d/14172



January 27, 1993

ENSR Consulting and Engineering 14715 N. E. 95th St. Suite 200 Redmond, WA 98052 (206) 881-7700 (206) 883-4473 (FAX)

Ms. Jane Smith 6th Infantry Division Light, DPW APVR-DE-PSE Fort Richardson, AK 99505

Re: Fort Richardson and Fort Greely Groundwater Monitoring Well Network Sampling
Results

Dear Jane,

Enclosed please find the summarized results of the groundwater sampling conducted in October and November, 1992. These tables present the concentrations of all compounds detected in the groundwater samples. A short narrative follows on the findings for each fort.

Fort Richardson

Only one sample was found that exceeded the drinking water standards for the tested constituents. Benzene was detected in monitoring well AP-2987 (Building 35-752) at 170 micro grams per liter ($\mu g/l$) (160 $\mu g/l$ in the duplicate sample), this concentration exceeds the 5 $\mu g/l$ Maximum Contaminant Level (Safe Drinking Water Act). In addition, this concentration exceeds the Toxicity Characteristic Leaching Procedure (TCLP) limit of 70 $\mu g/l$, therefore the purge water should be considered a hazardous waste (D-019). Because PCBs were found in soil removed from behind building 35-752, all monitoring wells in the vicinity of this building (AP-2982 to AP-2987) were screened for PCBs. No PCBs were detected above the method detection limit of 1 $\mu g/l$.

The purge water from monitoring well AP-2987, currently stored in Fort Richardson's hazardous waste storage area, should be disposed of as a D-019 (benzene) hazardous waste. The purge water from monitoring well AP-2983 can be disposed of in an oil water separator. The groundwater from monitoring wells AP-2982, AP-2984, AP-2985, and AP-2986 was not analyzed for benzene concentrations. It is ENSR's recommendation that the drums containing the purge water from these wells be sampled and analyzed for benzene and disposed of properly. If DPW does not wish to sample each drum, all drums should be disposed of as a D-019 hazardous waste. Previous sampling results indicate that only the groundwater from monitoring well AP-2982, would likely fail the TCLP limits and be considered a hazardous waste.

During the field sampling several potential problems were noted. Monitoring wells AP-2974 (at the Power Plant) and monitoring well AP-2980 (at building 702) have been damaged and cannot be used. It was reported to ENSR personnel that these wells were to be used as part of Fort Richardson's release detection system for underground storage tanks. If this is still the case, these wells should be replaced or an alternate means of leak detection



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installed. Regardless of the use, the existing wells should be abandoned in accordance with state regulations.

Overall the number and the concentrations of the compounds detected in the groundwater, during this sampling round, do not appear to have not changed significantly from those detected during the 1990 Corps of Engineers sampling events.

Fort Greely

Only one sample was found that exceeded the drinking water standards for the tested constituents. Lead was detected in the groundwater supply well at KD Complex at 140 μ g/l (200 μ g/l in the duplicate sample), this concentration exceeds the 50 μ g/l Maximum Contaminant Level (18 AAC 80.070) for drinking water from public water systems. This concentration may be due in part to the lack of use of the system. The results of this sampling round should be compared to the results of any previous sampling round. If similar results are not seen, DPW may want to collect and analyze an additional groundwater sample from this well to confirm the presence of lead.

Overall the number and the concentrations of the compounds detected in the groundwater, during this sampling round, have not changed significantly from those detected during the 1990 Corps of Engineers sampling events.

At this time ENSR does not have a copy of the 1991 Corps of Engineers sampling report. Data from this report is required to help establish the statistical mean of the compound concentrations in the groundwater and to perform a statistical analysis of the data. The mean value would be used to help determine if a statistical analysis should be performed. If these data are available, please provide a copy.

If you have any questions, please call me at (206) 881-7700.

Sincerely,

Bob Wilson

Project Manager

/BW (BW1/L-APVR)

Enclosures

CC:

