FLUOR DANIEL GTI

STID 1630

January 23, 1998

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

Subject: Quarterly Groundwater Monitoring and Sampling Report
Sears Store 1039; 1911 Telegraph Avenue, Oakland, California
Fluor Daniel GTI Project 020200282

Dear Mr. Klettke:

On behalf of Sears, Roebuck and Co., Fluor Daniel GTI, Inc., presents the quarterly groundwater monitoring and sampling data collected on November 26, 1997 from the site referenced above. The seven 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 not detected in the monitoring wells. A potentiometric surface map is presented in Attachment 1, Figure 1. A summary of monitoring data is presented in Attachment 2, Table 1.

After measuring depth to water, all monitoring wells were purged and sampled. Groundwater monitoring and sample collection protocol, and field data sheets are presented in Attachment 3. The groundwater samples were analyzed for dissolved benzene, toluene, ethylbenzene and total xylenes (BTEX), methyl tert-butyl ether (MTBE), and total petroleum hydrocarbons (TPH)-as-gasoline by EPA Methods 8020/modified 8015, and chlorinated hydrocarbons by EPA Method 8010. Additionally, wells MW-4 and MW-6 were analyzed for total oil and grease (SM5520 C&F). A summary of the groundwater analytical results is presented in Attachment 2, Table 2. A distribution map of dissolved benzene and TPH-as-gasoline concentrations is presented in Attachment 1, Figure 2. Laboratory reports and chain-of-custody records are included in Attachment 4.

A work plan is being developed to address the increasing concentrations documented in the groundwater in downgradient well MW-7.

If you have comments or questions, please contact me at (510) 370-3990.

Sincerely,
Fluor Daniel GTI, Inc.

Eileen Brennan
West Zone Project Manager

Attachments

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

757 Arnold Drive, Suite D / Martinez, CA 94553 USA (510) 370-3990 FAX (510) 370-3991

ATTACHMENT 1

Figures

1. Potentiometric Surface Map (11/26/97)
2. Concentrations of Benzene and TPH-as-Gasoline in Groundwater (11/26/97)

ATTACHMENT 2

Tables

1. Summary of Historical Groundwater Monitoring Data
2. Summary of Historical Groundwater 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 1039
1911 Telegraph Avenue, Oakland, California

Well ID	Casing Elev.	Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elev.
MW-1	94.34	06/12/96	16.21	--	--	78.13
		09/05/96	16.89	--	--	77.45
		12/03/96	17.07	--	--	77.27
		02/27/97	15.55	--	--	78.79
		06/10/97	16.46	--	--	77.88
		08/27/97	16.97	--	--	77.37
		11/26/97	17.24	--	--	77.10
MW-2	93.94	06/12/96	16.01	--	--	77.93
		09/05/96	16.66	--	--	77.28
		12/03/96	16.20	--	--	77.74
		02/27/97	14.46	--	--	79.48
		06/10/97	14.00	--	--	79.94
		08/27/97	16.55	--	--	77.39
		11/26/97	16.86	--	--	77.08
MW-3	95.67	06/12/96	17.56	--	--	78.10
		09/05/96	18.32	--	--	77.35
		12/03/96	18.57	--	--	77.10
		02/27/97	17.43	--	--	78.24
		06/10/97	18.12	--	--	77.55
		08/27/97	18.47	--	--	77.20
		11/26/97	18.70	--	--	76.97
MW-4	91.99	06/12/96	14.21	--	--	77.78
		09/05/96	14.83	--	--	77.16
		12/03/96	13.99	--	--	78.00
		02/27/97	12.44	--	--	79.55
		06/10/97	14.20	--	--	77.79
		08/27/97	14.62	--	--	77.37
		11/26/97	15.00	--	--	76.99
MW-5	92.09	06/12/96	14.13	--	--	77.96
		09/05/96	14.77	--	--	77.32
		12/03/96	13.99	--	--	78.10
		02/27/97	12.08	--	--	80.01
		06/10/97	16.00	--	--	76.09
		08/27/97	14.55	--	--	77.54
		11/26/97	14.95	--	--	77.14

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

Sears Store 1039
1911 Telegraph Avenue, Oakland, California

Well ID	Casing Elev.	Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elev.
MW-6	92.15	06/12/96	14.99	--	--	77.16
		09/05/96	15.50	--	--	76.65
		12/03/96	15.07	--	--	77.08
		02/27/97	14.14	--	--	78.01
		06/10/97	15.30	--	--	76.85
		08/27/97	15.42	--	--	76.73
		11/26/97	15.70	--	--	76.45
MW-7	93.36	06/12/96	16.56	--	--	76.80
		09/05/96	17.10	--	--	76.26
		12/03/96	17.12	--	--	76.24
		02/27/97	16.20	--	--	77.16
		06/10/97	17.00	--	--	76.36
		08/27/97	17.18	--	--	76.18
		11/26/97	17.40	--	--	75.96

Notes:
"--" = indicates no datum for the cell, including "product not detected"

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

Sears Store 1039
1911 Telegraph Avenue, Oakland, California

Well ID	Date Sampled	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH as Gasoline	TCE	1,2-DCA	cis 1,2 DCE	1,1 DCE	OIL/ GREASE	PCE
MW-1	10/95	--	ND	ND	ND	ND	<50	ND	ND	--	--	--	9.9
	01/96	--	ND	ND	ND	ND	<50	14	ND	--	--	--	9.9
	06/12/96	--	<0.5	1.4	<0.5	<2	<50	<0.5	<0.5	--	--	--	12
	09/05/96	<5.0	<0.5	<0.5	<0.5	<2	<50	<0.5	<0.5	--	--	--	12
	12/03/96	<5.0	<0.5	<0.5	<0.5	<2	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5
	02/27/97	<5.0	<0.5	<0.5	<0.5	<2	<50	1.3	<0.5	<0.5	<0.5	--	31
	06/10/97	<5.0	<0.5	<0.5	<0.5	<2	<50	<0.5	<0.5	<0.5	<0.5	--	19
	08/27/97	<5.0	<0.5	<0.5	<0.5	<2	<50	<0.5	<0.5	<0.5	<0.5	--	16
	11/26/97	<5.0	<0.5	<0.5	<0.5	<2	<50	<0.5	<0.5	<0.5	<0.5	--	17
MW-2	10/95	--	1,200	5.4	41	5.9	2,900	40	280	--	--	--	ND
	01/96	--	1,100	11	100	6.9	780	38	270	--	--	--	ND
	06/12/96	--	890	7	56	10	3,600	40	160	--	--	--	<3
	09/05/96	<5.0	350	3.0	17	10	2,100	29	55	1.9	55	--	<0.5
	12/03/96	40	230	2.4	7.8	7	1,100	20	86	7	<0.5	--	<0.5
	02/27/97	12	210	2.2	6.0	3	1,000	25	43	<0.5	<0.5	--	0.8
	06/10/97	<30	510	3	6.0	<10	1,800	19	47	4.9	<0.5	--	1.0
	08/27/97	11	51	<0.5	1.4	<2	450	16	29	4.2	<0.5	--	0.5
	11/26/97	<30	380	5	9	12	1,200	13	29	3.1	<0.5	--	0.6
MW-3	10/95	--	ND	ND	ND	ND	<50	ND	ND	--	--	--	ND
	01/96	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	06/12/96	--	<0.5	<0.5	<0.5	<2	<50	<0.5	<0.5	--	--	<0.5	<0.5
	09/05/96	<5.0	<0.5	<0.5	<0.5	<2	<50	<0.5	<0.5	--	--	<0.5	<0.5
	12/03/96	<5.0	<0.5	<0.5	<0.5	<2	<50	<0.5	<0.5	<0.5	<0.5	--	2.3
	02/27/97	<5.0	<0.5	<0.5	<0.5	<2	<50	<0.5	<0.5	<0.5	<0.5	--	6.3
	06/10/97	<5.0	<0.5	<0.5	<0.5	<2	<50	<0.5	<0.5	<0.5	<0.5	--	5.9
	08/27/97	<5.0	<0.5	<0.5	<0.5	<2	<50	<0.5	<0.5	<0.5	<0.5	--	5.8
	11/26/97	<5.0	<0.5	<0.5	<0.5	<2	<50	<0.5	<0.5	<0.5	<0.5	--	7.9
MW-4	10/95	--	4.1	ND	ND	ND	<50	ND	ND	--	--	--	ND
	01/96	--	5.8	ND	ND	ND	<50	ND	ND	--	--	--	ND
	06/12/96	--	11	<0.5	<0.5	<2	320	<0.5	<0.5	--	--	<0.5	<0.5
	09/05/96	--	5.6	<0.5	<0.5	<2	70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	12/03/96	15	11	<0.5	<0.5	<2	270	<0.5	0.9	<0.5	<0.5	<0.5	<0.5
	02/27/97	<5.0	3.1	<0.5	<0.5	<2	190	<0.5	<0.5	<0.5	<0.5	<500	<0.5
	06/10/97	<5.0	11	<0.5	<0.5	<2	200	<0.5	<0.5	<0.5	<0.5	--	<0.5
	08/27/97	<5.0	9.6	<0.5	<0.5	<2	170	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	11/26/97	<5.0	6.7	<0.5	<0.5	<2	100	<0.5	<0.5	<0.5	<0.5	<500	<0.5

