R0480

FLUOR DANIEL GTI

98 OCT 15 AM 10:05

October 15, 1998

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

Subject: Third Quarter 1998, Groundwater Monitoring and Sampling Report
Former Sears 1058; 2633 Telegraph Avenue, Oakland, California
Fluor Daniel GTI Project 103232

Dear Mr. Klettke:

On behalf of Sears, Roebuck and Co., Fluor Daniel GTI, Inc., presents the quarterly groundwater monitoring data collected on May 20, 1998, 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 present in monitoring well MW-3. 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, six of the seven scheduled monitoring wells were purged and sampled. Because separate-phase hydrocarbons were detected in well MW-3, this well was not sampled. Groundwater monitoring and sample collection protocol and field data sheets are provided in Attachment 3. The groundwater samples were analyzed for benzene, toluene, ethyl-benzene, xylenes (BTEX), methyl tert-butyl ether (MTBE) and total petroleum hydrocarbons as gasoline (TPH-g) using EPA Methods 8020/modified 8015, and TPH as motor oil (TPH-MO) using modified EPA Method 8015 (GC/FID).

Static groundwater elevations for the third quarter 1998, ranged from 13.11 to 16.31 feet above mean sea level. Groundwater elevations have decreased by 0.5 foot since second quarter 1998 (May 20, 1998). The apparent groundwater flow is to the south at an average hydraulic gradient of 0.02 ft/ft, and is consistent with previous quarterly data.

Results of quarterly sampling indicated detectable concentrations of BTEX compounds in monitoring wells MW-9 and EW-1. None of the monitoring wells contained detectable concentrations of MTBE except for monitoring well EW-1. Monitoring wells MW-1, MW-8, MW-9 and EW-1 contained detectable concentrations of TPH-g. Monitoring wells MW-2 and EW-1 contained detectable concentrations of TPH-MO. A 0.18-foot-thick layer of separate-phase hydrocarbons was measured in

757 Arnold Drive, Suite D / Martinez, CA 94553 USA (925) 370-3990 FAX (925) 370-3991

monitoring well MW-3, which is an increase from past measurements. A summary of the groundwater analytical results is provided in Attachment 2, Table 2. A distribution map of dissolved benzene, TPH-g, TPH-MO, & 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.

Fluor Daniel GTI will review this site for applicable remediation methods to address the dissolved-phase plume. Upon completion of a file review, a feasibility study report will be prepared and submitted to Alameda County Health Care Services Agency for approval.

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

Sincerely,
Fluor Daniel GTI, Inc.

Melissa Gossell

Melissa Gossell
West Zone Project Manager

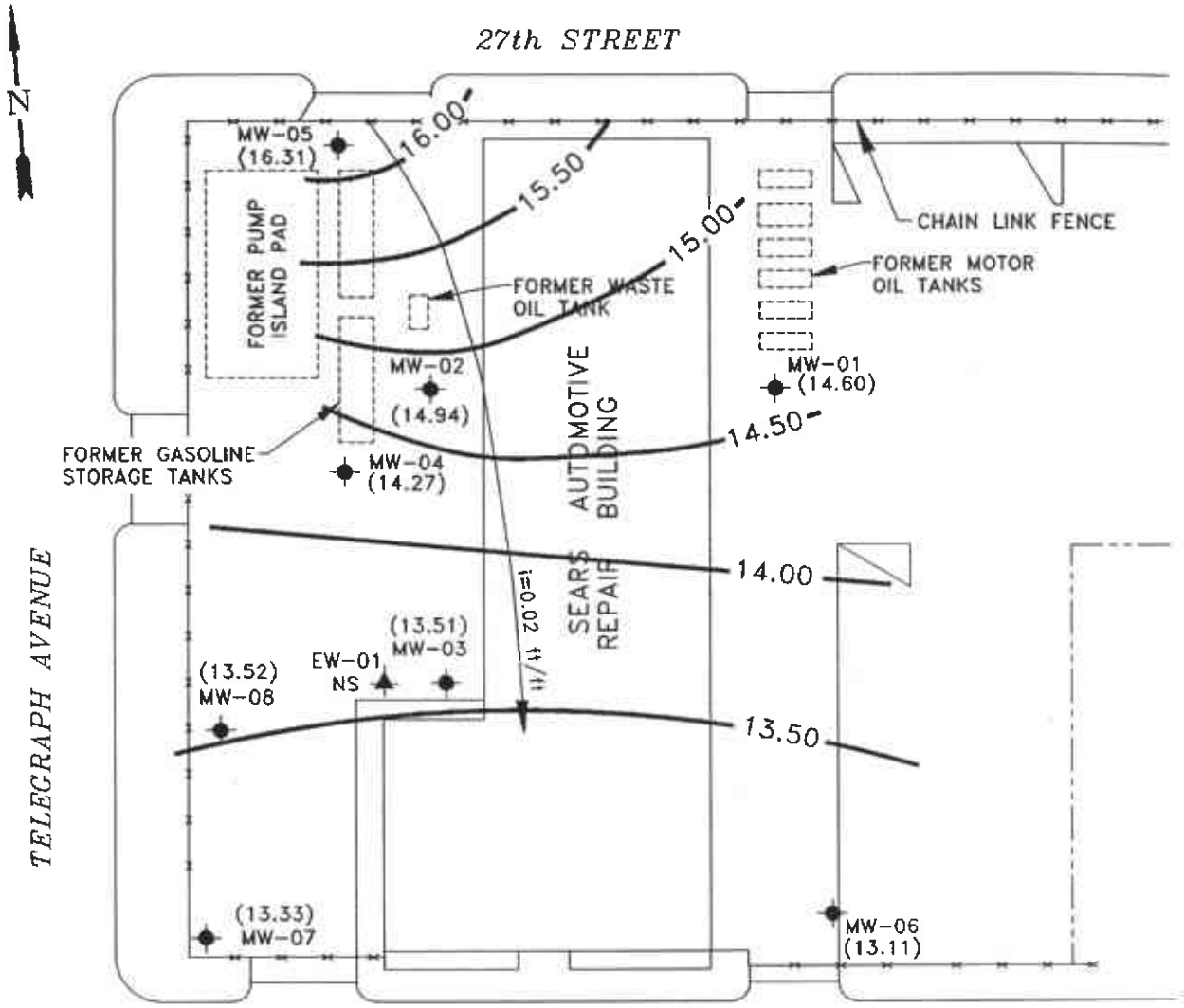
Attachments:
1) Figures
2) Tables
3) Groundwater Monitoring and Sample Collection Protocol and Field Data Sheets
4) Graphs
5) Laboratory Reports and Chain-of-Custody Documents

cc: Scott M. DeMuth, Sears, Roebuck and Co.
Central Files, Lenexa, Kansas

Attachment 1

Figures

1. Potentiometric Surface Map Gauged 8/11/98
2. Concentrations of Benzene, TPH-as-Gasoline, TPH-as-Motor Oil, & MTBE in Groundwater (Sampled 8/11/98)



LEGEND

✦	MONITORING WELL
▲	EXTRACTION WELL
( )	POTENTIOMETRIC SURFACE ELEVATION (FEET ABOVE MEAN SEA LEVEL)
NS	NOT SURVEYED
⌒	POTENTIOMETRIC SURFACE CONTOUR; INTERVAL = 0.5 ft
i=0.02	GROUNDWATER FLOW DIRECTION AND AVERAGE GRADIENT (ft/ft)

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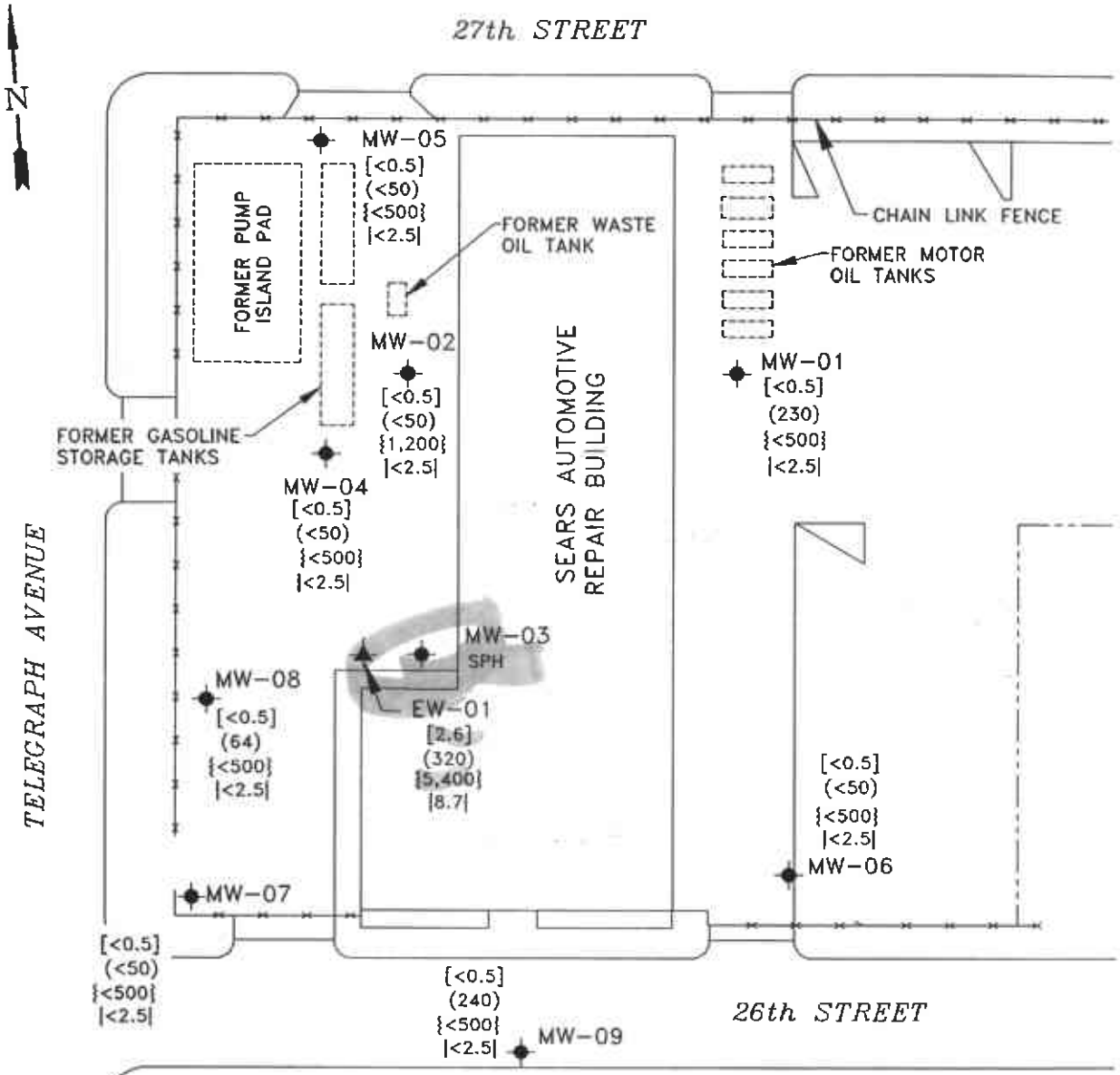
0 FEET 40
SCALE

POTENTIOMETRIC SURFACE MAP GAUGED 8/11/98

CLIENT: SEARS, ROEBUCK AND CO. SITE NO. 1058	FILE: PSM81198 (1:40)	PROJECT NO.: 103232	PM	PE/RG	
	REV.			FIGURE:	
LOCATION: 2633 TELEGRAPH AVENUE OAKLAND, CALIFORNIA	DES. BP	DET. VR	DATE: 8/20/98	1	



LEGEND

✦	MONITORING WELL
✦	EXTRACTION WELL
[ ]	BENZENE CONCENTRATIONS [ug/l]
( )	TPH-AS-GASOLINE (ug/l)
{ }	TPH-AS-MOTOR OIL {ug/l}
| |	METHYL TERT-BURYL ETHER (MTBE) |ug/L|
SPH	SEPARATE-PHASE HYDROCARBONS

FLUOR DANIEL GTI

0 FEET 40
SCALE

CONCENTRATIONS OF BENZENE, TPH-AS GASOLINE, TPH-AS-MOTOR OIL & MTBE IN GROUNDWATER SAMPLED (8/11/98)

CLIENT: SEARS, ROEBUCK AND CO. SITE NO. 1058	FILE: BEN81198	PROJECT NO.: 103232	PM	PE/RG	
LOCATION: 2633 TELEGRAPH AVENUE OAKLAND, CALIFORNIA	REV.			FIGURE: 2	
	DES. BP	DET. ML	DATE: 9/9/98		

