

# Appendix A

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## Summary of Analytical Data

**A.1**  
**Historical Soil Data Summary (1987-1996)**



Historical Soil Data

Parameter	Sample Location ID Date of Sampling Samplers Data Source Sampling Interval (ft bgs) Units	ITW-3	ITW-6	ITW-8	ITW-10	ITW-12	ITW-13	ITW-16	ITW-17	ITW-18	ITF-3	ITB-1	ITB-2	ITB-3	ITB-4
		1985 IT CORP IT RI '87 2-4	1985 IT CORP IT RI '87 4-6	1985 IT CORP IT RI '87 2-4 4-6	1985 IT CORP IT RI '87 2-4 4-6	1985 IT CORP IT RI '87 2-4 4-6	1985 IT CORP IT RI '87 4-6	1985 IT CORP IT RI '87 0-2 2-4 4-6	1985 IT CORP IT RI '87 2-4	1985 IT CORP IT RI '87 2-4	1985 IT CORP IT RI '87 DMS	1985 IT CORP IT RI '87 0.2-2.2 2.2-4.2	1985 IT CORP IT RI '87 0-2 2-4 8.5-10.5	1985 IT CORP IT RI '87 0.2-2.2 2.2-4.2	1985 IT CORP IT RI '87 0.2-2.2 4-6
<b>Pine Tar Indicators</b>	ppm														
a-Pinene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Camphene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-
p-Cymene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Limonene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-
gamma terpinene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-
fenchone	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-
d-camphor	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	ppm	ND	ND	ND	ND	6	8.9	ND	ND	7.7	ND	ND	ND	ND	ND
2,5&3,4 dimethyl phenol	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2 ally phenol	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-methylphenol	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-methylphenol	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,4-methylphenol	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-methylnaphthalene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-methylnaphthalene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-o-cresol	ppm	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ppm	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ppm	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol (acid extractable)	ppm	ND	7.4	ND	ND	8.9	2.8	ND	ND	ND	ND	ND	ND	ND	ND



Historical Soil Data

Sample Location ID Date of Sampling Samplers Data Source Sampling Interval (ft bgs) Units	ITB-5 1985 IT CORP IT RI '87			ITB-6 1985 IT CORP IT RI '87			ITB-7 1985 IT CORP IT RI '87			ITB-8 1985 IT CORP IT RI '87			ITB-9 1985 IT CORP IT RI '87		ITB-10 1985 IT CORP IT RI '87		ITB-11 1985 1985 1985 IT CORP IT RI '87			ITB-14 1985 IT CORP IT RI '87				SB-1 6/9/1992 WESTON Weston '92					SB-2 6/9/1992 WESTON Weston '92															
	0-2	2-4	8.5-10	0-2	2-4	4-6	0-2	2-4	8.5-10	2-4	4-6	8.5-10	0-2	8.5-10	2-4	4-6	0-2	2-4	8.5-10.5	0-2	4-6	8.5-10	4-6	0-2	2-4	4-6	6-8	8-10	0-2	2-4	4-6	6-8	8-10											
<b>Pine Tar Indicators</b>	ppm																																											
a-Pinene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Camphene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
p-Cymene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Limonene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
gamma terpinene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
fenchone	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
d-camphor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2,4-Dimethylphenol	ND	ND	ND	ND	ND	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
2,5&3,4 dimethyl phenol	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
2 ally phenol	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
2-methylphenol	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
4-methylphenol	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
3,4-methylphenol	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1-methylnaphthalene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-methylnaphthalene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4,6-Dinitro-o-cresol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol (acid extractable)	ND	ND	ND	ND	ND	9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	



Historical Soil Data

Parameter	Sample Location ID Date of Sampling Samplers Data Source Sampling Interval (ft bgs) Units	SB-3 6/9/1992 WESTON Weston '92					SB-4 6/9/1992 WESTON Weston '92					SB-5 6/9/1992 WESTON Weston '92					SO-049 1988\1989 Hunter/ESE RI/RA '89			SO-048 1988\1989 Hunter/ESE RI/RA '89			SO-047 1988\1989 Hunter/ESE RI/RA '89			SO-046 1988\1989 Hunter/ESE RI/RA '89			SO-050 1988\1989 Hunter/ESE RI/RA '89		
		0-2	2-4	4-6	6-8	8-10	0-2	2-4	4-6	6-8	8-10	0-2	2-4	4-6	6-8	8-10	0-2	2-4	6-10	2-4	4-6	6-10	0-2	4-6	6-10	0-2	4-6	6-10	2-4	4-6	6-10
<b>Pine Tar Indicators</b>	ppm																														
a-Pinene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Camphene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
p-Cymene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Limonene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
gamma terpinene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
fenchone	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
d-camphor	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	ppm	ND	220	370	ND	ND	ND	ND	91	13.6	60	ND	115	50	78	81	ND	ND	ND	28	52	1.9	ND	ND	89	ND	ND	ND	ND	ND	ND
2,5&3,4 dimethyl phenol	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2 ally phenol	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-methylphenol	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-methylphenol	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,4-methylphenol	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-methylnaphthalene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-methylnaphthalene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-o-creosol	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol (acid extractable)	ppm	ND	ND	280	74	82	ND	ND	60	19.1	44	ND	ND	ND	29	27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND





Historical Soil Data

Parameter	Sample Location ID Date of Sampling Samplers Data Source Sampling Interval (ft bgs) Units	SO-053 1988\1989 Hunter/ESE RI/RA '89			SO-055 1988\1989 Hunter/ESE RI/RA '89			SO-054 1988\1989 Hunter/ESE RI/RA '89			SO-056 1988\1989 Hunter/ESE RI/RA '89			SO-051 1988\1989 Hunter/ESE RI/RA '89			SO-052 1988\1989 Hunter/ESE RI/RA '89			SO-064 1988\1989 Hunter/ESE RI/RA '89			SO-057 1988\1989 Hunter/ESE RI/RA '89			SO-058 1988\1989 Hunter/ESE RI/RA '89			SO-059 1988\1989 Hunter/ESE RI/RA '89		
		0-2	2-4	6-10	2-4	4-6	6-10	0-2	4-6	6-10	0-2	4-6	6-10	0-2	4-6	6-10	0-2	4-6	6-10	0-2	2-4	6-10	0-2	6-8	8-10	2-4	4-6	6-10	0-2	4-6	6-10
Pine Tar Indicators	ppm																														
a-Pinene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Camphene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
p-Cymene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Limonene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
gamma terpinene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
fenchone	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
d-camphor	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
2,4-Dimethylphenol	ppm	ND	ND	89	ND	200	82	93	36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
2,5&3,4 dimethyl phenol	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
2 ally phenol	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
2-methylphenol	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
4-methylphenol	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
3,4-methylphenol	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
1-methylnaphthalene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
2-methylnaphthalene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
4,6-Dinitro-o-creosol	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
2,4-Dinitrophenol	ppm	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Pentachlorophenol	ppm	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Phenol (acid extractable)	ppm	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

Historical Soil Data

Parameter	Sample Location ID Date of Sampling Samplers Data Source Sampling Interval (ft bgs) Units	SO-060 1988\1989 Hunter/ESE RI/RA '89			SO-061 1988\1989 Hunter/ESE RI/RA '89			NWL-SB7A 1996 ERM Upchurch '96	43L-SB12A 1996 ERM Upchurch '96	AWP-SB21B 1996 ERM Upchurch '96	AWP-SB21C 1996 ERM Upchurch '96	EDD-SB23A 1996 ERM Upchurch '96	AST-SB33A 1996 ERM Upchurch '96	PTP-SB43B 1996 ERM Upchurch '96	BS-SB5B 1996 ERM Upchurch '96	BH-SB55A 1996 ERM Upchurch '96	CP-SB57A 1996 ERM Upchurch '96	RP-SB63B 1996 ERM Upchurch '96	RP-SB64A 1996 ERM Upchurch '96
		2-4	4-6	6-10	0-2	4-6	8-12	4-6	4-6	1-2	4-6	4-6	6-7	4-6	4-6	5-7	4-6	5-7	4.5-5
<b>Total Metals</b>	ppm																		
Arsenic	ppm	0.211	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	ppm	1.9	3.51	3.81	3.51	14	2.79	-	-	-	-	-	-	-	-	-	-	-	-
Copper	ppm	6.42	0.97	1.06	4.05	1.83	1.3	-	-	-	-	-	-	-	-	-	-	-	-
<b>Volatile Organic Compounds (VOCs)</b>	ppm																		
Benzene	ppm	-	-	-	-	-	-	8.1	ND	16	9.6	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ppm	-	-	-	-	-	-	160	190	350	300	14	ND	12	ND	ND	ND	3.1	6.8
Ethyl Benzene	ppm	-	-	-	-	-	-	45	86	130	91	19	ND	11	ND	ND	ND	8.6	25
Total Xylenes	ppm	-	-	-	-	-	-	81	270	330	130	77	ND	27	ND	ND	ND	19	42
Styrene	ppm	-	-	-	-	-	-	12	24	36	17	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ppm	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ppm	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	ppm	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethylene	ppm	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ppm	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	ppm	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ppm	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Volatile Organics	ppm																		
<b>Semi-Volatile Organic Compounds (SVOCs)</b>	ppm																		
Acenaphthene	ppm	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ppm	ND	ND	ND	ND	ND	ND	ND	3.5	ND	ND	ND	1.4	ND	12	ND	ND	26	21
Anthracene	ppm	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20	ND	ND	ND	16	ND
Benzidine	ppm	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)Anthracene	ppm	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ppm	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ppm	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(ghi)perylene	ppm	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	ppm	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzylphthalate	ppm	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	ppm	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethylphthalate	ppm	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate	ppm	-	-	-	-	-	-	ND	ND	ND	ND	ND	2.7	ND	ND	ND	ND	ND	ND
Fluoranthene	ppm	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	ppm	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15	ND	ND	ND	14	ND
Indeno(1,2,3-cd)pyrene	ppm	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	ppm	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-methylnaphthalene	ppm	-	-	-	-	-	-	8.8	7.8	22	5.8	14	4	55	37	ND	ND	39	34
2-methylnaphthalene	ppm	-	-	-	-	-	-	13	11	35	5.4	19	5.3	71	48	ND	ND	51	47
Naphthalene	ppm	ND	ND	ND	ND	ND	ND	9.6	4.5	19	ND	16	5.1	41	41	ND	ND	49	45
N-nitrosodiphenylamine	ppm	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ppm	ND	ND	ND	ND	ND	ND	20	5.8	53	ND	4.2	4.2	85	26	ND	ND	68	84
Pyrene	ppm	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ppm	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ppm	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	ppm	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-chloronaphthalene	ppm	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octylphthalate	ppm	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Semivolatile Organic	ppm																		

Historical Soil Data

Parameter	Sample Location ID Date of Sampling Samplers Data Source Sampling Interval (ft bgs) Units	SO-060 1988\1989 Hunter/ESE RI/RA '89			SO-061 1988\1989 Hunter/ESE RI/RA '89			NWL-SB7A 1996 ERM Upchurch '96	43L-SB12A 1996 ERM Upchurch '96	AWP-SB21B 1996 ERM Upchurch '96	AWP-SB21C 1996 ERM Upchurch '96	EDD-SB23A 1996 ERM Upchurch '96	AST-SB33A 1996 ERM Upchurch '96	PTP-SB43B 1996 ERM Upchurch '96	BS-SB5B 1996 ERM Upchurch '96	BH-SB55A 1996 ERM Upchurch '96	CP-SB57A 1996 ERM Upchurch '96	RP-SB63B 1996 ERM Upchurch '96	RP-SB64A 1996 ERM Upchurch '96
		2-4	4-6	6-10	0-2	4-6	8-12	4-6	4-6	1-2	4-6	4-6	6-7	4-6	4-6	5-7	4-6	5-7	4.5-5
<b>Pine Tar Indicators</b>	ppm																		
a-Pinene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Camphene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
p-Cymene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Limonene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
gamma terpinene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
fenchone	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
d-camphor	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	ppm	ND	ND	ND	ND	ND	ND	ND	ND	72	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,5&3,4 dimethyl phenol	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2 ally phenol	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-methylphenol	ppm	-	-	-	-	-	-	43	11	ND	ND	ND	ND	110	ND	ND	ND	ND	ND
4-methylphenol	ppm	-	-	-	-	-	-	81	21	ND	48	ND	ND	220	ND	ND	ND	ND	ND
3,4-methylphenol	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-methylnaphthalene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-methylnaphthalene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-o-creosol	ppm	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ppm	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ppm	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol (acid extractable)	ppm	ND	ND	ND	ND	ND	ND	63	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Historical Soil Data