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

Sears Store 1039
1911 Telegraph Avenue, Oakland, California

Well ID	Date Sampled	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH as Gasoline	TCE	1,2-DCA	cis 1,2 DCE	1,1 DCE	OIL/ GREASE	PCE
MW-5	10/95	--	86	ND	ND	ND	260	ND	ND	--	--	--	ND
	01/96	--	160	3.6	ND	ND	180	ND	ND	--	--	--	ND
	06/12/96	--	54	1.1	<0.5	<2	260	<0.5	<0.5	--	--	--	<0.5
	09/05/96	<5.0	22	1.0	<0.5	<2	160	<0.5	<0.5	--	--	--	<0.5
	12/03/96	6	18	0.6	<0.5	<2	170	<0.5	<0.5	<0.5	<0.5	--	<0.5
	02/27/97	<5	74	2.0	<0.5	<2	230	<0.5	<0.5	<0.5	<0.5	--	<0.5
	06/10/97	<30	490	19	<3.0	<10	1,200	<0.5	<0.5	<0.5	<0.5	--	<0.5
	08/27/97	<5.0	100	4.6	<0.5	<2	340	<0.5	<0.5	<0.5	<0.5	--	<0.5
	11/26/97	<5.0	78	4.5	0.6	<2	400	<0.5	<0.5	<0.5	<0.5	--	<0.5
MW-6	10/95	--	ND	ND	ND	ND	<50	11	33	--	--	--	6.2
	01/96	--	ND	ND	ND	ND	<50	12	5.3	--	--	--	7.2
	06/12/96	--	<0.5	<0.5	<0.5	<2	<50	5.0	7.9	--	--	<0.5	3.6
	09/05/96	<5	0.8	<0.5	<0.5	<2	<50	5.2	7.5	--	--	<0.5	5.4
	12/03/96	<5	<0.5	<0.5	<0.5	<2	<50	0.6	0.5	<0.5	<0.5	<0.5	0.9
	02/27/97	<5	<0.5	<0.5	<0.5	<2	<50	0.5	<0.5	<0.5	<0.5	<500	1.3
	06/10/97	<5	0.9	<0.5	<0.5	<2	<50	<0.5	<0.5	<0.5	<0.5	--	1.0
	08/27/97	<5	<0.5	<0.5	<0.5	<2	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.9
	11/26/97	7.6	15	0.9	9.1	<2	320	0.6	0.8	<0.5	<0.5	<500	1.2
MW-7	10/95	--	ND	ND	ND	ND	<50	3.5	8.3	--	--	--	5.3
	01/96	--	ND	ND	ND	ND	<50	4.8	5.7	--	--	--	9.3
	06/12/96	--	0.6	<0.5	<0.5	<2	<50	3.4	2.9	--	--	--	6.1
	09/05/96	<5	1.2	<0.5	<0.5	<2	<50	4.2	5.9	--	--	--	8.3
	12/03/96	<5	850	<5	<5	30	120	4.0	75	<3	<3	<0.5	4
	02/27/97	<30	1500	3	23	<10	2,500	4.0	65	<0.5	<0.5	--	2.2
	06/10/97	<50	1700	<5	59	<20	3,200	4.2	85	<0.5	<0.5	--	2.2
	08/27/97	90	1700	8	200	40	3,900	5.0	93	<3	<3	--	<3
	11/26/97	90	3,100	15	190	30	5,600	5.9	120	1.0	<0.5	--	2.9

Notes: Historical data before June 1996 as reported by previous consultants.
"--" = No datum for the cell, including "not analyzed for this constituent."
"<" = Compound was not detected above the laboratory reporting limits.
TPH = Total petroleum hydrocarbons
ND = Non-detectable (detection limits for each metal is listed in laboratory reports included in attachment 4)
PCE = Tetrachloroethene
1,2 DCA = 1,2 Dichloroethane
TCE = Trichloroethene
MTBE = Methyl tert-Butyl ether
cis 1,2-DCE = CIS-1,2-Dichloroethene
1,1-DCE = 1,1 Dichloroethene

ATTACHMENT 3

Groundwater Monitoring and Sample Collection Protocol and Field Data Sheets

11/26

SITE VISIT FORM
Fluor Daniel GTI - Martinez, California

Project: **20200282.00** Technician: A Mendoza
Site: **SEARS/1039/Oakland, CA** Scheduled: **11/24/97**
Project Mgr: **Eileen Brennan** Site Mgr:

PREPARATORY COMMENTS

Visit Date: 11/26/97 Arrival Time: 9:00 Departure Time: 13:30

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: Jennie Pinocci 48 hrs. in advance (510) 444-7662. (She will insure that wells are not covered). Called 11/24/97 @ 11:15 spoke to Full.

Notify Tom Peacock 72 hrs. in advance (510) 567-6782. DONE: 11/20/97 @ 1:05 pm 11/24/97 Tom spoke to Jennie changed to 11/26/97.

SITE ADDRESS: 1911 Telegraph Avenue, Oakland, CA

cc: Elieen Brennan

During any sampling activities, a minimum work zone will be defined by 10 ft by 10 ft square centered around the monitor well and marked with 36" -high orange traffic cones with flag poles and flag 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 permeter of the cones and caution tape at all times.

1. Monitor and sample seven (7) wells in the following order: MW-1, MW-3, MW-7, MW-6, MW-4, MW-5 and MW-2. USE DISPOSABLE BAILERS.

2. Purge each well of 3 well volumes or until dry. Record pH, temp conductivity data.

3. Collect one trip blank and one duplicate from MW-2 and submit for BTEX- 8020 only. Pick up or have trip blank delivered from lab. Must use lab trip (AEN) for no cost.

4. Make a complete drum count and note the general condition of the site, wells and drums. Keep drum area tidy. Label drums properly (Non

SITE VISIT FORM
Fluor Daniel GTI - Martinez, California

Project: **20200282.00** Technician: H Merino
Site: **SEARS/1039/Oakland, CA** Scheduled: **11/24/97**
Project Mgr: **Eileen Brennan** Site Mgr:

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

Haz).