Attachment 2

Tables

1. Summary of Historical Groundwater Monitoring Data
2. Summary of Historical Groundwater Sample Analyses

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 Elev.	Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elev.
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	--	--	14.51
		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
		05/20/98	10.89	--	--	15.31
		08/11/98	11.60	--	--	14.60

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 Elev.	Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elev.
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	--	--	15.56
		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
		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

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 Elev.	Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elev.
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	13.36
		10/22/93	NM	12.96	NA	NA
		11/03/93	13.13	13.02	0.11	13.30
		11/24/93	12.94	12.92	0.02	13.42
		12/01/93	12.71	12.69	0.02	13.65
		12/27/93	12.77	12.73	0.04	13.60
		01/05/94	12.85	12.83	0.02	13.51
		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	13.51
		07/28/94	12.93	12.89	0.04	13.44
		08/31/94	13.04	13.01	0.03	13.32
		09/27/94	13.13	13.02	0.11	13.30
		10/28/94	13.30	13.08	0.22	13.22
		11/15/94	11.05	11.02	0.03	15.31
		12/01/94	11.90	11.88	0.02	14.46
		01/04/95	11.80	11.76	0.01	14.55
		02/01/95	12.00	11.98	0.02	14.36
		03/08/95	12.35	12.30	0.05	14.03
		04/03/95	12.09	12.05	0.04	14.28
		05/18/95	12.43	12.40	0.03	13.93
		06/09/95	12.60	12.58	0.02	13.76
		07/13/95	12.55	12.46	0.09	13.87
		08/03/95	12.64	12.61	0.03	13.73
		08/29/95	12.65	12.62	0.03	13.71
		09/15/95	13.00	12.86	0.14	13.45*
		10/20/95	12.86	12.03	0.03	13.50*
		11/15/95	12.81	12.74	0.07	13.59*
		01/15/96	12.60	12.47	0.13	13.84*
		03/05/96	11.68	11.64	0.04	14.69
		04/19/96	12.36	12.34	0.02	14.00
		05/10/96	11.93	11.91	0.02	14.43
		06/03/96	12.93	12.50	0.43	13.75
		09/04/96	12.60	12.55	0.05	13.79
		12/02/96	12.11	12.00	0.03	14.25
		02/26/97	12.03	12.02	0.01	14.32
		06/09/97	12.39	12.35	0.04	13.98
		08/25/97	12.28	12.25	0.03	14.04
		11/28/97	12.13	12.10	0.03	14.24
		02/12/98	11.85	11.82	0.03	14.51
		05/20/98	12.51	12.48	0.03	13.85
		08/11/98	12.97	12.79	0.18	13.51

* Corrected elevations. Review of calculations indicated that these elevations were incorrect in past reports.

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 Elev.	Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elev.
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	--	--	14.99
		12/27/93	11.80	--	--	14.97
		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	--	--	14.20
		07/28/94	11.97	--	--	14.27
		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
		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	--	--	14.46
		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

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 Elev.	Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elev.
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	--	--	15.60
		10/22/93	11.19	--	--	15.79
		11/03/93	11.23	--	--	15.75
		11/24/93	12.00	--	--	14.93
		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
		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	--	--	16.40
		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

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 Elev.	Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elev.
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	--	--	[illegible]
		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
		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

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 Elev.	Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elev.
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
		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

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 Elev.	Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elev.
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
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
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

Notes: "–" indicates 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 parts per billion)

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	–	[e]<250	–	–	–
	12/01/94	0.4	0.4	<0.3	6.6	–	[e]<250	–	–	–
	03/08/95	<0.3	0.6	4.7	2.7	–	[e]<250	–	–	–
	06/09/95	<0.3	1.4	3.9	5.6	–	[e]<250	–	–	–
	08/29/95	0.3	0.9	<0.5	2.8	–	[e]<250	–	–	–
	11/15/95	<0.5	<0.5	<1.0	27	–	[e]<200	–	–	–
	03/05/96	<0.5	<1.0	<1.0	<2.0	–	[e]<200	–	–	–
	06/03/96	<0.5	<1.0	3.7	3.4	340	[e]<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	[e]<200	–	–	–
	02/26/97	<0.5	<1.0	<1.0	4.5	390	[e]<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
MW-2	12/30/92	0.7	<0.3	<0.3	3	190	–	1	[a]ND	–
	03/24/93	0.6	<0.3	<0.3	2	120	–	<1	[a]ND	–
	06/21/93	0.3	<0.3	<0.3	0.7	82	**<100	–	[c]ND	–
	09/16/93	<0.3	<0.3	<0.3	<0.5	28	**<100	–	[c]ND	–
	12/01/93	<0.3	<0.3	<0.3	1	68	–	–	[c]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	[e]<250	–	[d]15	–
	12/01/94	<0.3	<0.3	<0.3	<0.5	54	[f]1,300	–	[d]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	–	[h]20	–
	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

TABLE 2
Summary of Historical Groundwater Sample Analyses
(All results expressed in parts per billion)

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	aND	–
	03/24/93	28	0.7	1	8	3,300	SPH	28	*a15	–
	06/21/93	21	5	2	19	**2,600	32,000	26	cd5	–
	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	aND	–
	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
MW-4	12/30/92	2	<0.3	1	<0.5	1,200	–	<1	aND	–
	03/24/93	<0.3	<0.3	<0.3	<0.5	750	–	2	*a7	–
	06/21/93	<0.3	2	<0.3	0.5	660	19,000	–	aND	–
	09/16/93	0.3	<0.3	2	3	410	2,500	–	aND	–
	12/01/93	<0.3	<0.3	<0.3	<0.5	150	390	–	aND	–
	03/09/94	0.7	0.8	2	3.6	1,500	780	–	aND	–
	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	–	a<5	–
	03/08/95	<0.3	<0.3	<0.3	<0.5	360	1,000	–	a<5	–
	06/09/95	<0.3	0.4	<0.3	<0.5	64	1,100	–	a<5	–
	08/29/95	<0.3	<0.3	<0.3	<0.5	<50	1,200	–	a<5	–
	11/15/95	<0.5	<0.5	<0.5	<0.5	<50	2,100	–	aND	–
	03/05/96	<0.5	<1.0	<1.0	<2.0	<100	590	–	aND	–
	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

TABLE 2
Summary of Historical Groundwater Sample Analyses
(All results expressed in parts per billion)

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	*[c]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	–	[h]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
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	–	[N]D	–
	09/27/94	<0.3	<0.3	<0.3	<0.5	<10	<250	–	[d]8	–
	12/01/94	<0.3	<0.3	<0.3	<0.5	<10	<250	–	[g]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	–	[h]24	–
	11/15/95	<0.5	<0.5	<0.5	<0.5	<50	<200	–	[g]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

TABLE 2
Summary of Historical Groundwater Sample Analyses
(All results expressed in parts per billion)

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	[a]40	–
	03/09/94	<0.3	<1.0	1.5	4.1	620	<100	–	[c]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	[e]<250	–	ND	–
	12/01/94	<0.3	<0.3	<0.3	1.1	<10	[e]<250	–	[g]28	–
	03/08/95	<0.3	<0.3	<0.3	<0.5	<10	[e]<250	–	ND	–
	06/09/95	<0.3	<0.3	<0.3	<0.5	<50	<250	–	ND	–
	09/29/95	<0.3	<0.3	<0.3	<0.5	<50	<250	–	[h]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
MW-8	12/27/93	0.4	4	0.4	1	390	<100	<1	[a]18	–
	03/09/94	0.6	0.8	0.5	1.5	420	<100	–	[a]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	[e]<250	–	[g]9	–
	12/01/94	5.4	<0.3	0.7	1.3	230	[e]<250	–	[c]ND	–
	03/08/95	<0.3	<0.3	<0.3	<0.5	230	[e]<250	–	ND	–
	06/09/95	<0.3	<0.3	<0.3	<0.5	<50	[e]<250	–	ND	–
	08/29/95	0.9	0.4	<0.3	0.8	200	[e]<250	–	[h]15	–
	11/15/95	0.58	<0.5	<0.5	0.54	120	–	–	[g]21	–
	12/11/95	–	–	–	–	–	[e]<200	–	–	–
	03/05/96	0.6	<1.0	<1.0	<2.0	<100	[e]<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
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

TABLE 2
Summary of Historical Groundwater Sample Analyses
(All results expressed in parts per billion)

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
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	--	--	28
	08/11/98	2.6	<0.5	<0.5	0.86	320	5,400	--	--	8.7

Notes:

--	=	No datum 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, included in Attachment 4.)
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

Groundwater Monitoring

Groundwater monitoring is accomplished using a 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 which utilizes 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:

(Product thickness) x (0.8) + (Water elevation) = 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 (TPH)-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.

8/11/98

SITE VISIT FORM
Fluor Daniel GTI - Martinez, California

Project: 103232.00 Technician: J. MERINO
Site: SEARS/#1058/Oakland, CA Scheduled: 8/10/98
Project Mgr: Melissa Gossell Site Mgr: B. Pierskalla

PREPARATORY COMMENTS

Visit Date: 8/11/98 Arrival Time: 9:30 Departure Time: 14:00

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: 030543 [Quarterly]

Notify Tom Peacock 72 hrs in advance (510) 567-6782 DONE: message with Larry $HO 567-6774 8/6 @ 1:50pm jelle

SITE ADDRESS: 2633 Telegraph Avenue, Oakland, CA

cc: Melissa Gossell, Brian Pierskalla

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.

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

3. Collect one trip blank and one duplicate from MW-4 and submit for BTEX-8020 only.

SITE VISIT FORM
Fluor Daniel GTI - Martinez, California

Project: 103232.00 Technician:
Site: SEARS/#1058/Oakland, CA Scheduled: 8/10/98
Project Mgr: Melissa Gossell Site Mgr: B. Pierskalla

GROUNDWATER SAMPLING (Continued) - Task Nr: 030543 [Quarterly]

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 Redwood City, CA ph# (650) 364-9600. To be analyzed for BTEX/MTBE/TPH-G (EPA 8020/8015), and TPH-Motor Oil (EPA 8015).

6. COMPLETED ALL THREE PAGES OF WASTE INVENTORY FORM? YES. 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	5.50

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

TRAVEL 2.50

SITE VISIT FORM
Fluor Daniel GTI - Martinez, California

Project: 103232.00 Technician:
Site: SEARS/#1058/Oakland, CA Scheduled: 8/10/98
Project Mgr: Melissa Gossell Site Mgr: B. Pierskalla

TECHNICIAN'S COMMENTS

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

Technician

SITE VISIT FORM
FLUOR DANIEL GTI

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

Technician: J MERINO
Schedule:
Job No. 103232.030543

WELL WATER SAMPLING - TASK Nr: 030543 [QUARTERLY]
Gauge wells for volume of water & bail 3 well Vol,s. DECON
PREPATORY COMMENTS

Visit Date: 8/1/98 Arrival Time:_____ Departure Time:_____

Called Project Manager? YES NO Time:_____ Who:_____

If you did not call, why not?_____

Weather: Rain Snow Sunny Cloudy Temperature:_____

Well ID				
MW-1:	DTB_21.72	DTW 11.60	SAT. THICK___	#GAL. BAILED_____
MW-2:	DTB_21.79	DTW 11.56	SAT. THICK___	#GAL. BAILED_____
MW-3:	DTB_24.67	DTW 12.97 DTP	~~SAT. THICK~~ 12.79	#GAL. BAILED 0
MW-4:	DTB_22.97	DTW 11.90	SAT. THICK___	#GAL. BAILED_____
MW-5:	DTB_25.27	DTW 10.67	SAT. THICK___	#GAL. BAILED_____
MW-6:	DTB_22.05	DTW 11.21	SAT. THICK___	#GAL. BAILED_____
MW-7:	DTB_21.70	DTW 11.55	SAT. THICK___	#GAL. BAILED_____
MW-8:	DTB_22.14	DTW 12.60	SAT. THICK___	#GAL. BAILED_____
MW-9	DTB_20.30	DTW 12.15	SAT. THICK___	#GAL. BAILED_____
EW-1	DTB_22.30	DTW 12.85	SAT. THICK___	#GAL. BAILED_____

NOTES: Secor installing Vapor System across street at old Sears building NORTH/WEST CORNER OF TELEGRAPH & 27TH ST.

HOURS ESTIMATED: HOURS USED:

FINAL CHECKS

Are Wells Locked? (YES) NO Why Not?

