



FLUOR DANIEL GTI

R0480

SFAD

1082

April 14, 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: Quarterly Groundwater Monitoring and Sampling Report
Former Sears 1058, 2633 Telegraph Avenue, Oakland, California
Fluor Daniel GTI Project 103232

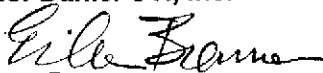
Dear Mr. Klettke:

On behalf of Sears, Roebuck and Co., Fluor Daniel GTI, Inc., presents the quarterly groundwater monitoring data collected on February 12, 1998 from the site referenced above. The ten groundwater monitoring wells were gauged to determine depth to groundwater and to check for the presence of separate-phase petroleum hydrocarbons, in accordance with correspondence from the Alameda Health Care Services Agency dated May 1, 1996. A layer 0.03-foot-thick of separate-phase hydrocarbons was detected in monitoring well MW-3, which is consistent with past measurements. A potentiometric surface map is presented in Attachment 1. A historical summary of groundwater monitoring data is presented in Attachment 2.

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 presented in Attachment 3. The groundwater samples were analyzed for benzene, toluene, ethyl-benzene, xylenes (BTEX), methyl tert-butyl ether (MTBE) and for total petroleum hydrocarbons (TPH)-as-gasoline by EPA Methods 8020/modified 8015, and for TPH-as-motor oil by modified EPA Method 8015 (GC/FID). A summary of the groundwater analytical results is presented in Attachment 2. A distribution map of dissolved benzene, TPH-as-gasoline and TPH-as-motor-oil concentrations is presented in Attachment 1. Laboratory reports and chain-of-custody records are included in Attachment 4.

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

Sincerely,
Fluor Daniel GTI, Inc.


Eileen Brennan
West Zone Project Manager

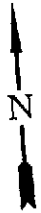
Attachments

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

ATTACHMENT 1

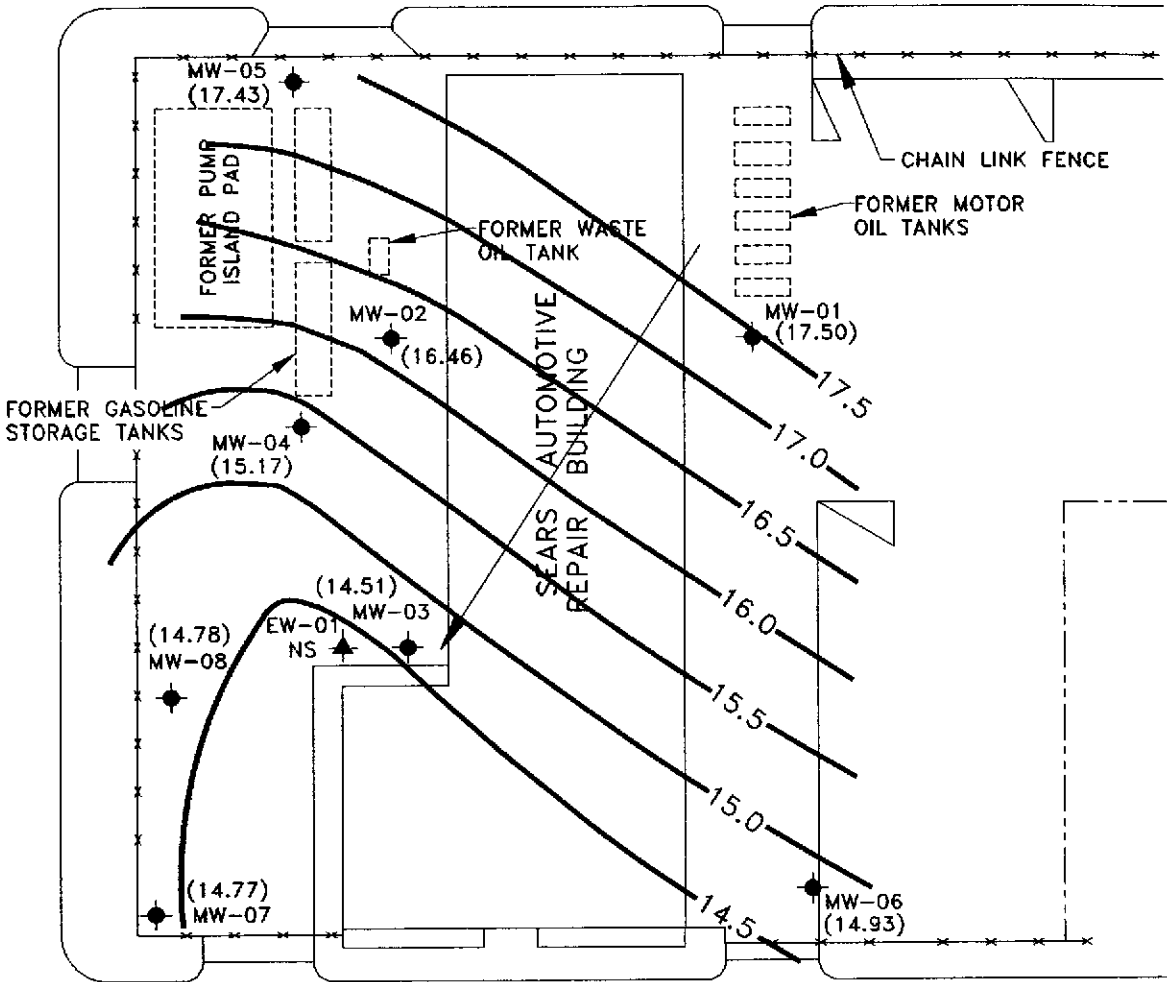
Figures

1. Potentiometric Surface Map (2/12/98)
2. Concentrations of Benzene, TPH-as-Gasoline and TPH-as-Motor Oil in Groundwater (2/12/98)



27th STREET

TELEGRAPH AVENUE



26th STREET

LEGEND

- MONITORING WELL
- EXTRACTION WELL
- POTENTIOMETRIC SURFACE ELEVATION (FT)
- NOT SURVEYED
- SEPARATE-PHASE HYDROCARBONS
- POTENTIOMETRIC SURFACE CONTOUR
- GROUNDWATER FLOW DIRECTION



NOTE:
1. CONTOURS REPRESENT APPROXIMATE ELEVATIONS ABOVE MEAN SEA LEVEL.

FLUOR DANIEL GTI

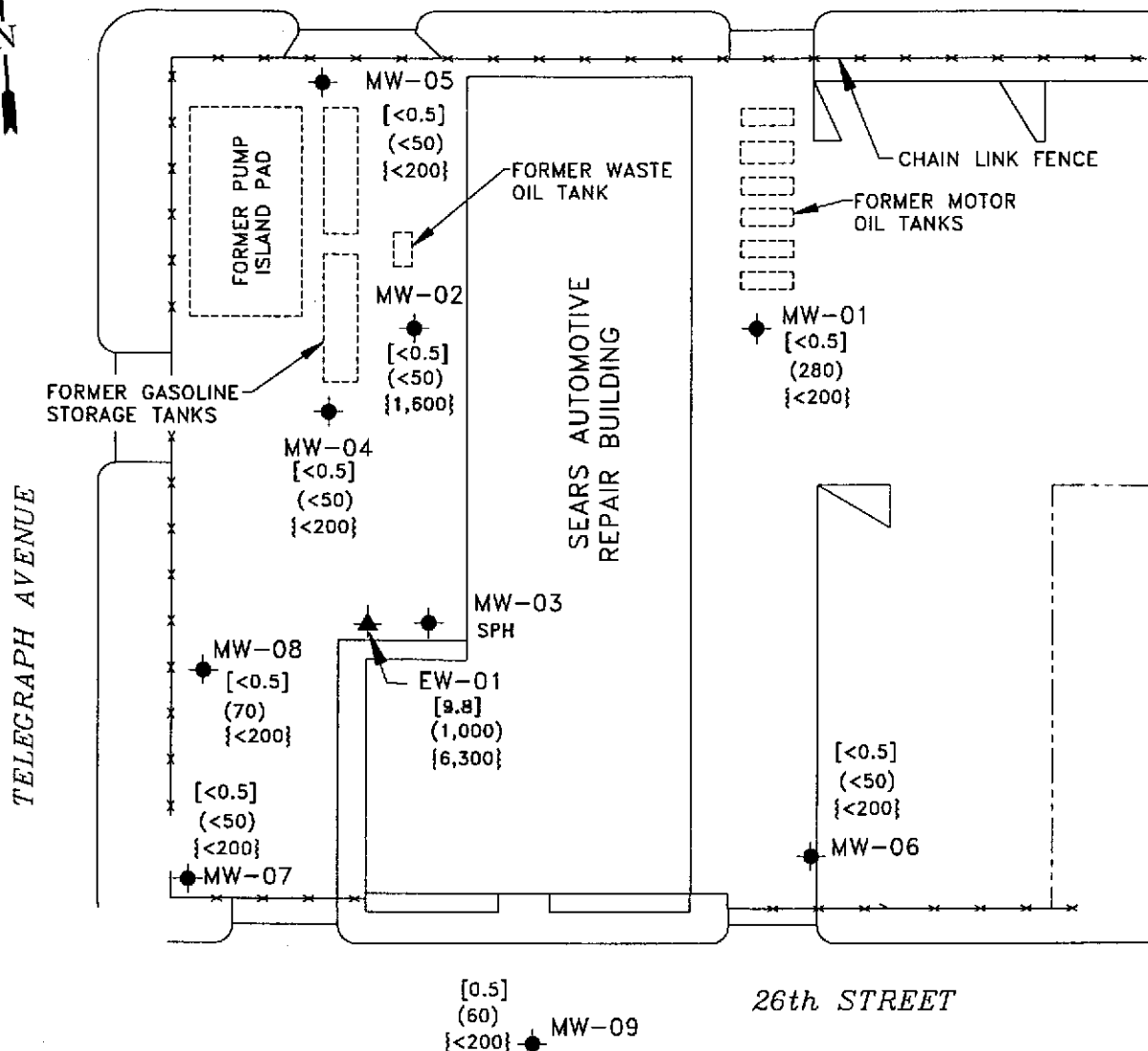
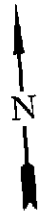