5. Submit samples to AEN lab in Pleasant Hill. ph. # (510) 930-9090, to be analyzed for BTEX/MTBE/TPH-G (EPA Method 8020/8015M), and chlorinated hydrocarbons (EPA method 8010). Wells MW-4 and MW-6 additionally analyze for Oil and Grease (C/F).

6. COMPLETED ALL THREE PAGES OF WASTE INVENTORY FORM? YES. IF NO, EXPLAIN_____.

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 2, Soil___, Empty___, Other___

DRUMS labeled? NA/Y/N Gen. Date: 11/26/97 Label Type: NON CLASS

SOIL pile? Y/N size:_____cu.yds. SITE LEFT CLEAN? (Y)/N

TECHNICIAN'S COMMENTS

MONITORED AND SAMPLED ALL WELLS. HEAVY RAIN ALL DAY.

Total Hours Estimated	5.00	Total Hours Used	
Travel Time Estimated	1.00	Travel Time Used	

H Merino

SITE VISIT FORM
FLUOR DANIEL GTI

Project: Sears/# ~~1058~~ 1039 Oakland
Store #: ~~1058/2083~~ 1039 Telegraph
Project Manager: Eileen Brennan

Technician: [signature]
Schedule: 11/26/97
Job No. ~~020200281.030543~~ 020200282.030543

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

Visit Date: 11/26/97 Arrival Time: 9:00 Departure Time: 13:00

Called Project Manager? YES (NO) Time:____ Who:____

If you did not call, why not? Eileen NOT IN OFFICE

Weather: (Rain) Snow Sunny Cloudy Temperature:____

Well ID	DTB	DTW	SAT. THICK	#GAL. BAILED
MW-1:	~~21.72~~ 24.25	17.24		
MW-2:	~~[illegible]~~ 24.10	16.86		
MW-3:	~~[illegible]~~ 27.25	18.70		
MW-4:	~~22.97~~ 23.55	15.00		
MW-5:	~~25.20~~ 25.10	14.95		
MW-6:	~~22.05~~ 26.75	15.70		
MW-7:	~~[illegible]~~ 26.20	17.40		
~~MW-8:~~	~~22.14~~			
~~MW-9~~	~~20.30~~			
~~EW-1~~	~~22.30~~			

NOTES: ____

HOURS ESTIMATED: HOURS USED:

FINAL CHECKS

Are Wells Locked? (YES) NO Why Not?

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

Project Name: Sears/1039/Oakland
Site Address: 1911 Telegraph Ave., Oakland
Project Number: 020200282.030543

Date: 11/26/97
Page 1 of 7
Project Manager: Eileen Brennan

Well ID: MW-1
Well Diameter: 2

DTW Measurements:
Initial: 17.25
Recharge:
DTB: 24.35

Calc Well Volume: 1.1 gal
Well Volume: X3 3.4 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
10:00	13.4	0.44	7.05	1	CLOUDY	BROWN
10:01	13.9	0.45	7.01	2	↓	
10:02	14.8	0.45	6.86	3		
10:03	15.4	0.43	6.76	4		
10:04	17.3	0.44	6.62	5		DRY @ 5 GALLONS

Project Name: Sears/1039/Oakland
Site Address: 1911 Telegraph Ave., Oakland
Project Number: 020200282.030543

Date: 11/26/97
Page 2 of 7
Project Manager: Eileen Brennan

Well ID: MW-3
Well Diameter: 4

DTW Measurements:
Initial: 19.70
Recharge:
DTB: ~~27.57~~ 27.35

Calc Well Volume: 5.5 gal
Well Volume: X3 1615 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
10:20	21.8	0.51	6.~~22~~	5	Cloudy	
10:30	22.1	0.54	6.24	10		
10:33	22.1	0.53	6.28	15	↓	DRY @ 15 GALLONS
				20		

Project Name: Sears/1039/Oakland
Site Address: 1911 Telegraph Ave., Oakland
Project Number: 020200282.030543

Date: 11/26/97
Page 3 of 7
Project Manager: Eileen Brennan

Well ID: MW-7
Well Diameter: 2

DTW Measurements:
Initial: 17.40
Recharge:
DTB: ~~29.70~~ 26.20

Calc Well Volume: 1.4 gal
Well Volume: X3 4.3 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 ~~X~~ C / F	Conductivity (mmhos/cm)	pH	Purge Volume Gallons	Turbidity	Comments
10:44	20.4	0.58	6.28	1	Cloudy	
10:45	20.9	0.63	6.47	2	↓	
10:46	20.8	0.64	6.48	3		
10:47	20.9	0.63	6.48	4	↓	Dry @ 4 Gallons
				5		

Project Name: Sears/1039/Oakland
Site Address: 1911 Telegraph Ave., Oakland
Project Number: 020200282.030543

Date: 11/26/97
Page 4 of 7
Project Manager: Eileen Brennan

Well ID: MW-C6
Well Diameter: 2

DTW Measurements:
Initial: 15.70
Recharge:
DTB: ~~26.55~~ 26.70

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
10:55	20.3	0.72	6.55	1	CLOUDY BROWN	
10:56	21.4	0.75	6.60	2	↓	
10:57	22.1	0.76	6.64	3		
10:58	22.1	0.75	6.65	4	↓	DRY @ 5 gallons
10:59	22.0	0.75	6.65	5	↓	

Project Name: Sears/1039/Oakland
Site Address: 1911 Telegraph Ave., Oakland
Project Number: 020200282.030543

Date: 11/26/97
Page 5 of 7
Project Manager: Eileen Brennan

Well ID: MW-4
Well Diameter: 4

DTW Measurements:
Initial: 15.00 Calc Well Volume: 5.15 gal
Recharge: _____ Well Volume: X3 16.17 gal
DTB: ~~[illegible]~~ 23.15

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
11:10	22.9	0.70	6.59	5	Cloudy	ODOR
11:13	23.0	0.70	6.59	10	↓	
11:16	22.9	0.72	6.61	15		
				20		

Project Name: Sears/1039/Oakland
Site Address: 1911 Telegraph Ave., Oakland
Project Number: 020200282.030543

Date: 11/26/97
Page 6 of 7
Project Manager: Eileen Brennan

Well ID: MW-5
Well Diameter: 2

DTW Measurements:
Initial: 14.95
Recharge:
DTB: 25.10

Calc Well Volume: 1.6 gal
Well Volume: X 3 5 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
11:36	22.3	1.04	6.74	1	CLOUDY	BROWN
11:37	22.4	1.05	6.77	2		
11:38	22.3	1.06	6.79	3		
11:39	22.5	1.07	6.80	4		DRY @ 4 GALLONS
				5		

Project Name: Sears/1039/Oakland
Site Address: 1911 Telegraph Ave., Oakland
Project Number: 020200282.030543

Date: 11/26/97
Page 2 **of** 3
Project Manager: Eileen Brennan

Well ID: MW-2
Well Diameter: 4

DTW Measurements:
Initial: 16.36 Calc Well Volume: 9.7 gal
Recharge: Well Volume: x3 29.1 gal
DTB: 24.10

Purge Method
Peristaltic
Gear Drive
Submersible N

Pump Depth ft.
Hand Bailed
Air Lift
Other

Instruments Used
YSI: X
Hydac:
Omega:
Other:

Time	Temp N C F	Conductivity (mmhos/cm)	pH	Purge Volume Gallons	Turbidity	Comments
11:50	21.9	1.06	6.77	5	Cloudy	
11:53	22.1	1.04	6.67	10	↓	
11:55	22.5	1.01	6.52	15	↓	DRY @ 15 GALLONS
				20		

SEARS DRUM INVENTORY FORM

Completion Date: 11/26/97

Sears Store Number 1039 City/State OAKLAND CA.