Are Manholes Bolted Down? (YES) NO Why Not?

SITE VISIT FORM
FLUOR DANIEL GTI

Project: Sears/#1058/Oakland	Technician:
Store #: 1058/2633 Telegraph	Schedule:
Project Manager: Melissa Gossell	Job No. 103232.030543

TECHNICIAN'S 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 OAKLAND

Sears Facility Contact and Phone #

Fluor Daniel GTI Representative HECTOR MERINO

Accumulation Start Date 8/11/98 Completion Date: 8/11/98

Exact Drum Storage Location NEXT TO WOOD FENE BEHIND BUILDING.

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	3	A,B,C	O or B	H / N (U)	BLACK, WHITE TOP
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 ti

DRUMMED MATERIAL INVENTORY FORM

Store Number 1058 City/State OAKland CA

Fluor Daniel GTI Representative HARGROVE

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

DRUM ID	ACCUMU-LATION START DATE	CONTENTS (as on label) VOLUME (if mixed waste)	SOURCE (be specific)	SLUDGE PRESENT Y/N	VOLUME (gallon)
A	5/20/98	PURGE WATER	WELLS	NO	55
B	8/11/98	PURGE WATER	WELLS	NO	55
C	8/11/98	PURGE WATER	WELLS	NO	55

EXAMPLE

A	6/24/94	diesel(3)/water(8)	diesel lines, flush water	no	11

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 OAKland CA

Sears Facility Contact and Phone # _____

Fluor Daniel GTI Representative HECTOR MERINO

Accumulation Start Date 8/11/98 Completion Date 8/11/98

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 _____ ÷ 2 ÷ 27 = _____ Yds^3

Calculation for a rectangular or square shaped soil pile:

Length _____ X Width _____ X Height _____ ÷ 27 = _____ Yds^3

Calculation for a conical (cone) shaped soil pile:

.04 X Radius _____ X Radius _____ X Height _____ = _____ Yds^3

Project Name: Sears / #1058/Oakland, CA
Site Address: 2633 Telegraph Ave., Oakland
Project Number: 103232.030543

Date: 8/11/98
Page 1 of 10
Project Manager: Melissa Gosselt

Well ID: MW-5
Well Diameter: 2

DTW Measurements:
Initial: 10.67
Recharge:
DTB: 25.27

Calc Well Volume: 2.3 gal
Well Volume: X3 7.1 gal

Purge Method
Peristaltic
Gear Drive
Submersible X

Pump Depth ft.
Hand Bailed
Air Lift
Other

Instruments Used
YSI: X
Hydac:
Omega:
Other:

Time	Temp °C / F	Conductivity (mmhos/cm)	pH	Purge Volume Gallons	Turbidity	Comments
10:30	22.9	0.34	6.36	2	Cloudy	
10:31	22.7	0.41	6.38	3		
10:32	22.8	0.42	6.37	4		
10:33	22.9	0.43	6.38	5		
10:34	22.9	0.43	6.39	6		
10:36	22.8	0.43	6.41	7	↓	

Project Name: Sears / #1058/Oakland, CA
Site Address: 2633 Telegraph Ave., Oakland
Project Number: 103232.030543

Date: 8/11/98
Page 2 of 10
Project Manager: Melissa Gossell

Well ID: MW-1
Well Diameter: 2

DTW Measurements:
Initial: 11.60
Recharge:
DTB: 21.72

Calc Well Volume: 1.6 gal
Well Volume: X3 4.9 gal

Purge Method
Peristaltic
Gear Drive
Submersible Y

Pump Depth ft.
Hand Bailed
Air Lift
Other

Instruments Used
YSI: X
Hydac:
Omega:
Other:

Time	Temp ~~X~~ C / F	Conductivity (mmhos/cm)	pH	Purge Volume Gallons	Turbidity	Comments
9:50	24.0	0.34	6.89	1	cloudy	
9:51	25.0	0.38	6.76	2	↓	
9:52	24.7	0.40	6.61	3		
9:53	24.5	0.41	6.51	4		
9:54	23.9	0.41	6.43	5	✓	

Project Name: Sears / #1058/Oakland, CA
Site Address: 2633 Telegraph Ave., Oakland
Project Number: 103232.030543

Date: 8/11/98
Page 3 of 10
Project Manager: Melissa Gossell

Well ID: MW-6
Well Diameter: 2

DTW Measurements:
Initial: 11.21
Recharge:
DTB: 22.05

Calc Well Volume: 1.7 gal
Well Volume: X3 5.13 gal

Purge Method
Peristaltic
Gear Drive
Submersible X

Pump Depth ft.
Hand Bailed
Air Lift
Other

Instruments Used
YSI: X
Hydac:
Omega:
Other:

Time	Temp X C / F	Conductivity (mmhos/cm)	pH	Purge Volume Gallons	Turbidity	Comments
10:15	23.4	0.37	6.37	1	CLOUDY	BROWN
10:16	23.0	0.36	6.39	2	↓	↓
10:17	22.6	0.35	6.37	3		
10:18	22.2	0.34	6.38	4		
10:19	22.1	0.35	6.36	5	↓	↓

Project Name: Sears / #1058/Oakland, CA
Site Address: 2633 Telegraph Ave., Oakland
Project Number: 103232.030543

Date: 8/11/98
Page 4 of 10
Project Manager: Melissa Gossell

Well ID: MW-7
Well Diameter: 2

DTW Measurements:
Initial: 14.55
Recharge:
DTB: 24.70

Calc Well Volume: 1.6 gal
Well Volume: X3 4.9 gal

Purge Method
Peristaltic
Gear Drive
Submersible X

Pump Depth ft.
Hand Bailed
Air Lift
Other

Instruments Used
YSI: X
Hydac:
Omega:
Other:

Time	Temp X C / F	Conductivity (mmhos/cm)	pH	Purge Volume Gallons	Turbidity	Comments
10:48	23.2	0.43	6.43	1	Cloudy	
10:49	22.1	0.40	6.42	2		
10:50	21.7	0.41	6.40	3		
10:51	21.5	0.42	6.39	4		
10:52	21.4	0.42	6.40	5		

Project Name: Sears / #1058/Oakland, CA
Site Address: 2633 Telegraph Ave., Oakland
Project Number: 103232.030543

Date: 8/11/98
Page 3 of 10
Project Manager: Melissa Gossell

Well ID: MW-8
Well Diameter: 2

DTW Measurements:
Initial: 12.60
Recharge:
DTB: 22.14

Calc Well Volume: 1.5 gal
Well Volume (3) 4.6 gal

Purge Method
Peristaltic
Gear Drive
Submersible X

Pump Depth ft.
Hand Bailed
Air Lift
Other

Instruments Used
YSI: X
Hydac:
Omega:
Other:

Time	Temp X C / F	Conductivity (mmhos/cm)	pH	Purge Volume Gallons	Turbidity	Comments
11:04	22.1	0.45	6.40	1	cloudy	
11:05	22.2	0.42	6.42	2		
11:06	22.2	0.41	6.44	3		
11:07	22.2	0.41	6.45	4	↓	DRY @ 4 GALLONS
				5		

Project Name: Sears / #1058/Oakland, CA
Site Address: 2633 Telegraph Ave., Oakland
Project Number: 103232.030543

Date: 8/11/98
Page 6 of 10
Project Manager: Melissa Gossell

Well ID: MW-4
Well Diameter: 2

DTW Measurements:
Initial: 11.90
Recharge:
DTB: 22.57

Calc Well Volume: 1.7 gal
Well Volume: X3 5.2 gal

Purge Method
Peristaltic
Gear Drive
Submersible X

Pump Depth ft.
Hand Bailed
Air Lift
Other

Instruments Used
YSI: X
Hydac:
Omega:
Other:

Time	Temp °C / °F	Conductivity (mmhos/cm)	pH	Purge Volume Gallons	Turbidity	Comments
11:19	22.8	0.41	6.46	1	CLOUDY	
11:20	22.9	0.42	6.45	2	↓	
11:21	22.9	0.42	6.45	3	↓	DRY @ 3 GALLONS
				4		
				5		

Project Name: Sears / #1058/Oakland, CA
Site Address: 2633 Telegraph Ave., Oakland
Project Number: 103232.030543

Date: 8/11/98
Page 7 of 10
Project Manager: Melissa Gossell

Well ID: MW-2
Well Diameter: 2

DTW Measurements:
Initial: 11.56
Recharge:
DTB: 21.79

Calc Well Volume: 1.6 gal
Well Volume: X3 5.0 gal

Purge Method
Peristaltic
Gear Drive
Submersible X

Pump Depth ft.
Hand Bailed
Air Lift
Other

Instruments Used
YSI: X
Hydac:
Omega:
Other:

Time	Temp C / F	Conductivity (mmhos/cm)	pH	Purge Volume Gallons	Turbidity	Comments
	23.1	0.40	6.46	1	cloudy	
	23.0	0.42	6.45	2		
	23.0	0.41	6.44	3		
	21.9	0.40	6.44	4		
	22.8	0.42	6.44	5	↓	

Project Name: Sears / #1058/Oakland, CA
Site Address: 2633 Telegraph Ave., Oakland
Project Number: 103232.030543

Date: 8/11/98
Page 8 of 10
Project Manager: Melissa Gossell

Well ID: MW-9
Well Diameter: 2

DTW Measurements:
Initial: 12.15
Recharge:
DTB: 20.30

Calc Well Volume: 1.3 gal
Well Volume: X3 3.9 gal

Purge Method
Peristaltic
Gear Drive
Submersible X

Pump Depth ft.
Hand Bailed
Air Lift
Other

Instruments Used
YSI: X
Hydac:
Omega:
Other:

Time	Temp X C / F	Conductivity (mmhos/cm)	pH	Purge Volume Gallons	Turbidity	Comments
11:46	23.1	0.40	6.43	1	cloudy	
11:47	22.6	0.42	6.43	2	↓	
11:48	22.1	0.42	6.45	3	↓	
11:49	21.9	0.43	6.46	4	↓	
11:50	21.8	0.43	6.45	5	↓	

Project Name: Sears / #1058/Oakland, CA
Site Address: 2633 Telegraph Ave., Oakland
Project Number: 103232.030543

Date: 8/16/98
Page 9 of 10
Project Manager: Melissa Gossell

Well ID: EW-1
Well Diameter: 4

DTW Measurements: Initial: 12.85 Recharge: _____ DTB: 22.20
Calc Well Volume: 6.1 gal
Well Volume: (3) 18.3 gal

Purge Method
Peristaltic _____
Gear Drive _____
Submersible X

Pump Depth _____ ft.
Hand Bailed _____
Air Lift _____
Other _____

Instruments Used
YSI: X
Hydac: _____
Omega: _____
Other: _____

Time	Temp ~~F~~ C	Conductivity (mmhos/cm)	pH	Purge Volume Gallons	Turbidity	Comments
12:10	22.1	0.44	6.58	5	Cloudy	
12:12	21.9	0.44	6.61	10	↓	
12:15	22.0	0.44	6.61	15	↓	
12:19	21.9	0.44	6.62	20	↓	

Project Name: Sears / #1058/Oakland, CA
Site Address: 2633 Telegraph Ave., Oakland
Project Number: 103232.030543

Date: 8/11/98
Page 10 of 10
Project Manager: Melissa Gossell

Well ID: MW-3
Well Diameter: 2

DTW Measurements:
Initial: _____ Calc Well Volume: _____ gal
Recharge: _____ Well Volume: X3 _____ gal
DTB: 24.67

Purge Method
Peristaltic _____
Gear Drive _____
Submersible Y

Pump Depth _____ ft.
Hand Bailed _____
Air Lift _____
Other _____

Instruments Used
YSI: X
Hydac: _____
Omega: _____
Other: _____

Time	Temp ~~C~~ F	Conductivity (mmhos/cm)	pH	Purge Volume Gallons	Turbidity	Comments
						DTP: 12.79 DTW: 12.97
						PT : .18
						NO SAMPLE TAKEN

SEQUOIA ANALYTICAL CHAIN OF COUSTODY

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☐ 404 N. Wiget Lane • Walnut Creek, CA 94598 • (510) 988-9600 FAX (510) 988-9673

Company Name: FLUOR DANIEL GTI	Project Name: SEARS # 1058
Address: 757 ARNOLD DR SUITE D	Billing Address (if different):
City: Martinez State: CA Zip Code: 94553	JOB# 103232.030543
Telephone: (925) 370-3990 FAX #: 925/370-3991	P.O. #:
Report To: MELISA GOSEL Sampler: HECTOR MERINO	QC Data: ☐ Level D (Standard) ☐ Level C ☐ Level B ☐ Level A