POTENTIOMETRIC SURFACE MAP

2/12/98

CLIENT: SEARS, ROEBUCK AND CO. SITE NO. 1058	FILE: PSM21298 (1:40)	PROJECT NO.: 103232	PM	PE/RG <i>Eis</i>
	REV.		FIGURE: 1	
LOCATION: 2633 TELEGRAPH AVENUE OAKLAND, CALIFORNIA	DES. BP	DET. VR	DATE: 3/4/98	

27th STREET



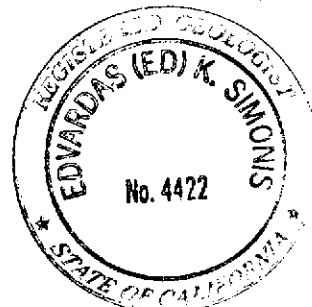
TELEGRAPH AVENUE

[0.5]
(60)
{<200} MW-09

26th STREET

LEGEND

- ◆ MONITORING WELL
- ▲ EXTRACTION WELL
- [] BENZENE CONCENTRATIONS [ug/l]
- () TPH-AS-GASOLINE (ug/l)
- { } TPH-AS-MOTOR OIL {ug/l}
- SPH SEPARATE-PHASE HYDROCARBONS



FLUOR DANIEL GTI



CONCENTRATIONS OF BENZENE, TPH-AS GASOLINE & TPH-AS-MOTOR OIL IN GROUNDWATER (2/12/98)

CLIENT: SEARS, ROEBUCK AND CO. SITE NO. 1058	FILE: BEN21298	PROJECT NO.: 103232	PM	PE/RG <i>ES</i>
	REV.	FIGURE: 2		
LOCATION: 2633 TELEGRAPH AVENUE OAKLAND, CALIFORNIA	DES. BP	DET. ML	DATE: 3/26/98	

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		

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		

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		

* 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		

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	--	--	14.98
		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
		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

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	--	--	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
		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		

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		

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		
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		
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		

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	0.3	10	--	--	1	--	--
	06/21/93	<0.3	1	2	6	--	**<100	--	--	--
	09/16/93	<0.3	0.7	<0.3	7	--	**<100	--	--	--
	12/01/93	0.4	1	2	7	--	--	--	--	--
	12/30/93	--	--	--	--	--	<100	--	--	--
	03/09/94	<0.3	<0.3	1	4.2	--	<100	--	--	--
	06/30/94	0.6	0.7	2.4	15	--	<100	--	--	--
	09/27/94	0.9	0.5	1.4	10	--	^o <250	--	--	--
	12/01/94	0.4	0.4	<0.3	6.6	--	^o <250	--	--	--
	03/08/95	<0.3	0.6	<0.3	2.7	--	^o <250	--	--	--
	06/09/95	<0.3	1.4	4.7	5.6	--	^o <250	--	--	--
	08/29/95	0.3	0.9	3.9	2.8	--	^o <250	--	--	--
	11/15/95	<0.5	<0.5	<0.5	27	--	^o <200	--	--	--
	03/05/96	<0.5	<1.0	<1.0	<2.0	--	^o <200	--	--	--
	06/03/96	<0.5	<1.0	<1.0	3.4	340	^o <200	--	--	--
	09/04/96	<0.5	<1.0	3.7	<2.0	390	310	--	--	--
	12/02/96	<0.5	<1.0	<1.0	2.7	400	^o <200	--	--	--
	02/26/97	<0.5	<1.0	<1.0	4.5	390	^o <200	--	--	--
	06/09/97	<0.5	<1.0	<1.0	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	
MW-2	12/30/92	0.7	<0.3	<0.3	3	190	--	1	^o ND	--
	03/24/93	0.6	<0.3	<0.3	2	120	--	<1	^o ND	--
	06/21/93	0.3	<0.3	<0.3	0.7	82	**<100	--	^o ND	--
	09/16/93	<0.3	<0.3	<0.3	<0.5	28	**<100	--	^o ND	--
	12/01/93	<0.3	<0.3	<0.3	1	68	--	--	^o 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	^o <250	--	^o 15	--
	12/01/94	<0.3	<0.3	<0.3	<0.5	54	^o 1,300	--	^o 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	--	^o 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	

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	*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	
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	1.0	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	--
	06/03/96	<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	

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	^a 341	--
	06/21/93	<0.3	<0.3	<0.3	<0.5	<10	<100	--	^c ND	--
	09/16/93	0.3	<0.3	<0.3	1	<10	<100	--	^c ND	--
	12/01/93	<0.3	<0.3	<0.3	1	17	--	--	^c ND	--
	12/30/93	--	--	--	--	--	<100	--	--	--
	03/09/94	<0.3	<0.3	<0.3	<0.5	22	<100	--	^c ND	--
	06/30/94	<0.3	<0.3	<0.3	<0.5	<10	<100	--	ND	--
	09/27/94	0.5	0.4	<0.3	<0.5	<10	560	--	ND	--
	12/01/94	<0.3	<0.3	<0.3	<0.5	<10	<250	--	ND	--
	03/08/95	<0.3	<0.3	<0.3	<0.5	<10	<250	--	ND	--
	06/09/95	<0.3	<0.3	<0.3	<0.5	<50	<250	--	^d 7	--
	08/29/95	<0.3	<0.3	<0.3	<0.5	<50	<250	--	^b 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	--	--	<5	
MW-6	12/27/93	<0.3	<0.3	<0.3	<0.5	<10	<100	<1	^a 70	--
	03/08/94	<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	--	ND	--
	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	--	^a 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	--	^b 24	--
	11/15/95	<0.5	<0.5	<0.5	<0.5	<50	<200	--	^a 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	

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	*40	--
	03/09/94	<0.3	<1.0	1.5	4.1<	620	<100	--	*ND	--
	06/30/94	<0.3	<0.3	<0.3	0.5	33	<100	--	ND	--
	09/27/94	<0.3	<0.3	0.4	0.7	52	*<250	--	ND	--
	12/01/94	<0.3	<0.3	<0.3	1.1	<10	*<250	--	*28	--
	03/08/95	<0.3	<0.3	<0.3	<0.5	<10	*<250	--	ND	--
	06/09/95	<0.3	<0.3	<0.3	<0.5	<50	<250	--	ND	--
	08/29/95	<0.3	<0.3	<0.3	<0.5	<50	<250	--	*13	--
	11/15/95	<0.5	<0.5	<0.5	<0.5	<50	<200	--	ND	--
	03/05/96	<0.5	<1.0	<1.0	<2.0	<100	270	--	ND	--
	06/03/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/04/96	<0.5	<1.0	<1.0	<2.0	<100	<200	--	--	--
	12/02/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/26/97	<0.5	<1.0	<1.0	<2.0	<100	<200	NS	NS	NS
	06/09/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	08/25/97	<0.5	<0.5	<0.5	<2.0	<50	<200	--	--	<5
11/28/97	NS	NS	NS	NS	NS	NS	NS	NS	NS	
02/12/98	<0.5	<0.5	<0.5	<2.0	<50	<200	--	--	<5	
MW-8	12/27/93	0.4	4	0.4	1	390	<100	<1	*18	--
	03/09/94	0.6	0.8	0.5	1.5	420	<100	--	*ND	--
	06/30/94	0.9	<0.3	<0.3	1.1	250	<100	--	ND	--
	09/27/94	<0.3	<0.3	<0.3	<0.5	210	*<250	--	*9	--
	12/01/94	5.4	<0.3	0.7	1.3	230	*<250	--	*ND	--
	03/08/95	<0.3	<0.3	<0.3	<0.5	230	*<250	--	ND	--
	06/09/95	<0.3	<0.3	<0.3	<0.5	<50	*<250	--	ND	--
	08/29/95	0.9	0.4	<0.3	0.8	200	*<250	--	*15	--
	11/15/95	0.58	<0.5	<0.5	0.54	120	--	--	*21	--
	12/11/95	--	--	--	--	--	*<200	--	--	--
	03/05/96	0.6	<1.0	<1.0	<2.0	<100	*<200	--	ND	--
	06/03/96	<0.5	<1.0	<1.0	<2.0	100	--	--	--	--
	09/04/96	<0.5	<1.0	<1.0	<2.0	110	<200	--	--	--
	12/02/96	<0.5	<1.0	<1.0	<2.0	110	<200	--	--	--
	02/26/97	<0.5	<1.0	<1.0	<2.0	<100	<200	--	--	--
	06/09/97	<0.5	<1.0	<1.0	<2.0	110	<200	--	--	<10
08/25/97	<0.5	<0.5	<0.5	<2.0	70	<200	--	--	<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	
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	

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	14,00	--	--	--
	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	2.0	1,400	15,000	--	--	12
	11/28/97	4.5	1.1	1.1	4.0	560	5,700	--	--	5
	02/12/98	9.8	0.6	1.2	2.0	1,000	6,300	--	--	30

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 is 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:

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

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 triple 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.