Accumulation Start Date 11/20/97

FDGTI Representative HECTOR NERIS

Drum Storage Location INSIDE GARAGE.

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)	2	A,B	BOTH	NON HAZ	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.

cc PO 12/8

SEARS SOIL INVENTORY FORM

Completion Date: 11/26/97

Store Number 1639 City/State OAKLAND CA.

Accumulation Start Date 11/26/97

FDGTI Representative DeMarino

Soil Storage Location —

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

* IF DRUMS ARE GENERATED, COMPLETE PAGE 3 OF 3

SEARS DRUM INVENTORY FORM

Completion Date: 11/26/97

Store Number 1039 City/State Oakland CA.

FDGTI Representative Jeff Kuhn

THERE SHOULD NEVER BE 2 DRUMS WITH THE SAME DRUM ID PRESENT AT A SEARS STORE 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	11/26/97	Purge H2O	GW Wells	NO	55 GAL
B	11/26/97	Purge H2O	GW Wells	NO	30 GAL
C					
D					
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

1.	ORDANIEL GTI ARNOLD DR. SUITE D MARTINEZ CA. EILEEN BRENNAN
Attn: 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: standard
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. SAME AS #1+2

Send Report To: 1 or 2 (Circle one)

Client P.O. No.:

Client Project I.D. No.: 020200282.030543

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.	HYDROCARBON CHLORINATED 8010	BEX/MTBE [illegible]	TOTAL OIL AND GREASE	BTEX 8020							Comments / Hazards
	MW-1		11/26 12:10	GW	HCL/NONE	7	40mL	X	X									
	MW-3		12:20	↓	↓	7	40mL	X	X									
	MW-7		12:30		↓	7	40mL	X	X									
	MW-6		12:40		HCL	9	40mL LITER	X	X	X								
	MW-4		12:50			9	40mL LITER	X	X	X								
	MW-5		13:00			7	40mL	X	X									
	MW-2		13:10			7	40mL			X								
	DUP-MW2		97 13:13	↓	↓	1	40mL			X								
	TBLB																	

Relinquished by: (Signature) [signature]	DATE 11/26/97	TIME 14:05	Received by: (Signature) Gina Gillespie	DATE 11-26-97	TIME 1405
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 ____________

COPIES: WHITE - JOB FILE YELLOW - PROJECT FILE PINK - CLIENT

ATTACHMENT 4

Laboratory Reports and Chain-of-Custody Record

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172 AIHA Accreditation: 11134

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

ATTN: EILEEN BRENNAN
CLIENT PROJ. ID: 020200282 Sears 1039 Oakland

REPORT DATE: 12/17/97
DATE(S) SAMPLED: 11/26/97
DATE RECEIVED: 11/26/97
AEN WORK ORDER: 9711397

PROJECT SUMMARY:

On November 26, 1997, this laboratory received 9 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: 9711397-01
AEN WORK ORDER: 9711397
CLIENT PROJ. ID: 020200282

DATE SAMPLED: 11/26/97
DATE RECEIVED: 11/26/97
REPORT DATE: 12/17/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	**EPA 8020**				
Benzene	71-43-2	ND	0.5	ug/L	12/07/97
Toluene	108-88-3	ND	0.5	ug/L	12/07/97
Ethylbenzene	100-41-4	ND	0.5	ug/L	12/07/97
Xylenes, Total	1330-20-7	ND	2	ug/L	12/07/97
Purgeable HCs as Gasoline	5030/GCFID	ND	0.05	mg/L	12/07/97
Methyl t-Butyl Ether	1634-04-4	ND	5	ug/L	12/07/97
EPA 8010 - Water matrix	**EPA 8010**				
Bromodichloromethane	75-27-4	ND	0.5	ug/L	12/10/97
Bromoform	75-25-2	ND	0.5	ug/L	12/10/97
Bromomethane	74-83-9	ND	2	ug/L	12/10/97
Carbon Tetrachloride	56-23-5	ND	0.5	ug/L	12/10/97
Chlorobenzene	108-90-7	ND	0.5	ug/L	12/10/97
Chloroethane	75-00-3	ND	2	ug/L	12/10/97
Chloroform	67-66-3	ND	0.5	ug/L	12/10/97
Chloromethane	74-87-3	ND	2	ug/L	12/10/97
Dibromochloromethane	124-48-1	ND	0.5	ug/L	12/10/97
1,2-Dichlorobenzene	95-50-1	ND	0.5	ug/L	12/10/97
1,3-Dichlorobenzene	541-73-1	ND	0.5	ug/L	12/10/97
1,4-Dichlorobenzene	106-46-7	ND	0.5	ug/L	12/10/97
Dichlorodifluoromethane	75-71-8	ND	2	ug/L	12/10/97
1,1-Dichloroethane	75-34-3	ND	0.5	ug/L	12/10/97
1,2-Dichloroethane	107-06-2	ND	0.5	ug/L	12/10/97
1,1-Dichloroethene	75-35-4	ND	0.5	ug/L	12/10/97
cis-1,2-Dichloroethene	156-59-2	ND	0.5	ug/L	12/10/97
trans-1,2-Dichloroethene	156-60-5	ND	0.5	ug/L	12/10/97
1,2-Dichloropropane	78-87-5	ND	0.5	ug/L	12/10/97
cis-1,3-Dichloropropene	10061-01-5	ND	0.5	ug/L	12/10/97
trans-1,3-Dichloropropene	10061-02-6	ND	0.5	ug/L	12/10/97
Methylene Chloride	75-09-2	ND	2	ug/L	12/10/97
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5	ug/L	12/10/97
Tetrachloroethene	127-18-4	17 *	0.5	ug/L	12/10/97
1,1,1-Trichloroethane	71-55-6	ND	0.5	ug/L	12/10/97
1,1,2-Trichloroethane	79-00-5	ND	0.5	ug/L	12/10/97
Trichloroethene	79-01-6	ND	0.5	ug/L	12/10/97
Trichlorofluoromethane	75-69-4	ND	2	ug/L	12/10/97
1,1,2-Trichlorotrifluoroethan	76-13-1	ND	0.5	ug/L	12/10/97
Vinyl Chloride	75-01-4	ND	2	ug/L	12/10/97

FLUOR DANIEL GTI

SAMPLE ID: MW-1
AEN LAB NO: 9711397-01
AEN WORK ORDER: 9711397
CLIENT PROJ. ID: 020200282

DATE SAMPLED: 11/26/97
DATE RECEIVED: 11/26/97
REPORT DATE: 12/17/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED