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

☐ Drinking Water ☒ Waste Water (WELL) ☐ Other

Analyses Requested

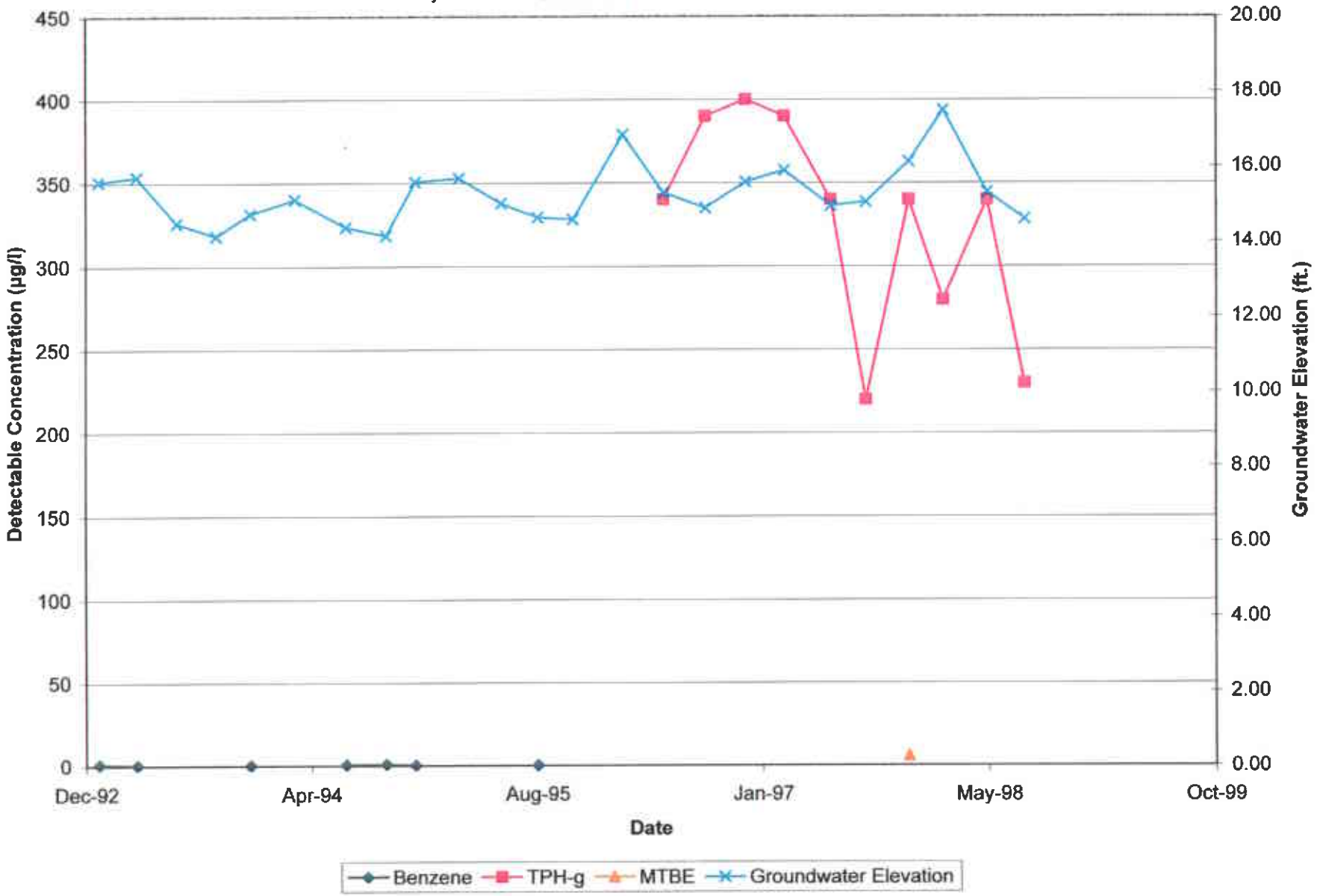
Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPH Motor Oil (8020/8015m)	BTEX MTBE TPH-G	BTEX (8020) MTBE TPH G							Comments
1. MW-1	8 13:00	GW	6	6 LITER 40mL		X	X								
2. MW-6	13:10		6			X	X								
3. MW-5	13:35		6			X	X								
4. MW-7	14:18		6			X	X								
5. MW-8	14:30		6			X	X								
6. MW-4	13:40		6			X	X								
7. MW2	13:46		6			X	X								
8. MW9	13:25		6			X	X								
9. EW1	13:58		6			X	X	[illegible]							NO BTEX (8020)
10. DUP MW4	98 10 13:47		3	40mL				X							
11. TB LB								X							

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By: Hector	Date: 8/11/98	Time: 3:05	Received By: Jeff Bonniville	Date: 8-12-98	Time: 3:05
Relinquished By:	Date:	Time:	Received By Lab:	Date:	Time:

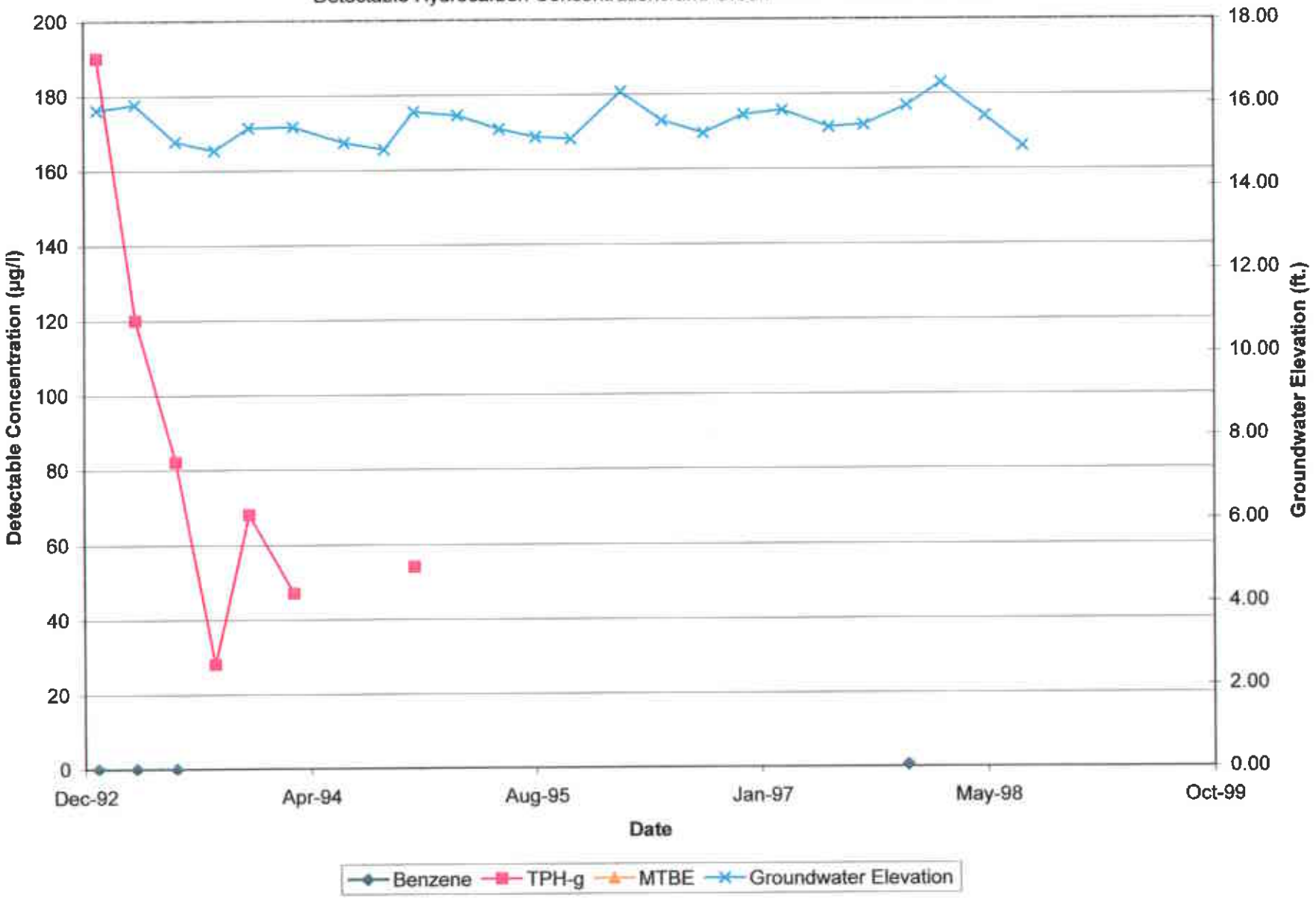
Were Samples Received in Good Condition? ☐ Yes ☐ No Samples on Ice? ☐ Yes ☐ No Method of Shipment ________ Page ___ of ___

White - Sequoia Yellow - Sequoia Pink - Client

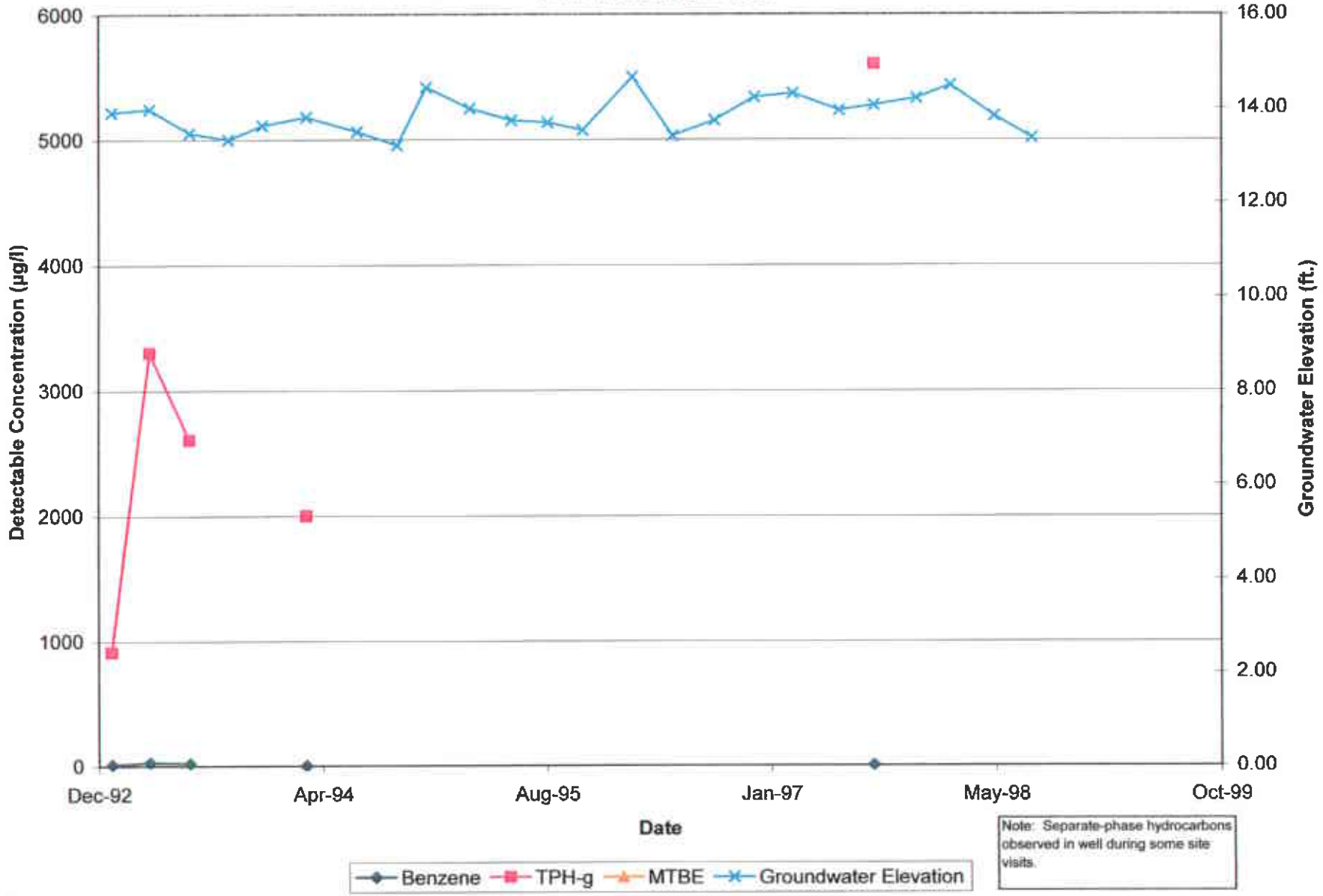
Graph 1, MW-1
Sears Store No. 1058, 2633 Telegraph Avenue
Oakland, California
Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time