Mr. Pat Ligon, TVA - Muscle Shoals, AL

Mr. Dennis McCrumb, ENSR-Redmond, WA

TR 0019121

Well Number	FR-3	FR-5 (rin)	FR-2	FR-4 (rin)	AP-2974	AP-2970 (rin)
ATI Sample Number	9211-074-16	9211-074-17	9210-221-1	9210-221-15	9210-221-2	9210-221-17
Date of Sampling	11/03/92	11/03/92	10/22/92	10/22/92	10/25/92	10/25/92
Organic Analytes						
Volatile Organics						
Date of Analysis	11/15/92	11/15/92	10/29/92	10/30/92	11/04/92	11/02/92
Benzene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Carbon Disulfide	N.D.	N.D.	N.D.	N.D.	4.6ug/l	4.6ug/i
1,1-Dichloroethane	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Ethylbenzene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Methylene Chloride	N.D.	N.D.	N.D.	40ug/l	N.D.	N.D.
Toluene	2ug/l	N.D.	N.D.	N.D.	N.D.	N.D.
1,1,1-Trichloroethane	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Trichloroethane	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Total Xylenes	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Date of Analysis	11/08/92	11/08/92	11/02/92	11/02/92	11/02/92	11/02/92
Gasoline Range Organics	11mg/l	N.D.	N.D.	N.D.	N.D.	N.D.
Date of Analysis	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
PCBs	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Metals-Date of Analysis						
Arsenic-11/01/92	N.A.	N.A.	N.A.	N.A.	0.0099mg/l	N.D.
Barium 11/09/92	N.A.	N.A.	N.A.	N.A.	0.65mg/l	N.D.
Cadmium-11/09/92	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
Chromium-11/09/92	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
Lead-10/31/92	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
Mercury-11/05/92	N,A,	N.A.	N.A.	N.A.	N.D.	N.D.
Selenium-11/01/92	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
Silver-11/09/92	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.

Well Number	AP-2982	AP-2983	AP-2980 (rin)	AP-2984	AP-2985	AP-2986
ATI Sample Number	9210-221-3	9210-221-4	9210-221-18	9210-221-5	9210-221-6	9210-221-7
Date of Sampling	10/24/92	10/24/92	10/24/92	10/24/92	10/24/92	10/24/92
Organic Analytes						
Volatile Organics						
Date of Analysis	N.A.	11/04/92	11/04/92	N.A.	N.A.	N.A.
Benzene	N.A.	N.D.	N.D.	N.A.	N.A.	N.A.
Carbon Disulfide	N.A.	N.D.	N.D.	N.A.	N.A	N.A.
1,1-Dichloroethane	N.A.	N.D.	N.D.	N.A.	N.A.	N.A.
Ethylbenzene	N.A.	N.D.	N.D.	N.A.	N.A.	N.A.
Methylene Chloride	N.A.	N.D.	N.D.	N.A.	N.A.	N.A.
Toluene	N.A.	N.D.	N.D.	N.A.	N.A.	N.A
1,1,1-Trichloroethane	N.A.	N.D.	N.D.	N.A.	N.A.	N.A.
Trichloroethane	N.A.	N.D.	N.D.	N.A.	N.A.	N.A.
Total Xylenes	N.A.	N.D.	N.D.	N.A.	N.A	N.A.
Date of Analysis	N.A.	11/02/92	11/02/92	N.A	N.A.	N.A.
Gasoline Range Organics	N.A.	N.D.	N.D.	N.A	N.A.	N.A.
Date of Analysis	11/04/92	11/04/92	11/04/92	11/04/92	11/04/92	11/04/92
PCBs	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Metals					. 4	
Arsenic-11/01/92	N.A.	N.D.	N.D.	N.A	N.A.	N.A.
Barium - 11/09/92	N.A.	N.D.	N.D.	N.A.	N.A.	N.A.
Cadmium-11/09/92	N.A.	N.D.	N.D.	N.A.	N.A.	N.A
Chromium-11/09/92	N.A.	N.D.	N.D.	N.A.	N.A.	N.A
Lead-10/31/92	N.A.	0.0032mg/l	N.D.	N.A.	N.A.	N.A.
Mercury-11/05/92	N.A.	N.D.	N.D.	N.A.	N.A.	N.A.
Selenium-11/01/92	N.A.	N.D.	N.D.	N.A.	N.A.	N.A.
Silver-11/09/92	N.A.	N.D.	N.D.	N.A.	N.A.	N.A.