2/12

SITE VISIT FORM
Fluor Daniel GTI - Martinez, California

Project: 103232.00
Site: SEARS/#1058/Oakland, CA
Project Mgr: Eileen Brennan

Technician: *[Signature]*
Scheduled: 2/09/98
Site Mgr:

PREPARATORY COMMENTS

Visit Date: 2/12/98 Arrival Time: 10:00 Departure Time: 15:00

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

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

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

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

Job # and task #

GROUNDWATER SAMPLING - Task Nr: 030543 [Quarterly]

Notify Tom Peacock 72 hrs in advance (510) 567-6782

DONE: 2/9/98 @ 1:20
left message with Eric
567-6771

SITE ADDRESS: 2633 Telegraph Avenue, Oakland, CA

cc: Eileen Brennan, 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)/SEPT(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-2, MW-4, MW-3, MW-9 and the new 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
Site: SEARS/#1058/Oakland, CA
Project Mgr: Eileen Brennan

Technician: J. Moreno
Scheduled: 2/09/98
Site Mgr:

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 AEN Lab. in Pleasant Hill, CA ph# (510) 930-9090. To be analyzed for BTEX/MTBE/TPH-G (EPA 8020/8015), and TPH-Motor Oil (EPA 8015).

Note: Add TPH-MO to concentration map

6. COMPLETED ALL THREE PAGES OF WASTE INVENTORY FORM? Yes. IF NO, EXPLAIN _____.

HOURS ESTIMATED FOR MARCH/SEPT 6.0

JUNE/DEC 5.0

Hours Estimated	5.00	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

SITE VISIT FORM
Fluor Daniel GTI - Martinez, California

Project: 103232.00
Site: SEARS/#1058/Oakland, CA
Project Mgr: Eileen Brennan

Technician: *J. M. [Signature]*
Scheduled: 2/09/98
Site Mgr:

TECHNICIAN'S COMMENTS

Total Hours Estimated	5.00	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: Eileen Brennan

Technician: J. Meeno
Schedule:
Job No. 103232.030543

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

Visit Date: 2/12/98 Arrival Time: 10:00 Departure Time: 15:00

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 <u>8.70</u>	SAT. THICK _____	#GAL. BAILED _____
MW-2:	DTB_21.79	DTW <u>10.04</u>	SAT. THICK _____	#GAL. BAILED _____
MW-3:	DTB_24.67	DTW <u>11.85</u>	SAT. THICK ^{DTW} <u>11.82</u>	#GAL. BAILED _____
MW-4:	DTB_22.97	DTW <u>11.00</u>	SAT. THICK _____	#GAL. BAILED _____
MW-5:	DTB_25.27	DTW <u>9.55</u>	SAT. THICK _____	#GAL. BAILED _____
MW-6:	DTB_22.05	DTW <u>9.39</u>	SAT. THICK _____	#GAL. BAILED _____
MW-7:	DTB_21.70	DTW <u>10.11</u>	SAT. THICK _____	#GAL. BAILED _____
MW-8:	DTB_22.14	DTW <u>11.34</u>	SAT. THICK _____	#GAL. BAILED _____
MW-9:	DTB_20.30	DTW <u>10.63</u>	SAT. THICK _____	#GAL. BAILED _____
EW-1:	DTB_22.30	DTW <u>11.83</u>	SAT. THICK _____	#GAL. BAILED _____

NOTES: Monitored All wells except MW3.
Product in well.

HOURS ESTIMATED:

HOURS USED:

FINAL CHECKS

Are Wells Locked? YES NO Why Not?

Are Manholes Bolted Down? YES NO Why Not?

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

Date: 2/12/98
 Page of
 Project Manager: Eileen Brennan

Well ID: MW-1
2
 Well Diameter:

DTW Measurements:
 Initial: 8.70 Calc Well Volume: 2.21 gal
 Recharge: Well Volume: X3 6.64 gal
 DTB: 2.72

Purge Method _____ Pump Depth _____ ft.
 Peristaltic _____ Hand Bailed _____
 Gear Drive _____ Air Lift _____
 Submersible X Other _____

Instruments Used
 YSI: X (3500) Other: _____
 Hydac: _____
 Omega: _____

Time	Temp <u>X</u> C <u> </u> F	Conductivity (mmhos/cm)	pH	Purge Volume Gallons	Turbidity	Comments
1117	20.5	0.34	6.38	2	CLdy	
1118	20.7	0.35	6.46	4	"	
1119	21.0	0.37	6.54	6	"	
1120	21.2	0.37	6.61	7.5	"	
						SAMPLE COLLECTED @ 1300W/DISP. BAILER
						DTW AFTER SAMPLING 8.85

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

Date: 2/12/98
 Page _____ of _____
 Project Manager: Eileen Brennan

Well ID: MW-2
 Well Diameter: 2

DTW Measurements:
 Initial: 10.04 Calc Well Volume: 1.99 gal
 Recharge: _____ Well Volume: 0 gal
 DTB: 21.75

Purge Method _____ Pump Depth _____ ft.
 Peristaltic _____ Hand Bailed _____
 Gear Drive _____ Air Lift _____
 Submersible X Other _____

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

Time	Temp <u>X</u> C <u>F</u>	Conductivity (mmhos/cm)	pH	Purge Volume Gallons	Turbidity	Comments
1152	19.9	0.32	6.47	2	cldy	
1153	21.1	0.35	6.47	4	"	
1154	21.6	0.35	6.47	6	"	
						SAMPLE COLLECTED @1418 w/DISP. BAUER
						10.89

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

Date: 21/12/98
 Page _____ of _____
 Project Manager: Eileen Brennan

Well ID: MW-4
 Well Diameter: 2

DTW Measurements:
 Initial: 11.00 Calc Well Volume: 2.03 gal
 Recharge: _____ Well Volume: 6.10 gal
 DTB: 22.97

Purge Method _____ Pump Depth _____ ft.
 Peristaltic _____ Hand Bailed _____
 Gear Drive _____ Air Lift _____
 Submersible X Other _____

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

Time	Temp C F	Conductivity (mmhos/cm)	pH	Purge Volume Gallons	Turbidity	Comments
1203	21.4	0.37	6.49	2	cldy	
1204	22.3	0.38	6.48	4	"	
1205	22.4	0.39	6.49	6.5	"	
						SAMPLE COLLECTED @ 1405 W/DISP. BAILER
						SUP. COLLECTED
						DTW AFTER SAM: 11.58

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

Date: 2/12/98
 Page _____ of _____
 Project Manager: Eileen Brennan

Well ID: MW-5
 Well Diameter: 2

DTW Measurements:
 Initial: 9.55 Calc Well Volume: 2.67 gal
 Recharge: _____ Well Volume: X3 8 gal
 DTB: 25.27

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

Time	Temp	Conductivity (mmhos/cm)	pH	Purge Volume Gallons	Turbidity	Comments
	<u>X</u> C F					
1107	19.6	0.46	6.57	2	lt. brn	
1108	21.0	0.49	6.65	4	"	
1109	21.5	0.50	6.64	6	"	
1110	21.8	0.50	6.64	8	cloudy	
						SAMPLE COLLECTED @ 9.55 DIS. BAILER
						DTW AFTER SAMPLING 9.60

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

Date: 2/12/98
 Page of
 Project Manager: Eileen Brennan

Well ID: MW-6
 Well Diameter: 2

DTW Measurements:
 Initial: 22.05 Calc Well Volume: 21.5 gal
 Recharge: Well Volume: 6.5 gal
 DTB: 9.39

Purge Method Pump Depth ft.
 Peristaltic Hand Bailed
 Gear Drive Air Lift
 Submersible X Other

Instruments Used
 YSI: Other:
 Hydac: X
 Omega:

Time	Temp <u>X</u> C F	Conductivity (mmhos/cm)	pH	Purge Volume Gallons	Turbidity	Comments
1131	19.8	0.31	6.44	2	clear	
1132	20.1	0.31	6.44	4	"	
1133	20.4	0.31	6.42	6.5	"	
						SAMPLE COLLECTED @ 1312 W/DISP. BAILED
						DTW AFTER SAMPLING: 9.41

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

Date: 2/12/98
 Page _____ of _____
 Project Manager: Eileen Brennan

Well ID: MW-7
 Well Diameter: 2

DTW Measurements:
 Initial: 21.0 Calc Well Volume: 1.97 gal
 Recharge: _____ Well Volume: 6 gal
 DTB: 10.11

Purge Method _____ Pump Depth _____ ft.
 Peristaltic _____ Hand Bailed _____
 Gear Drive _____ Air Lift _____
 Submersible X Other _____

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

Time	Temp	Conductivity (mmhos/cm)	pH	Purge Volume Gallons	Turbidity	Comments
	<u>X</u> C E					
1139	19.2	0.24	6.44	2	old	
1140	18.6	0.21	6.41	4	"	
1141	18.9	0.23	6.46	6	"	
						SAMPLE COLLECTED @1340W/DISP. BAILED
						DTW AFTER SAMPLING: 10.32

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

Date: 2/12/98
 Page _____ of _____
 Project Manager: Eileen Brennan

Well ID: MW-8
 Well Diameter: 2

DTW Measurements:
 Initial: 11.34 Calc Well Volume: 1.83 gal
 Recharge: _____ Well Volume: 5.5 gal
 DTB: 22.14

Purge Method _____ **Pump Depth** _____ ft.
 Peristaltic _____ Hand Bailed _____
 Gear Drive _____ Air Lift _____
 Submersible X Other _____

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

Time	Temp <u>X</u> C ____ E	Conductivity (mmhos/cm)	pH	Purge Volume Gallons	Turbidity	Comments
1146	18.9	0.39	6.42	2	lt. brn.	
1147	21.0	0.42	6.43	4	cldy.	
1148	21.5	0.42	6.48	6	v	
						SAMPLE COLLECTED @ 1350 / DISP. BAILED
						DTW AFTER SAMP: 11.32

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

Date: 2/12/98
 Page of
 Project Manager: Eileen Brennan

Well ID: MW-9
 Well Diameter: 2

DTW Measurements:
 Initial: 10.63 Calc Well Volume: 1.64 gal
 Recharge: Well Volume: 5 gal
 DTB: 20.30