Parameter	Sample Location ID Date of Sampling Samplers Data Source Sampling Interval (ft bgs) Units	FR-SB74	UST-SB89A	RET-SB92	RV-SB94B	SEA-SB97A	HOLE 1C										
		1996 ERM Upchurch '96 3-4	1996 ERM Upchurch '96 4-6	1996 ERM Upchurch '96 6-6.5	1996 ERM Upchurch '96 4-6	1996 ERM Upchurch '96 4	1982 Univ. FI Zoltek '82	0-5	5-8	10-14	14-15	15-19	19-20	25-35	30-34	30-35	
<b>Total Metals</b>	ppm																
Arsenic	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Volatile Organic Compounds (VOCs)</b>	ppm																
Benzene	ppm	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-
Toluene	ppm	0.62	ND	9.2	27	ND	-	-	-	-	-	-	-	-	-	-	-
Ethyl Benzene	ppm	0.92	ND	28	11	ND	-	-	-	-	-	-	-	-	-	-	-
Total Xylenes	ppm	1.2	ND	60	19	ND	-	-	-	-	-	-	-	-	-	-	-
Styrene	ppm	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-
Chloroform	ppm	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	ppm	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethylene	ppm	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethylene	ppm	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	ppm	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-
Trichloroethylene	ppm	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	ppm	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-
Total Volatile Organics	ppm																
<b>Semi-Volatile Organic Compounds (SVOCs)</b>	ppm																
Acenaphthene	ppm	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	ppm	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-
Anthracene	ppm	ND	ND	0.76	0.41	ND	-	-	-	-	-	-	-	-	-	-	-
Benzidine	ppm	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)Anthracene	ppm	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	ppm	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ppm	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-
Benzo(ghi)perylene	ppm	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-
Bis(2-ethylhexyl)phthalate	ppm	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate	ppm	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-
Chrysene	ppm	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-
Diethylphthalate	ppm	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate	ppm	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	ppm	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-
Fluorene	ppm	ND	ND	1	0.85	ND	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ppm	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-
Isophorone	ppm	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-
1-methylnaphthalene	ppm	ND	ND	7.9	4.4	ND	-	-	-	-	-	-	-	-	-	-	-
2-methylnaphthalene	ppm	5.6	ND	10	6	ND	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	ppm	ND	ND	12	5.3	ND	-	-	-	-	-	-	-	-	-	-	-
N-nitrosodiphenylamine	ppm	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	ppm	9.5	ND	3.6	1.7	ND	-	-	-	-	-	-	-	-	-	-	-
Pyrene	ppm	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	ppm	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ppm	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	ppm	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-
2-chloronaphthalene	ppm	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-
Di-n-octylphthalate	ppm	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-
Total Semivolatile Organic	ppm																

Historical Soil Data

Parameter	Sample Location ID Date of Sampling Samplers Data Source Sampling Interval (ft bgs) Units	FR-SB74	UST-SB89A	RET-SB92	RV-SB94B	SEA-SB97A	HOLE 1C										
		1996 ERM Upchurch '96 3-4	1996 ERM Upchurch '96 4-6	1996 ERM Upchurch '96 6-6.5	1996 ERM Upchurch '96 4-6	1996 ERM Upchurch '96 4	1982 Univ. FI Zoltek '82	0-5	5-8	10-14	14-15	15-19	19-20	25-35	30-34	30-35	
<b>Pine Tar Indicators</b>	ppm																
a-Pinene	ppm	-	-	-	-	-	66.24	285.5	224.4	26.48	73.51	45.7	8.56	5.8	ND		
Camphene	ppm	-	-	-	-	-	85.5	274	173.6	33.8	69.69	40.1	9.1	5.9	ND		
p-Cymene	ppm	-	-	-	-	-	116.4	207	186.2	30.02	71.16	39.46	11.3	9.52	0.2		
Limonene	ppm	-	-	-	-	-	454.7	919.5	807.3	116.9	332.6	187.5	34.04	29.24	0.8		
gamma terpinene	ppm	-	-	-	-	-	9.1	37.3	ND	8.3	8.3	5.2	1.9	ND	ND		
fenchone	ppm	-	-	-	-	-	65	90.6	60.9	0.4	28.6	15.3	ND	6	0.7		
d-camphor	ppm	-	-	-	-	-	51.3	78.5	61.7	2.8	27.2	15	ND	4.8	ND		
2,4-Dimethylphenol	ppm	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-
2,5&3,4 dimethyl phenol	ppm	-	-	-	-	-	124.1	179.6	124.7	4.9	81.1	47.1	3.6	17.9	0.3		
2 ally phenol	ppm	-	-	-	-	-	*	9.5	*	ND	3.6	4.3	0.4	0.6	ND		
2-methylphenol	ppm	ND	ND	ND	ND	ND	44.5	54.1	27.6	2.6	21.9	11.3	3.6	6.4	1.1		
4-methylphenol	ppm	ND	ND	ND	13	ND	-	-	-	-	-	-	-	-	-	-	-
3,4-methylphenol	ppm	-	-	-	-	-	97.3	101.3	52.1	ND	46	23.1	7.1	13.5	2.9		
1-methylnaphthalene	ppm	-	-	-	-	-	14.2	18	12.9	4.5	5.3	3	1.1	0.8	ND		
2-methylnaphthalene	ppm	-	-	-	-	-	10.6	14.4	10	3.3	4.2	2.4	ND	0.9	ND		
4,6-Dinitro-o-cresol	ppm	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	ppm	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	ppm	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-
Phenol (acid extractable)	ppm	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-

Historical Soil Data

Parameter	Sample Location ID Date of Sampling Samplers Data Source Sampling Interval (ft bgs) Units	HOLE 2 1982 Univ. FI Zoltek '82						HOLE 3 1982 Univ. FI Zoltek '82	HOLE 4A 1982 Univ. FI Zoltek '82			HOLE 5A 1982 Univ. FI Zoltek '82						HOLE 6 1982 Univ. FI Zoltek '82						HOLE 7 1982 Univ. FI Zoltek '82								
		0-5	5-10	10-15	15-20	20-25	25-30	20-25	5-7	8-10	20-21.5	0-5	5-10	10-15	15-20	20-25	25-30	30	0-5	5-10	10-15	15-20	19-20	20-25	24	25-30	29.5-30	0.5-2.5	10-12.5	37.5-40		
<b>Total Metals</b>	ppm																															
Arsenic	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Volatile Organic Compounds (VOCs)</b>	ppm																															
Benzene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethyl Benzene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Xylenes	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethylene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethylene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethylene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Volatile Organics	ppm																															
<b>Semi-Volatile Organic Compounds (SVOCs)</b>	ppm																															
Acenaphthene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benazidine	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)Anthracene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(ghi)perylene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bis(2-ethylhexyl)phthalate	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diethylphthalate	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-methylnaphthalene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-methylnaphthalene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-nitrosodiphenylamine	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-chloronaphthalene	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-octylphthalate	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Semivolatile Organic	ppm																															

Historical Soil Data

Parameter	Sample Location ID Date of Sampling Samplers Data Source Sampling Interval (ft bgs) Units	HOLE 2 1982 Univ. FI Zoltek '82						HOLE 3 1982 Univ. FI Zoltek '82	HOLE 4A 1982 Univ. FI Zoltek '82			HOLE 5A 1982 Univ. FI Zoltek '82						HOLE 6 1982 Univ. FI Zoltek '82							HOLE 7 1982 Univ. FI Zoltek '82					
		0-5	5-10	10-15	15-20	20-25	25-30	20-25	5-7	8-10	20-21.5	0-5	5-10	10-15	15-20	20-25	25-30	30	0-5	5-10	10-15	15-20	19-20	20-25	24	25-30	29.5-30	0.5-2.5	10-12.5	37.5-40
<b>Pine Tar Indicators</b>	ppm																													
a-Pinene	ppm	5.1	15.5	0.42	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.55	22.6	6.2	1.1	2.89	8.83	3.31	1.29	0.1	ND	ND	ND	
Camphene	ppm	4.45	3.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	88.5	117.3	37.25	6.17	3.5	7.9	5.62	1.3	0.14	ND	ND	ND	
p-Cymene	ppm	28.84	15.7	0.391	ND	0.3	ND	ND	ND	0.4	ND	ND	ND	7.6	ND	0.4	ND	270	301.2	150.8	29	9.3	25.2	10.05	5.72	0.2	0.3	ND	0.6	
Limonene	ppm	18.82	10.5	0.24	ND	1	0.4	*	0.1	4.8	ND	0.6	ND	ND	1.7	ND	ND	52.5	663.1	249.8	46.6	28.7	67.7	30.46	14.8	1.15	2.9	ND	3.3	
gamma terpinene	ppm	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
fenchone	ppm	ND	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.1	ND	0.5	ND	35.2	0.6	19.3	4.2	3.2	0.8	0.1	4.1	0.3	ND	ND	ND	
d-camphor	ppm	1.1	17.4	ND	0.9	0.9	1.2	ND	ND	1.5	ND	ND	ND	31.7	*	1.5	0.1	67.2	115.2	35.6	7.7	4.1	13.9	6.4	3.2	0.5	ND	ND	4.4	
2,4-Dimethylphenol	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2,5&3,4 dimethyl phenol	ppm	138.2	62.6	0.4	0.8	0.7	3.5	ND	ND	ND	ND	ND	ND	0.4	31.2	0.9	0.3	0.6	19.9	234.1	88.8	21.4	0.4	9.6	2.1	0.1	0.2	ND	*	ND
2 ally phenol	ppm	4.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*	ND	0.2	ND	6.9	29.4	45.8	*	2.1	10.3	ND	2.6	0.1	ND	ND	ND	
2-methylphenol	ppm	177.9	34.1	5.6	ND	ND	2.6	ND	ND	ND	ND	ND	ND	12.2	0.7	0.8	0.5	ND	21	7.5	3.1	3.6	25.1	11.8	7.1	0.5	ND	ND	ND	
4-methylphenol	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,4-methylphenol	ppm	4.2	183.2	ND	ND	ND	9.4	ND	ND	ND	ND	ND	ND	24	ND	2.1	ND	ND	ND	16.1	6.6	8.1	49	2	6.8	1.2	ND	ND	ND	
1-methylnaphthalene	ppm	1.8	0.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.8	ND	ND	ND	43.2	73.5	26.2	5.4	3.4	7.9	3.5	1.9	0.1	ND	ND	ND	
2-methylnaphthalene	ppm	1.6	0.9	6.6	ND	ND	3.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	81.3	144.8	53	8.8	6.5	15.5	6.4	3.6	0.2	ND	ND	ND	
4,6-Dinitro-o-cresol	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol (acid extractable)	ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

-: not analyzed

ND: not detected above reporting limit

ppm = parts per million

\*: concentration needs to be calculated manually

Detection limits were not readily available in several of the source documents used to compile this table.