Well Number	SW-1	AP-2987	AP-2981 (dup)	SW-3	SW-5 (rin)	TW-1
ATI Sample Number	9210-221-9	9210-221-8	9210-221-19	9210-221-10	9210-221-16	9210-221-20
Date of Sampling	10/23/92	10/24/92	10/24/92	10/23/92	10/23/92	10/26/92
Organic Analysis						
Volatile Organics						
Date of Analysis	10/30/92	10/31/92	11/01/92	10/30/92	11/01/92	11/04/92
Benzene	N.D.	170ug/l	160ug/l	N.D.	N.D.	N.D.
Carbon Disulfide	N.D.	N.D.	N.D.	N.D.	5.8ug/l	N.D.
1,1-Dichloroethane	N.D.	4ug/l	3ug/l	N.D.	N.D.	N.D.
Ethylbenzene	N.D.	86ug/l	86ug/l	N.D.	N.D.	N.D.
Methylene Chloride	28ug/l	N.D.	N.D.	31ug/l	N.D.	N.D.
Toluene	N.D.	370ug/l	390ug/l	N.D.	N.D.	N.D.
1,1,1-Trichloroethane	N.D.	10ug/l	10ug/l	N.D.	N.D.	N.D.
Trichloroethane	N.D.	3ug/l	3ug/l	N.D.	N.D.	N.D.
Total Xylenes	N.D.	340ug/l	330ug/l	N.D.	N.D.	N.D.
Date of Analysis	11/02/92	11/02/92	11/02/92	11/02/92	11/02/92	11/02/92
Gasoline Range Organics	N.D.	1.4mg/l	1.5mg/l	N.D.	N.D.	N.D.
Date of Analysis	N.A.	11/04/92	11/04/92	N.A.	N.A.	N.A.
PCBs	N.A.	N.D.	N.D.	N.A.	N.A.	N.A.
Metals						
Arsenic-11/01/92	N.D.	N.D.	0.0064mg/l	N.D.	N.D.	N.D.
Barium-11/09/92	N.D.	0.014mg/l	0.015mg/l	N.D.	N.D.	N.D.
Cadmium-11/09/92	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium-11/09/92	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Lead-10/31/92	N.D.	N.D.	N.D.	0.0090mg/l	0.0041mg/l	N.D.
Mercury-11/05/92	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Selenium-11/01/92	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Silver-11/09/92	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

Well Number	ADFG C	ADFG E	ADFG K	ADFG 9
ATI Sample Number	9210-221-11	9210-221-12	9210-221-13	9210-221-14
Date of Sampling	10/23/92	10/23/92	10/23/92	10/23/92
Organic Analysis				
Volatile Organics				
Date of Analysis	10/31/92	11/01/92	10/31/92	10/31/92
Benzene	N.D.	N.D.	N.D.	N.D.
Carbon Disulfide	N.D.	N.D.	N.D.	N.D.
1,1-Dichloroethane	N.D.	N.D.	N.D.	N.D.
Ethylbenzene	N.D.	N.D.	N.D.	N.D.
Methylene Chloride	N.D.	N.D.	N.D.	N.D.
Toluene	N.D.	N.D.	N.D.	N.D.
1,1,1-Trichloroethane	N.D.	N.D.	N.D.	N.D.
Trichloroethane	N.D.	N.D.	N.D.	N.D.
Total Xylenes	N.D.	N.D.	N.D,	N.D.
Date of Analysis	11/02/92	11/02/92	11/02/92	11/02/92
Gasoline Range Organics	N.D.	N.D.	N.D.	N.D.
Date of Analysis	N.A.	N.A.	N.A.	N.A.
PCBs	N.A.	N.A.	Ñ.A.	N.A.
Metals				
Arsenic-11/01/92	N.D.	N.D.	N.D.	N.D.
Barium-11/09/92	N.D.	N.D.	N.D.	N.D.
Cadmium - 11/09/92	N.D.	N.D.	N.D.	N.D.
Chromium-11/09/92	N.D.	N.D.	N.D.	N.D.
Lead-10/31/92	0.0032mg/l	0.024mg/l	0.0038mg/l	0.0041mg/l
Mercury-11/05/92	N.D.	N.D.	N.D.	N.D.
Selenium - 11/01/92	N.D.	N.D.	N.D.	N.D.
Silver-11/09/92	N.D.	N.D.	N.D.	N.D.