Purge Method **Pump Depth** ft.
 Peristaltic Hand Bailed
 Gear Drive Air Lift
 Submersible X Other

Instruments Used
 YSI: X Other:
 Hydac:
 Omega:

Time	Temp <u>X</u> C <u> </u> F	Conductivity (mmhos/cm)	pH	Purge Volume Gallons	Turbidity	Comments
1214	19.2	0.34	6.52	2	cloudy	
1215	20.2	0.39	6.60	3.5	"	
1216	20.3	0.39	6.61	5	clear	
						SAMPLE COLLECTED
						@ 1330W/DISP. BAILER
						DTW AFTER SAMPLING:
						10.60

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

Date: 2/12/98
 Page of
 Project Manager: Eileen Brennan

Well ID: EW-1
4
 Well Diameter:

DTW Measurements:
 Initial: 11.83 Calc Well Volume: 6.80 gal
 Recharge: Well Volume: 20.5 gal
 DTB: 22.30

Purge Method **Pump Depth** ft.
 Peristaltic Hand Bailed
 Gear Drive Air Lift
 Submersible X Other

Instruments Used
 YSI: X Other:
 Hydac:
 Omega:

Time	Temp <u>X</u> C F	Conductivity (mmhos/cm)	pH	Purge Volume Gallons	Turbidity	Comments
1225	21.2	0.39	6.66	7	clear	
1227	21.6	0.40	6.69	14	"	
1229	21.6	0.41	6.68	21	"	
						SAMPLE COLLECTED @1440W/DIS. BAILED
						DTW AFTER SAMP: 11.90

SEARS DRUM INVENTORY FORM

Page 1 of 3

Completion Date: 2/12/98Sears Store Number #1058City/State OAKLAND CAAccumulation Start Date 2/12/98FDGTI Representative MERINODrum Storage Location WEST SIDE OF PROPERTY NEXT TO FENCE

CONTENTS	# OF DRUMS	*DRUM ID (A,B,C...)	LID TYPE: (OPEN OR BUNG)	**LABEL TYPE: HAZARD NON-HAZ UNCLASS	DRUM DESCRIPTION: COLOR CONDITION MARKINGS
FLUIDS					
WASHWATER RINSATE (GAS)	4	A,B,C,D	BOTH	NONclass	WHITE TOP BLACK BOTTOM
WASHWATER RINSATE (OIL)					
MOTOR OIL/WATER MIXTURES					
MOTOR OIL					
USED OIL/WATER MIXTURES					
USED OIL					
HEATING OIL/DIESEL FUEL AND WATER MIXTURES					
HEATING OIL/DIESEL FUEL					
GASOLINE/WATER MIXTURES					
GASOLINE					
HYDRAULIC OIL/WATER MIXTURES					
HYDRAULIC OIL					
SLUDGES					
MOTOR OIL SLUDGE/TANK BOTTOMS					
USED OIL SLUDGE/TANK BOTTOMS					
HEATING OIL/DIESEL FUEL SLUDGE/TANK BOTTOMS					
GASOLINE SLUDGE/TANK BOTTOMS					
HYDRAULIC OIL SLUDGE/TANK BOTTOMS					
OTHER--if soil, complete Page 2 of 3					
DESCRIPTION (NO SORBENT PADS or PPE IN DRUMS):					

*EACH DRUM MUST HAVE A UNIQUE LETTER SPRAY-PAINTED ON THE BODY OF THE DRUM.

Letter must be at least 10 inches tall. No two drums can have same letter at the same time.

**All labels should be "Unclassified" unless specifically directed otherwise by Project Manager.

COMPLETE PAGE 3 OF 3 WHEN EVER DRUMS ARE PRESENT OR GENERATED.

SEARS SOIL INVENTORY FORM

Page 2 of 3

Completion Date: 2/12/98Store Number 1058 City/State OAKLAND CAAccumulation Start Date 2/12/98FDGTI Representative A. MerinSoil Storage Location Ø

SOIL CONTAMINANTS	# OF DRUMS*	CUBIC YARDS	DIMENSIONS OF PILE
VIRGIN PETROLEUM OIL (motor, heating, diesel)			
HYDRAULIC OIL			
USED OIL			
GASOLINE			

* IF DRUMS ARE GENERATED, COMPLETE PAGE 3 OF 3

SEARS DRUM INVENTORY FORM

Completion Date: _____

Store Number 1058City/State OAKLAND CA.FDGTI Representative AMERIND

THERE SHOULD NEVER BE 2 DRUMS WITH THE SAME DRUM ID PRESENT AT A SEARS STORE 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)
A	11/28/98	PURGE WATER	GW WELLS	NO	50
B	11/28/98	PURGE WATER	GW WELLS	NO	20
C	12/12/98	PURGE WATER	GW WELLS	NO	50
D	2/12/98	PURGE WATER	GW WELLS	NO	50
E					
F					
G					
H					
I					
J					
K					
L					
M					
N					
O					
P					
Q					
R					
S					
T					
U					
V					
W					
X					
Y					
Z					

EXAMPLE

A	5/19/97	well purge water	MW-1 thru MW-5	no	50
---	---------	------------------	----------------	----	----

Reporting Information:

1. Client: FLUOR DANIEL GTI
 Address: 257 ARNOLD DR. SUITE D
MORRIS CA - 94533
 Contact: ELSON BLENEN
 Alt. Contact: _____

American Environmental Network

3440 Vincent Road, Pleasant Hill, CA 94523
 Phone (510) 930-9090
 FAX (510) 930-0256

AEN

REQUEST FOR ANALYSIS / CHAIN OF CUSTODY

Lab Job Number: _____
 Lab Destination: _____
 Date Samples Shipped: _____
 Lab Contact: _____
 Date Results Required: _____
 Date Report Required: _____
 Client Phone No.: (510) 370-3990
 Client FAX No.: (510) 370-3991

Address Report To:
 2. SAME AS #1

Send Invoice To:
 3. 112

Send Report To: 1 or 2 (Circle one)

Client P.O. No.: _____ Client Project I.D. No.: 103232, 030543

Sample Team Member (s) HECTOR MERINO

#1058

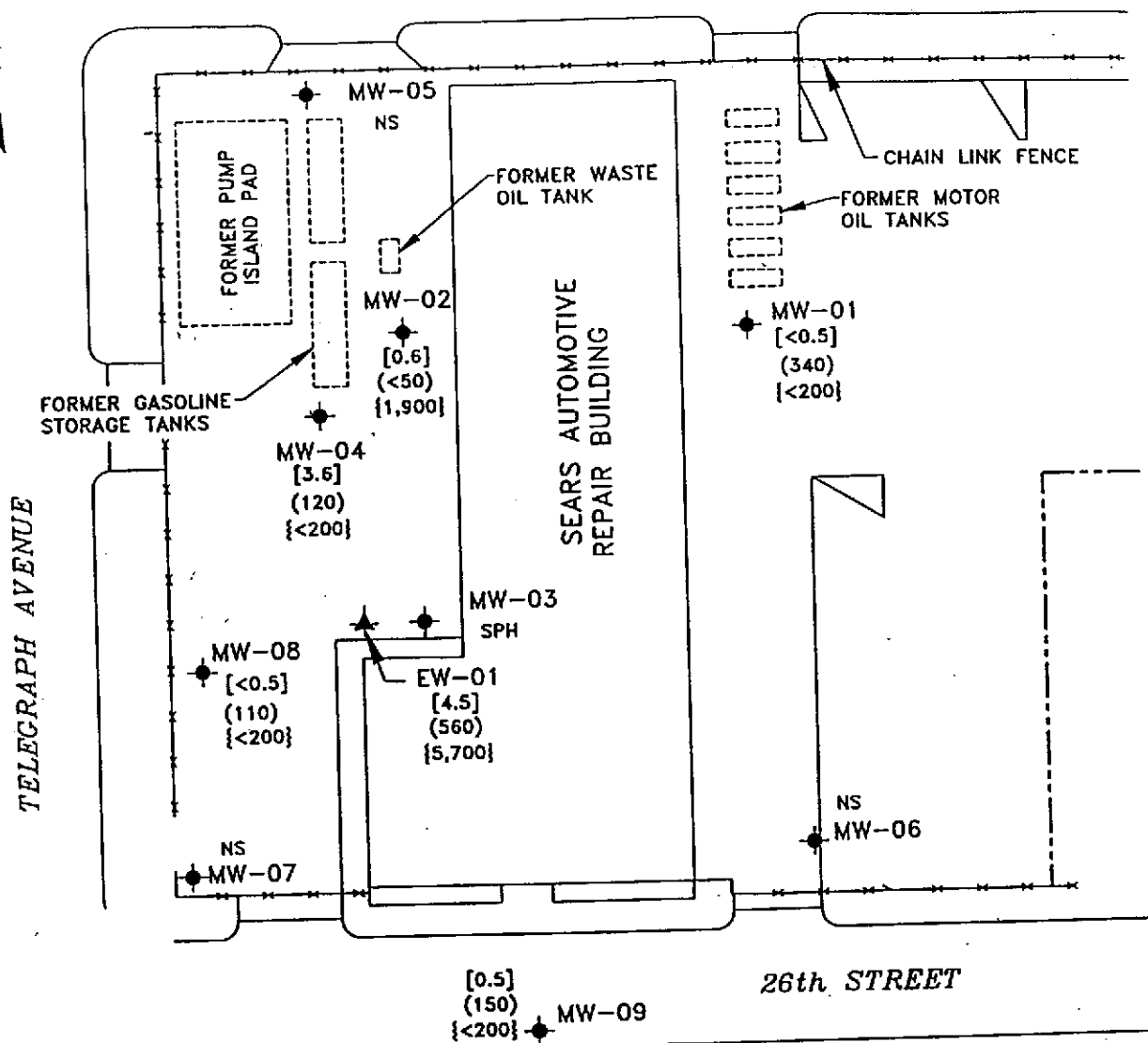
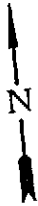
ANALYSIS
 BTEX, MIBK, TPAH, TPH, MIBK, TPAH, BTEX, SO2