DMS: Drilling Mud Samples

Data Sources:

IT Corporation, 1987 (May). Remedial Investigation Report. Cabot Carbon/Koppers Company Site, Gainesville, Florida. ("IT RI '87")

Weston, 1992 (August). Analytical Results from Sampling in the Suspect Lagoon Area. Eastern Portion of the Cabot Carbon/Koppers Superfund Site, Gainesville, Florida. ("Weston '92")

Hunter/ESE, 1989 (September). Remedial Investigation/Risk Assessment at the Cabot Carbon/Koppers Site, Gainesville, Florida. Volumes I, II and III. ("RI/RA '89")

Upchurch (ERM-South, Inc.), 1996 (December). Summary of Findings and Opinions With Respect to the Pending Litigation Cabot Corporation v. Beazer East, Inc., et al. Gainesville, Florida. ("Upchurch '96")

Zoltek, John Jr., John J McCreary, et al. 1982 (April). Toxic Wastes & Phenolic Groundwater in the Upper Hogtown Creek Region. Department of Environmental Engineering Sciences, University of Florida, Gainesville. ("Zoltek '82")



**A.2**  
**Pre-remedy (Pre-1995) Groundwater Data Summary**

**Summary of Pre-Remedial Action Groundwater Data  
Eastern Site, Gainesville, Florida**

Well Designation	Parameters	IT Corp 1987 Results (µg/L) (1)	Hunter/ESE 1989 Results (µg/L) (2)	WESTON June 1992 Results (µg/L) (3)	WESTON October 1992 Results (µg/L) (3)	WESTON January 1993 Results (µg/L) (3)	WESTON April 1993 Results (µg/L) (3)	WESTON July 1993 Results (µg/L) (3)	WESTON October 1993 Results (µg/L) (3)	WESTON January 1994 Results (µg/L) (3)	WESTON April 1994 Results (µg/L) (3)	WESTON July 1994 Results (µg/L) (3)	WESTON October 1994 Results (µg/L) (3)	WESTON January 1995 Results (µg/L) (3)	WESTON April 1995 Results (µg/L) (3)	ROD Cleanup Goal (µg/L)
ITW-1	Chromium	110	60.4	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	*100
ITW-2	Chromium	100	124	39	NS	ND	NS	ND	NS	8	NS	ND	NS	ND	NS	*100
ITW-3	Chromium	40	NS	11	10	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	*100
ITW-4	Chromium	110	45.1	10	9	27	ND	ND	NS	7	ND	ND	ND	23	ND	*100
	Naphthalene	40	35	30	27	17	27	31	NS	5.8	25	58	81	46	25	18
	Acenaphthylene	ND	<1.0	11	13	ND	ND	17	NS	ND	16	7.7	13	8	5.7	130
	Acenaphthene	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	2	3.5	ND	ND	260
	Benzene	140	ND	20	52	20	24	11	NS	21	20	26	25	9.2	8	1
ITW-5	Chromium	<140	47.1	42	NS	26	8	14	26	5	ND	ND	6	6	5	*100
	Arsenic	73	NS	56	NS	65	43	45	48	45	38	34	50	43	46	50
	PCP	30	120	300	NS	980	690	1,500	890	730	1,100	580	550	440	ND	0.1
	Phenol	ND	65	30	NS	750	990	2,600	2,000	1,850	2,600	1,200	900	700	1,200	2,630
	Naphthalene	1,600	1,000	500	NS	860	2,700	1,300	1,200	900	1,500	1,600	1,600	1,500	670	18
	Acenaphthylene	18	12	44	NS	ND	48	ND	34	69	59	73	74	100	20	130
	Acenaphthene	370	540	ND	NS	190	ND	440	ND	ND	220	460	530	610	320	260
	Fluorene	340	210	180	NS	ND	ND	ND	330	300	320	380	470	450	240	323
	Phenanthrene	290	280	160	NS	ND	130	ND	ND	210	280	300	380	320	200	130
	Anthracene	25	17	12	NS	ND	ND	ND	ND	ND	29	22	31	20	15	1,310
	Benzene	<10	ND	4.8	NS	4.3	4.4	4.7	5	0.8	4.1	4.6	ND	5.7	4.6	1

The data presented in this table represents only those compounds that have been detected above detection limit in groundwater samples from the indicated wells.

- (1) Please see Table 6 of Remedial Investigation Report, Cabot Carbon/Koppers Site Vol. 1 (IT Corp., 1987) for analytical detection limits of individual compounds.
- (2) Please see Appendix B of Remedial Investigation/Risk Assessment at the Cabot Carbon/Koppers Site, Gainesville, Florida Vol. 3 (Hunter/ESE, 1989).
- (3) Please see individual groundwater report for analytical detection limits of compounds for different sampling events.

All results are in µg/L.

µg/L = micrograms per liter.

MDL = laboratory method detection limit.

ND = not detected above the MDL.

NS = not sampled for indicated compound.

\* The new EPA MCL for chromium is 100 µg/L. As per the ROD, this new MCL replaces the previous cleanup goals of 50 µg/L.

\*\* Cleanup goal for indicated compound has not been established.

+ Analytical results from January 1994 are suspect. Past groundwater data review indicates sample bottles may have been mislabeled.

++ Sampled only for BTEX constituents.

**Summary of Pre-Remedial Action Groundwater Data  
Eastern Site, Gainesville, Florida**

Well Designation	Parameters	IT Corp 1987 Results (µg/L) (1)	Hunter/ESE 1989 Results (µg/L) (2)	WESTON June 1992 Results (µg/L) (3)	WESTON October 1992 Results (µg/L) (3)	WESTON January 1993 Results (µg/L) (3)	WESTON April 1993 Results (µg/L) (3)	WESTON July 1993 Results (µg/L) (3)	WESTON October 1993 Results (µg/L) (3)	WESTON January 1994 Results (µg/L) (3)	WESTON April 1994 Results (µg/L) (3)	WESTON July 1994 Results (µg/L) (3)	WESTON October 1994 Results (µg/L) (3)	WESTON January 1995 Results (µg/L) (3)	WESTON April 1995 Results (µg/L) (3)	ROD Cleanup Goal (µg/L)	
ITW-6	Chromium	170	NS	170	110	NS	NS	NS	NS	NS	NS	7	NS	NS	NS	*100	
	Naphthalene	1,700	NS	1,100	580	NS	NS	NS	NS	NS	NS	450	NS	NS	NS	18	
	Acenaphthylene	ND	ND	ND	ND	NS	NS	NS	NS	NS	NS	11	NS	NS	NS	130	
	Acenaphthene	ND	ND	ND	ND	NS	NS	NS	NS	NS	NS	90	NS	NS	NS	260	
	Fluorene	200	NS	73	ND	NS	NS	NS	NS	NS	NS	83	NS	NS	NS	323	
	Phenanthrene	32	NS	19	ND	NS	NS	NS	NS	NS	NS	NS	28	NS	NS	NS	130
	Anthracene	<10	NS	2	ND	NS	NS	NS	NS	NS	NS	NS	2	NS	NS	NS	1,310
Benzene	<10	NS	1.2	1.5	NS	NS	NS	NS	NS	NS	NS	1	NS	NS	NS	1	
ITW-7	Chromium	280	NS	110	82	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	*100	
	Arsenic	23	NS	57	ND	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	50	
	Acenaphthylene	10	NS	ND	11	NS	NS	NS	NS	NS	NS	7.4	NS	NS	NS	130	
	Acenaphthene	ND	ND	ND	ND	NS	NS	NS	NS	NS	NS	2.7	NS	NS	NS	260	
	Fluorene	ND	ND	ND	ND	NS	NS	NS	NS	NS	NS	3.3	NS	NS	NS	323	
	Phenanthrene	ND	ND	ND	ND	NS	NS	NS	NS	NS	NS	0.4	NS	NS	NS	130	
	Anthracene	ND	ND	ND	ND	NS	NS	NS	NS	NS	NS	0.4	NS	NS	NS	1,310	
Total Potentially Carcinogenic PAHs	ND	NS	0.8	ND	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	0.003	
Benzene	25	NS	14	12	NS	NS	NS	NS	NS	NS	NS	16	NS	NS	NS	1	
ITW-8	Chromium	80	NS	7	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	*100	
	Arsenic	1	NS	ND	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	50	
	Phenol	890	NS	720	NS	NS	NS	NS	NS	NS	NS	350	NS	NS	NS	2,630	
	Naphthalene	48	NS	15	NS	NS	NS	NS	NS	NS	NS	8.2	NS	NS	NS	18	
	Acenaphthylene	ND	NS	73	NS	NS	NS	NS	NS	NS	NS	100	NS	NS	NS	130	
	Acenaphthene	ND	ND	ND	NS	NS	NS	NS	NS	NS	NS	22	NS	NS	NS	260	
	Fluorene	ND	ND	ND	NS	NS	NS	NS	NS	NS	NS	1.2	NS	NS	NS	323	
Benzene	40	NS	ND	NS	NS	NS	NS	NS	47	NS	NS	31	NS	NS	NS	1	
ITW-9	Chromium	170	NS	14	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	*100	
	Arsenic	4	NS	ND	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	50	
	Naphthalene	ND	ND	ND	NS	NS	NS	NS	NS	NS	NS	30	NS	NS	NS	18	
	Acenaphthylene	ND	ND	ND	NS	NS	NS	NS	NS	NS	NS	120	NS	NS	NS	130	
	Acenaphthene	ND	ND	ND	NS	NS	NS	NS	NS	NS	NS	54	NS	NS	NS	260	
	Fluorene	ND	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	3.6	NS	NS	NS	323
	Phenanthrene	ND	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	0.5	NS	NS	NS	130
	Phenol	76	NS	180	NS	NS	NS	NS	NS	NS	NS	NS	190	NS	NS	NS	2,630
Benzene	<10	NS	31	NS	NS	NS	NS	NS	22	NS	NS	ND	NS	NS	NS	1	

**Summary of Pre-Remedial Action Groundwater Data  
Eastern Site, Gainesville, Florida**

Well Designation	Parameters	IT Corp 1987 Results (µg/L) (1)	Hunter/ESE 1989 Results (µg/L) (2)	WESTON June 1992 Results (µg/L) (3)	WESTON October 1992 Results (µg/L) (3)	WESTON January 1993 Results (µg/L) (3)	WESTON April 1993 Results (µg/L) (3)	WESTON July 1993 Results (µg/L) (3)	WESTON October 1993 Results (µg/L) (3)	WESTON January 1994 Results (µg/L) (3)	WESTON April 1994 Results (µg/L) (3)	WESTON July 1994 Results (µg/L) (3)	WESTON October 1994 Results (µg/L) (3)	WESTON January 1995 Results (µg/L) (3)	WESTON April 1995 Results (µg/L) (3)	ROD Cleanup Goal (µg/L)
ITW-10 +	Chromium	100	NS	77	53	71	19	12	30	9	ND	ND	8	5	5	*100
	Phenol	ND	NS	5,400	3,060	7,900	13,000	13,000	8,300	ND	1,800	1,200	500	284	310	2,630
	Naphthalene	ND	NS	ND	ND	14	35	84	ND	ND	ND	ND	ND	ND	ND	18
	Acenaphthylene	ND	NS	ND	ND	640	41	470	25	8.5	ND	ND	310	ND	ND	130
	Fluorene	ND	NS	ND	ND	2.6	ND	ND	1.1	ND	ND	0.7	ND	ND	ND	323
	Benzene	150	NS	320	200	250	130	120	120	61	59	65	12	64	60	1
ITW-11 +	Chromium	240	NS	130	12	23	ND	ND	ND	ND	ND	ND	ND	ND	ND	*100
	Arsenic	9	NS	21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50
	Acenaphthylene	ND	NS	ND	15	ND	7.8	59	61	400	ND	ND	ND	ND	ND	130
	Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.8	ND	ND	ND	323
	Phenanthrene	ND	NS	ND	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.4	130
	Pyrene	ND	NS	ND	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	130
	Total Potentially Carcinogenic PAHs	ND	NS	ND	4.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003
	Benzene	<10	NS	3.3	2.7	2.5	1.6	2.7	3.7	2.8	2.5	1.1	0.6	3.7	4.1	1
Phenol	ND	NS	ND	ND	ND	ND	ND	ND	8,500	ND	ND	ND	ND	ND	2,630	
ITW-12	Chromium	0.06	NS	NS	NS	NS	NS	12	ND	ND	NS	NS	NS	NS	NS	*100
ITW-13	Chromium	80	34.4	10	13	10	ND	ND	ND	ND	ND	ND	6	ND	ND	*100
	Phenol	ND	6,500	2,700	2,500	4,000	11,000	7,000	9,300	8,900	6,200	7,500	4,820	5,720	7,100	2,630
	Naphthalene	ND	59	38	6.1	32	84	71	83	51	35	63	40	47	34	18
	Acenaphthylene	ND	<20	35	46	210	240	12	ND	300	ND	ND	370	ND	ND	130
	Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	33	ND	260
	Fluorene	ND	<20	0.3	0.7	0.8	1.2	1.1	1.6	1.8	ND	2.8	3.7	2.1	1.7	323
	Phenanthrene	ND	<20	0.3	ND	0.3	ND	0.4	0.4	0.2	0.26	0.5	0.5	0.6	0.43	130
	Anthracene	ND	?	ND	ND	ND	ND	ND	ND	ND	ND	0.2	ND	0.18	0.16	1,310
	Total Potentially Carcinogenic PAHs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.47	ND	ND	0.003
Benzene	100	ND	130	140	130	82	49	65	55	75	64	59	62	66	1	







