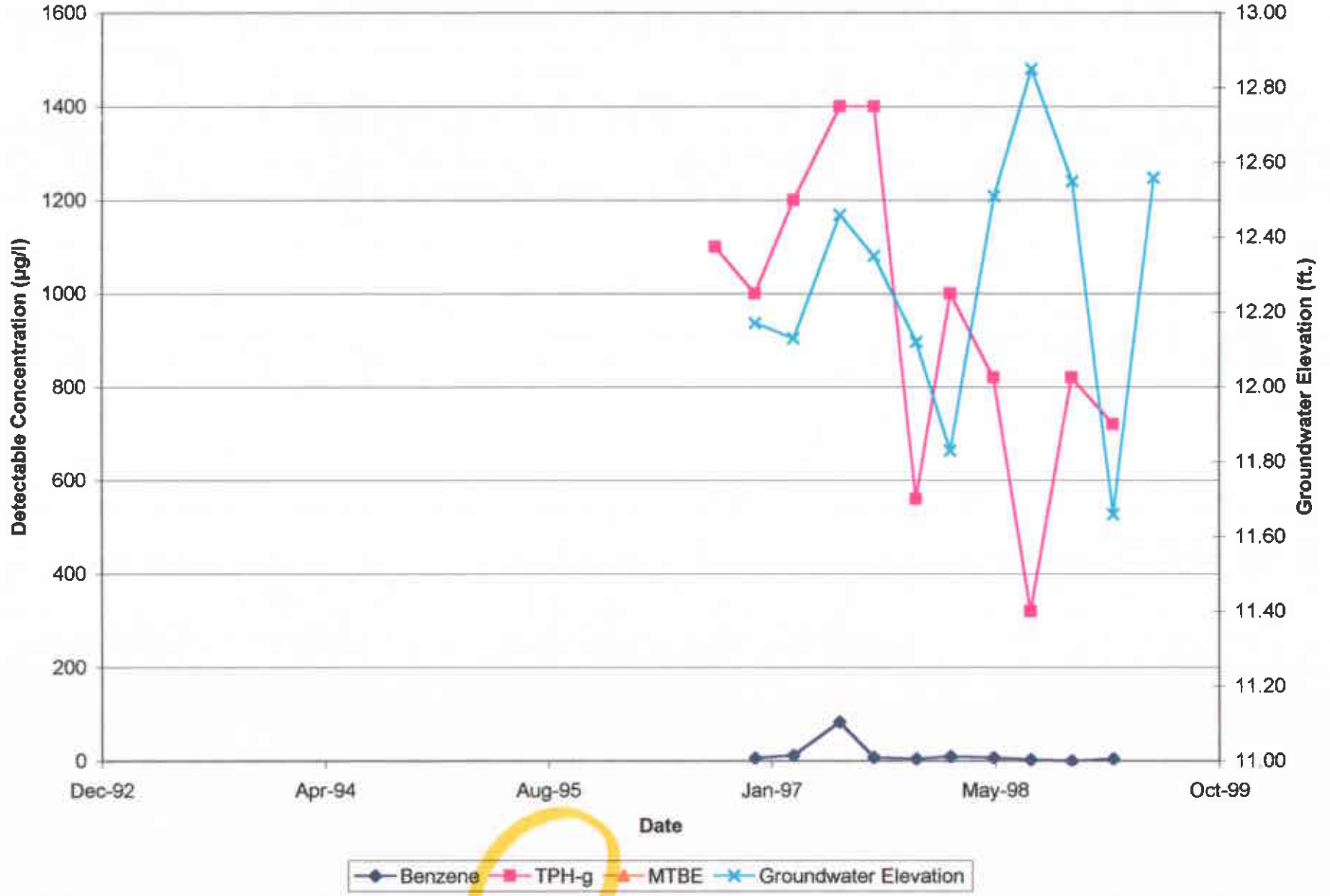
Graph 9, MW-9  
Sears Store No. 1058, 2633 Telegraph Avenue  
Oakland, California

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

680 Chesapeake Drive  
404 N. Wiget Lane  
819 Striker Avenue, Suite 8  
1455 McDowell Blvd. North, Ste. D  
1551 Industrial Road

Redwood City, CA 94063  
Walnut Creek, CA 94598  
Sacramento, CA 95834  
Petaluma, CA 94954  
San Carlos, CA 94070-4111

(650) 364-9600  
(925) 988-9600  
(916) 921-9600  
(707) 792-1865  
(650) 232-9600

FAX (650) 364-9233  
FAX (925) 988-9673  
FAX (916) 921-0100  
FAX (707) 792-0342  
FAX (650) 232-9612

IT Corp.  
757 Arnold Dr. Suite D  
Martinez, CA 94533  
Attention: Melissa Gossel