Lab. Number	Client Sample Identification	Air Volume	Date/Time Collected	Sample Type*	Pres.	No. of Cont.	Type of Cont.	Comments / Hazards
MW-1			2/13/98 13:00	GW	HCLINOM	6	40mL filter	X X
MW-6			2/13/98 13:10	GW		6		X X
MW-9			2/13/98 13:30	GW		6		X X
MW-7			2/13/98 13:40	GW		6		X X
MW-8			2/13/98 13:50	GW		6		X X
MW-4			2/13/98 14:05	GW		6		X X
MW-2			2/13/98 14:15	GW		6		X X
MW-5			2/13/98 14:28	GW		6		X X
DUP. MW 4, 5			2/13/98 14:38	GW		3		X
TRB			2/13/98 14:48	GW		1		X
EW-31			2/13/98 18:00	GW		6		X X

Relinquished by: (Signature) <u>[Signature]</u>	DATE <u>2/13/98</u> TIME <u>10:15</u>	Received by: (Signature) <u>[Signature]</u>	DATE <u>2/13/98</u> TIME <u>10:15</u>
Relinquished by: (Signature) _____	DATE _____ TIME _____	Received by: (Signature) _____	DATE _____ TIME _____
Relinquished by: (Signature) _____	DATE _____ TIME _____	Received by: (Signature) _____	DATE _____ TIME _____
Method of Shipment _____		Lab Comments _____	

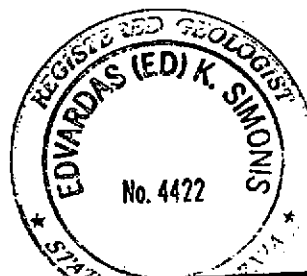
*Sample type (Specify): 1) 37mm 0.8 µm MCEF 2) 25mm 0.8 µm MCEF 3) 25mm 0.4 µm polycarb. filter
 4) PVC filter, diam. _____ pore size _____ 5) Charcoal tube 6) Silica gel tube 7) Water 8) Soil 9) Bulk Sample
 10) Other _____ 11) Other _____

27th STREET



LEGEND

- ◆ MONITORING WELL
- ▲ EXTRACTION WELL
- [] BENZENE CONCENTRATIONS [ug/l]
- () TPH-AS-GASOLINE (ug/l)
- { } TPH-AS-MOTOR OIL {ug/l}
- NS NOT SAMPLED
- SPH SEPARATE-PHASE HYDROCARBONS



FLUOR DANIEL GTI



CONCENTRATIONS OF BENZENE, TPH-AS GASOLINE & TPH-AS-MOTOR OIL IN GROUNDWATER (11/28/97)

CLIENT: SEARS, ROEBUCK AND CO. SITE NO. 1058	FILE: BENN2897	PROJECT NO.: 020200281	PM EKS/1/9/98	PE/RG
LOCATION: 2633 TELEGRAPH AVENUE OAKLAND, CALIFORNIA	REV.	DES. ES	DET. ML	DATE: 1/6/98
			FIGURE: 2	

ATTACHMENT 4

Laboratory Reports and Chain-of-Custody Record

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172

AIHA Accreditation: 11134

PAGE 1

FLUOR DANIEL GTI
757 ARNOLD DRIVE, STE. D
MARTINEZ, CA 94553

REPORT DATE: 03/01/98

DATE(S) SAMPLED: 02/12/98

DATE RECEIVED: 02/13/98

ATTN: EILEEN BRENNEN
CLIENT PROJ. ID: 103232_030543

AEN WORK ORDER: 9802187

C.O.C. NUMBER: 0875

PROJECT SUMMARY:

On February 13, 1998, this laboratory received 5 water sample(s).

Client requested sample(s) be analyzed for chemical parameters. Results of analysis are summarized on the following page(s). Please see quality control report for a summary of QC data pertaining to this project.

Samples will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Samples may be archived by prior arrangement.

If you have any questions, please contact Client Services at (510) 930-9090.


Larry Klein
Laboratory Director

FLUOR DANIEL GTI

SAMPLE ID: MW-1
 AEN LAB NO: 9802187-01
 AEN WORK ORDER: 9802187
 CLIENT PROJ. ID: 103232_030543

DATE SAMPLED: 02/12/98
 DATE RECEIVED: 02/13/98
 REPORT DATE: 03/01/98

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	0.5	ug/L	02/23/98
Toluene	108-88-3	ND	0.5	ug/L	02/23/98
Ethylbenzene	100-41-4	ND	0.5	ug/L	02/23/98
Xylenes, Total	1330-20-7	ND	2	ug/L	02/23/98
Purgeable HCs as Gasoline	5030/GCFID	0.28 *	0.05	mg/L	02/23/98
Methyl t-Butyl Ether	1634-04-4	ND	5	ug/L	02/23/98
#Extraction for TPH	EPA 3510	-		Extrn Date	02/18/98
TPH as Oil	GC-FID	ND	0.2	mg/L	02/20/98

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

FLUOR DANIEL GTI

SAMPLE ID: MW-6
 AEN LAB NO: 9802187-02
 AEN WORK ORDER: 9802187
 CLIENT PROJ. ID: 103232_030543

DATE SAMPLED: 02/12/98
 DATE RECEIVED: 02/13/98
 REPORT DATE: 03/01/98

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	0.5	ug/L	02/24/98
Toluene	108-88-3	ND	0.5	ug/L	02/24/98
Ethylbenzene	100-41-4	ND	0.5	ug/L	02/24/98
Xylenes, Total	1330-20-7	ND	2	ug/L	02/24/98
Purgeable HCs as Gasoline	5030/GCFID	ND	0.05	mg/L	02/24/98
Methyl t-Butyl Ether	1634-04-4	ND	5	ug/L	02/24/98
#Extraction for TPH	EPA 3510	-		Extrn Date	02/18/98
TPH as Oil	GC-FID	ND	0.2	mg/L	02/20/98

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

FLUOR DANIEL GTI

SAMPLE ID: MW-9
 AEN LAB NO: 9802187-03
 AEN WORK ORDER: 9802187
 CLIENT PROJ. ID: 103232_030543

DATE SAMPLED: 02/12/98
 DATE RECEIVED: 02/13/98
 REPORT DATE: 03/01/98

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	0.5 ug/L		02/23/98
Toluene	108-88-3	ND	0.5 ug/L		02/23/98
Ethylbenzene	100-41-4	ND	0.5 ug/L		02/23/98
Xylenes, Total	1330-20-7	ND	2 ug/L		02/23/98
Purgeable HCs as Gasoline	5030/GCFID	0.06 *	0.05 mg/L		02/23/98
Methyl t-Butyl Ether	1634-04-4	ND	5 ug/L		02/23/98
#Extraction for TPH	EPA 3510	-		Extrn Date	02/18/98
TPH as Oil	GC-FID	ND	0.2 mg/L		02/20/98

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

FLUOR DANIEL GTI

SAMPLE ID: MW-7
 AEN LAB NO: 9802187-04
 AEN WORK ORDER: 9802187
 CLIENT PROJ. ID: 103232_030543

DATE SAMPLED: 02/12/98
 DATE RECEIVED: 02/13/98
 REPORT DATE: 03/01/98

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	0.5 ug/L		02/23/98
Toluene	108-88-3	ND	0.5 ug/L		02/23/98
Ethylbenzene	100-41-4	ND	0.5 ug/L		02/23/98
Xylenes, Total	1330-20-7	ND	2 ug/L		02/23/98
Purgeable HCs as Gasoline	5030/GCFID	ND	0.05 mg/L		02/23/98
Methyl t-Butyl Ether	1634-04-4	ND	5 ug/L		02/23/98
#Extraction for TPH	EPA 3510	-		Extrn Date	02/18/98
TPH as Oil	GC-FID	ND	0.2 mg/L		02/20/98

ND = Not detected at or above the reporting limit
 * = Value at or above reporting limit

FLUOR DANIEL GTI

SAMPLE ID: MW-8
 AEN LAB NO: 9802187-05
 AEN WORK ORDER: 9802187
 CLIENT PROJ. ID: 103232_030543

DATE SAMPLED: 02/12/98
 DATE RECEIVED: 02/13/98
 REPORT DATE: 03/01/98

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	0.5	ug/L	02/23/98
Toluene	108-88-3	ND	0.5	ug/L	02/23/98
Ethylbenzene	100-41-4	0.6 *	0.5	ug/L	02/23/98
Xylenes, Total	1330-20-7	ND	2	ug/L	02/23/98
Purgeable HCs as Gasoline	5030/GCFID	0.07 *	0.05	mg/L	02/23/98
Methyl t-Butyl Ether	1634-04-4	ND	5	ug/L	02/23/98
#Extraction for TPH	EPA 3510	-		Extrn Date	02/19/98
TPH as Oil	GC-FID	ND	0.2	mg/L	02/21/98

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9802187
CLIENT PROJECT ID: 103232_030543

Quality Control and Project Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spikes(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analyses.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behaviour, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrument performance.

D: Surrogates diluted out.

I: Interference.

!: Indicates result outside of established laboratory QC limits.