**Summary of Pre-Remedial Action Groundwater Data  
Eastern Site, Gainesville, Florida**

Well Designation	Parameters	IT Corp 1987 Results (µg/L) (1)	Hunter/ESE 1989 Results (µg/L) (2)	WESTON June 1992 Results (µg/L) (3)	WESTON October 1992 Results (µg/L) (3)	WESTON January 1993 Results (µg/L) (3)	WESTON April 1993 Results (µg/L) (3)	WESTON July 1993 Results (µg/L) (3)	WESTON October 1993 Results (µg/L) (3)	WESTON January 1994 Results (µg/L) (3)	WESTON April 1994 Results (µg/L) (3)	WESTON July 1994 Results (µg/L) (3)	WESTON October 1994 Results (µg/L) (3)	WESTON January 1995 Results (µg/L) (3)	WESTON April 1995 Results (µg/L) (3)	ROD Cleanup Goal (µg/L)
ESE-004	Chromium	NS	70.2	120	29	29	ND	9	8	7	6	ND	8	5	13	*100
	Phenol	NS	260	ND	23	ND	50	40	ND	ND	315	ND	16	ND	610	2,630
	Naphthalene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.5	18
	Acenaphthylene	NS	ND	ND	ND	ND	ND	5	ND	ND	ND	ND	ND	ND	ND	130
	Phenanthrene	NS	ND	ND	ND	ND	ND	ND	0.5	ND	ND	0.2	ND	ND	ND	130
	Anthracene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.21	ND	ND	1,310
	Benzene	NS	ND	ND	ND	ND	ND	ND	3.2	ND	1.8	ND	ND	ND	3.6	1
Fluorene	NS	<1.0	ND	ND	ND	ND	ND	ND	0.3	ND	0.7	ND	ND	ND	323	
ESE-005	Chromium	NS	59.2	110	53	20	11	ND	ND	ND	ND	ND	ND	ND	ND	*100
	PCP	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	90	ND	ND	0.1
	Phenol	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	90	ND	ND	56	2,630
	Naphthalene	NS	1,300	660	97	730	170	400	1,000	1,100	420	610	1,100	1,200	3,600	18
	Acenaphthylene	NS	<5.0	81	89	ND	ND	ND	320	ND	49	35	270	84	300	130
	Acenaphthene	NS	68	17	ND	ND	ND	360	ND	ND	ND	44	49	120	190	260
	Fluorene	NS	30	21	4.7	22	10	ND	3.9	45	13	16	42	41	61	323
	Phenanthrene	NS	4.3	4.1	1.1	3.7	1.8	3.4	2.5	8.9	3.5	2.9	5	8.1	20	130
	Anthracene	NS	ND	ND	ND	ND	ND	ND	ND	ND	0.3	0.3	0.62	0.53	0.96	1,310
	Pyrene	NS	ND	ND	ND	ND	ND	ND	ND	ND	0.7	ND	ND	ND	4.2	130
	Total Potentially Carcinogenic PAHs	NS	<61	ND	2.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003
ESE-006	Benzene	NS	<100	50	49	59	45	75	130	56	48	86	85	90	150	1
	Chromium	NS	230	64	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	*100
	Phenol	NS	81	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	2,630
	Naphthalene	NS	340	560	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	18
	Acenaphthylene	NS	<20	880	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	130
	Fluorene	NS	ND	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	323
	Phenanthrene	NS	ND	7.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	130
ESE-007	Benzene	NS	320	65	NS	NS	60	NS	NS	NS	NS	NS	NS	NS	NS	1
	Chromium	NS	45.7	96	47	26	11	9	24	22	5	ND	15	9	10	*100
	Phenol	NS	11,000	240	490	1,550	890	5,000	4,300	6,400	2,100	4,000	3,200	830	540	2,630
	Naphthalene	NS	<40	2.4	12	21	14	25	13	14	15	19	17	35	21	18
	Acenaphthylene	NS	<40	130	210	320	110	ND	9.1	450	ND	ND	440	ND	ND	130
	Acenaphthene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13	ND	260
	Phenanthrene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.69	ND	0.31	130
	Anthracene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.25	ND	0.22	1,310
	Fluorene	NS	<40	ND	ND	0.8	ND	ND	1	1.6	ND	2.1	ND	2.8	ND	323
Total Potentially Carcinogenic PAHs	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.29	ND	ND	0.003	
Benzene	NS	ND	74	30	48	9.8	37	25	33	30	38	35	34	10	1	



**Summary of Pre-Remedial Action Groundwater Data  
Eastern Site, Gainesville, Florida**

Well Designation	Parameters	IT Corp 1987 Results (µg/L) (1)	Hunter/ESE 1989 Results (µg/L) (2)	WESTON June 1992 Results (µg/L) (3)	WESTON October 1992 Results (µg/L) (3)	WESTON January 1993 Results (µg/L) (3)	WESTON April 1993 Results (µg/L) (3)	WESTON July 1993 Results (µg/L) (3)	WESTON October 1993 Results (µg/L) (3)	WESTON January 1994 Results (µg/L) (3)	WESTON April 1994 Results (µg/L) (3)	WESTON July 1994 Results (µg/L) (3)	WESTON October 1994 Results (µg/L) (3)	WESTON January 1995 Results (µg/L) (3)	WESTON April 1995 Results (µg/L) (3)	ROD Cleanup Goal (µg/L)
ITF-1 ++	Benzene	ND	ND	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1
	Toluene	ND	ND	1.6	1.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**
	Ethylbenzene	ND	ND	1.4	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**
	Xylenes	NS	NS	3.1	4.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**
ITF-2 ++	Benzene	ND	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1
	Toluene	ND	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**
	Ethylbenzene	ND	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**
	Xylenes	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**
ITF-3 ++	Benzene	ND	ND	2.8	3.5	3.6	2.4	2.6	3.5	2.7	NS	NS	NS	NS	NS	1
	Toluene	ND	ND	1	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS	**
	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS	**
	Xylenes	NS	NS	1.1	1.6	1.4	1.3	3	2	2.1	NS	NS	NS	NS	NS	**

The data presented in this table represents only those compounds that have been detected above detection limit in groundwater samples from the indicated wells.

- (1) Please see Table 6 of Remedial Investigation Report, Cabot Carbon/Koppers Site Vol. 1 (IT Corp., 1987) for analytical detection limits of individual compounds.
- (2) Please see Appendix B of Remedial Investigation/Risk Assessment at the Cabot Carbon/Koppers Site, Gainesville, Florida Vol. 3 (Hunter/ESE, 1989).
- (3) Please see individual groundwater report for analytical detection limits of compounds for different sampling events.

All results are in µg/L.

µg/L = micrograms per liter.

MDL = laboratory method detection limit.

ND = not detected above the MDL.

NS = not sampled for indicated compound.

\* The new EPA MCL for chromium is 100 µg/L. As per the ROD, this new MCL replaces the previous cleanup goals of 50 µg/L.

\*\* Cleanup goal for indicated compound has not been established.

+ Analytical results from January 1994 are suspect. Past groundwater data review indicates sample bottles may have been mislabeled.

++ Sampled only for BTEX constituents.

**A.3**  
**1996 Groundwater Investigation Results**

Date Collected	Client Sample ID	Matrix	Parameter Type	Parameter	Units	PRL	Concentration	PDF Page
8/24/1996	CCS-GW GP9-12	Groundwater	Organics	2,4,6-Tribromophenol - Surrogate	%		65	48
8/24/1996	CCS-GW GP9-12	Groundwater	Organics	2,4-Dimethylphenol	ug/L	50	1700	48
8/24/1996	CCS-GW GP9-12	Groundwater	Organics	2-Fluorophenol - Surrogate	%		42	48
8/24/1996	CCS-GW GP9-12	Groundwater	Organics	Pentachlorophenol	ug/L	50	ND	48
8/24/1996	CCS-GW GP9-12	Groundwater	Organics	Phenol	ug/L	50	750	48
8/24/1996	CCS-GW GP9-12	Groundwater	Polynuclear Aromatic Hydrocarbons	Naphthalene	ug/L	2.8	ND	48
8/24/1996	CCS-GW GP9-12	Groundwater	Polynuclear Aromatic Hydrocarbons	Acenaphthylene	ug/L	5.1	ND	48
8/24/1996	CCS-GW GP9-12	Groundwater	Polynuclear Aromatic Hydrocarbons	1-Methylnaphthalene	ug/L	5.7	12	48
8/24/1996	CCS-GW GP9-12	Groundwater	Polynuclear Aromatic Hydrocarbons	2-Methylnaphthalene	ug/L	2.8	ND	48
8/24/1996	CCS-GW GP9-12	Groundwater	Polynuclear Aromatic Hydrocarbons	Acenaphthene	ug/L	2.6	ND	48
8/24/1996	CCS-GW GP9-12	Groundwater	Polynuclear Aromatic Hydrocarbons	Fluorene	ug/L	0.7	2.6	48
8/24/1996	CCS-GW GP9-12	Groundwater	Polynuclear Aromatic Hydrocarbons	Phenanthrene	ug/L	0.18	0.39	48
8/24/1996	CCS-GW GP9-12	Groundwater	Polynuclear Aromatic Hydrocarbons	Anthracene	ug/L	0.13	0.18	48
8/24/1996	CCS-GW GP9-12	Groundwater	Polynuclear Aromatic Hydrocarbons	Fluoranthene	ug/L	0.26	0.85	48
8/24/1996	CCS-GW GP9-12	Groundwater	Polynuclear Aromatic Hydrocarbons	Pyrene	ug/L	0.14	0.21	48
8/24/1996	CCS-GW GP9-12	Groundwater	Polynuclear Aromatic Hydrocarbons	Benzo(a)anthracene	ug/L	0.13	ND	48
8/24/1996	CCS-GW GP9-12	Groundwater	Polynuclear Aromatic Hydrocarbons	Chrysene	ug/L	0.19	ND	48
8/24/1996	CCS-GW GP9-12	Groundwater	Polynuclear Aromatic Hydrocarbons	Benzo(b)fluoranthene	ug/L	0.21	ND	48
8/24/1996	CCS-GW GP9-12	Groundwater	Polynuclear Aromatic Hydrocarbons	Benzo(k)fluoranthene	ug/L	0.05	ND	48
8/24/1996	CCS-GW GP9-12	Groundwater	Polynuclear Aromatic Hydrocarbons	Benzo(a)pyrene	ug/L	0.2	ND	48
8/24/1996	CCS-GW GP9-12	Groundwater	Polynuclear Aromatic Hydrocarbons	Dibenzo(a,h)anthracene	ug/L	1	ND	48
8/24/1996	CCS-GW GP9-12	Groundwater	Polynuclear Aromatic Hydrocarbons	Benzo(g,h,i)perylene	ug/L	0.45	ND	48
8/24/1996	CCS-GW GP9-12	Groundwater	Polynuclear Aromatic Hydrocarbons	Indeno(1,2,3-cd)pyrene	ug/L	0.11	ND	48
8/24/1996	CCS-GW GP9-12	Groundwater	Polynuclear Aromatic Hydrocarbons	Total Naphthalene	ug/L	2.8	12	48
8/24/1996	CCS-GW GP9-12	Groundwater	Polynuclear Aromatic Hydrocarbons	Carbazole (Surrogate)	%		88	48
8/24/1996	CCS-GW GP9-12	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Benzene	ug/L	12	74	48
8/24/1996	CCS-GW GP9-12	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Toluene	ug/L	20	360	49
8/24/1996	CCS-GW GP9-12	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Ethylbenzene	ug/L	18	84	49
8/24/1996	CCS-GW GP9-12	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Xylenes	ug/L	18	200	49
8/24/1996	CCS-GW GP9-12	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Total VOA	ug/L	12	718	49
8/24/1996	CCS-GW GP9-12	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Methyl Tert-Butyl Ether	ug/L	100	ND	49
8/24/1996	CCS-GW GP9-12	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Surrogate Recovery	%		94	49
8/25/1996	CCS GP6-9.5	Groundwater	Organics	2,4,6-Tribromophenol - Surrogate	%		69	50
8/25/1996	CCS GP6-9.5	Groundwater	Organics	2,4-Dimethylphenol	ug/L	10	150	50
8/25/1996	CCS GP6-9.5	Groundwater	Organics	2-Fluorophenol - Surrogate	%		35	50
8/25/1996	CCS GP6-9.5	Groundwater	Organics	Pentachlorophenol	ug/L	10	ND	50
8/25/1996	CCS GP6-9.5	Groundwater	Organics	Phenol	ug/L	10	ND	50
8/25/1996	CCS GP6-9.5	Groundwater	Polynuclear Aromatic Hydrocarbons	Naphthalene	ug/L	2.8	19	50