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

FLUOR DANIEL GTI

SAMPLE ID: MW-3
AEN LAB NO: 9711397-02
AEN WORK ORDER: 9711397
CLIENT PROJ. ID: 020200282

DATE SAMPLED: 11/26/97
DATE RECEIVED: 11/26/97
REPORT DATE: 12/17/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	**EPA 8020**				
Benzene	71-43-2	ND	0.5	ug/L	12/07/97
Toluene	108-88-3	ND	0.5	ug/L	12/07/97
Ethylbenzene	100-41-4	ND	0.5	ug/L	12/07/97
Xylenes, Total	1330-20-7	ND	2	ug/L	12/07/97
Purgeable HCs as Gasoline	5030/GCFID	ND	0.05	mg/L	12/07/97
Methyl t-Butyl Ether	1634-04-4	ND	5	ug/L	12/07/97
EPA 8010 - Water matrix	**EPA 8010**				
Bromodichloromethane	75-27-4	ND	0.5	ug/L	12/10/97
Bromoform	75-25-2	ND	0.5	ug/L	12/10/97
Bromomethane	74-83-9	ND	2	ug/L	12/10/97
Carbon Tetrachloride	56-23-5	ND	0.5	ug/L	12/10/97
Chlorobenzene	108-90-7	ND	0.5	ug/L	12/10/97
Chloroethane	75-00-3	ND	2	ug/L	12/10/97
Chloroform	67-66-3	ND	0.5	ug/L	12/10/97
Chloromethane	74-87-3	ND	2	ug/L	12/10/97
Dibromochloromethane	124-48-1	ND	0.5	ug/L	12/10/97
1,2-Dichlorobenzene	95-50-1	ND	0.5	ug/L	12/10/97
1,3-Dichlorobenzene	541-73-1	ND	0.5	ug/L	12/10/97
1,4-Dichlorobenzene	106-46-7	ND	0.5	ug/L	12/10/97
Dichlorodifluoromethane	75-71-8	ND	2	ug/L	12/10/97
1,1-Dichloroethane	75-34-3	ND	0.5	ug/L	12/10/97
1,2-Dichloroethane	107-06-2	ND	0.5	ug/L	12/10/97
1,1-Dichloroethene	75-35-4	ND	0.5	ug/L	12/10/97
cis-1,2-Dichloroethene	156-59-2	ND	0.5	ug/L	12/10/97
trans-1,2-Dichloroethene	156-60-5	ND	0.5	ug/L	12/10/97
1,2-Dichloropropane	78-87-5	ND	0.5	ug/L	12/10/97
cis-1,3-Dichloropropene	10061-01-5	ND	0.5	ug/L	12/10/97
trans-1,3-Dichloropropene	10061-02-6	ND	0.5	ug/L	12/10/97
Methylene Chloride	75-09-2	ND	2	ug/L	12/10/97
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5	ug/L	12/10/97
Tetrachloroethene	127-18-4	7.9 *	0.5	ug/L	12/10/97
1,1,1-Trichloroethane	71-55-6	ND	0.5	ug/L	12/10/97
1,1,2-Trichloroethane	79-00-5	ND	0.5	ug/L	12/10/97
Trichloroethene	79-01-6	ND	0.5	ug/L	12/10/97
Trichlorofluoromethane	75-69-4	ND	2	ug/L	12/10/97
1,1,2-Trichlorotrifluoroethan	76-13-1	ND	0.5	ug/L	12/10/97
Vinyl Chloride	75-01-4	ND	2	ug/L	12/10/97

FLUOR DANIEL GTI

SAMPLE ID: MW-3
AEN LAB NO: 9711397-02
AEN WORK ORDER: 9711397
CLIENT PROJ. ID: 020200282

DATE SAMPLED: 11/26/97
DATE RECEIVED: 11/26/97
REPORT DATE: 12/17/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED

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: 9711397-03
AEN WORK ORDER: 9711397
CLIENT PROJ. ID: 020200282

DATE SAMPLED: 11/26/97
DATE RECEIVED: 11/26/97
REPORT DATE: 12/17/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	**EPA 8020**				
Benzene	71-43-2	3,100 *	5	ug/L	12/08/97
Toluene	108-88-3	15 *	5	ug/L	12/08/97
Ethylbenzene	100-41-4	190 *	5	ug/L	12/08/97
Xylenes, Total	1330-20-7	30 *	20	ug/L	12/08/97
Purgeable HCs as Gasoline	5030/GCFID	5.6 *	0.5	mg/L	12/08/97
Methyl t-Butyl Ether	1634-04-4	90 *	50	ug/L	12/08/97
EPA 8010 - Water matrix	**EPA 8010**				
Bromodichloromethane	75-27-4	ND	0.5	ug/L	12/10/97
Bromoform	75-25-2	ND	0.5	ug/L	12/10/97
Bromomethane	74-83-9	ND	2	ug/L	12/10/97
Carbon Tetrachloride	56-23-5	ND	0.5	ug/L	12/10/97
Chlorobenzene	108-90-7	ND	0.5	ug/L	12/10/97
Chloroethane	75-00-3	ND	2	ug/L	12/10/97
Chloroform	67-66-3	ND	0.5	ug/L	12/10/97
Chloromethane	74-87-3	ND	2	ug/L	12/10/97
Dibromochloromethane	124-48-1	ND	0.5	ug/L	12/10/97
1,2-Dichlorobenzene	95-50-1	0.7 *	0.5	ug/L	12/10/97
1,3-Dichlorobenzene	541-73-1	ND	0.5	ug/L	12/10/97
1,4-Dichlorobenzene	106-46-7	ND	0.5	ug/L	12/10/97
Dichlorodifluoromethane	75-71-8	ND	2	ug/L	12/10/97
1,1-Dichloroethane	75-34-3	ND	0.5	ug/L	12/10/97
1,2-Dichloroethane	107-06-2	120 *	0.5	ug/L	12/10/97
1,1-Dichloroethene	75-35-4	ND	0.5	ug/L	12/10/97
cis-1,2-Dichloroethene	156-59-2	1.0 *	0.5	ug/L	12/10/97
trans-1,2-Dichloroethene	156-60-5	ND	0.5	ug/L	12/10/97
1,2-Dichloropropane	78-87-5	ND	0.5	ug/L	12/10/97
cis-1,3-Dichloropropene	10061-01-5	ND	0.5	ug/L	12/10/97
trans-1,3-Dichloropropene	10061-02-6	ND	0.5	ug/L	12/10/97
Methylene Chloride	75-09-2	ND	2	ug/L	12/10/97
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5	ug/L	12/10/97
Tetrachloroethene	127-18-4	2.9 *	0.5	ug/L	12/10/97
1,1,1-Trichloroethane	71-55-6	ND	0.5	ug/L	12/10/97
1,1,2-Trichloroethane	79-00-5	ND	0.5	ug/L	12/10/97
Trichloroethene	79-01-6	5.9 *	0.5	ug/L	12/10/97
Trichlorofluoromethane	75-69-4	ND	2	ug/L	12/10/97
1,1,2-Trichlorotrifluoroethan	76-13-1	ND	0.5	ug/L	12/10/97
Vinyl Chloride	75-01-4	ND	2	ug/L	12/10/97

FLUOR DANIEL GTI

SAMPLE ID: MW-7
AEN LAB NO: 9711397-03
AEN WORK ORDER: 9711397
CLIENT PROJ. ID: 020200282

DATE SAMPLED: 11/26/97
DATE RECEIVED: 11/26/97
REPORT DATE: 12/17/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED

Reporting limits for BTEX elevated due to high levels of target compounds. Sample run at dilution.