ANALYSIS: Extractable TPH

MATRIX: Water

METHOD BLANK SAMPLES

SAMPLE TYPE: Blank-Method/Media blank			LAB ID: BLNK-0218-1			INSTR RUN: GC \980218000000/1/				
INSTRUMENT: HP 5890			PREPARED: 02/18/98			BATCH ID: DSW021898-1				
UNITS: mg/L			ANALYZED: 02/19/98			DILUTION: 1.000000				
METHOD:			REF	REPORTING	SPIKE	RECOVERY	REC LIMITS (%)		RPD	
ANALYTE	RESULT	RESULT	RESULT	LIMIT	VALUE	(%)	LOW	HIGH	RPD (%)	LIMIT (%)
Diesel	ND	ND	ND	0.05						
Motor Oil	ND	ND	ND	0.2						
n-Pentacosane (surr)	93.7				100	93.7	60	130		

SAMPLE TYPE: Blank-Method/Media blank			LAB ID: BLNK-0219-1			INSTR RUN: GC \980219000000/1/				
INSTRUMENT: HP 5890			PREPARED: 02/19/98			BATCH ID: DSW021998-1				
UNITS: mg/L			ANALYZED: 02/20/98			DILUTION: 1.000000				
METHOD:			REF	REPORTING	SPIKE	RECOVERY	REC LIMITS (%)		RPD	
ANALYTE	RESULT	RESULT	RESULT	LIMIT	VALUE	(%)	LOW	HIGH	RPD (%)	LIMIT (%)
Diesel	ND	ND	ND	0.05						
Motor Oil	ND	ND	ND	0.2						
n-Pentacosane (surr)	96.3				100	96.3	60	130		

LABORATORY CONTROL SAMPLES

SAMPLE TYPE: Laboratory Control Spike			LAB ID: LCDW-0218-1			INSTR RUN: GC \980218000000/3/1				
INSTRUMENT: HP 5890			PREPARED: 02/18/98			BATCH ID: DSW021898-1				
UNITS: mg/L			ANALYZED: 02/19/98			DILUTION: 1.000000				
METHOD:			REF	REPORTING	SPIKE	RECOVERY	REC LIMITS (%)		RPD	
ANALYTE	RESULT	RESULT	RESULT	LIMIT	VALUE	(%)	LOW	HIGH	RPD (%)	LIMIT (%)
Diesel	1.90	ND	ND	0.05	2.00	95.0	60	130		
n-Pentacosane (surr)	95.5	93.7	93.7		100	95.5	60	130		

SAMPLE TYPE: Laboratory Control Spike			LAB ID: LCSW-0218-1			INSTR RUN: GC \980218000000/2/1				
INSTRUMENT: HP 5890			PREPARED: 02/18/98			BATCH ID: DSW021898-1				
UNITS: mg/L			ANALYZED: 02/19/98			DILUTION: 1.000000				
METHOD:			REF	REPORTING	SPIKE	RECOVERY	REC LIMITS (%)		RPD	
ANALYTE	RESULT	RESULT	RESULT	LIMIT	VALUE	(%)	LOW	HIGH	RPD (%)	LIMIT (%)
Diesel	1.85	ND	ND	0.05	2.00	92.5	60	130		
n-Pentacosane (surr)	91.1	93.7	93.7		100	91.1	60	130		

SAMPLE TYPE: Laboratory Control Spike			LAB ID: LCDW-0219-1			INSTR RUN: GC \980219000000/4/1				
INSTRUMENT: HP 5890			PREPARED: 02/19/98			BATCH ID: DSW021998-1				
UNITS: mg/L			ANALYZED: 02/23/98			DILUTION: 1.000000				
METHOD:			REF	REPORTING	SPIKE	RECOVERY	REC LIMITS (%)		RPD	
ANALYTE	RESULT	RESULT	RESULT	LIMIT	VALUE	(%)	LOW	HIGH	RPD (%)	LIMIT (%)
Diesel	2.30	ND	ND	0.05	2.00	115	60	130		
n-Pentacosane (surr)	117.3	96.3	96.3		100	117	60	130		

SAMPLE TYPE: Laboratory Control Spike			LAB ID: LCSW-0219-1			INSTR RUN: GC \980219000000/3/1				
INSTRUMENT: HP 5890			PREPARED: 02/19/98			BATCH ID: DSW021998-1				
UNITS: mg/L			ANALYZED: 02/23/98			DILUTION: 1.000000				
METHOD:			REF	REPORTING	SPIKE	RECOVERY	REC LIMITS (%)		RPD	
ANALYTE	RESULT	RESULT	RESULT	LIMIT	VALUE	(%)	LOW	HIGH	RPD (%)	LIMIT (%)
Diesel	2.42	ND	ND	0.05	2.00	121	60	130		
n-Pentacosane (surr)	125.8	96.3	96.3		100	126	60	130		

ANALYSIS: Extractable TPH

MATRIX: Water

LABORATORY CONTROL DUPLICATES

SAMPLE TYPE: Laboratory Control Sample Duplicate			LAB ID: LCRW-0218-1			INSTR RUN: GC C\980218000000/4/2			
INSTRUMENT: HP 5890			PREPARED: 02/18/98			BATCH ID: DSCW021898-1			
UNITS: mg/L			ANALYZED: 02/19/98			DILUTION: 1.000000			
METHOD:									
ANALYTE	RESULT	REF RESULT	REPORTING LIMIT	SPIKE VALUE	RECOVERY (%)	REC LIMITS (%)		RPD (%)	RPD LIMIT (%)
Diesel	1.90	1.85	0.05			LOW	HIGH	2.67	20
Motor Oil	ND	ND	0.2					0	
n-Pentacosane (surr)	95.5	91.1		100	95.5	60	130		

SAMPLE TYPE: Laboratory Control Sample Duplicate			LAB ID: LCRW-0219-1			INSTR RUN: GC C\980219000000/5/3			
INSTRUMENT: HP 5890			PREPARED: 02/19/98			BATCH ID: DSCW021998-1			
UNITS: mg/L			ANALYZED: 02/23/98			DILUTION: 1.000000			
METHOD:									
ANALYTE	RESULT	REF RESULT	REPORTING LIMIT	SPIKE VALUE	RECOVERY (%)	REC LIMITS (%)		RPD (%)	RPD LIMIT (%)
Diesel	2.30	2.42	0.05			LOW	HIGH	5.08	20
Motor Oil	ND	ND	0.2					0	
n-Pentacosane (surr)	117.3	125.8		100	117	60	130		

SAMPLE SURROGATES

SAMPLE TYPE: Sample-Client			LAB ID: 9802187-01E			INSTR RUN: GC C\980218000000/5/			
INSTRUMENT: HP 5890			PREPARED: 02/18/98			BATCH ID: DSCW021898-1			
UNITS: mg/L			ANALYZED: 02/20/98			DILUTION: 1.000000			
METHOD:									
ANALYTE	RESULT	REF RESULT	REPORTING LIMIT	SPIKE VALUE	RECOVERY (%)	REC LIMITS (%)		RPD (%)	RPD LIMIT (%)
n-Pentacosane (surr)	95.5			100	95.5	60	130		

SAMPLE TYPE: Sample-Client			LAB ID: 9802187-02E			INSTR RUN: GC C\980218000000/6/			
INSTRUMENT: HP 5890			PREPARED: 02/18/98			BATCH ID: DSCW021898-1			
UNITS: mg/L			ANALYZED: 02/20/98			DILUTION: 1.000000			
METHOD:									
ANALYTE	RESULT	REF RESULT	REPORTING LIMIT	SPIKE VALUE	RECOVERY (%)	REC LIMITS (%)		RPD (%)	RPD LIMIT (%)
n-Pentacosane (surr)	97.8			100	97.8	60	130		

SAMPLE TYPE: Sample-Client			LAB ID: 9802187-03E			INSTR RUN: GC C\980218000000/7/			
INSTRUMENT: HP 5890			PREPARED: 02/18/98			BATCH ID: DSCW021898-1			
UNITS: mg/L			ANALYZED: 02/20/98			DILUTION: 1.000000			
METHOD:									
ANALYTE	RESULT	REF RESULT	REPORTING LIMIT	SPIKE VALUE	RECOVERY (%)	REC LIMITS (%)		RPD (%)	RPD LIMIT (%)
n-Pentacosane (surr)	97.4			100	97.4	60	130		

SAMPLE TYPE: Sample-Client			LAB ID: 9802187-04E			INSTR RUN: GC C\980218000000/8/			
INSTRUMENT: HP 5890			PREPARED: 02/18/98			BATCH ID: DSCW021898-1			
UNITS: mg/L			ANALYZED: 02/20/98			DILUTION: 1.000000			
METHOD:									
ANALYTE	RESULT	REF RESULT	REPORTING LIMIT	SPIKE VALUE	RECOVERY (%)	REC LIMITS (%)		RPD (%)	RPD LIMIT (%)
n-Pentacosane (surr)	95.5			100	95.5	60	130		

SAMPLE TYPE: Sample-Client			LAB ID: 9802187-05E			INSTR RUN: GC C\980219000000/2/			
INSTRUMENT: HP 5890			PREPARED: 02/19/98			BATCH ID: DSCW021998-1			
UNITS: mg/L			ANALYZED: 02/21/98			DILUTION: 1.000000			
METHOD:									
ANALYTE	RESULT	REF RESULT	REPORTING LIMIT	SPIKE VALUE	RECOVERY (%)	REC LIMITS (%)		RPD (%)	RPD LIMIT (%)
n-Pentacosane (surr)	100.6			100	101	60	130		

QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9802187
 INSTRUMENT: F
 MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery Fluorobenzene
02/23/98	MW-1	01	92
02/24/98	MW-6	02	100
02/23/98	MW-9	03	91
02/23/98	MW-7	04	91
02/23/98	MW-8	05	92

QC Limits:

70-130

DATE ANALYZED: 02/23/98
 SAMPLE SPIKED: LCS
 INSTRUMENT: F

Laboratory Control Sample Recovery

Analyte	Spike Added (ug/L)	Percent Recovery	RPD	QC Limits	
				Percent Recovery	RPD
Benzene	200	94	6	70-130	20
Toluene	200	92	2	70-130	20
Ethylbenzene	200	101	6	70-130	20
Total Xylenes	600	97	<1	70-130	20

Daily method blanks for all associated analytical runs showed no contamination at or above the reporting limit.