Date Collected	Client Sample ID	Matrix	Parameter Type	Parameter	Units	PRL	Concentration	PDF Page
8/25/1996	CCS GP6-9.5	Groundwater	Polynuclear Aromatic Hydrocarbons	Acenaphthylene	ug/L	5.1	8.1	50
8/25/1996	CCS GP6-9.5	Groundwater	Polynuclear Aromatic Hydrocarbons	1-Methylnaphthalene	ug/L	5.7	26	50
8/25/1996	CCS GP6-9.5	Groundwater	Polynuclear Aromatic Hydrocarbons	2-Methylnaphthalene	ug/L	2.8	10	50
8/25/1996	CCS GP6-9.5	Groundwater	Polynuclear Aromatic Hydrocarbons	Acenaphthene	ug/L	2.6	19	50
8/25/1996	CCS GP6-9.5	Groundwater	Polynuclear Aromatic Hydrocarbons	Fluorene	ug/L	0.7	3.2	50
8/25/1996	CCS GP6-9.5	Groundwater	Polynuclear Aromatic Hydrocarbons	Phenanthrene	ug/L	0.18	8.1	50
8/25/1996	CCS GP6-9.5	Groundwater	Polynuclear Aromatic Hydrocarbons	Anthracene	ug/L	0.13	0.85	50
8/25/1996	CCS GP6-9.5	Groundwater	Polynuclear Aromatic Hydrocarbons	Fluoranthene	ug/L	0.26	ND	50
8/25/1996	CCS GP6-9.5	Groundwater	Polynuclear Aromatic Hydrocarbons	Pyrene	ug/L	0.14	ND	50
8/25/1996	CCS GP6-9.5	Groundwater	Polynuclear Aromatic Hydrocarbons	Benzo(a)anthracene	ug/L	0.13	ND	50
8/25/1996	CCS GP6-9.5	Groundwater	Polynuclear Aromatic Hydrocarbons	Chrysene	ug/L	0.19	ND	50
8/25/1996	CCS GP6-9.5	Groundwater	Polynuclear Aromatic Hydrocarbons	Benzo(b)fluoranthene	ug/L	0.21	ND	50
8/25/1996	CCS GP6-9.5	Groundwater	Polynuclear Aromatic Hydrocarbons	Benzo(k)fluoranthene	ug/L	0.05	ND	50
8/25/1996	CCS GP6-9.5	Groundwater	Polynuclear Aromatic Hydrocarbons	Benzo(a)pyrene	ug/L	0.2	ND	50
8/25/1996	CCS GP6-9.5	Groundwater	Polynuclear Aromatic Hydrocarbons	Dibenzo(a,h)anthracene	ug/L	1	ND	50
8/25/1996	CCS GP6-9.5	Groundwater	Polynuclear Aromatic Hydrocarbons	Benzo(g,h,i)perylene	ug/L	0.45	ND	50
8/25/1996	CCS GP6-9.5	Groundwater	Polynuclear Aromatic Hydrocarbons	Indeno(1,2,3-cd)pyrene	ug/L	0.11	ND	50
8/25/1996	CCS GP6-9.5	Groundwater	Polynuclear Aromatic Hydrocarbons	Total Naphthalene	ug/L	2.8	55	50
8/25/1996	CCS GP6-9.5	Groundwater	Polynuclear Aromatic Hydrocarbons	Carbazole (Surrogate)	%		95	50
8/25/1996	CCS GP6-9.5	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Benzene	ug/L	12	140	50
8/25/1996	CCS GP6-9.5	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Toluene	ug/L	20	440	51
8/25/1996	CCS GP6-9.5	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Ethylbenzene	ug/L	18	150	51
8/25/1996	CCS GP6-9.5	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Xylenes	ug/L	18	180	51
8/25/1996	CCS GP6-9.5	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Total VOA	ug/L	12	910	51
8/25/1996	CCS GP6-9.5	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Methyl Tert-Butyl Ether	ug/L	100	ND	51
8/25/1996	CCS GP6-9.5	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Surrogate Recovery	%		117	51
8/25/1996	CCS GP6-16.5	Groundwater	Organics	2,4,6-Tribromophenol - Surrogate	%		58	52
8/25/1996	CCS GP6-16.5	Groundwater	Organics	2,4-Dimethylphenol	ug/L	10	79	52
8/25/1996	CCS GP6-16.5	Groundwater	Organics	2-Fluorophenol - Surrogate	%		29	52
8/25/1996	CCS GP6-16.5	Groundwater	Organics	Pentachlorophenol	ug/L	10	ND	52
8/25/1996	CCS GP6-16.5	Groundwater	Organics	Phenol	ug/L	10	ND	52
8/25/1996	CCS GP6-16.5	Groundwater	Polynuclear Aromatic Hydrocarbons	Naphthalene	ug/L	2.8	89	52
8/25/1996	CCS GP6-16.5	Groundwater	Polynuclear Aromatic Hydrocarbons	Acenaphthylene	ug/L	5.1	21	52
8/25/1996	CCS GP6-16.5	Groundwater	Polynuclear Aromatic Hydrocarbons	1-Methylnaphthalene	ug/L	5.7	47	52
8/25/1996	CCS GP6-16.5	Groundwater	Polynuclear Aromatic Hydrocarbons	2-Methylnaphthalene	ug/L	2.8	27	52
8/25/1996	CCS GP6-16.5	Groundwater	Polynuclear Aromatic Hydrocarbons	Acenaphthene	ug/L	2.6	56	52
8/25/1996	CCS GP6-16.5	Groundwater	Polynuclear Aromatic Hydrocarbons	Fluorene	ug/L	0.7	4.9	52
8/25/1996	CCS GP6-16.5	Groundwater	Polynuclear Aromatic Hydrocarbons	Phenanthrene	ug/L	0.18	5.7	52

Date Collected	Client Sample ID	Matrix	Parameter Type	Parameter	Units	PRL	Concentration	PDF Page
8/25/1996	CCS GP6-16.5	Groundwater	Polynuclear Aromatic Hydrocarbons	Anthracene	ug/L	0.13	1.2	52
8/25/1996	CCS GP6-16.5	Groundwater	Polynuclear Aromatic Hydrocarbons	Fluoranthene	ug/L	0.26	ND	52
8/25/1996	CCS GP6-16.5	Groundwater	Polynuclear Aromatic Hydrocarbons	Pyrene	ug/L	0.14	0.29	52
8/25/1996	CCS GP6-16.5	Groundwater	Polynuclear Aromatic Hydrocarbons	Benzo(a)anthracene	ug/L	0.13	0.53	52
8/25/1996	CCS GP6-16.5	Groundwater	Polynuclear Aromatic Hydrocarbons	Chrysene	ug/L	0.19	ND	52
8/25/1996	CCS GP6-16.5	Groundwater	Polynuclear Aromatic Hydrocarbons	Benzo(b)fluoranthene	ug/L	0.21	ND	52
8/25/1996	CCS GP6-16.5	Groundwater	Polynuclear Aromatic Hydrocarbons	Benzo(k)fluoranthene	ug/L	0.05	ND	52
8/25/1996	CCS GP6-16.5	Groundwater	Polynuclear Aromatic Hydrocarbons	Benzo(a)pyrene	ug/L	0.2	ND	52
8/25/1996	CCS GP6-16.5	Groundwater	Polynuclear Aromatic Hydrocarbons	Dibenzo(a,h)anthracene	ug/L	1	ND	52
8/25/1996	CCS GP6-16.5	Groundwater	Polynuclear Aromatic Hydrocarbons	Benzo(g,h,i)perylene	ug/L	0.45	ND	52
8/25/1996	CCS GP6-16.5	Groundwater	Polynuclear Aromatic Hydrocarbons	Indeno(1,2,3-cd)pyrene	ug/L	0.11	ND	52
8/25/1996	CCS GP6-16.5	Groundwater	Polynuclear Aromatic Hydrocarbons	Total Naphthalene	ug/L	2.8	163	52
8/25/1996	CCS GP6-16.5	Groundwater	Polynuclear Aromatic Hydrocarbons	Carbazole (Surrogate)	%		150 (3)	52
8/25/1996	CCS GP6-16.5	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Benzene	ug/L	12	160	52
8/25/1996	CCS GP6-16.5	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Toluene	ug/L	20	1300 (1)	53
8/25/1996	CCS GP6-16.5	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Ethylbenzene	ug/L	18	470 (1)	53
8/25/1996	CCS GP6-16.5	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Xylenes	ug/L	18	750 (1)	53
8/25/1996	CCS GP6-16.5	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Total VOA	ug/L	12	2680	53
8/25/1996	CCS GP6-16.5	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Methyl Tert-Butyl Ether	ug/L	100	ND	53
8/25/1996	CCS GP6-16.5	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Surrogate Recovery	%		ND	53
8/25/1996	CCS GW GP4-9	Groundwater	Organics	2,4,6-Tribromophenol - Surrogate	%		27	54
8/25/1996	CCS GW GP4-9	Groundwater	Organics	2,4-Dimethylphenol	ug/L	10	ND	54
8/25/1996	CCS GW GP4-9	Groundwater	Organics	2-Fluorophenol - Surrogate	%		23	54
8/25/1996	CCS GW GP4-9	Groundwater	Organics	Pentachlorophenol	ug/L	10	ND	54
8/25/1996	CCS GW GP4-9	Groundwater	Organics	Phenol	ug/L	10	ND	54
8/25/1996	CCS GW GP4-9	Groundwater	Polynuclear Aromatic Hydrocarbons	Naphthalene	ug/L	2.8	ND	54
8/25/1996	CCS GW GP4-9	Groundwater	Polynuclear Aromatic Hydrocarbons	Acenaphthylene	ug/L	5.1	ND	54
8/25/1996	CCS GW GP4-9	Groundwater	Polynuclear Aromatic Hydrocarbons	1-Methylnaphthalene	ug/L	5.7	ND	54
8/25/1996	CCS GW GP4-9	Groundwater	Polynuclear Aromatic Hydrocarbons	2-Methylnaphthalene	ug/L	2.8	ND	54
8/25/1996	CCS GW GP4-9	Groundwater	Polynuclear Aromatic Hydrocarbons	Acenaphthene	ug/L	2.6	ND	54
8/25/1996	CCS GW GP4-9	Groundwater	Polynuclear Aromatic Hydrocarbons	Fluorene	ug/L	0.7	ND	54
8/25/1996	CCS GW GP4-9	Groundwater	Polynuclear Aromatic Hydrocarbons	Phenanthrene	ug/L	0.18	ND	54
8/25/1996	CCS GW GP4-9	Groundwater	Polynuclear Aromatic Hydrocarbons	Anthracene	ug/L	0.13	ND	54
8/25/1996	CCS GW GP4-9	Groundwater	Polynuclear Aromatic Hydrocarbons	Fluoranthene	ug/L	0.26	ND	54
8/25/1996	CCS GW GP4-9	Groundwater	Polynuclear Aromatic Hydrocarbons	Pyrene	ug/L	0.14	ND	54
8/25/1996	CCS GW GP4-9	Groundwater	Polynuclear Aromatic Hydrocarbons	Benzo(a)anthracene	ug/L	0.13	0.28	54
8/25/1996	CCS GW GP4-9	Groundwater	Polynuclear Aromatic Hydrocarbons	Chrysene	ug/L	0.19	0.23	54
8/25/1996	CCS GW GP4-9	Groundwater	Polynuclear Aromatic Hydrocarbons	Benzo(b)fluoranthene	ug/L	0.21	0.68	54