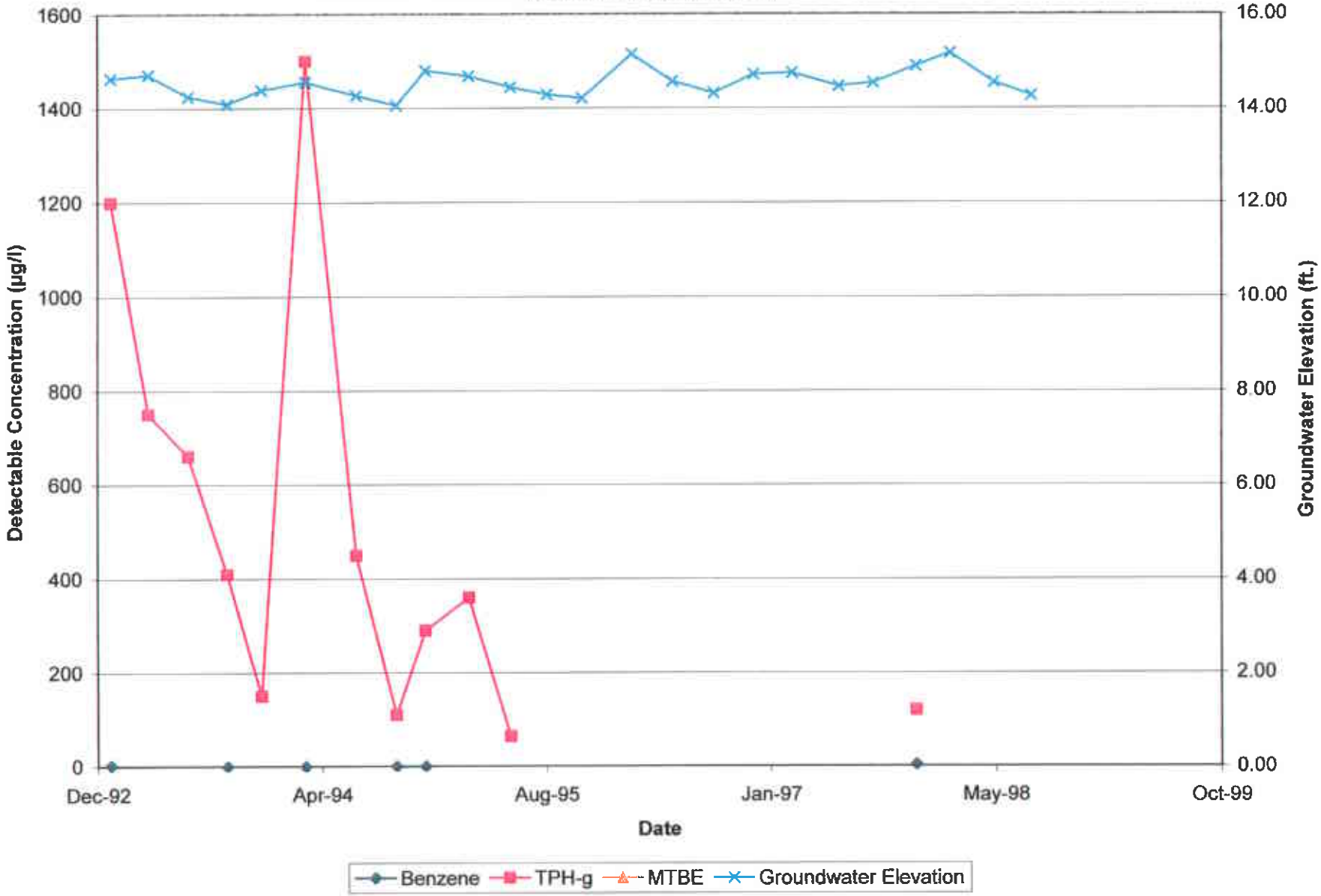
Graph 2, MW-2
Sears Store No. 1058, 2633 Telegraph Avenue
Oakland, California
Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time



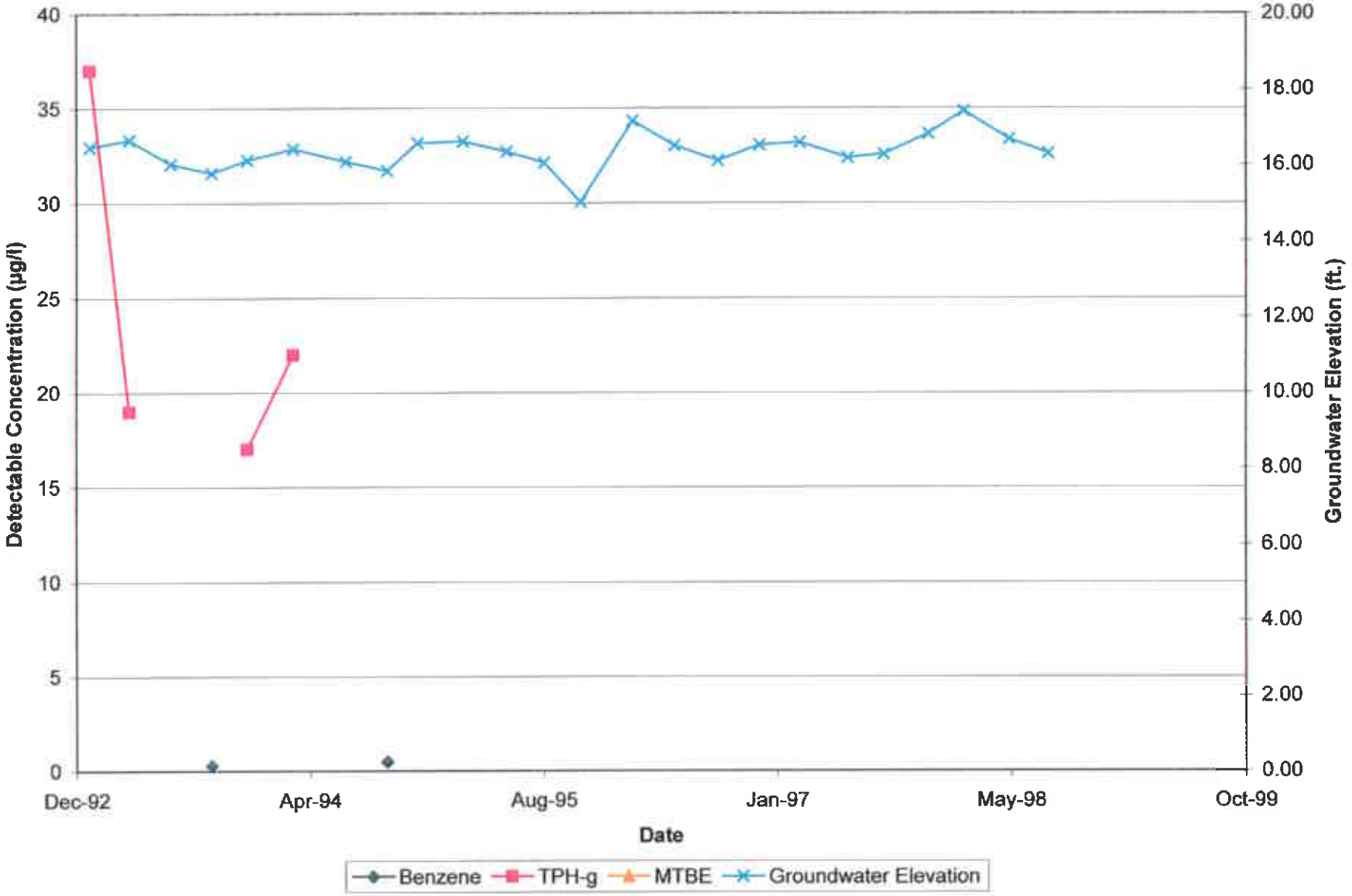
Graph 3, MW-3
Sears Store No. 1058, 2633 Telegraph Avenue
Oakland, California
Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time



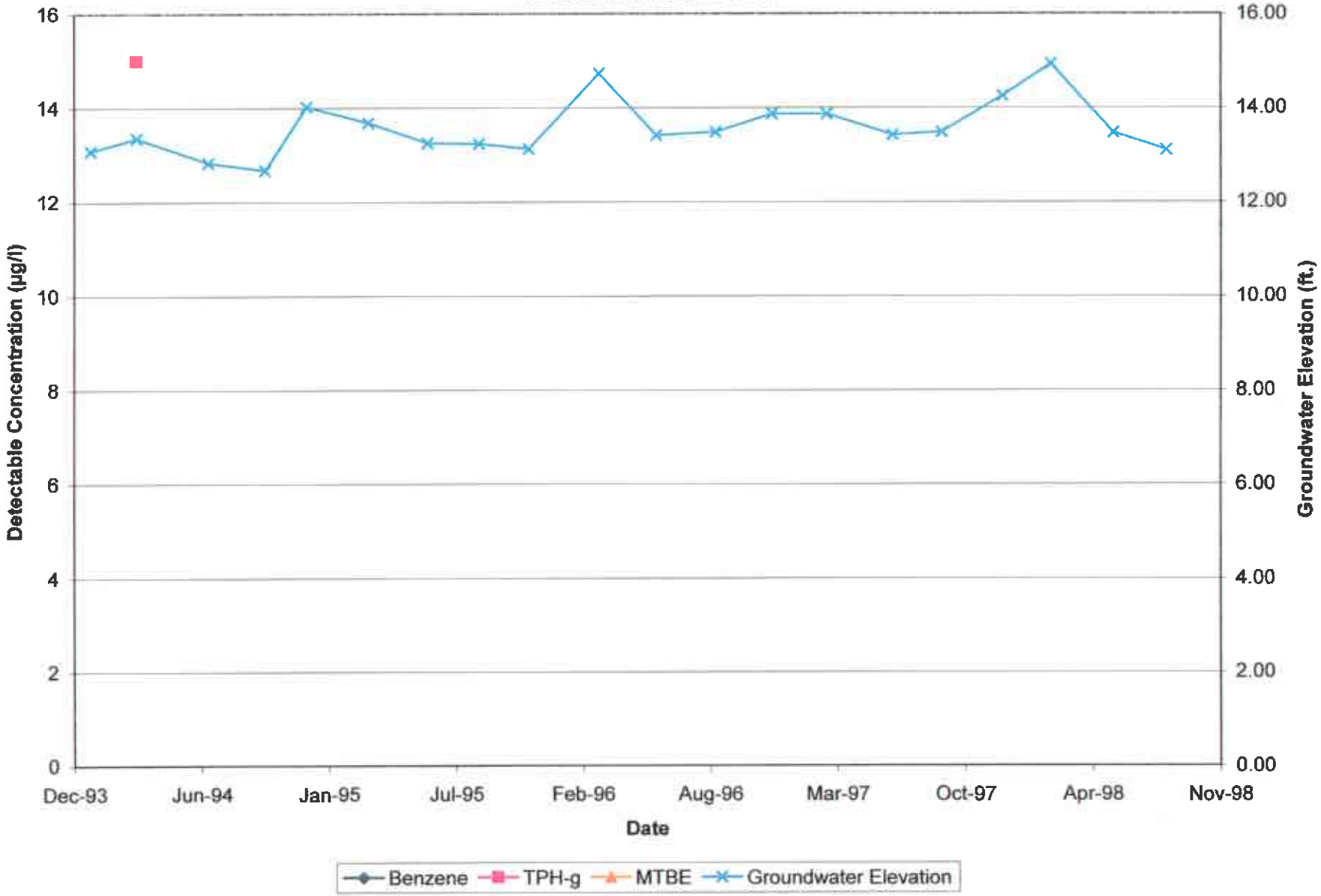
Graph 4, MW-4
Sears Store No. 1058, 2633 Telegraph Avenue
Oakland, California
Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time