*** END OF REPORT ***

Reporting Information:

1. Client: FLUOR DANIEL GTI
 Address: 757 ARNOLD DR. SUITE D
MONTINEZ CA - 94533
 Contact: ELLEN BRENNEN
 Alt. Contact: _____

American Environmental Network

3440 Vincent Road, Pleasant Hill, CA 94523

Phone (510) 930-9090

FAX (510) 930-0256 R-3, S-2

AEN

REQUEST FOR ANALYSIS / CHAIN OF CUSTODY

Lab Job Number: 9802187
 Lab Destination: _____
 Date Samples Shipped: _____
 Lab Contact: _____
 Date Results Required: _____
 Date Report Required: _____
 Client Phone No.: (510) 370-3990
 Client FAX No.: (510) 370-3991

Address Report To:
 2. SOME AS # 1

Send Invoice To:
 3. 42

Send Report To: 1 or 2 (Circle one)

Client P.O. No.: _____ Client Project I.D. No.: 103232, 030573

Sample Team Member (s) HECTOR MERINO

Lab Number	Client Sample Identification	Air Volume	Date/Time Collected	Sample Type*	Pres.	No. of Cont.	Type of Cont.	ANALYSIS				Comments / Hazards	
1A-F	MW-1		2/13/98 13:00	GW	HECLINOM	6	40mL LITER	X	X				
2A-F	MW-6		13:12	GW		6		X	X				
3A-F	MW-9		13:30	GW		6		X	X				
4A-F	MW-7		13:40	GW		6		X	X				
5A-F	MW-8		13:50	GW		6		X	X				
	MW-4		14:05	GW		6		X	X				
	MW-2		14:18	GW		6		X	X				
	MW-5		14:28	GW		6		X	X				
	DUP-MW4		14:28	GW		3				X			
	TBLB			DI		1				X			
	RW-1		14:28	GW		6		X	X				

BTEX MWBE TPH46
 TPH MWTR 011
 BTEX 8020

Relinquished by: (Signature) <u>[Signature]</u>	DATE <u>2/13/98</u> TIME <u>1015</u>	Received by: (Signature) <u>[Signature]</u>	DATE <u>2/13/98</u> TIME <u>1015</u>
Relinquished by: (Signature) <u>[Signature]</u>	DATE <u>2/13/98</u> TIME <u>1110</u>	Received by: (Signature) <u>[Signature]</u>	DATE <u>2/13/98</u> TIME <u>1110</u>
Relinquished by: (Signature) _____	DATE _____ TIME _____	Received by: (Signature) _____	DATE _____ TIME _____
Method of Shipment _____		Lab Comments _____	

*Sample type (Specify): 1) 37mm 0.8 µm MCEF 2) 25mm 0.8 µm MCEF 3) 25mm 0.4 µm polycarb. filter
 4) PVC filter, diam. _____ pore size _____ 5) Charcoal tube 6) Silica gel tube 7) Water 8) Soil 9) Bulk Sample
 10) Other _____ 11) Other _____

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172

AIHA Accreditation: 11134

PAGE 1

FLUOR DANIEL GTI
757 ARNOLD DRIVE, STE. D
MARTINEZ, CA 94553

ATTN: EILEEN BRENNEN
CLIENT PROJ. ID: 103232.030543

C.O.C. NUMBER: 0875

REPORT DATE: 03/01/98

DATE(S) SAMPLED: 02/12/98

DATE RECEIVED: 02/13/98

AEN WORK ORDER: 9802188

PROJECT SUMMARY:

On February 13, 1998, this laboratory received 6 water sample(s).

Client requested sample(s) be analyzed for chemical parameters. Results of analysis are summarized on the following page(s). Please see quality control report for a summary of QC data pertaining to this project.

Samples will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Samples may be archived by prior arrangement.

If you have any questions, please contact Client Services at (510) 930-9090.


Larry Klein
Laboratory Director

FLUOR DANIEL GTI

SAMPLE ID: MW-4
 AEN LAB NO: 9802188-01
 AEN WORK ORDER: 9802188
 CLIENT PROJ. ID: 103232.030543

DATE SAMPLED: 02/12/98
 DATE RECEIVED: 02/13/98
 REPORT DATE: 03/01/98

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	0.5	ug/L	02/24/98
Toluene	108-88-3	ND	0.5	ug/L	02/24/98
Ethylbenzene	100-41-4	ND	0.5	ug/L	02/24/98
Xylenes, Total	1330-20-7	ND	2	ug/L	02/24/98
Purgeable HCs as Gasoline	5030/GCFID	ND	0.05	mg/L	02/24/98
Methyl t-Butyl Ether	1634-04-4	ND	5	ug/L	02/24/98
#Extraction for TPH	EPA 3510	-		Extrn Date	02/20/98
TPH as Oil	GC-FID	ND	0.2	mg/L	02/23/98

ND = Not detected at or above the reporting limit
 * = Value at or above reporting limit

FLUOR DANIEL GTI

SAMPLE ID: MW-2
 AEN LAB NO: 9802188-02
 AEN WORK ORDER: 9802188
 CLIENT PROJ. ID: 103232.030543

DATE SAMPLED: 02/12/98
 DATE RECEIVED: 02/13/98
 REPORT DATE: 03/01/98

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	0.5	ug/L	02/24/98
Toluene	108-88-3	ND	0.5	ug/L	02/24/98
Ethylbenzene	100-41-4	ND	0.5	ug/L	02/24/98
Xylenes, Total	1330-20-7	ND	2	ug/L	02/24/98
Purgeable HCs as Gasoline	5030/GCFID	ND	0.05	mg/L	02/24/98
Methyl t-Butyl Ether	1634-04-4	ND	5	ug/L	02/24/98
#Extraction for TPH	EPA 3510	-		Extrn Date	02/20/98
TPH as Oil	GC-FID	1.6 *	0.2	mg/L	02/23/98

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

FLUOR DANIEL GTI

SAMPLE ID: MW-5
 AEN LAB NO: 9802188-03
 AEN WORK ORDER: 9802188
 CLIENT PROJ. ID: 103232.030543

DATE SAMPLED: 02/12/98
 DATE RECEIVED: 02/13/98
 REPORT DATE: 03/01/98

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	0.5	ug/L	02/24/98
Toluene	108-88-3	ND	0.5	ug/L	02/24/98
Ethylbenzene	100-41-4	ND	0.5	ug/L	02/24/98
Xylenes, Total	1330-20-7	ND	2	ug/L	02/24/98
Purgeable HCs as Gasoline	5030/GCFID	ND	0.05	mg/L	02/24/98
Methyl t-Butyl Ether	1634-04-4	ND	5	ug/L	02/24/98
#Extraction for TPH	EPA 3510	-		Extrn Date	02/20/98
TPH as Oil	GC-FID	ND	0.2	mg/L	02/24/98

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

FLUOR DANIEL GTI

SAMPLE ID: DUP-MW-4
AEN LAB NO: 9802188-04
AEN WORK ORDER: 9802188
CLIENT PROJ. ID: 103232.030543

DATE SAMPLED: 02/12/98
DATE RECEIVED: 02/13/98
REPORT DATE: 03/01/98

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
EPA 8020 for BTEX	EPA 8020				
Benzene	71-43-2	ND	0.5	ug/L	02/24/98
Toluene	108-88-3	ND	0.5	ug/L	02/24/98
Ethylbenzene	100-41-4	ND	0.5	ug/L	02/24/98
Xylenes, Total	1330-20-7	ND	2	ug/L	02/24/98
Methyl t-Butyl Ether	1634-04-4	ND	5	ug/L	02/24/98

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

FLUOR DANIEL GTI

SAMPLE ID: TBLB
AEN LAB NO: 9802188-05
AEN WORK ORDER: 9802188
CLIENT PROJ. ID: 103232.030543

DATE SAMPLED: 02/12/98
DATE RECEIVED: 02/13/98
REPORT DATE: 03/01/98

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
EPA 8020 for BTEX	EPA 8020				
Benzene	71-43-2	ND	0.5	ug/L	02/24/98
Toluene	108-88-3	ND	0.5	ug/L	02/24/98
Ethylbenzene	100-41-4	ND	0.5	ug/L	02/24/98
Xylenes, Total	1330-20-7	ND	2	ug/L	02/24/98
Methyl t-Butyl Ether	1634-04-4	ND	5	ug/L	02/24/98

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

FLUOR DANIEL GTI

SAMPLE ID: EW-1
 AEN LAB NO: 9802188-06
 AEN WORK ORDER: 9802188
 CLIENT PROJ. ID: 103232.030543

DATE SAMPLED: 02/12/98
 DATE RECEIVED: 02/13/98
 REPORT DATE: 03/01/98

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	9.8 *	0.5 ug/L		02/24/98
Toluene	108-88-3	0.6 *	0.5 ug/L		02/24/98
Ethylbenzene	100-41-4	1.2 *	0.5 ug/L		02/24/98
Xylenes, Total	1330-20-7	2 *	2 ug/L		02/24/98
Purgeable HCs as Gasoline	5030/GCFID	1.0 *	0.05 mg/L		02/24/98
Methyl t-Butyl Ether	1634-04-4	30 *	5 ug/L		02/24/98
#Extraction for TPH	EPA 3510	-		Extrn Date	02/20/98
TPH as Oil	GC-FID	6.3 *	0.2 mg/L		02/24/98

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9802188
CLIENT PROJECT ID: 103232.030543

Quality Control and Project Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spikes(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analyses.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behaviour, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrument performance.

D: Surrogates diluted out.

I: Interference.

!: Indicates result outside of established laboratory QC limits.