Client Project ID: Sears #1058 / 2633 Telegraph  
Sample Matrix: Water  
Analysis Method: EPA 5030/8015 Mod./8020  
First Sample #: 905-0992

Sampled: May 11, 1999  
Received: May 13, 1999  
Reported: Jun 2, 1999

QC Batch Number: GC051999 GC051999 GC051999 GC051899 GC051899 GC051999  
802004A 802004A 802004A 802004A 802004A 802004A

## TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX / MTBE

Analyte	Reporting Limit µg/L	Sample I.D. 905-0992 MW-9	Sample I.D. 905-0993 MW-1	Sample I.D. 905-0994 MW-8	Sample I.D. 905-0995 MW-4	Sample I.D. 905-0996 MW-2	Sample I.D. 905-0997 MW-3
Purgeable Hydrocarbons	50	96	160	N.D.	N.D.	N.D.	530
Benzene	0.50	N.D.	N.D.	N.D.	N.D.	N.D.	5.2
Toluene	0.50	N.D.	0.54	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	N.D.	4.7	N.D.	N.D.	N.D.	N.D.
MTBE	2.5	N.D.	N.D.	N.D.	2.8	N.D.	13
Chromatogram Pattern:		Gasoline	Gasoline	--	--	--	Gasoline

### Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0	4.0
Date Analyzed:	5/19/99	5/19/99	5/19/99	5/18/99	5/18/99	5/19/99
Instrument Identification:	HP-4	HP-4	HP-4	HP-4	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 70-130%)	90	88	93	92	93	89

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

*Dimple Sharma*  
Dimple Sharma  
Project Manager







# Sequoia Analytical

680 Chesapeake Drive  
404 N. Wiget Lane  
819 Striker Avenue, Suite 8  
1455 McDowell Blvd. North, Ste. D  
1551 Industrial Road

Redwood City, CA 94063  
Walnut Creek, CA 94598  
Sacramento, CA 95834  
Petaluma, CA 94954  
San Carlos, CA 94070-4111

(650) 364-9600  
(925) 988-9600  
(916) 921-9600  
(707) 792-1865  
(650) 232-9600

FAX (650) 364-9233  
FAX (925) 988-9673  
FAX (916) 921-0100  
FAX (707) 792-0342  
FAX (650) 232-9612

IT Corp.  
757 Arnold Dr. Suite D  
Martinez, CA 94533  
Attention: Melissa Gossel

Client Project ID: Sears #1058 / 2633 Telegraph  
Sample Matrix: Water  
Analysis Method: EPA 5030/8015 Mod./8020  
First Sample #: 905-0998

Sampled: May 11, 1999  
Received: May 13, 1999  
Reported: Jun 2, 1999

QC Batch Number: GC051899 GC052499 GC052499  
802004A 802002A 802002A

## TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX / MTBE

Analyte	Reporting Limit µg/L	Sample I.D. 905-0998 EW-1	Sample I.D. 905-0999 TBLB	Sample I.D. 905-1000 Dup
Purgeable Hydrocarbons	50	680	-	-
Benzene	0.50	N.D.	N.D.	N.D.
Toluene	0.50	N.D.	N.D.	N.D.
Ethyl Benzene	0.50	N.D.	N.D.	N.D.
Total Xylenes	0.50	N.D.	N.D.	N.D.
MTBE	2.5	N.D.	-	-
Chromatogram Pattern:		Gasoline	--	--

### Quality Control Data

Report Limit Multiplication Factor:	10	1.0	1.0
Date Analyzed:	5/18/99	5/24/99	5/24/99
Instrument Identification:	HP-4	HP-2	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	90	96	97

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

*Dimple Sharma*  
Dimple Sharma  
Project Manager





# Sequoia Analytical

680 Chesapeake Drive  
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FAX (916) 921-0100  
FAX (707) 792-0342  
FAX (650) 232-9612

IT Corp. 757 Arnold Dr. Suite D Martinez, CA 94533 Attention: Melissa Gossel	Client Project ID: Sears #1058 / 2633 Telegraph Sample Matrix: Water Analysis Method: EPA 3510/8015 Mod. First Sample #: 905-0992	Sampled: May 11, 1999 Received: May 13, 1999 Reported: Jun 2, 1999
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QC Batch Number:	SP051899	SP051899	SP051899	SP051899	SP051899	SP051899
	8015EXA	8015EXA	8015EXA	8015EXA	8015EXA	8015EXA

## TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS AS MOTOR OIL

Analyte	Reporting Limit µg/L	Sample I.D. 905-0992 MW-9	Sample I.D. 905-0993 MW-1	Sample I.D. 905-0994 MW-8	Sample I.D. 905-0995 MW-4	Sample I.D. 905-0996 MW-2	Sample I.D. 905-0997 MW-3
Extractable Hydrocarbons	250	N.D.	N.D.	N.D.	330	1,400	59,000
Chromatogram Pattern:		--	--	--	Motor Oil	Motor Oil	Motor Oil

### Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0	20
Date Extracted:	5/18/99	5/18/99	5/18/99	5/18/99	5/18/99	5/18/99
Date Analyzed:	5/18/99	5/18/99	5/18/99	5/18/99	5/18/99	5/19/99
Instrument Identification:	HP-3A	HP-3A	HP-3A	HP-3A	HP-3A	HP-3A

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

SEQUOIA ANALYTICAL, #1271

*Dimple Sharma*  
Dimple Sharma  
Project Manager





# Sequoia Analytical

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IT Corp.  
757 Arnold Dr. Suite D  
Martinez, CA 94533  
Attention: Melissa Gossel

Client Project ID: Sears #1058 / 2633 Telegraph  
Sample Matrix: Water  
Analysis Method: EPA 3510/8015 Mod.  
First Sample #: 905-0998

Sampled: May 11, 1999  
Received: May 13, 1999  
Reported: Jun 2, 1999

QC Batch Number: SP051899  
8015EXA

## TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 905-0998 EW-1
Extractable Hydrocarbons	250	4,800

Chromatogram Pattern: Motor Oil

### Quality Control Data

Report Limit Multiplication Factor:	1.0
Date Extracted:	5/18/99
Date Analyzed:	5/18/99
Instrument Identification:	HP-3A

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

SEQUOIA ANALYTICAL, #1271

*D Sharma*  
Dimple Sharma  
Project Manager





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IT Corp.  
757 Arnold Dr. Suite D  
Martinez, CA 94533  
Attention: Melissa Gossel

Client Project ID: Sears #1058 / 2633 Telegraph  
Sample Descript: Water, MW-3\*  
Analysis Method: EPA 8260  
Lab Number: 905-0997

Sampled:  
Received: May 13, 1999  
Analyzed:  
Reported:

QC Batch Number: MS0614998260S2A  
Instrument ID: GC/MS-2

## MTBE by EPA 8260

Analyte	Detection Limit µg/L	Sample Results µg/L
Methyl t-Butyl Ether (MTBE).....	2.0	N.D.
Surrogates	Control Limit %	% Recovery
Dibromofluoromethane.....	50	150
		93

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271

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Dimple Sharma  
Project Manager

Please Note:  
\*Sample was analyzed after EPA recommended holding time has elapsed.





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IT Corp.  
757 Arnold Dr. Suite D  
Martinez, CA 94533  
Attention: Melissa Gossel

Client Project ID: Sears #1058 / 2633 Telegraph  
Matrix: Liquid

QC Sample Group: 9050992-1000

Reported: Jun 16, 1999

## QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC051899 802004A	GC051899 802004A	GC051899 802004A	GC051899 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 #:	9051008	9051008	9051008	9051008
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	5/18/99	5/18/99	5/18/99	5/18/99
Analyzed Date:	5/18/99	5/18/99	5/18/99	5/18/99
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:	20	17	17	59
MS % Recovery:	100	85	85	98
Dup. Result:	20	17	18	61
MSD % Recov.:	100	85	90	102
RPD:	0.0	0.0	5.7	3.3
RPD Limit:	0-20	0-20	0-20	0-20

LCS #:	4LCS051899	4LCS051899	4LCS051899	4LCS051899
Prepared Date:	5/18/99	5/18/99	5/18/99	5/18/99
Analyzed Date:	5/18/99	5/18/99	5/18/99	5/18/99
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:	19	16	17	58
LCS % Recov.:	95	80	85	97

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





# Sequoia Analytical

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IT Corp.  
757 Arnold Dr. Suite D  
Martinez, CA 94533  
Attention: Melissa Gossel

Client Project ID: Sears #1058 / 2633 Telegraph  
Matrix: Liquid

QC Sample Group: 9050992-1000

Reported: Jun 16, 1999

## QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC051999 802004A	GC051999 802004A	GC051999 802004A	GC051999 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 #:	9050994	9050994	9050994	9050994
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	5/19/99	5/19/99	5/19/99	5/19/99
Analyzed Date:	5/19/99	5/19/99	5/19/99	5/19/99
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:	17	15	17	58
MS % Recovery:	85	75	85	97
Dup. Result:	19	17	18	61
MSD % Recov.:	95	85	90	102
RPD:	11.1	12.5	5.7	5.0
RPD Limit:	0-20	0-20	0-20	0-20