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: 9711397-04
AEN WORK ORDER: 9711397
CLIENT PROJ. ID: 020200282

DATE SAMPLED: 11/26/97
DATE RECEIVED: 11/26/97
REPORT DATE: 12/17/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	15 *	0.5	ug/L	12/07/97
Toluene	108-88-3	0.9 *	0.5	ug/L	12/07/97
Ethylbenzene	100-41-4	9.1 *	0.5	ug/L	12/07/97
Xylenes, Total	1330-20-7	ND	2	ug/L	12/07/97
Purgeable HCs as Gasoline	5030/GCFID	0.32 *	0.05	mg/L	12/07/97
Methyl t-Butyl Ether	1634-04-4	7.6 *	5	ug/L	12/07/97
#Water Extrn for HCs		-		Extrn Date	12/04/97
Hydrocarbons (IR)	SM 5520F	ND	0.5	mg/L	12/07/97
Oil & Grease (IR)	SM 5520C	ND	0.5	mg/L	12/07/97
EPA 8010 - Water matrix	EPA 8010				
Bromodichloromethane	75-27-4	ND	0.5	ug/L	12/10/97
Bromoform	75-25-2	ND	0.5	ug/L	12/10/97
Bromomethane	74-83-9	ND	2	ug/L	12/10/97
Carbon Tetrachloride	56-23-5	ND	0.5	ug/L	12/10/97
Chlorobenzene	108-90-7	ND	0.5	ug/L	12/10/97
Chloroethane	75-00-3	ND	2	ug/L	12/10/97
Chloroform	67-66-3	ND	0.5	ug/L	12/10/97
Chloromethane	74-87-3	ND	2	ug/L	12/10/97
Dibromochloromethane	124-48-1	ND	0.5	ug/L	12/10/97
1,2-Dichlorobenzene	95-50-1	ND	0.5	ug/L	12/10/97
1,3-Dichlorobenzene	541-73-1	ND	0.5	ug/L	12/10/97
1,4-Dichlorobenzene	106-46-7	ND	0.5	ug/L	12/10/97
Dichlorodifluoromethane	75-71-8	ND	2	ug/L	12/10/97
1,1-Dichloroethane	75-34-3	ND	0.5	ug/L	12/10/97
1,2-Dichloroethane	107-06-2	0.8 *	0.5	ug/L	12/10/97
1,1-Dichloroethene	75-35-4	ND	0.5	ug/L	12/10/97
cis-1,2-Dichloroethene	156-59-2	ND	0.5	ug/L	12/10/97
trans-1,2-Dichloroethene	156-60-5	ND	0.5	ug/L	12/10/97
1,2-Dichloropropane	78-87-5	ND	0.5	ug/L	12/10/97
cis-1,3-Dichloropropene	10061-01-5	ND	0.5	ug/L	12/10/97
trans-1,3-Dichloropropene	10061-02-6	ND	0.5	ug/L	12/10/97
Methylene Chloride	75-09-2	ND	2	ug/L	12/10/97
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5	ug/L	12/10/97
Tetrachloroethene	127-18-4	1.2 *	0.5	ug/L	12/10/97
1,1,1-Trichloroethane	71-55-6	ND	0.5	ug/L	12/10/97
1,1,2-Trichloroethane	79-00-5	ND	0.5	ug/L	12/10/97
Trichloroethene	79-01-6	0.6 *	0.5	ug/L	12/10/97

FLUOR DANIEL GTI

SAMPLE ID: MW-6
AEN LAB NO: 9711397-04
AEN WORK ORDER: 9711397
CLIENT PROJ. ID: 020200282

DATE SAMPLED: 11/26/97
DATE RECEIVED: 11/26/97
REPORT DATE: 12/17/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Trichlorofluoromethane	75-69-4	ND	2	ug/L	12/10/97
1,1,2-Trichlorotrifluoroethan	76-13-1	ND	0.5	ug/L	12/10/97
Vinyl Chloride	75-01-4	ND	2	ug/L	12/10/97

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

FLUOR DANIEL GTI

SAMPLE ID: MW-4
AEN LAB NO: 9711397-05
AEN WORK ORDER: 9711397
CLIENT PROJ. ID: 020200282

DATE SAMPLED: 11/26/97
DATE RECEIVED: 11/26/97
REPORT DATE: 12/17/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	6.7 *	0.5	ug/L	12/07/97
Toluene	108-88-3	ND	0.5	ug/L	12/07/97
Ethylbenzene	100-41-4	ND	0.5	ug/L	12/07/97
Xylenes, Total	1330-20-7	ND	2	ug/L	12/07/97
Purgeable HCs as Gasoline	5030/GCFID	0.1 *	0.05	mg/L	12/07/97
Methyl t-Butyl Ether	1634-04-4	ND	5	ug/L	12/07/97
#Water Extrn for HCs		-		Extrn Date	12/04/97
Hydrocarbons (IR)	SM 5520F	ND	0.5	mg/L	12/07/97
Oil & Grease (IR)	SM 5520C	ND	0.5	mg/L	12/07/97
EPA 8010 - Water matrix	EPA 8010				
Bromodichloromethane	75-27-4	ND	0.5	ug/L	12/10/97
Bromoform	75-25-2	ND	0.5	ug/L	12/10/97
Bromomethane	74-83-9	ND	2	ug/L	12/10/97
Carbon Tetrachloride	56-23-5	ND	0.5	ug/L	12/10/97
Chlorobenzene	108-90-7	ND	0.5	ug/L	12/10/97
Chloroethane	75-00-3	ND	2	ug/L	12/10/97
Chloroform	67-66-3	ND	0.5	ug/L	12/10/97
Chloromethane	74-87-3	ND	2	ug/L	12/10/97
Dibromochloromethane	124-48-1	ND	0.5	ug/L	12/10/97
1,2-Dichlorobenzene	95-50-1	ND	0.5	ug/L	12/10/97
1,3-Dichlorobenzene	541-73-1	ND	0.5	ug/L	12/10/97
1,4-Dichlorobenzene	106-46-7	ND	0.5	ug/L	12/10/97
Dichlorodifluoromethane	75-71-8	ND	2	ug/L	12/10/97
1,1-Dichloroethane	75-34-3	ND	0.5	ug/L	12/10/97
1,2-Dichloroethane	107-06-2	ND	0.5	ug/L	12/10/97
1,1-Dichloroethene	75-35-4	ND	0.5	ug/L	12/10/97
cis-1,2-Dichloroethene	156-59-2	ND	0.5	ug/L	12/10/97
trans-1,2-Dichloroethene	156-60-5	ND	0.5	ug/L	12/10/97
1,2-Dichloropropane	78-87-5	ND	0.5	ug/L	12/10/97
cis-1,3-Dichloropropene	10061-01-5	ND	0.5	ug/L	12/10/97
trans-1,3-Dichloropropene	10061-02-6	ND	0.5	ug/L	12/10/97
Methylene Chloride	75-09-2	ND	2	ug/L	12/10/97
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5	ug/L	12/10/97
Tetrachloroethene	127-18-4	ND	0.5	ug/L	12/10/97
1,1,1-Trichloroethane	71-55-6	ND	0.5	ug/L	12/10/97
1,1,2-Trichloroethane	79-00-5	ND	0.5	ug/L	12/10/97
Trichloroethene	79-01-6	ND	0.5	ug/L	12/10/97

FLUOR DANIEL GTI

SAMPLE ID: MW-4
AEN LAB NO: 9711397-05
AEN WORK ORDER: 9711397
CLIENT PROJ. ID: 020200282

DATE SAMPLED: 11/26/97
DATE RECEIVED: 11/26/97
REPORT DATE: 12/17/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Trichlorofluoromethane	75-69-4	ND	2	ug/L	12/10/97
1,1,2-Trichlorotrifluoroethan	76-13-1	ND	0.5	ug/L	12/10/97
Vinyl Chloride	75-01-4	ND	2	ug/L	12/10/97

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: 9711397-06
AEN WORK ORDER: 9711397
CLIENT PROJ. ID: 020200282