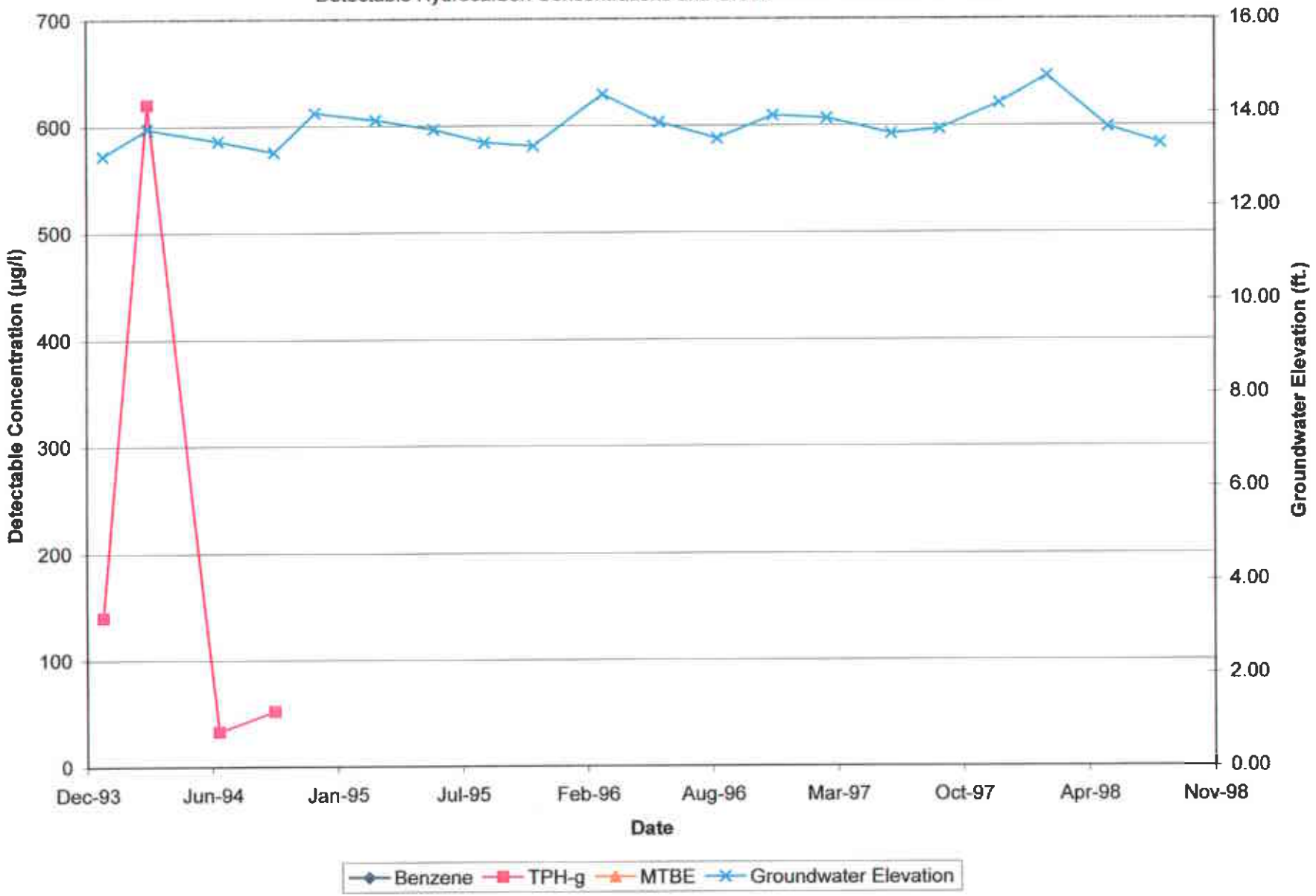
Graph 5, MW-5
Sears Store No. 1058, 2633 Telegraph Avenue
Oakland, California
Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time



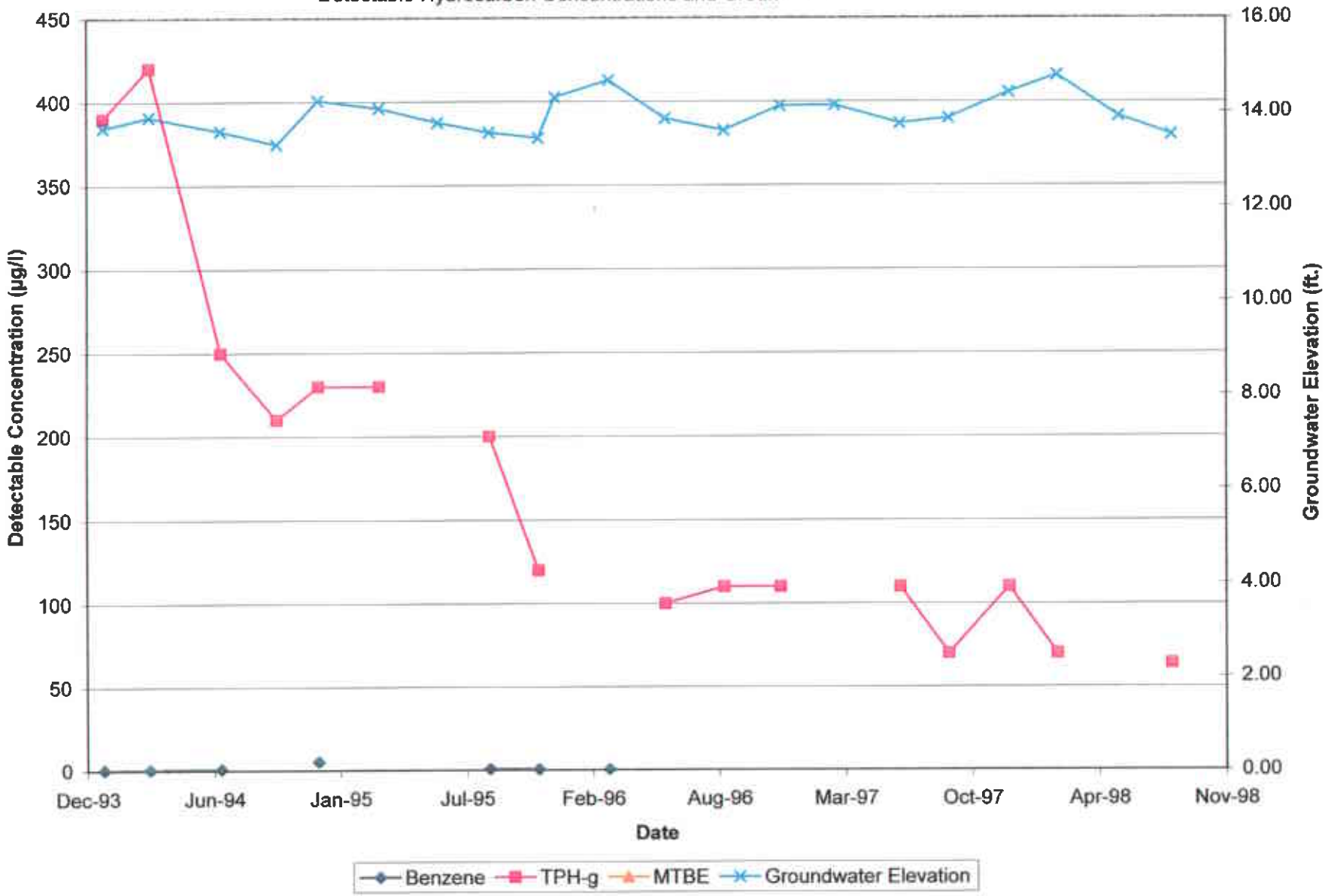
Graph 6, MW-6
Sears Store No. 1058, 2633 Telegraph Avenue
Oakland, California
Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time



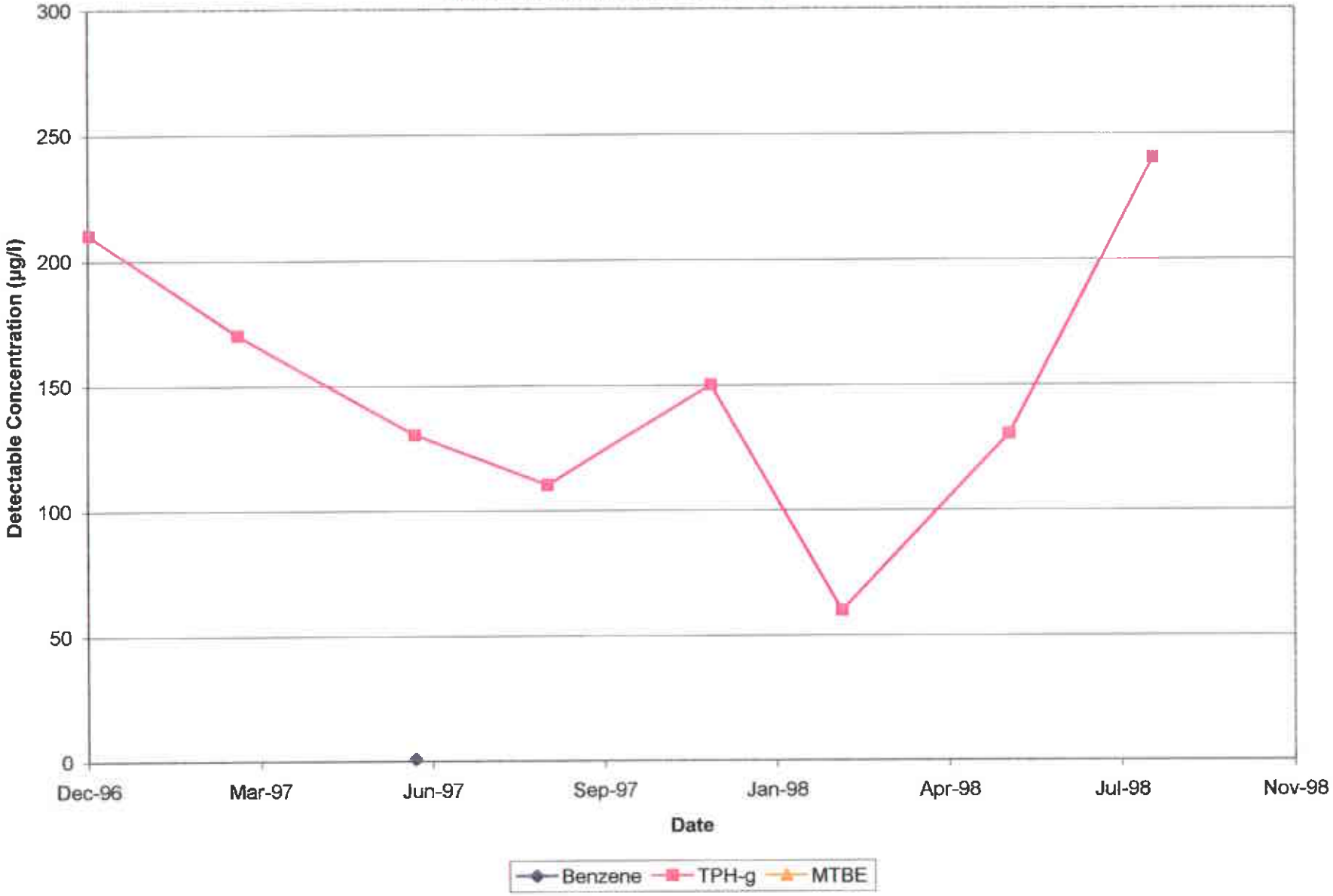
Graph 7, MW-7
Sears Store No. 1058, 2633 Telegraph Avenue
Oakland, California
Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time



Graph 8, MW-8
Sears Store No. 1058, 2633 Telegraph Avenue
Oakland, California
Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time