LCS #:	4LCS051999	4LCS051999	4LCS051999	4LCS051999
Prepared Date:	5/19/99	5/19/99	5/19/99	5/19/99
Analyzed Date:	5/19/99	5/19/99	5/19/99	5/19/99
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:	19	16	18	61
LCS % Recov.:	95	80	90	102

MS/MSD LCS Control Limits	70-130	70-130	70-130	70-130
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SEQUOIA ANALYTICAL, #1271

*Dimple Sharma*  
Dimple Sharma  
Project Manager





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IT Corp.  
757 Arnold Dr. Suite D  
Martinez, CA 94533  
Attention: Melissa Gossel

Client Project ID: Sears #1058 / 2633 Telegraph  
Matrix: Liquid

QC Sample Group: 9050992-1000

Reported: Jun 16, 1999

## QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel	MTBE
QC Batch#:	GC052499 802002A	GC052499 802002A	GC052499 802002A	GC052499 802002A	SP051899 8015EXA	MS061499 8260S2A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015Mod.	EPA 8260
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 3510	EPA 5030
Analyst:	J. Minkel	J. Minkel	J. Minkel	J. Minkel	K. Grubb	N. Nelson
MS/MSD #:	9051465	9051465	9051465	9051465	BLK051899	9061156
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	5/24/99	5/24/99	5/24/99	5/24/99	5/18/99	6/14/99
Analyzed Date:	5/24/99	5/24/99	5/24/99	5/24/99	5/18/99	6/14/99
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	HP-3A	GC/MS-2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	500 µg/L	50 µg/L
Result:	16	15	16	53	550	33
MS % Recovery:	80	75	80	88	110	66
Dup. Result:	16	15	17	54	520	34
MSD % Recov.:	80	75	85	90	104	68
RPD:	0.0	0.0	6.1	1.9	5.6	3.0
RPD Limit:	0-20	0-20	0-20	0-20	0-50	0-25

LCS #:	2LCS052499	2LCS052499	2LCS052499	2LCS052499	LCS051899	LCS061499
Prepared Date:	5/24/99	5/24/99	5/24/99	5/24/99	5/18/99	6/14/99
Analyzed Date:	5/24/99	5/24/99	5/24/99	5/24/99	5/18/99	6/14/99
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	HP-3A	GC/MS-2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	500 µg/L	50 µg/L
LCS Result:	17	17	18	58	500	56
LCS % Recov.:	85	85	90	97	100	112

MS/MSD LCS Control Limits	70-130	70-130	70-130	70-130	60-140	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





# SEQUOIA ANALYTICAL CHAIN OF CUSTODY

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Company Name: <u>IT</u>			Project Name: <u>SEARS #1058/2633 Telegraph</u>		
Mailing Address: <u>757 ARNOLD DR. SUITE D</u>			Billing Address (if different):		
City: <u>MARTINEZ</u>	State: <u>CA</u>	Zip Code: <u>94533</u>	<u>1176603.03054300 9905290</u>		
Telephone: <u>(925) 370-3990</u>		FAX #: <u>(925) 370-3991</u>		P.O. #:	
Report To: <u>Mellissa GOSSEL</u>		Sampler: <u>A Merino</u>		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-9	5 13:30	GW	5	40ml	9050992A	TRIMEDIA OIL BTEX/PAH/PH-6 BTEX 80210										MTBE		
2. MW-1	/ 13:40	/	5	/	9050993	X	X											Detections
3. MW-8	/ 13:50	/	5	/	9050994	X	X											In 80210
4. MW-4	11 stop 8:30	/	5	/	9050995	X	X											NEED CONFIRMATION BY 8260
5. MW-2	/ 14:10	/	5	/	9050996	X	X											Please run as needed
6. MW-3	/ 14:20	/	5	/	9050997	X	X											
7. EW-1	99 14:30	/	5	/	9050998	X	X											
8. TBLB	/	DI	1	/	9050999													
9. DUP	/ 14:15	/	3	/	9051000A-C													
10.																		

Relinquished By: <u>[Signature]</u>	Date: <u>5/13/99</u>	Time: <u>10:30</u>	Received By: <u>[Signature]</u>	Date: <u>5/13/99</u>	Time: <u>10:30</u>
Relinquished By: <u>[Signature]</u>	Date: <u>5/13/99</u>	Time: <u>11:18</u>	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab: <u>Ronald C Jensen</u>	Date: <u>5/13/99</u>	Time: <u>11:18</u>

Were Samples Received in Good Condition?  Yes  No

Samples on Ice?  Yes  No Method of Collection \_\_\_\_\_

Pink - Client

Yellow - Sequoia

White - Sequoia