DATE SAMPLED: 11/26/97
DATE RECEIVED: 11/26/97
REPORT DATE: 12/17/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	**EPA 8020**				
Benzene	71-43-2	78 *	0.5	ug/L	12/07/97
Toluene	108-88-3	4.5 *	0.5	ug/L	12/07/97
Ethylbenzene	100-41-4	0.6 *	0.5	ug/L	12/07/97
Xylenes, Total	1330-20-7	ND	2	ug/L	12/07/97
Purgeable HCs as Gasoline	5030/GCFID	0.4 *	0.05	mg/L	12/07/97
Methyl t-Butyl Ether	1634-04-4	ND	5	ug/L	12/07/97
EPA 8010 - Water matrix	**EPA 8010**				
Bromodichloromethane	75-27-4	ND	0.5	ug/L	12/10/97
Bromoform	75-25-2	ND	0.5	ug/L	12/10/97
Bromomethane	74-83-9	ND	2	ug/L	12/10/97
Carbon Tetrachloride	56-23-5	ND	0.5	ug/L	12/10/97
Chlorobenzene	108-90-7	ND	0.5	ug/L	12/10/97
Chloroethane	75-00-3	ND	2	ug/L	12/10/97
Chloroform	67-66-3	ND	0.5	ug/L	12/10/97
Chloromethane	74-87-3	ND	2	ug/L	12/10/97
Dibromochloromethane	124-48-1	ND	0.5	ug/L	12/10/97
1,2-Dichlorobenzene	95-50-1	ND	0.5	ug/L	12/10/97
1,3-Dichlorobenzene	541-73-1	ND	0.5	ug/L	12/10/97
1,4-Dichlorobenzene	106-46-7	ND	0.5	ug/L	12/10/97
Dichlorodifluoromethane	75-71-8	ND	2	ug/L	12/10/97
1,1-Dichloroethane	75-34-3	ND	0.5	ug/L	12/10/97
1,2-Dichloroethane	107-06-2	ND	0.5	ug/L	12/10/97
1,1-Dichloroethene	75-35-4	ND	0.5	ug/L	12/10/97
cis-1,2-Dichloroethene	156-59-2	ND	0.5	ug/L	12/10/97
trans-1,2-Dichloroethene	156-60-5	ND	0.5	ug/L	12/10/97
1,2-Dichloropropane	78-87-5	ND	0.5	ug/L	12/10/97
cis-1,3-Dichloropropene	10061-01-5	ND	0.5	ug/L	12/10/97
trans-1,3-Dichloropropene	10061-02-6	ND	0.5	ug/L	12/10/97
Methylene Chloride	75-09-2	ND	2	ug/L	12/10/97
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5	ug/L	12/10/97
Tetrachloroethene	127-18-4	ND	0.5	ug/L	12/10/97
1,1,1-Trichloroethane	71-55-6	ND	0.5	ug/L	12/10/97
1,1,2-Trichloroethane	79-00-5	ND	0.5	ug/L	12/10/97
Trichloroethene	79-01-6	ND	0.5	ug/L	12/10/97
Trichlorofluoromethane	75-69-4	ND	2	ug/L	12/10/97
1,1,2-Trichlorotrifluoroethan	76-13-1	ND	0.5	ug/L	12/10/97
Vinyl Chloride	75-01-4	ND	2	ug/L	12/10/97

FLUOR DANIEL GTI

SAMPLE ID: MW-5
AEN LAB NO: 9711397-06
AEN WORK ORDER: 9711397
CLIENT PROJ. ID: 020200282

DATE SAMPLED: 11/26/97
DATE RECEIVED: 11/26/97
REPORT DATE: 12/17/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED

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: 9711397-07
AEN WORK ORDER: 9711397
CLIENT PROJ. ID: 020200282

DATE SAMPLED: 11/26/97
DATE RECEIVED: 11/26/97
REPORT DATE: 12/17/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	**EPA 8020**				
Benzene	71-43-2	380 *	3	ug/L	12/08/97
Toluene	108-88-3	5 *	3	ug/L	12/08/97
Ethylbenzene	100-41-4	9 *	3	ug/L	12/08/97
Xylenes, Total	1330-20-7	12 *	10	ug/L	12/08/97
Purgeable HCs as Gasoline	5030/GCFID	1.2 *	0.3	mg/L	12/08/97
Methyl t-Butyl Ether	1634-04-4	ND	30	ug/L	12/08/97
EPA 8010 - Water matrix	**EPA 8010**				
Bromodichloromethane	75-27-4	ND	0.5	ug/L	12/10/97
Bromoform	75-25-2	ND	0.5	ug/L	12/10/97
Bromomethane	74-83-9	ND	2	ug/L	12/10/97
Carbon Tetrachloride	56-23-5	ND	0.5	ug/L	12/10/97
Chlorobenzene	108-90-7	ND	0.5	ug/L	12/10/97
Chloroethane	75-00-3	ND	2	ug/L	12/10/97
Chloroform	67-66-3	ND	0.5	ug/L	12/10/97
Chloromethane	74-87-3	ND	2	ug/L	12/10/97
Dibromochloromethane	124-48-1	ND	0.5	ug/L	12/10/97
1,2-Dichlorobenzene	95-50-1	ND	0.5	ug/L	12/10/97
1,3-Dichlorobenzene	541-73-1	ND	0.5	ug/L	12/10/97
1,4-Dichlorobenzene	106-46-7	ND	0.5	ug/L	12/10/97
Dichlorodifluoromethane	75-71-8	ND	2	ug/L	12/10/97
1,1-Dichloroethane	75-34-3	ND	0.5	ug/L	12/10/97
1,2-Dichloroethane	107-06-2	29 *	0.5	ug/L	12/10/97
1,1-Dichloroethene	75-35-4	ND	0.5	ug/L	12/10/97
cis-1,2-Dichloroethene	156-59-2	3.1 *	0.5	ug/L	12/10/97
trans-1,2-Dichloroethene	156-60-5	ND	0.5	ug/L	12/10/97
1,2-Dichloropropane	78-87-5	ND	0.5	ug/L	12/10/97
cis-1,3-Dichloropropene	10061-01-5	ND	0.5	ug/L	12/10/97
trans-1,3-Dichloropropene	10061-02-6	ND	0.5	ug/L	12/10/97
Methylene Chloride	75-09-2	ND	2	ug/L	12/10/97
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5	ug/L	12/10/97
Tetrachloroethene	127-18-4	0.6 *	0.5	ug/L	12/10/97
1,1,1-Trichloroethane	71-55-6	ND	0.5	ug/L	12/10/97
1,1,2-Trichloroethane	79-00-5	ND	0.5	ug/L	12/10/97
Trichloroethene	79-01-6	13 *	0.5	ug/L	12/10/97
Trichlorofluoromethane	75-69-4	ND	2	ug/L	12/10/97
1,1,2-Trichlorotrifluoroethan	76-13-1	ND	0.5	ug/L	12/10/97
Vinyl Chloride	75-01-4	ND	2	ug/L	12/10/97

FLUOR DANIEL GTI

SAMPLE ID: MW-2
AEN LAB NO: 9711397-07
AEN WORK ORDER: 9711397
CLIENT PROJ. ID: 020200282

DATE SAMPLED: 11/26/97
DATE RECEIVED: 11/26/97
REPORT DATE: 12/17/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED

Reporting limits for BTEX elevated due to high

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

FLUOR DANIEL GTI

SAMPLE ID: DUP MW-2
AEN LAB NO: 9711397-08
AEN WORK ORDER: 9711397
CLIENT PROJ. ID: 020200282

DATE SAMPLED: 11/26/97
DATE RECEIVED: 11/26/97
REPORT DATE: 12/17/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
EPA 8020 for BTEX	**EPA 8020**				
Benzene	71-43-2	360 *	3	ug/L	12/10/97
Toluene	108-88-3	8 *	3	ug/L	12/10/97
Ethylbenzene	100-41-4	8 *	3	ug/L	12/10/97
Xylenes, Total	1330-20-7	13 *	10	ug/L	12/10/97
Methyl t-Butyl Ether	1634-04-4	ND	30	ug/L	12/10/97

Reporting limits for BTEX elevated due to high

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

FLUOR DANIEL GTI

SAMPLE ID: TBLB
AEN LAB NO: 9711397-09
AEN WORK ORDER: 9711397
CLIENT PROJ. ID: 020200282

DATE SAMPLED: 11/26/97
DATE RECEIVED: 11/26/97
REPORT DATE: 12/17/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
EPA 8020 for BTEX	**EPA 8020**				
Benzene	71-43-2	0.6 *	0.5	ug/L	12/11/97
Toluene	108-88-3	ND	0.5	ug/L	12/09/97
Ethylbenzene	100-41-4	ND	0.5	ug/L	12/09/97
Xylenes, Total	1330-20-7	ND	2	ug/L	12/09/97
Methyl t-Butyl Ether	1634-04-4	ND	5	ug/L	12/09/97

Benzene result is a possible laboratory contaminant.
Insufficient sample submitted to reanalyze.