Data Validation of Groundwater Monitoring at Fort Greely, Alaska

Well Number	Well A	Well B (dup)	Well C	Well D-1	Well F (rin)	E-1	Well 1
ATI Sample Number	9211-043-1	9211-043-2	9211-043-3	9211-043-4	9211-043-24	9211-043-5	9211-043-7
Date of Sampling	10/31/92	10/31/92	10/31/92	10/31/92	10/31/92	10/30/92	10/30/92
Organic Analytes							
Volatile Organics							
Date of Analysis	11/11/92	11/11/92	11/12/92	11/12/92	11/02/92	11/07/92	11/08/92
Benzene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Carbon Disulfide	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Chloroform	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Methylene Chloride	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Toluene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
1,1,1-Trichloroethane	N.D.	N.D.	N.D.	N.D.	N.D.	2.0ug/l	N.D.
Total Xylenes	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Date of Analysis	11/08/92	11/08/92	11/08/92	11/08/92	11/10/92	11/08/92	11/08/92
Gasoline Range Organics	N.D.	0.1mg/l	N.D.	N.D.	N.D.	N.D.	N.D.
Date of Analysis	11/08/92	11/08/92	11/08/92	11/08/92	11/09/92	11/08/92	11/09/92
Diesel Range Organics	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Metals-Date of Analysis							
Arsenic-11/15,19/92	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Barium-11/13,16/92	0.056mg/l	0.056mg/l	0.075mg/l	0.067mg/l	N.D.	0.059mg/l	0.046mg/l
Cadmium-11/13,16/92	N.D.	N.D.	N.D.	N.D.	N.D.	· N.D.	N.D.
Chromium-11/13,16/92	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Lead-11/15,20/92	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury-11/16,19/92	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Selenium-11/19/92	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Silver-11/13,16/92	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Radionucleides (pCi/l)							
Gross Alpha-11/19/92	N.A.	N.A.	N.A.	0.40+/-0.62	<0.19 (BDL)	N.A.	N.A.
Gross Beta-11/19/92	N.A.	N.A.	N.A.	5.15+/-1.43	0.28+/-0.73	N.A.	N.A.
Radium 226-11/24/92	N.A.	N.A.	N.A.	<1.2 (BDL)	<1.1 (BDL)	N.A.	N.A.
Radium 228-11/24/92	N.A.	N.A.	N.A.	<2.8 (BDL)	<2.9 (BDL)	N.A.	N.A.
Total Radium - 12/09/92	N.A.	N.A.	N.A.	0.35+/-0.23	1.17+/-0.31	N.A.	N.A.

Data Validation of Groundwater Monitoring at Fort Greely, Alaska

Well Number	E-2	F-3 (rin)	Well 4	Well 6	Well 8	Well 9	Well 11
ATI Sample Number	9211-043-6	9211-043-25	9211-043-8	9211-043-9	9211-043-10	9211-043-11	9211-043-12
Date of Sampling	11/01/92	11/01/92	10/30/92	10/30/92	10/30/92	10/30/92	10/30/92
Organic Analytes							
Volatile Organics							
Date of Analysis	11/13/92	11/11/92	11/10/92	11/10/92	11/10/92	11/11/92	11/11/92
Benzene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Carbon Disulfide	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Chloroform	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Methylene Chloride	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Toluene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
1,1,1-Trichloroethane	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Total Xylenes	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Date of Analysis	11/08/92	11/10/92	11/08/92	11/08/92	11/08/92	11/09/92	11/09/92
Gasoline Range Organics	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Date of Analysis	11/08/92	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92
Diesel Range Organics	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Metals—Date of Analysis							
Arsenic-11/15,19/92	N.D.	N.R.	N.D.	N.D.	N.D.	N.D.	N.D.
Barium-11/13,16/92	0.045mg/l	N.R	0.050mg/l	0.057mg/l	0.043mg/l	0.043mg/l	0.043mg/l
Cadmium - 11/13,16/92	N.D.	N.R.	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium-11/13,16/92	N.D.	N.R.	N.D.	N.D.	N.D.	N.D.	N.D.
Lead-11/15,20/92	0.0049mg/l	N.R.	N.D.	N.D.	N.D.	0.0034mg/l	N.D.
Mercury-11/16,19/92	N.D.	N.R.	N.D.	N.D.	N.D.	N.D.	N.D.
Selenium-11/19/92	N.D.	N.R.	N.D.	N.D.	N.D.	N.D.	N.D.
Silver-11/13,16/92	N.D.	N.R.	N.D.	N.D.	N.D.	N.D.	N.D.
Radionucleides (pCi/l)							
Gross Alpha-11/19/92	<0.25 (BDL)	N.A.	N.A.	N.A.	<0.28 (BDL)	<0.26 (BDL)	N.A.
Gross Beta-11/19/92	2.72+/-1.24	N.A.	N.A.	N.A.	8.12+/-1.65	3.67+/-1.33	N.A.
Radium 226-11/24/92	<1.6 (BDL)	N.A.	N.A.	N.A.	<2.0 (BDL)	<1.6 (BDL)	N.A.
Radium 228-11/24/92	<4.1 (BDL)	N.A.	N.A.	N.A.	<3.8 (BDL)	<3.2 (BDL)	N.A.
Total Radium-12/09/92	0.34+/-0.23	N.A.	N.A.	N.A.	<0.20 (BDL)	<0.19 (BDL)	N.A.