Date Collected	Client Sample ID	Matrix	Parameter Type	Parameter	Units	PRL	Concentration	PDF Page
8/25/1996	CCS GW GP4-9	Groundwater	Polynuclear Aromatic Hydrocarbons	Benzo(k)fluoranthene	ug/L	0.05	0.26	54
8/25/1996	CCS GW GP4-9	Groundwater	Polynuclear Aromatic Hydrocarbons	Benzo(a)pyrene	ug/L	0.2	0.59	54
8/25/1996	CCS GW GP4-9	Groundwater	Polynuclear Aromatic Hydrocarbons	Dibenzo(a,h)anthracene	ug/L	1	ND	54
8/25/1996	CCS GW GP4-9	Groundwater	Polynuclear Aromatic Hydrocarbons	Benzo(g,h,i)perylene	ug/L	0.45	0.98	54
8/25/1996	CCS GW GP4-9	Groundwater	Polynuclear Aromatic Hydrocarbons	Indeno(1,2,3-cd)pyrene	ug/L	0.11	ND	54
8/25/1996	CCS GW GP4-9	Groundwater	Polynuclear Aromatic Hydrocarbons	Total Naphthalene	ug/L	2.8	ND	54
8/25/1996	CCS GW GP4-9	Groundwater	Polynuclear Aromatic Hydrocarbons	Carbazole (Surrogate)	%		49	54
8/25/1996	CCS GW GP4-9	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Benzene	ug/L	0.6	ND	54
8/25/1996	CCS GW GP4-9	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Toluene	ug/L	1	ND (1)	55
8/25/1996	CCS GW GP4-9	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Ethylbenzene	ug/L	9	ND	55
8/25/1996	CCS GW GP4-9	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Xylenes	ug/L	0.9	ND (1)	55
8/25/1996	CCS GW GP4-9	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Total VOA	ug/L	0.6	ND	55
8/25/1996	CCS GW GP4-9	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Methyl Tert-Butyl Ether	ug/L	5	ND	55
8/25/1996	CCS GW GP4-9	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Surrogate Recovery	%		118	55
8/25/1996	CCS GW GP4-17	Groundwater	Organics	2,4,6-Tribromophenol - Surrogate	%		37	56
8/25/1996	CCS GW GP4-17	Groundwater	Organics	2,4-Dimethylphenol	ug/L	10	ND	56
8/25/1996	CCS GW GP4-17	Groundwater	Organics	2-Fluorophenol - Surrogate	%		21	56
8/25/1996	CCS GW GP4-17	Groundwater	Organics	Pentachlorophenol	ug/L	10	ND	56
8/25/1996	CCS GW GP4-17	Groundwater	Organics	Phenol	ug/L	10	ND	56
8/25/1996	CCS GW GP4-17	Groundwater	Polynuclear Aromatic Hydrocarbons	Naphthalene	ug/L	2.8	ND	56
8/25/1996	CCS GW GP4-17	Groundwater	Polynuclear Aromatic Hydrocarbons	Acenaphthylene	ug/L	5.1	12	56
8/25/1996	CCS GW GP4-17	Groundwater	Polynuclear Aromatic Hydrocarbons	1-Methylnaphthalene	ug/L	5.7	34	56
8/25/1996	CCS GW GP4-17	Groundwater	Polynuclear Aromatic Hydrocarbons	2-Methylnaphthalene	ug/L	2.8	69	56
8/25/1996	CCS GW GP4-17	Groundwater	Polynuclear Aromatic Hydrocarbons	Acenaphthene	ug/L	2.6	120	56
8/25/1996	CCS GW GP4-17	Groundwater	Polynuclear Aromatic Hydrocarbons	Fluorene	ug/L	0.7	ND	56
8/25/1996	CCS GW GP4-17	Groundwater	Polynuclear Aromatic Hydrocarbons	Phenanthrene	ug/L	0.18	1.5	56
8/25/1996	CCS GW GP4-17	Groundwater	Polynuclear Aromatic Hydrocarbons	Anthracene	ug/L	0.13	0.4	56
8/25/1996	CCS GW GP4-17	Groundwater	Polynuclear Aromatic Hydrocarbons	Fluoranthene	ug/L	0.26	ND	56
8/25/1996	CCS GW GP4-17	Groundwater	Polynuclear Aromatic Hydrocarbons	Pyrene	ug/L	0.14	1.1	56
8/25/1996	CCS GW GP4-17	Groundwater	Polynuclear Aromatic Hydrocarbons	Benzo(a)anthracene	ug/L	0.13	ND	56
8/25/1996	CCS GW GP4-17	Groundwater	Polynuclear Aromatic Hydrocarbons	Chrysene	ug/L	0.19	ND	56
8/25/1996	CCS GW GP4-17	Groundwater	Polynuclear Aromatic Hydrocarbons	Benzo(b)fluoranthene	ug/L	0.21	ND	56
8/25/1996	CCS GW GP4-17	Groundwater	Polynuclear Aromatic Hydrocarbons	Benzo(k)fluoranthene	ug/L	0.05	ND	56
8/25/1996	CCS GW GP4-17	Groundwater	Polynuclear Aromatic Hydrocarbons	Benzo(a)pyrene	ug/L	0.2	ND	56
8/25/1996	CCS GW GP4-17	Groundwater	Polynuclear Aromatic Hydrocarbons	Dibenzo(a,h)anthracene	ug/L	1	ND	56
8/25/1996	CCS GW GP4-17	Groundwater	Polynuclear Aromatic Hydrocarbons	Benzo(g,h,i)perylene	ug/L	0.45	ND	56
8/25/1996	CCS GW GP4-17	Groundwater	Polynuclear Aromatic Hydrocarbons	Indeno(1,2,3-cd)pyrene	ug/L	0.11	ND	56
8/25/1996	CCS GW GP4-17	Groundwater	Polynuclear Aromatic Hydrocarbons	Total Naphthalene	ug/L	2.8	103	56

Date Collected	Client Sample ID	Matrix	Parameter Type	Parameter	Units	PRL	Concentration	PDF Page
8/25/1996	CCS GW GP4-17	Groundwater	Polynuclear Aromatic Hydrocarbons	Carbazole (Surrogate)	%		124	56
8/25/1996	CCS GW GP4-17	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Benzene	ug/L	0.6	3.4	56
8/25/1996	CCS GW GP4-17	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Toluene	ug/L	1	1.1	57
8/25/1996	CCS GW GP4-17	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Ethylbenzene	ug/L	0.9	ND	57
8/25/1996	CCS GW GP4-17	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Xylenes	ug/L	0.9	ND	57
8/25/1996	CCS GW GP4-17	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Total VOA	ug/L	0.6	4.5	57
8/25/1996	CCS GW GP4-17	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Methyl Tert-Butyl Ether	ug/L	5	ND	57
8/25/1996	CCS GW GP4-17	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Surrogate Recovery	%		114	57
8/25/1996	CCS GW GP5-8	Groundwater	Organics	2,4,6-Tribromophenol - Surrogate	%		ND (4)	58
8/25/1996	CCS GW GP5-8	Groundwater	Organics	2,4-Dimethylphenol	ug/L	500	5400	58
8/25/1996	CCS GW GP5-8	Groundwater	Organics	2-Fluorophenol - Surrogate	%		ND (4)	58
8/25/1996	CCS GW GP5-8	Groundwater	Organics	Pentachlorophenol	ug/L	500	ND	58
8/25/1996	CCS GW GP5-8	Groundwater	Organics	Phenol	ug/L	500	ND	58
8/25/1996	CCS GW GP5-8	Groundwater	Polynuclear Aromatic Hydrocarbons	Naphthalene	ug/L	2.8	270	58
8/25/1996	CCS GW GP5-8	Groundwater	Polynuclear Aromatic Hydrocarbons	Acenaphthylene	ug/L	5.1	650	58
8/25/1996	CCS GW GP5-8	Groundwater	Polynuclear Aromatic Hydrocarbons	1-Methylnaphthalene	ug/L	5.7	81	58
8/25/1996	CCS GW GP5-8	Groundwater	Polynuclear Aromatic Hydrocarbons	2-Methylnaphthalene	ug/L	2.8	380	58
8/25/1996	CCS GW GP5-8	Groundwater	Polynuclear Aromatic Hydrocarbons	Acenaphthene	ug/L	2.6	710	58
8/25/1996	CCS GW GP5-8	Groundwater	Polynuclear Aromatic Hydrocarbons	Fluorene	ug/L	0.7	33	58
8/25/1996	CCS GW GP5-8	Groundwater	Polynuclear Aromatic Hydrocarbons	Phenanthrene	ug/L	0.18	12	58
8/25/1996	CCS GW GP5-8	Groundwater	Polynuclear Aromatic Hydrocarbons	Anthracene	ug/L	0.13	6.8	58
8/25/1996	CCS GW GP5-8	Groundwater	Polynuclear Aromatic Hydrocarbons	Fluoranthene	ug/L	0.26	8.1	58
8/25/1996	CCS GW GP5-8	Groundwater	Polynuclear Aromatic Hydrocarbons	Pyrene	ug/L	0.14	5.1	58
8/25/1996	CCS GW GP5-8	Groundwater	Polynuclear Aromatic Hydrocarbons	Benzo(a)anthracene	ug/L	0.13	ND	58
8/25/1996	CCS GW GP5-8	Groundwater	Polynuclear Aromatic Hydrocarbons	Chrysene	ug/L	0.19	40	58
8/25/1996	CCS GW GP5-8	Groundwater	Polynuclear Aromatic Hydrocarbons	Benzo(b)fluoranthene	ug/L	0.21	3.2	58
8/25/1996	CCS GW GP5-8	Groundwater	Polynuclear Aromatic Hydrocarbons	Benzo(k)fluoranthene	ug/L	0.05	ND	58
8/25/1996	CCS GW GP5-8	Groundwater	Polynuclear Aromatic Hydrocarbons	Benzo(a)pyrene	ug/L	0.2	ND	58
8/25/1996	CCS GW GP5-8	Groundwater	Polynuclear Aromatic Hydrocarbons	Dibenzo(a,h)anthracene	ug/L	1	ND	58
8/25/1996	CCS GW GP5-8	Groundwater	Polynuclear Aromatic Hydrocarbons	Benzo(g,h,i)perylene	ug/L	0.45	ND	58
8/25/1996	CCS GW GP5-8	Groundwater	Polynuclear Aromatic Hydrocarbons	Indeno(1,2,3-cd)pyrene	ug/L	0.11	ND	58
8/25/1996	CCS GW GP5-8	Groundwater	Polynuclear Aromatic Hydrocarbons	Total Naphthalene	ug/L	2.8	461	58
8/25/1996	CCS GW GP5-8	Groundwater	Polynuclear Aromatic Hydrocarbons	Carbazole (Surrogate)	%		ND (2)	58
8/25/1996	CCS GW GP5-8	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Benzene	ug/L	300	450	59
8/25/1996	CCS GW GP5-8	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Toluene	ug/L	500	12000	59
8/25/1996	CCS GW GP5-8	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Ethylbenzene	ug/L	450	7000	59
8/25/1996	CCS GW GP5-8	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Xylenes	ug/L	450	23000	59
8/25/1996	CCS GW GP5-8	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Total VOA	ug/L	300	42450	59