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

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9711397
CLIENT PROJECT ID: 020200282

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: Oil & Grease (IR)

MATRIX: Water

METHOD BLANK SAMPLES

SAMPLE TYPE: Blank-Method/Media blank
INSTRUMENT: IR Spectrophotometer
UNITS: mg/L
METHOD:
LAB ID: BLNK-1204-1
PREPARED: 12/04/97
ANALYZED: 12/07/97
INSTR RUN: IR\971204000000/1/
BATCH ID: IRW120497-1
DILUTION: 1.000000

ANALYTE	RESULT	REF RESULT	REPORTING LIMIT	SPIKE VALUE	RECOVERY (%)	REC LIMITS (%) LOW	REC LIMITS (%) HIGH	RPD (%)	RPD LIMIT (%)
Motor Oil	ND		0.5						

LABORATORY CONTROL SAMPLES

SAMPLE TYPE: Laboratory Control Spike
INSTRUMENT: IR Spectrophotometer
UNITS: mg/L
METHOD:
LAB ID: LCDW-1204-1
PREPARED: 12/04/97
ANALYZED: 12/07/97
INSTR RUN: IR\971204000000/3/1
BATCH ID: IRW120497-1
DILUTION: 1.000000

ANALYTE	RESULT	REF RESULT	REPORTING LIMIT	SPIKE VALUE	RECOVERY (%)	REC LIMITS (%) LOW	REC LIMITS (%) HIGH	RPD (%)	RPD LIMIT (%)
Motor Oil	7.68	ND	0.5	7.50	102	73	112		

SAMPLE TYPE: Laboratory Control Spike
INSTRUMENT: IR Spectrophotometer
UNITS: mg/L
METHOD:
LAB ID: LCSW-1204-1
PREPARED: 12/04/97
ANALYZED: 12/07/97
INSTR RUN: IR\971204000000/2/1
BATCH ID: IRW120497-1
DILUTION: 1.000000

ANALYTE	RESULT	REF RESULT	REPORTING LIMIT	SPIKE VALUE	RECOVERY (%)	REC LIMITS (%) LOW	REC LIMITS (%) HIGH	RPD (%)	RPD LIMIT (%)
Motor Oil	7.33	ND	0.5	7.50	97.7	73	112		

LABORATORY CONTROL DUPLICATES

SAMPLE TYPE: Laboratory Control Sample Duplicate
INSTRUMENT: IR Spectrophotometer
UNITS: mg/L
METHOD:
LAB ID: LCRW-1204-1
PREPARED: 12/04/97
ANALYZED: 12/07/97
INSTR RUN: IR\971204000000/4/2
BATCH ID: IRW120497-1
DILUTION: 1.000000

ANALYTE	RESULT	REF RESULT	REPORTING LIMIT	SPIKE VALUE	RECOVERY (%)	REC LIMITS (%) LOW	REC LIMITS (%) HIGH	RPD (%)	RPD LIMIT (%)
Motor Oil	7.68	7.33	0.5					4.66	15

QUALITY CONTROL DATA

METHOD: EPA 8010

AEN JOB NO: 9711397
INSTRUMENT: G
MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery: Bromochloro-methane	Percent Recovery: 1-Bromo-3-chloro-propane
12/10/97	MW-1	01	98	120
12/10/97	MW-3	02	104	116
12/10/97	MW-7	03	100	125
12/10/97	MW-6	04	103	123
12/10/97	MW-4	05	104	124
12/10/97	MW-5	06	97	113
12/10/97	MW-2	07	77	97
QC Limits:			70-130	70-130

DATE ANALYZED: 12/09/97
SAMPLE SPIKED: LCS
INSTRUMENT: G

Laboratory Control Sample Recovery

Analyte	Spike Added (ug/L)	Percent Recovery	RPD	QC Limits: Percent Recovery	QC Limits: RPD
1,1-Dichloroethene	25	75	3	70-130	20
Trichloroethene	25	84	2	70-130	20
Chlorobenzene	25	88	8	70-130	20

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

QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9711397
INSTRUMENT: F
MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery Fluorobenzene
12/07/97	MW-1	01	99
12/07/97	MW-3	02	99
12/07/97	MW-7	03	103
12/07/97	MW-6	04	100
12/07/97	MW-4	05	99
12/07/97	MW-5	06	97
12/07/97	MW-2	07	97
12/10/97	DUP-MW2	08	97
12/09/97	TBLB	09	102
QC Limits:			70-130

DATE ANALYZED: 12/07/97
SAMPLE SPIKED: LCS
INSTRUMENT: F

Laboratory Control Sample Recovery

Analyte	Spike Added (ug/L)	Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
Benzene	100	107	11	70-130	20
Toluene	100	113	8	70-130	20
Ethylbenzene	100	115	6	70-130	20
Total Xylenes	300	118	7	70-130	20

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

*** END OF REPORT ***

American Environmental Network **AEN**

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

R-3, S-2
R-1, S-F

REQUEST FOR ANALYSIS / CHAIN OF CUSTODY

1. Client: FLUOR DANIEL GTI
Address: 757 ARNOLD DR. SUITE D MARTINEZ CA.
Contact: EILEEN BRENNEN
Alt. Contact:

Lab Job Number: 9711397
Lab Destination:
Date Samples Shipped:
Lab Contact:
Date Results Required: Standard
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. SAME AS #1+2

Send Report To: (1) or 2 (Circle one)

Client P.O. No.:
Client Project I.D. No.: 020200282.030593

Sample Team Member (s) Hector Merino

ANALYSIS: HYDROCARBON (A); CHLORINATED BIO (B); BREWED/BEHYDHG (C); TOTAL OIL & GREASE (D); BTEX 8020 (E)

Lab Number	Client Sample Identification	Air Volume	Date/ Time Collected	Sample Type*	Pres.	No. of Cont.	Type of Cont.	A	B	C	D	E	Comments / Hazards
01	MW-1		11/26 12:10	GW	HCl/None	7	40mL	X	X				
02	MW-3		12:20			7	40mL	X	X				
03	MW-7		12:30			7	40mL	X	X				
04	MW-6		12:40		HCL	9	40mL Liter	X	X	X			
05	MW-4		12:50			9	40mL Liter	X	X	X			
06	MW-5		13:00			7	40mL	X	X				
07	MW-2		13:10			7	40mL			X			MW-2 Dup &
08	DUP-MW2		13:13			1	40mL			X			Trip Blank for
09	TBLB		97			1							Volatiles -8010 or BTEX? T. Obyas

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	DATE	TIME
[signature]	11/26/97	14:05	Gina Gillespie	11-26-97	1405

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 ____

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