ANALYSIS: Extractable TPH

MATRIX: Water

METHOD BLANK SAMPLES

SAMPLE TYPE: Blank-Method/Media blank		LAB ID: BLKW-0220-1		INSTR RUN: GC C\980220000000/3/				
INSTRUMENT: HP 5890		PREPARED: 02/20/98		BATCH ID: DSEW022098-1				
UNITS: mg/L		ANALYZED: 02/23/98		DILUTION: 1.000000				
METHOD:								
ANALYTE	RESULT	REF RESULT	REPORTING LIMIT	SPIKE VALUE	RECOVERY (%)	REC LIMITS (%)	RPD (%)	RPD LIMIT (%)
						LOW HIGH		
Diesel	ND		0.05			60 130		
Motor Oil	ND		0.2					
n-Pentacosane (surr)	92.0			100	92.0	60 130		

LABORATORY CONTROL SAMPLES

SAMPLE TYPE: Laboratory Control Spike		LAB ID: LCDW-0220-1		INSTR RUN: GC C\980220000000/5/3				
INSTRUMENT: HP 5890		PREPARED: 02/20/98		BATCH ID: DSEW022098-1				
UNITS: mg/L		ANALYZED: 02/23/98		DILUTION: 1.000000				
METHOD:								
ANALYTE	RESULT	REF RESULT	REPORTING LIMIT	SPIKE VALUE	RECOVERY (%)	REC LIMITS (%)	RPD (%)	RPD LIMIT (%)
						LOW HIGH		
Diesel	1.99	ND	0.05	2.00	99.5	60 130		
n-Pentacosane (surr)	94.3	92.0		100	94.3	60 130		

SAMPLE TYPE: Laboratory Control Spike		LAB ID: LCSW-0220-1		INSTR RUN: GC C\980220000000/4/3				
INSTRUMENT: HP 5890		PREPARED: 02/20/98		BATCH ID: DSEW022098-1				
UNITS: mg/L		ANALYZED: 02/23/98		DILUTION: 1.000000				
METHOD:								
ANALYTE	RESULT	REF RESULT	REPORTING LIMIT	SPIKE VALUE	RECOVERY (%)	REC LIMITS (%)	RPD (%)	RPD LIMIT (%)
						LOW HIGH		
Diesel	1.87	ND	0.05	2.00	93.5	60 130		
n-Pentacosane (surr)	90.5	ND		100	90.5	60 130		

LABORATORY CONTROL DUPLICATES

SAMPLE TYPE: Laboratory Control Sample Duplicate		LAB ID: LCRW-0220-1		INSTR RUN: GC C\980220000000/6/4				
INSTRUMENT: HP 5890		PREPARED: 02/20/98		BATCH ID: DSEW022098-1				
UNITS: mg/L		ANALYZED: 02/23/98		DILUTION: 1.000000				
METHOD:								
ANALYTE	RESULT	REF RESULT	REPORTING LIMIT	SPIKE VALUE	RECOVERY (%)	REC LIMITS (%)	RPD (%)	RPD LIMIT (%)
						LOW HIGH		
Diesel	1.99	1.87	0.05			60 130	6.22	20
n-Pentacosane (surr)	94.3	90.5		100	94.3	60 130		

SAMPLE SURROGATES

SAMPLE TYPE: Sample-Client		LAB ID: 9802188-01E		INSTR RUN: GC C\980220000000/10/				
INSTRUMENT: HP 5890		PREPARED: 02/20/98		BATCH ID: DSEW022098-1				
UNITS: mg/L		ANALYZED: 02/23/98		DILUTION: 1.000000				
METHOD:								
ANALYTE	RESULT	REF RESULT	REPORTING LIMIT	SPIKE VALUE	RECOVERY (%)	REC LIMITS (%)	RPD (%)	RPD LIMIT (%)
						LOW HIGH		
n-Pentacosane (surr)	111.2			100	111	60 130		

SAMPLE TYPE: Sample-Client		LAB ID: 9802188-02E		INSTR RUN: GC C\980220000000/11/				
INSTRUMENT: HP 5890		PREPARED: 02/20/98		BATCH ID: DSEW022098-1				
UNITS: mg/L		ANALYZED: 02/23/98		DILUTION: 1.000000				
METHOD:								
ANALYTE	RESULT	REF RESULT	REPORTING LIMIT	SPIKE VALUE	RECOVERY (%)	REC LIMITS (%)	RPD (%)	RPD LIMIT (%)
						LOW HIGH		
n-Pentacosane (surr)	114.4			100	114	60 130		

WORK ORDER: 9802188

QUALITY CONTROL REPORT

PAGE QR-3

ANALYSIS: Extractable TPH

MATRIX: Water

SAMPLE SURROGATES

SAMPLE TYPE: Sample-Client		LAB ID: 9802188-03E		INSTR RUN: GC C\980220000000/12/				
INSTRUMENT: HP 5890		PREPARED: 02/20/98		BATCH ID: DSEW022098-1				
UNITS: mg/L		ANALYZED: 02/24/98		DILUTION: 1.000000				
METHOD:								
ANALYTE	RESULT	REF RESULT	REPORTING LIMIT	SPIKE VALUE	RECOVERY (%)	REC LIMITS (%)		RPD LIMIT (%)
						LOW	HIGH	
n-Pentacosane (surr)	126.8			100	127	60	130	

SAMPLE TYPE: Sample-Client		LAB ID: 9802188-06E		INSTR RUN: GC C\980220000000/13/				
INSTRUMENT: HP 5890		PREPARED: 02/20/98		BATCH ID: DSEW022098-1				
UNITS: mg/L		ANALYZED: 02/24/98		DILUTION: 1.000000				
METHOD:								
ANALYTE	RESULT	REF RESULT	REPORTING LIMIT	SPIKE VALUE	RECOVERY (%)	REC LIMITS (%)		RPD LIMIT (%)
						LOW	HIGH	
n-Pentacosane (surr)	114.9			100	115	60	130	

QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9802188
 INSTRUMENT: H
 MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery	
			Fluorobenzene	
02/24/98	MW-4	01	101	
02/24/98	MW-2	02	100	
02/24/98	MW-5	03	100	
02/24/98	DUP-MW4	04	102	
02/24/98	TBLB	05	101	
02/24/98	EW-1	06	102	

QC Limits:

70-130

DATE ANALYZED: 02/24/98
 SAMPLE SPIKED: 9802188-04
 INSTRUMENT: H

Matrix Spike Recovery Summary

Analyte	Spike Added (ug/L)	Percent Recovery	RPD	QC Limits	
				Percent Recovery	RPD
Benzene	200	94	8	70-130	20
Toluene	200	95	8	70-130	20
Ethylbenzene	200	101	8	70-130	20
Total Xylenes	600	104	8	70-130	20

Daily method blanks for all associated analytical runs showed no contamination at or above the reporting limit.

*** END OF REPORT ***

Reporting Information:

1. Client: FLUORDANIELGTI
 Address: 757 ARNOLD DR. SUITE D
MARTINEZ CA - 94533
 Contact: ELLEN BEEMEN
 Alt. Contact: _____

American Environmental Network

3440 Vincent Road, Pleasant Hill, CA 94523
 Phone (510) 930-9090
 FAX (510) 930-0256

AEN

REQUEST FOR ANALYSIS / CHAIN OF CUSTODY

9802188

Lab Job Number: _____
 Lab Destination: _____
 Date Samples Shipped: _____
 Lab Contact: _____
 Date Results Required: _____
 Date Report Required: _____
 Client Phone No.: (510) 370-3990
 Client FAX No.: (510) 370-3991

Address Report To:

2. SAME AS #1

Send Invoice To:

3. 112

Send Report To: 1 or 2 (Circle one)

Client P.O. No.: _____ Client Project I.D. No.: 103232.030543

Sample Team Member (s) HECTOR MERINO

Lab Number	Client Sample Identification	Air Volume	Date/Time Collected	Sample Type*	Pres.	No. of Cont.	Type of Cont.	ANALYSIS						Comments / Hazards	
								BTEX	MTBE	TPH	MAK	Oil	8020		
	MW-1		1/13/98 13:00	GW	RELINOME	6	40ML LITER	X	X						
	MW-6		1/13/98 13:10	GW		6		X	X						
	MW-9		1/13/98 13:30	GW		6		X	X						
	MW-8		1/13/98 13:40	GW		6		X	X						
1A-F	MW-4		1/13/98 14:05	GW		6		X	X						
2A-F	MW-2		1/13/98 14:18	GW		6		X	X						
3A-F	MWS		1/13/98 14:28	GW		6		X	X						
4ABC	DUP-MW4		1/13/98 14:28	GW		3				X					
5A	TBUB			DI		1					X				
6A-F	BW-1		1/13/98 14:40	GW		6		X	X						

BTEX MTBE TPH
 TPH MAK Oil
 BTEX 8020

Relinquished by: (Signature) <u>[Signature]</u>	DATE <u>2/13/98</u>	TIME <u>1015</u>	Received by: (Signature) <u>[Signature]</u>	DATE <u>2/13/98</u>	TIME <u>1105</u>
Relinquished by: (Signature) <u>[Signature]</u>	DATE <u>2/13/98</u>	TIME <u>1110</u>	Received by: (Signature) <u>[Signature]</u>	DATE <u>2/13/98</u>	TIME <u>1110</u>
Relinquished by: (Signature) _____	DATE _____	TIME _____	Received by: (Signature) _____	DATE _____	TIME _____
Method of Shipment _____			Lab Comments _____		

*Sample type (Specify): 1) 37mm 0.8 µm MCEF 2) 25mm 0.8 µm MCEF 3) 25mm 0.4 µm polycarb. filter
 4) PVC filter, diam. _____ pore size _____ 5) Charcoal tube 6) Silica gel tube 7) Water 8) Soil 9) Bulk Sample
 10) Other _____ 11) Other _____