Date Collected	Client Sample ID	Matrix	Parameter Type	Parameter	Units	PRL	Concentration	PDF Page
8/25/1996	CCS GW GP5-8	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Methyl Tert-Butyl Ether	ug/L	2500	ND	59
8/25/1996	CCS GW GP5-8	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Surrogate Recovery	%		100	59
8/25/1996	CCS GW GP5-15	Groundwater	Organics	2,4,6-Tribromophenol - Surrogate	%		52	60
8/25/1996	CCS GW GP5-15	Groundwater	Organics	2,4-Dimethylphenol	ug/L	10	290	60
8/25/1996	CCS GW GP5-15	Groundwater	Organics	2-Fluorophenol - Surrogate	%		40	60
8/25/1996	CCS GW GP5-15	Groundwater	Organics	Pentachlorophenol	ug/L	10	ND	60
8/25/1996	CCS GW GP5-15	Groundwater	Organics	Phenol	ug/L	10	ND	60
8/25/1996	CCS GW GP5-15	Groundwater	Polynuclear Aromatic Hydrocarbons	Naphthalene	ug/L	2.8	ND	60
8/25/1996	CCS GW GP5-15	Groundwater	Polynuclear Aromatic Hydrocarbons	Acenaphthylene	ug/L	5.1	ND	60
8/25/1996	CCS GW GP5-15	Groundwater	Polynuclear Aromatic Hydrocarbons	1-Methylnaphthalene	ug/L	5.7	ND	60
8/25/1996	CCS GW GP5-15	Groundwater	Polynuclear Aromatic Hydrocarbons	2-Methylnaphthalene	ug/L	2.8	ND	60
8/25/1996	CCS GW GP5-15	Groundwater	Polynuclear Aromatic Hydrocarbons	Acenaphthene	ug/L	2.6	ND	60
8/25/1996	CCS GW GP5-15	Groundwater	Polynuclear Aromatic Hydrocarbons	Fluorene	ug/L	0.7	ND	60
8/25/1996	CCS GW GP5-15	Groundwater	Polynuclear Aromatic Hydrocarbons	Phenanthrene	ug/L	0.18	0.59	60
8/25/1996	CCS GW GP5-15	Groundwater	Polynuclear Aromatic Hydrocarbons	Anthracene	ug/L	0.13	ND	60
8/25/1996	CCS GW GP5-15	Groundwater	Polynuclear Aromatic Hydrocarbons	Fluoranthene	ug/L	0.26	ND	60
8/25/1996	CCS GW GP5-15	Groundwater	Polynuclear Aromatic Hydrocarbons	Pyrene	ug/L	0.14	ND	60
8/25/1996	CCS GW GP5-15	Groundwater	Polynuclear Aromatic Hydrocarbons	Benzo(a)anthracene	ug/L	0.13	ND	60
8/25/1996	CCS GW GP5-15	Groundwater	Polynuclear Aromatic Hydrocarbons	Chrysene	ug/L	0.19	1.9	60
8/25/1996	CCS GW GP5-15	Groundwater	Polynuclear Aromatic Hydrocarbons	Benzo(b)fluoranthene	ug/L	0.21	ND	60
8/25/1996	CCS GW GP5-15	Groundwater	Polynuclear Aromatic Hydrocarbons	Benzo(k)fluoranthene	ug/L	0.05	ND	60
8/25/1996	CCS GW GP5-15	Groundwater	Polynuclear Aromatic Hydrocarbons	Benzo(a)pyrene	ug/L	0.2	ND	60
8/25/1996	CCS GW GP5-15	Groundwater	Polynuclear Aromatic Hydrocarbons	Dibenzo(a,h)anthracene	ug/L	1	ND	60
8/25/1996	CCS GW GP5-15	Groundwater	Polynuclear Aromatic Hydrocarbons	Benzo(g,h,i)perylene	ug/L	0.45	ND	60
8/25/1996	CCS GW GP5-15	Groundwater	Polynuclear Aromatic Hydrocarbons	Indeno(1,2,3-cd)pyrene	ug/L	0.11	ND	60
8/25/1996	CCS GW GP5-15	Groundwater	Polynuclear Aromatic Hydrocarbons	Total Naphthalene	ug/L	2.8	ND	60
8/25/1996	CCS GW GP5-15	Groundwater	Polynuclear Aromatic Hydrocarbons	Carbazole (Surrogate)	%		104	60
8/25/1996	CCS GW GP5-15	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Benzene	ug/L	0.6	53	61
8/25/1996	CCS GW GP5-15	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Toluene	ug/L	1	290 (8)	61
8/25/1996	CCS GW GP5-15	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Ethylbenzene	ug/L	0.9	340 (8)	61
8/25/1996	CCS GW GP5-15	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Xylenes	ug/L	0.9	750 (8)	61
8/25/1996	CCS GW GP5-15	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Total VOA	ug/L	0.6	1380	61
8/25/1996	CCS GW GP5-15	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Methyl Tert-Butyl Ether	ug/L	5	ND	61
8/25/1996	CCS GW GP5-15	Groundwater	BTEX/MTBE 8020 Volatile Aromatics	Surrogate Recovery	%		90	61
8/21/1996	CCS-S GP3-8	Groundwater	Inorganics	Alkalinity, Total as CAC03 EPA 310.1	mg/kg	50	240	62
8/21/1996	CCS-S GP3-8	Groundwater	Inorganics	Ammonium as Nitrogen	mg/kg	30	ND	62
8/21/1996	CCS-S GP3-8	Groundwater	Inorganics	Chloride EPA 300.0	mg/kg	10	ND	62
8/21/1996	CCS-S GP3-8	Groundwater	Inorganics	Nitrogen, Ammonia SM4500NH3-E	mg/kg	30	ND	62



Date Collected	Client Sample ID	Matrix	Parameter Type	Parameter	Units	PRL	Concentration	PDF Page
8/21/1996	CCS-S GP3-8	Groundwater	Inorganics	Nitrogen, Kjeldahl SM4500-Norg B	mg/kg	30	140	62
8/21/1996	CCS-S GP3-8	Groundwater	Inorganics	Nitrogen, Nitrate EPA 300.0	mg/kg	10	ND	62
8/21/1996	CCS-S GP3-8	Groundwater	Inorganics	Nitrogen, Nitrite SM4500-N02 B	mg/kg	0.2	ND	62
8/21/1996	CCS-S GP3-8	Groundwater	Inorganics	Phosphorus, Total EPA 365.2	mg/kg	5	28	62
8/21/1996	CCS-S GP3-8	Groundwater	Inorganics	Sulfate, as S04 EPA 300.0	mg/kg	50	ND	62
8/23/1996	CCS-S GP8-7	Groundwater	Inorganics	Alkalinity, Total as CAC03 EPA 310.1	mg/kg	50	58	63
8/23/1996	CCS-S GP8-7	Groundwater	Inorganics	Ammonium as Nitrogen	mg/kg	30	ND	63
8/23/1996	CCS-S GP8-7	Groundwater	Inorganics	Chloride EPA 300.0	mg/kg	10	53	63
8/23/1996	CCS-S GP8-7	Groundwater	Inorganics	Nitrogen, Ammonia SM4500NH3-E	mg/kg	30	ND	63
8/23/1996	CCS-S GP8-7	Groundwater	Inorganics	Nitrogen, Kjeldahl SM4500-Norg B	mg/kg	30	ND	63
8/23/1996	CCS-S GP8-7	Groundwater	Inorganics	Nitrogen, Nitrate EPA 300.0	mg/kg	10	ND	63
8/23/1996	CCS-S GP8-7	Groundwater	Inorganics	Nitrogen, Nitrite SM4500-N02 B	mg/kg	0.25	ND	63
8/23/1996	CCS-S GP8-7	Groundwater	Inorganics	Phosphorus, Total EPA 365.2	mg/kg	5	96	63
8/23/1996	CCS-S GP8-7	Groundwater	Inorganics	Sulfate, as S04 EPA 300.0	mg/kg	50	59	63
8/23/1996	CCS-S GP8-7D	Groundwater	Inorganics	Alkalinity, Total as CAC03 EPA 310.1	mg/kg	50	64	64
8/23/1996	CCS-S GP8-7D	Groundwater	Inorganics	Ammonium as Nitrogen	mg/kg	30	ND	64
8/23/1996	CCS-S GP8-7D	Groundwater	Inorganics	Chloride EPA 300.0	mg/kg	10	26	64
8/23/1996	CCS-S GP8-7D	Groundwater	Inorganics	Nitrogen, Ammonia SM4500NH3-E	mg/kg	30	ND	64
8/23/1996	CCS-S GP8-7D	Groundwater	Inorganics	Nitrogen, Kjeldahl SM4500-Norg B	mg/kg	0.3	55	64
8/23/1996	CCS-S GP8-7D	Groundwater	Inorganics	Nitrogen, Nitrate EPA 300.0	mg/kg	10	ND	64
8/23/1996	CCS-S GP8-7D	Groundwater	Inorganics	Nitrogen, Nitrite SM4500-N02 B	mg/kg	0.25	ND	64
8/23/1996	CCS-S GP8-7D	Groundwater	Inorganics	Phosphorus, Total EPA 365.2	mg/kg	5	87	64
8/23/1996	CCS-S GP8-7D	Groundwater	Inorganics	Sulfate, as S04 EPA 300.0	mg/kg	50	ND	64

Notes:

Data from Core Laboratories, 1996

**A.4**  
**Post-remedy (1996-2016) Groundwater Data Summary**

**Summary of Surficial Aquifer Groundwater Data**  
**May 1996 - November 2000**  
**Eastern Site, Gainesville, Florida**

WELL DESIGNATION	PARAMETERS	May-96	Aug-96	Dec-96	Mar-97	Jun-97	Sep-97	Dec-97	Mar-98	May-98	Sep-98	Dec-98	Apr-99	Jun-99	Sep-99	Dec-99	Mar-00	Jun-00	Sep-00	Nov-00	ROD Clean-up Goal
ITW-1	Chromium	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	5.7	NS	ND	8.8	5.2	ND	ND	3.1	50
ITW-1	Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	260
ITW-1	Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1310
ITW-1	Fluorene	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	1.1	0.77	0.75	0.86	1	323
ITW-1	Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18
ITW-1	Phenanthrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	130
ITW-1	1- Methylnaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
ITW-1	2- Methylnaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
ITW-2	Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
ITW-2	Total Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
ITW-2	Acenaphthene	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	1	ND	ND	ND	1.4	260
ITW-2	Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1310
ITW-2	Fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
ITW-2	Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	323
ITW-2	Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18
ITW-2	Phenanthrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	130
ITW-2	Pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	130
ITW-2	2- Methylnaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
ITW-2	Chromium	NS	ND	NS	ND	NS	3	NS	5.5	NS	39	NS	7.4	NS	25	15	18	15	5	14	50
ITW-10	Benzene	NS	NS	NS	NS	NS	NS	NS	NS	1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1
ITW-10	Total Xylenes	NS	NS	NS	NS	NS	NS	NS	NS	4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	*
ITW-10	Acenaphthylene	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	130
ITW-10	Fluorene	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	323
ITW-10	Naphthalene	NS	NS	NS	NS	NS	NS	NS	NS	4.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	18
ITW-10	Phenol	NS	NS	NS	NS	NS	NS	NS	NS	270	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	2630
ITW-10	2,4- Dimethylphenol	NS	NS	NS	NS	NS	NS	NS	NS	65	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	*
ITW-10	2- Methylphenol	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	*
ITW-10	3&4- Methylphenol	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	*
ITW-10	Chromium	NS	NS	NS	NS	NS	NS	NS	NS	4.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	50
ITW-11	Benzene	NS	NS	NS	NS	NS	NS	NS	NS	1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1
ITW-11	Acenaphthylene	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	130
ITW-11	Fluorene	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	323
ITW-11	Phenanthrene	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	130
ITW-11	Pyrene	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	130
ITW-11	Total Potentially Carcinogenic PAHs	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.003
ITW-11	Phenol	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	2630
ITW-11	2,4- Dimethylphenol	NS	NS	NS	NS	NS	NS	NS	NS	61	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	*
ITW-11	Arsenic	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	50
ITW-11	Chromium	NS	NS	NS	NS	NS	NS	NS	NS	16	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	50
ITW-13	Benzene	110	ND	92	120	120	100	99	8.9	93	63	67	25	97	94	110	81	88	100	100	1
ITW-13	Toluene	NS	NS	NS	NS	NS	NS	NS	NS	440	250	270	25	360	340	490	590	780	800	470	*
ITW-13	Ethylbenzene	NS	NS	NS	NS	NS	NS	NS	NS	320	170	190	25	360	260	310	240	210	310	310	*
ITW-13	Total Xylenes	NS	NS	NS	NS	NS	NS	NS	NS	250	142	142	50	540	84	281	202	120	269	244	*
ITW-13	Acenaphthene	13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND	ND	260
ITW-13	Acenaphthylene	ND	47	52	22	29	28	74	34	38	53	9.4	1	49	79	53	66	72	36	170	130
ITW-13	Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1310
ITW-13	Benzo (a) anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	PAH
ITW-13	Benzo (b) fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	PAH
ITW-13	Fluorene	2.1	2.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	323
ITW-13	Naphthalene	85	51	62	53	66	55	90	38	41	65	37	1	70	65	73	84	64	48	81	18
ITW-13	Phenanthrene	0.28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.23	ND	ND	0.16	ND	ND	130