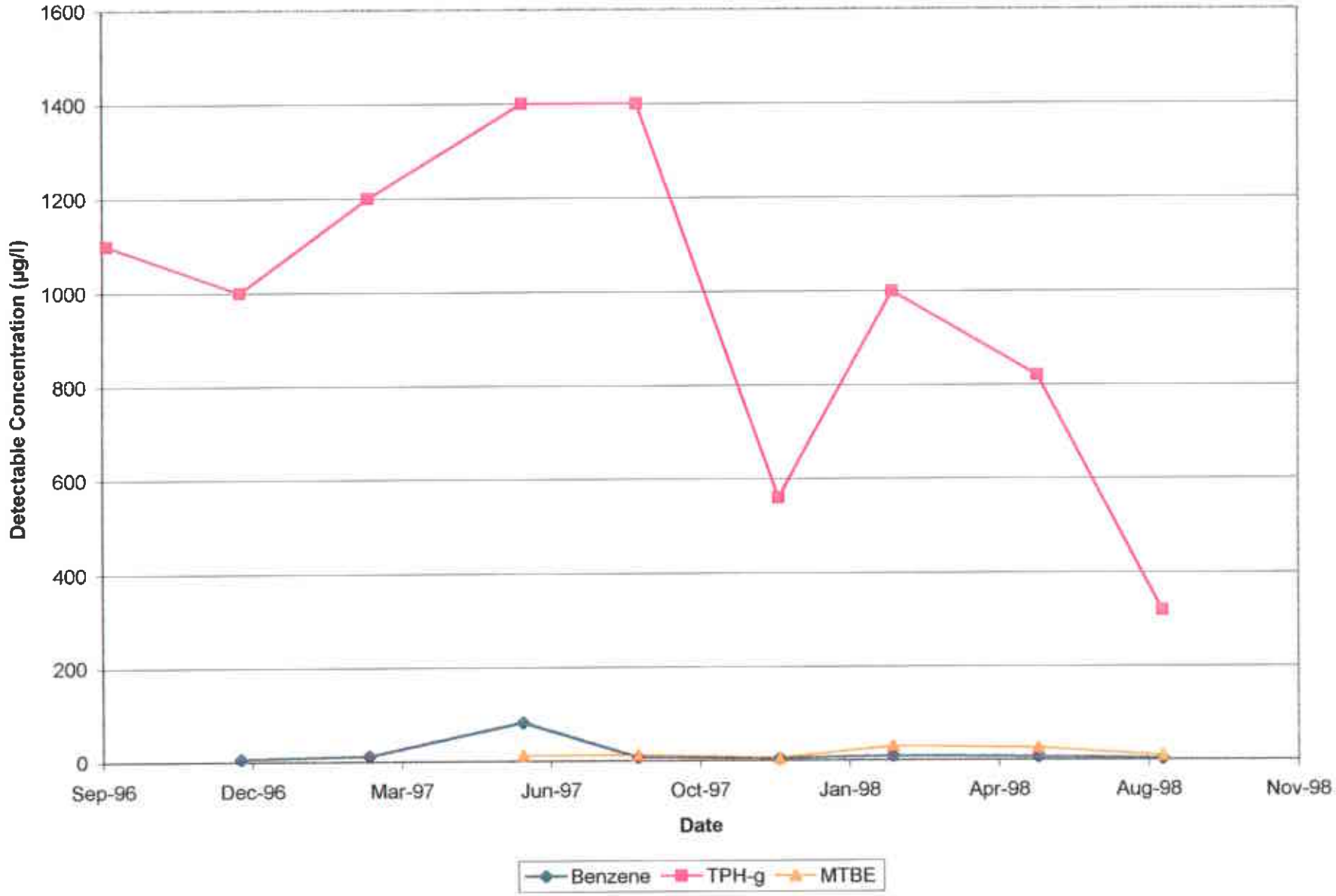


Graph 9, MW-9
Sears Store No. 1058, 2633 Telegraph Avenue
Oakland, California
Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time



NOTE:
Groundwater elevation not measured

Graph 10, EW-1
Sears Store No. 1058, 2633 Telegraph Avenue
Oakland, California
Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time



NOTE:
Groundwater elevation not measured

Attachment 5

Laboratory Reports and Chain-of-Custody Documents

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Fluor Daniel GTI
757 Arnold Dr., Suite D
Martinez, CA 94553
Attention: Melisa Gosel

Client Proj. ID: Sears #1058

Lab Proj. ID: 9808821

Received: 08/12/98

Reported: 08/27/98

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 27 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

SEQUOIA ANALYTICAL

David A. Pichette
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

uor Daniel GTI
757 Arnold Dr., Suite D
Martinez, CA 94553

ttention: Mellisa Gossel

Client Proj. ID: Sears #1058
Sample Descript: MW-1
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9808821-01

Sampled: 08/11/98
Received: 08/12/98
Extracted: 08/20/98
Analyzed: 08/25/98
Reported: 09/11/98

QC Batch Number: GC0820980HBPEXZ
Instrument ID: GCHP4B

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil	500	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	85

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

SEQUOIA ANALYTICAL - ELAP #1210

David A. Pichette
Project Manager

Sequoia Analytical

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

[redacted]uor Daniel GTI
[redacted]57 Arnold Dr., Suite D
Martinez, CA 94553

[redacted]ttention: Mellisa Gossel

Client Proj. ID: Sears #1058
Sample Descript: MW-1
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9808821-01

Sampled: 08/11/98
Received: 08/12/98

Analyzed: 08/23/98
Reported: 09/11/98

QC Batch Number: GC082398BTEX21A
Instrument ID: GCHP21

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	230
Methyl t-Butyl Ether	2.5	N.D.
[redacted]enzene	0.50	N.D.
[redacted]luene	0.50	N.D.
[redacted]thyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
[redacted]hromatogram Pattern:		
[redacted]s & Unidentified HC		C6-C12

Surrogates	Control Limits %		% Recovery
[redacted]fluorotoluene	70	130	85

Ana[redacted]tes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

David A. Pichette
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
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[illegible]uor Daniel GTI	Client Proj. ID: Sears #1058	Sampled: 08/11/98
[illegible]57 Arnold Dr., Suite D	Sample Descript: MW-6	Received: 08/12/98
Martinez, CA 94553	Matrix: LIQUID	Extracted: 08/20/98
	Analysis Method: EPA 8015 Mod	Analyzed: 08/25/98
[illegible]ttention: Mellisa Gossel	Lab Number: 9808821-02	Reported: 09/11/98

QC Batch Number: GC0820980HBPEXZ
Instrument ID: GCHP4B

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
[illegible]xtractable HC as Motor Oil	500	N.D.
Chromatogram Pattern:		

[illegible]urrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	90

An[illegible]tes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

David A. Pichette
Project Manager

Sequoia Analytical

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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Fluor Daniel GTI
757 Arnold Dr., Suite D
Martinez, CA 94553

Attention: Mellisa Gossel

Client Proj. ID: Sears #1058
Sample Descript: MW-6
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9808821-02

Sampled: 08/11/98
Received: 08/12/98

Analyzed: 08/20/98
Reported: 09/11/98

QC Batch Number: GC081998BTEX02A
Instrument ID: GCHP-02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	79

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

SEQUOIA ANALYTICAL - ELAP #1210

David A. Pichette
Project Manager

Sequoia Analytical

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404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
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Fluor Daniel GTI
757 Arnold Dr., Suite D
Martinez, CA 94553

Attention: Mellisa Gossel

Client Proj. ID: Sears #1058
Sample Descript: MW-5
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9808821-03

Sampled: 08/11/98
Received: 08/12/98
Extracted: 08/20/98
Analyzed: 08/25/98
Reported: 09/11/98

QC Batch Number: GC0820980HBPEXZ
Instrument ID: GCHP4B

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil Chromatogram Pattern:	500	N.D.

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	90

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

SEQUOIA ANALYTICAL - ELAP #1210

David A. Pichette
Project Manager

Sequoia Analytical

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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Fluor Daniel GTI
757 Arnold Dr., Suite D
Martinez, CA 94553

Attention: Mellisa Gossel

Client Proj. ID: Sears #1058
Sample Descript: MW-5
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9808821-03

Sampled: 08/11/98
Received: 08/12/98

Analyzed: 08/20/98
Reported: 09/11/98

QC Batch Number: GC081998BTEX02A
Instrument ID: GCHP-02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	75

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

SEQUOIA ANALYTICAL - ELAP #1210

David A. Pichette
Project Manager

Sequoia Analytical

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

[redacted]uor Daniel GTI	Client Proj. ID: Sears #1058	Sampled: 08/11/98
[redacted]57 Arnold Dr., Suite D	Sample Descript: MW-7	Received: 08/12/98
Martinez, CA 94553	Matrix: LIQUID	Extracted: 08/20/98
	Analysis Method: EPA 8015 Mod	Analyzed: 08/21/98
[redacted]ttention: Mellisa Gossel	Lab Number: 9808821-04	Reported: 09/11/98

QC Batch Number: GC0820980HBPEXB
[redacted]nstrument ID: GCHP5B

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
[redacted]xtractable HC as Motor Oil	500	N.D.
Chromatogram Pattern:		

[redacted]urrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	95

[redacted]An[redacted]ytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

[redacted]Da[redacted]id A. Pichette
[redacted]Pr[redacted]oject Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

uor Daniel GTI	Client Proj. ID: Sears #1058	Sampled: 08/11/98
757 Arnold Dr., Suite D	Sample Descript: MW-7	Received: 08/12/98
Martinez, CA 94553	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 08/20/98
ttention: Mellisa Gossel	Lab Number: 9808821-04	Reported: 09/11/98

QC Batch Number: GC081998BTEX02A
Instrument ID: GCHP-02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
enzene	0.50	N.D.
oluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
hromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	74

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

SEQUOIA ANALYTICAL - ELAP #1210

David A. Pichette
Project Manager

Sequoia Analytical

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

uor Daniel GTI	Client Proj. ID: Sears #1058	Sampled: 08/11/98
757 Arnold Dr., Suite D	Sample Descript: MW-8	Received: 08/12/98
Martinez, CA 94553	Matrix: LIQUID	Extracted: 08/20/98
	Analysis Method: EPA 8015 Mod	Analyzed: 08/21/98
ttention: Mellisa Gossel	Lab Number: 9808821-05	Reported: 09/11/98

QC Batch Number: GC0820980HBPEXB
Instrument ID: GCHP5B

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil	500	N.D.
Chromatogram Pattern:		

urrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	92

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

SEQUOIA ANALYTICAL - ELAP #1210

David A. Pichette
Project Manager

Sequoia Analytical

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

Fluor Daniel GTI	Client Proj. ID: Sears #1058	Sampled: 08/11/98
157 Arnold Dr., Suite D	Sample Descript: MW-8	Received: 08/12/98
Martinez, CA 94553	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 08/20/98
Attention: Mellisa Gossel	Lab Number: 9808821-05	Reported: 09/11/98

QC Batch Number: GC081998BTEX02A
Instrument ID: GCHP-02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**50**	**64**
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	75

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

SEQUOIA ANALYTICAL - ELAP #1210

David A. Pichette
Project Manager

Sequoia Analytical

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

Fluor Daniel GTI
757 Arnold Dr., Suite D
Martinez, CA 94553

Attention: Mellisa Gossel

Client Proj. ID: Sears #1058
Sample Descript: MW-4
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9808821-06

Sampled: 08/11/98
Received: 08/12/98
Extracted: 08/24/98
Analyzed: 08/25/98
Reported: 09/11/98

QC Batch Number: GC0824980HBPEXB
Instrument ID: GCHP4A

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil Chromatogram Pattern:	500	N.D.

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	96

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

SEQUOIA ANALYTICAL - ELAP #1210

David A. Pichette
Project Manager

Sequoia Analytical

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

[illegible]or Daniel GTI	Client Proj. ID: Sears #1058	Sampled: 08/11/98
757 Arnold Dr., Suite D	Sample Descript: MW-4	Received: 08/12/98
Martinez, CA 94553	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 08/20/98
Attention: Mellisa Gossel	Lab Number: 9808821-06	Reported: 09/11/98

QC Batch Number: GC081998BTEX02A
Instrument ID: GCHP-02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	78

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

SEQUOIA ANALYTICAL - ELAP #1210

David A. Pichette
Project Manager

Sequoia Analytical

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

Fluor Daniel GTI	Client Proj. ID: Sears #1058	Sampled: 08/11/98
757 Arnold Dr., Suite D	Sample Descript: MW-2	Received: 08/12/98
Martinez, CA 94553	Matrix: LIQUID	Extracted: 08/24/98
	Analysis Method: EPA 8015 Mod	Analyzed: 08/25/98
Attention: Mellisa Gossel	Lab Number: 9808821-07	Reported: 09/11/98

QC Batch Number: GC0824980HBPEXB
Instrument ID: GCHP4A

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil	500	1200
Chromatogram Pattern:	C16-C36	Motor Oil

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	116

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

SEQUOIA ANALYTICAL - ELAP #1210

David A. Pichette
Project Manager

Sequoia Analytical

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

[redacted]uor Daniel GTI
757 Arnold Dr., Suite D
Martinez, CA 94553

[redacted]tention: Mellisa Gossel

Client Proj. ID: Sears #1058
Sample Descript: MW-2
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9808821-07

Sampled: 08/11/98
Received: 08/12/98

Analyzed: 08/20/98
Reported: 09/11/98

QC Batch Number: GC081998BTEX02A
In[redacted]rument ID: GCHP-02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
[redacted]		
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
[redacted]nzene	0.50	N.D.
[redacted]luene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
[redacted]romatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	75

[redacted]es reported as N.D. were not present above the stated limit of detection.