Data Validation of Groundwater Monitoring at Fort Greely, Alaska

Well Number	SW-BR	SW-TR	MW-1	MW-2	SW-WA (rin)	MW-3
ATI Sample Number	9211-043-13	9211-043-14	9211-043-16	9211-043-17	9211-043-15	9211-043-18
Date of Sampling	10/28/92	10/29/92	10/29/92	10/29/92	10/29/92	10/29/92
Organic Analytes						
Volatile Organics						
Date of Analysis	11/05/92	11/07/92	11/07/92	11/07/92	11/07/92	11/07/92
Benzene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Carbon Disulfide	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Chloroform	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Methylene Chloride	6.0ug/l	N.D.	N.D.	N.D.	N.D.	N.D.
Toluene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
1,1,1-Trichloroethane	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Total Xylenes	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Date of Analysis	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92
Gasoline Range Organics	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Date of Analysis	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92
Diesel Range Organics	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Metals—Date of Analysis						
Arsenic-11/15,19/92	N,D.	N.D.	N.D.	N. D.	N.D.	N.D.
Barium-11/13,16/92	0.066mg/l	0.035mg/l	0.016mg/l	0.036mg/l	N.D.	0.023mg/l
Cadmium-11/13,16/92	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium - 11/13,16/92	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Lead-11/15,20/92	N.D.	N.D.	0.0121mg/l	N.D.	N.D.	N.D.
Mercury-11/16,19/92	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Selenium-11/19/92	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Silver-11/13,16/92	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Radionucleides (pCi/l)						
Gross Alpha-11/19/92	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Gross Beta-11/19/92	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Radium 226-11/24/92	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Radium 228-11/24/92	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Total Radium-12/09/92	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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Data Validation of Groundwater Monitoring at Fort Greely, Alaska

Well Number	SW-BL	SW-GA (rin)	SW-KD	SW-MI (dup)	SW-AR
ATI Sample Number	9211-043-19	9211-043-23	9211-043-20	9211-043-22	9211-043-21
Date of Sampling	10/28/92	10/28/92	10/28/92	10/28/92	10/28/92
Organic Analytes					
Volatile Organics					
Date of Analysis	11/05/92	11/07/92	11/06/92	11/06/92	11/06/92
2-Butanone	120ug/l	N.D.	N.D.	N.D.	N.D.
Carbon Disulfide	N.D.	6ug/l	4ug/l	4ug/l	N.D.
Chloroform	5ug/l	N.D.	N.D.	N.D.	N.D.
Methylene Chloride	6ug/l	N.D.	N.D.	N.D.	N.D.
Toluene	2ug/l	N.D.	N.D.	N.D.	N.D.
1,1,1-Trichloroethane	N.D.	N.D.	N.D.	N.D.	N.D.
Total Xylenes	2ug/l	N.D.	N.D.	N.D.	N.D.
Date of Analysis	11/09/92	11/10/92	11/09/92	11/10/92	11/09/92
Gasoline Range Organics	N.D.	N.D.	N.D.	N.D.	N.D.
Date of Analysis	11/09/92	11/09/92	11/08/92	11/09/92	11/09/92
Diesel Range Organics	N.D.	N.D.	N.D.	N.D.	N.D.
Metals—Date of Analysis					
Arsenic-11/15,19/92	N.D.	N.D.	N.D.	N.D.	N.D.
Barium - 11/13,16/92	0.044mg/l	N.D.	0.053mg/l	0.054mg/l	0.041mg/l
Cadmium-11/13,16/92	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium - 11/13,16/92	N.D.	N.D.	N.D.	N.D.	N.D.
Lead-11/15,20/92	0.0071mg/l	N.D.	0.14mg/l	0.20mg/l	0,011mg/l
Mercury-11/16,19/92	N.D.	N.D.	N.D.	N.D.	N.D.
Selenium-11/19/92	N.D.	N.D.	N.D.	N.D.	N.D.
Silver-11/13,16/92	N.D.	N.D.	N.D.	N.D.	N.D.
Radionucleides (pCi/l)					
Gross Alpha-11/19/92	N.A.	N.A.	N.A.	N.A.	N.A.
Gross Beta-11/19/92	N.A.	N.A.	N.A.	N.A.	N.A.
Radium 226-11/24/92	N.A.	N.A.	N.A.	N.A.	N.A.
Radium 228-11/24/92	N.A.	N.A.	N.A.	N.A.	N.A.
Total Radium-12/09/92	N.A.	N.A.	N.A.	N.A.	N.A.

NA = Not Applicable; ND = Not Detected; BDL = Below Detection Limit