[redacted]EQUOIA ANALYTICAL - ELAP #1210

[redacted]
[redacted] A. Pichette
[redacted]ject Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
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uor Daniel GTI	Client Proj. ID: Sears #1058	Sampled: 08/11/98
757 Arnold Dr., Suite D	Sample Descript: MW-9	Received: 08/12/98
Martinez, CA 94553	Matrix: LIQUID	Extracted: 08/20/98
	Analysis Method: EPA 8015 Mod	Analyzed: 08/21/98
ttention: Mellisa Gossel	Lab Number: 9808821-08	Reported: 09/11/98

QC Batch Number: GC0820980HBPEXB
Instrument ID: GCHP5B

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil Chromatogram Pattern:	500	N.D.

urrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	103

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

SEQUOIA ANALYTICAL - ELAP #1210

David A. Pichette
Project Manager

Sequoia Analytical

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

[illegible]uor Daniel GTI	Client Proj. ID: Sears #1058	Sampled: 08/11/98
[illegible]57 Arnold Dr., Suite D	Sample Descript: MW-9	Received: 08/12/98
Martinez, CA 94553	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 08/20/98
[illegible]tention: Mellisa Gossel	Lab Number: 9808821-08	Reported: 09/11/98

QC Batch Number: GC081998BTEX02A
Instrument ID: GCHP-02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**50**	**240**
Methyl t-Butyl Ether	2.5	N.D.
[illegible]nzene	0.50	N.D.
[illegible]luene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	**0.50**	**0.76**
[illegible]romatogram Pattern:		
[illegible]eathered Gas		C9-C12

Surrogates	Control Limits %		% Recovery
[illegible]fluorotoluene	70	130	87

Ana[illegible]es reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Da[illegible]d A. Pienette
Project Manager

Sequoia Analytical

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

[redacted]uor Daniel GTI
[redacted]757 Arnold Dr., Suite D
Martinez, CA 94553

[redacted]ttention: Mellisa Gossel

Client Proj. ID: Sears #1058
Sample Descript: EW-1
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9808821-09

Sampled: 08/11/98
Received: 08/12/98
Extracted: 08/20/98
Analyzed: 08/24/98
Reported: 09/11/98

QC Batch Number: GC0820980HBPEXB
[redacted]strument ID: GCHP5B

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil	1000	5400
Chromatogram Pattern:	C16-C36+	Motor Oil C16-C36
[redacted]nidentified HC		

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	298 Q

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

SEQUOIA ANALYTICAL - ELAP #1210

[redacted]David A. Pichette
Project Manager

Sequoia Analytical

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

[redacted]uor Daniel GTI	Client Proj. ID: Sears #1058	Sampled: 08/11/98
[redacted]757 Arnold Dr., Suite D	Sample Descript: EW-1	Received: 08/12/98
Martinez, CA 94553	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 08/20/98
[redacted]ttention: Mellisa Gossel	Lab Number: 9808821-09	Reported: 09/11/98

QC Batch Number: GC081998BTEX02A
[redacted]Instrument ID: GCHP-02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**50**	**320**
Methyl t-Butyl Ether	**2.5**	**8.7**
[redacted]enzene	**0.50**	**2.6**
[redacted]oluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	**0.50**	**0.86**
[redacted]hromatogram Pattern:		**GAS**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	76

An[redacted]ytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

[redacted]Da[redacted]d A. Pichette
Project Manager

Sequoia Analytical

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

[redacted]uor Daniel GTI	Client Proj. ID: Sears #1058	Sampled: 08/11/98
[redacted]757 Arnold Dr., Suite D	Sample Descript: Dup MW4	Received: 08/12/98
Martinez, CA 94553	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 08/20/98
[redacted]tention: Mellisa Gossel	Lab Number: 9808821-10	Reported: 09/11/98

QC Batch Number: GC081998BTEX02A
Instrument ID: GCHP-02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
[redacted]nzene	0.50	N.D.
[redacted]luene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
[redacted]romatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	72

[redacted]tes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

[redacted]d A. Pichette
Project Manager

Sequoia Analytical

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

uor Daniel GTI	Client Proj. ID: Sears #1058	Sampled: 08/11/98
757 Arnold Dr., Suite D	Sample Descript: TB-LB	Received: 08/12/98
Martinez, CA 94553	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 08/17/98
ttention: Mellisa Gossel	Lab Number: 9808821-11	Reported: 09/11/98

QC Batch Number: GC081798BTEX06A
Instrument ID: GCHP6

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
enzene	0.50	N.D.
luene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
hromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	90

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

SEQUOIA ANALYTICAL - ELAP #1210

David A. Pichette
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Fluor Daniel GTI
757 Arnold Dr., Ste. D
Martinez, CA 94553
Attention: Melisa Gosel

Client Project ID: Sears #1058

QC Sample Group: 9808821

Reported: Aug 27, 1998

QUALITY CONTROL DATA REPORT

Matrix:	Liquid
Method:	EPA 8015A
Analyst:	A. PORTER
ANALYTE	Diesel

QC Batch #: GC0824980HBPEXB

Sample No.:	9808767-4
Date Prepared:	8/24/98
Date Analyzed:	8/25/98
Instrument I.D.#:	GCHP4B
Sample Conc., ug/L:	N.D.
Conc. Spiked, ug/L:	1000
Matrix Spike, ug/L:	820
% Recovery:	82
Matrix Spike Duplicate, ug/L:	730
% Recovery:	73
Relative % Difference:	12
RPD Control Limits:	0-50

LCS Batch#: BLK082498BS

Date Prepared:	8/24/98
Date Analyzed:	8/25/98
Instrument I.D.#:	GCHP4B
Conc. Spiked, ug/L:	1000
Recovery, ug/L:	770
LCS % Recovery:	77

Percent Recovery Control Limits:

MS/MSD	50-150
LCS	60-140

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

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.

SEQUOIA ANALYTICAL

David A. Pichette
Project Manager

Sequoia Analytical

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

Fluor Daniel GTI
757 Arnold Dr., Ste. D
Martinez, CA 94553
Attention: Melisa Gosel

Client Project ID: Sears #1058

QC Sample Group: 9808821

Reported: Aug 27, 1998

QUALITY CONTROL DATA REPORT

Matrix:	Liquid
Method:	EPA 8015A
Analyst:	A. PORTER
ANALYTE	Diesel

QC Batch #: GC0820980HBPEXZ

Sample No.:	9808727-7
Date Prepared:	8/20/98
Date Analyzed:	8/24/98
Instrument I.D.#:	GCHP4B
Sample Conc., ug/L:	170
Conc. Spiked, ug/L:	1000
Matrix Spike, ug/L:	870
% Recovery:	70
Matrix Spike Duplicate, ug/L:	890
% Recovery:	72
Relative % Difference:	2.8
RPD Control Limits:	0-50

LCS Batch#: BLK082098ZS

Date Prepared:	8/20/98
Date Analyzed:	8/24/98
Instrument I.D.#:	GCHP4B
Conc. Spiked, ug/L:	1000
Recovery, ug/L:	730
LCS % Recovery:	73

Percent Recovery Control Limits:

MS/MSD	50-150
LCS	60-140

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

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.

SEQUOIA ANALYTICAL

David A. Pichette
Project Manager

Sequoia Analytical

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

Fluor Daniel GTI
757 Arnold Dr., Ste. D
Martinez, CA 94553
Attention: Melisa Gosel

Client Project ID: Sears #1058

QC Sample Group: 9808821

Reported: Aug 27, 1998

QUALITY CONTROL DATA REPORT

Matrix: Liquid
Method: EPA 8020
Analyst: A.M.

ANALYTE	Benzene	Toluene	Ethylbenzene	Xylenes
QC Batch #: GC082398BTEX21A				
Sample No.: GW9808A87-04				
Date Prepared:	8/23/98	8/23/98	8/23/98	8/23/98
Date Analyzed:	8/23/98	8/23/98	8/23/98	8/23/98
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21
Sample Conc., ug/L:	N.D.	N.D.	N.D.	N.D.
Conc. Spiked, ug/L:	10	10	10	30
Matrix Spike, ug/L:	12	11	11	34
% Recovery:	120	110	110	113
Matrix Spike Duplicate, ug/L:	12	12	11	35
% Recovery:	120	120	110	117
Relative % Difference:	0.0	8.7	0.0	3.5
RPD Control Limits:	0-25	0-25	0-25	0-25

LCS Batch#: GWLCS082398A				
Date Prepared:	8/23/98	8/23/98	8/23/98	8/23/98
Date Analyzed:	8/23/98	8/23/98	8/23/98	8/23/98
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21
Conc. Spiked, ug/L:	10	10	10	30
LCS Recovery, ug/L:	10	9.7	9.6	29
LCS % Recovery:	100	97	96	97

Percent Recovery Control Limits:

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

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

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SEQUOIA ANALYTICAL

David A. Pichette
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Fluor Daniel GTI
757 Arnold Dr., Suite D
Martinez, CA 94553
Attention: Melisa Gossiel

Client Project ID: Sears #1058

QC Sample Group: 9808821

Reported: Aug 28, 1998

QUALITY CONTROL DATA REPORT

Matrix: Liquid
Method: EPA 8020
Analyst: AM

ANALYTE	Benzene	Toluene	Ethylbenzene	Xylenes
QC Batch #:	GC082398BTEX02A			
Sample No.:	GW9808A87-01			
Date Prepared:	8/23/98	8/23/98	8/23/98	8/23/98
Date Analyzed:	8/23/98	8/23/98	8/23/98	8/23/98
Instrument I.D.#:	GCHP02	GCHP02	GCHP02	GCHP02
Sample Conc., ug/L:	N.D.	N.D.	N.D.	N.D.
Conc. Spiked, ug/L:	10	10	10	30
Matrix Spike, ug/L:	11	11	11	33
% Recovery:	110	110	110	110
Matrix Spike Duplicate, ug/L:	12	12	12	36
% Recovery:	120	120	120	120
Relative % Difference:	8.7	8.7	8.7	8.7
RPD Control Limits:	0-25	0-25	0-25	0-25

LCS Batch#:	GWLCS082398A			
Date Prepared:	8/23/98	8/23/98	8/23/98	8/23/98
Date Analyzed:	8/23/98	8/23/98	8/23/98	8/23/98
Instrument I.D.#:	GCHP02	GCHP02	GCHP02	GCHP02
Conc. Spiked, ug/L:	10	10	10	30
LCS Recovery, ug/L:	13	13	13	38
LCS % Recovery:	130	130	130	127

Percent Recovery Control Limits:

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

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

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.

SEQUOIA ANALYTICAL

David A. Pichette
Project Manager

SEQUOIA ANALYTICAL
CHAIN OF CUSTODY

680 Chaparral 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 • (510) 988-9600 FAX (510) 988-9673

Company Name: FLUOR DANIEL GTI	Project Name: SEARS # 1058
Address: 757 ARNOLD DR. SUITE D	Billing Address (if different):
City: MARTINEZ State: CA Zip Code: 94553	Job# 103233.030.573
Telephone: (925) 370-3990 FAX #: (925) 370-3991	P.O. #:
Report To: MELISA GOSELL Sampler: HECTOR MEDINA	QC Data: ☐ Level D (Standard) ☐ Level C ☐ Level B ☐ Level A

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

☐ Drinking Water ☒ Waste Water (WELL) ☐ Other

Analyses Requested 9808821

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPH Modified G.C. (8015 Modified)	BTEX (8020)	BTEX (8020) MTBE TPH-G	Comments
1. MW-1	8 13:00	GW	6	VOLLITER 40ML	1	X	X		
2. MW-6	13:10		6		2	X	X		
3. MW-5	13:35		6		3	X	X		
4. MW-7	14:18		6		4	X	X		
5. MW-8	14:30		6		5	X	X		
6. MW-4	13:40		6		6	X	X		
7. MW2	13:46		6		7	X	X		
8. MW9	13:25		6		8	X	X		
9. EW1	98 13:58		6	↓	9	X	X	X	NO BTEX (8020)
10. DUP MW4	98 13:47		3	40mL	10			X	
11. TB LB		↓	1	↓	11			X	

Relinquished By:		Date:	Time:	Received By:	Date: Time:
Relinquished By:		Date: 8/11/98	Time: 3:05	Received By:	Date: 8-12-98 Time: 3:05
Relinquished By:		Date: 8-12-98	Time:	Received By Lab:	Date: 8/12/98 Time: 6 46

Were Samples Received in Good Condition? ☒ Yes ☐ No Samples on Ice? ☒ Yes ☐ No Method of Shipment: _____ Page ___ of ___

AU 12 4 46

Pink - Client
Yellow - Sequoia
White - Sequoia