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ITW-13	Total Potentially Carcinogenic PAHs	0.39	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003
ITW-13	1- Methylanthalene	NS	NS	NS	NS	NS	NS	NS	NS	2.1	ND	1.6	1	3.6	ND	8.6	7.8	8.5	ND	5.3	*
ITW-13	2- Methylanthalene	NS	NS	NS	NS	NS	NS	NS	NS	1.9	ND	1.4	1	5	2.8	11	12	9.8	ND	6.6	*
ITW-13	Phenol	6200	4700	6300	8900	8600	7500	8300	5600	6000	11000	7300	1000	8100	12000	9400	12000	10000	12000	10000	2630
ITW-13	2,4- Dimethylphenol	NS	NS	NS	NS	NS	NS	NS	NS	1600	3100	2100	10	2800	4200	3100	5000	3500	4600	ND	*
ITW-13	2- Methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
ITW-13	3&4- Methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
ITW-13	Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50
ITW-13	Chromium	ND	ND	ND	2.7	4.2	4.6	5	6.3	6.5	12	16	2	6.5	20	19	8.3	2.8	8.2	24	50
ITW-14	Benzene	140	ND	140	220	79	82	57	5.1	160	26	46	100	94	57	89	81	91	36	92	1
ITW-14	Toluene	NS	NS	NS	NS	NS	NS	NS	NS	2200	500	680	100	840	110	890	730	950	530	1200	*
ITW-14	Ethylbenzene	NS	NS	NS	NS	NS	NS	NS	NS	470	120	130	100	390	720	300	170	130	120	210	*
ITW-14	Total Xylenes	NS	NS	NS	NS	NS	NS	NS	NS	2000	474	478	200	840	185	720	760	499	480	860	*
ITW-14	Acenaphthene	2700	2200	ND	ND	ND	440	52	ND	ND	130	1	NS	410	260	1200	540	6600	790	260	
ITW-14	Acenaphthylene	1500	ND	ND	3000	ND	8700	1700	270	350	710	1800	50	NS	1200	860	4400	1700	28000	3300	130
ITW-14	Anthracene	28	37	ND	610	ND	400	130	7.2	ND	17	21	0.1	NS	36	32	270	94	2000	240	1310
ITW-14	Benzo (a) anthracene	NS	NS	NS	NS	NS	NS	NS	NS	NS	56	230	0.1	NS	ND	150	1100	110	3500	440	0.003
ITW-14	Benzo (a) pyrene	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	11	ND	NS	10	ND	ND	ND	<200	<100	0.003
ITW-14	Benzo (b) fluoranthene	NS	NS	NS	NS	NS	NS	NS	NS	NS	24	90	0.05	NS	ND	ND	400	16	1500	250	0.003
ITW-14	Benzo (g,h,i) perylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	500	<120	0.003
ITW-14	Benzo (k) flouranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	0.003
ITW-14	Chrysene	NS	NS	NS	NS	NS	NS	NS	NS	NS	330	570	0.1	NS	320	250	1500	150	7600	1000	0.003
ITW-14	Dibenzo (a,h) anthracene	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	33	ND	NS	ND	ND	ND	ND	<200	<100	0.003
ITW-14	Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003
ITW-14	Fluoranthene	NS	NS	NS	NS	NS	NS	NS	NS	NS	90	230	0.25	NS	170	140	600	160	8800	900	*
ITW-14	Fluorene	220	380	ND	1800	4400	1600	560	47	53	94	540	0.1	NS	370	340	1600	480	8500	1200	323
ITW-14	Naphthalene	1300	670	ND	2500	8200	4200	760	170	140	360	1200	50	NS	640	440	1800	790	14000	1300	18
ITW-14	Phenanthrene	140	240	ND	1500	5000	2800	530	31	40	78	310	0.5	NS	200	170	970	340	3900	740	130
ITW-14	Pyrene	100	ND	ND	ND	ND	970	300	ND	ND	18	26	0.1	NS	78	41	360	100	2300	170	130
ITW-14	1- Methylanthalene	NS	NS	NS	NS	NS	NS	NS	NS	92	ND	440	1	NS	530	490	2300	540	11000	1600	*
ITW-14	2- Methylanthalene	NS	NS	NS	NS	NS	NS	NS	NS	84	140	630	1	NS	560	480	2400	900	14000	1900	*
ITW-14	Total Potentially Carcinogenic PAHs	337.6	41	6000	ND	ND	ND	26	ND	ND	410	934	171	NS	330	400	3000	276	12600	1690	0.003
ITW-14	Phenol	3700	ND	5500	3200	8500	580	ND	3300	9000	2100	4400	400	NS	2100	4300	4600	4100	1200	4500	2630
ITW-14	2,4- Dimethylphenol	NS	NS	NS	NS	NS	NS	NS	NS	2500	4400	ND	10	NS	6000	6200	9400	8600	5000	9400	*
ITW-14	2- Methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
ITW-14	3&4- Methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
ITW-14	Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13	50
ITW-14	Chromium	ND	ND	ND	11	32	4	ND	12	ND	ND	ND	4.6	7.9	4.9	25	20	4.8	2.4	44	50
WMW-17E	Benzene	4.2	3.9	4	2.5	4.3	3.7	3.5	3.5	2.3	1.8	ND	ND	NS	ND	NS	NS	ND	ND	ND	1
WMW-17E	Ethylbenzene	NS	NS	NS	NS	NS	NS	NS	NS	ND	1.6	ND	ND	NS	ND	NS	NS	5.1	ND	ND	*
WMW-17E	Total Xylenes	NS	NS	NS	NS	NS	NS	NS	NS	11	3.2	1.1	ND	NS	ND	NS	NS	5.6	ND	ND	*
WMW-17E	Acenaphthene	ND	ND	ND	ND	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	ND	ND	ND	260
WMW-17E	Acenaphthylene	ND	ND	ND	1.7	4.4	7.2	8.1	2.5	1.3	3.9	1.5	ND	1.2	1.2	NS	NS	5.1	ND	ND	130
WMW-17E	Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	ND	ND	ND	1310
WMW-17E	Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	ND	ND	ND	323
WMW-17E	Naphthalene	ND	ND	ND	2.6	10	11	11	3.6	2.1	5.1	1.6	1	1.4	ND	NS	NS	3.6	ND	ND	18
WMW-17E	Phenanthrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	ND	ND	ND	130
WMW-17E	Pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	ND	ND	ND	130
WMW-17E	Total Potentially Carcinogenic PAHs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	ND	ND	ND	0.003
WMW-17E	1- Methylanthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2	ND	ND	*
WMW-17E	2- Methylanthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3	ND	ND	*

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WMW-17E	2,4- Dimethylphenol	NS	NS	NS	NS	NS	NS	NS	NS	28	34	ND	ND	ND	ND	NS	NS	15	ND	ND	*
WMW-17E	PCP	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	ND	ND	ND	0.1
WMW-17E	Phenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	ND	ND	ND	2630
WMW-17E	Chromium	6	ND	ND	ND	3.1	ND	ND	2.2	2.6	4.5	ND	9.4	6.6	7.1	NS	NS	22	2.2	7	50
WMW-18E	Benzene	ND	ND	ND	ND	ND	<b>4.1</b>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
WMW-18E	Ethylbenzene	NS	NS	NS	NS	NS	NS	NS	NS	ND	1.4	2	1	ND	ND	ND	ND	ND	ND	ND	*
WMW-18E	Total Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1	1.3	1.2	ND	1.7	ND	ND	ND	*
WMW-18E	Acenaphthene																	ND	ND	ND	260
WMW-18E	Acenaphthylene	ND	ND	ND	ND	ND	3.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	130
WMW-18E	Benzo(b)flouranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<b>0.11</b>	ND	<b>0.3</b>	ND	<b>0.14</b>	ND	ND	0.003
WMW-18E	Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	323
WMW-18E	Naphthalene	ND	ND	ND	ND	ND	8.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18
WMW-18E	Phenanthrene																	<b>ND</b>	<b>ND</b>	<b>ND</b>	130
WMW-18E	Pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	130
WMW-18E	Total Potentially Carcinogenic PAHs	ND	ND	ND	ND	ND	<b>0.1</b>	<b>0.14</b>	ND	ND	ND	ND	ND	<b>0.11</b>	ND	<b>0.3</b>	ND	<b>0.14</b>	ND	ND	0.003
WMW-18E	1- Methylnaphthalene	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	*
WMW-18E	2- Methylnaphthalene	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	*
WMW-18E	PCP	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50
WMW-18E	2,4- Dimethylphenol	NS	NS	NS	NS	NS	NS	NS	NS	46	62	58	10	12	47	ND	76	11	ND	ND	*
WMW-18E	Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	13	ND	ND	50
WMW-18E	Chromium	34	22	20	15	32	22	13	15	16	29	20	2	NS	22	20	19	170	23	11	50
ESE-002	Benzene	NS	NS	NS	<b>2</b>	<b>2.9</b>	<b>2.3</b>	<b>1.7</b>	<b>1.8</b>	ND	ND	ND	ND	<b>2.2</b>	ND	ND	ND	<b>1.6</b>	ND	ND	1
ESE-002	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
ESE-002	Total Xylenes	NS	NS	NS	NS	NS	NS	NS	NS	ND	2.9	1.1	2	4.2	1	ND	1.5	1.5	3.8	ND	*
ESE-002	Acenaphthene	NS	NS	NS	ND	10	16	80	ND	12	20	49	1	35	30	1	4	50	32	5	260
ESE-002	Acenaphthylene	NS	NS	NS	ND	ND	2.7	3.9	ND	1.9	6.1	4.5	ND	4.6	1.6	ND	ND	4	3.7	ND	130
ESE-002	Anthracene	NS	NS	NS	0.17	0.16	0.31	0.62	ND	ND	0.97	0.9	0.1	1.1	2.7	ND	0.22	1.1	1.6	0.39	1310
ESE-002	Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<b>0.11</b>	0.003
ESE-002	Chrysene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003
ESE-002	Fluoranthene	NS	NS	NS	NS	NS	NS	NS	NS	1.2	2	0.79	ND	0.96	5.7	ND	3.8	5.9	5.2	2.6	*
ESE-002	Fluorene	NS	NS	NS	1.3	7.9	15	60	0.55	4.8	13	22	0.5	23	24	ND	2	28	17	4.4	323
ESE-002	Naphthalene	NS	NS	NS	4.6	<b>22</b>	<b>62</b>	<b>420</b>	2.5	<b>31</b>	<b>54</b>	<b>58</b>	1	<b>85</b>	<b>61</b>	ND	2.3	6.9	31	ND	18
ESE-002	Phenanthrene	NS	NS	NS	1.3	3	6.8	49	0.79	1.5	21	22	0.2	4.8	24	ND	2.5	17	27	2.4	130
ESE-002	Pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.7	3.6	1.6	130
ESE-002	1- Methylnaphthalene	NS	NS	NS	0.44	0.66	0.78	0.69	ND	0.76	1.2	0.81	ND	0.43	1.4	ND	2.4	15	12	ND	*
ESE-002	2-Methylnaphthalene	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	6.1	1	10	9.5	ND	1.2	24	13	ND	*
ESE-002	Total Potentially Carcinogenic PAHs	NS	NS	NS	NS	NS	NS	NS	NS	<b>18</b>	<b>36</b>	<b>81</b>	<b>1</b>	<b>54</b>	<b>44</b>	ND	<b>2.1</b>	ND	ND	<b>0.11</b>	0.003
ESE-002	Phenol	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1800	ND	ND	2630
ESE-002	2,4- Dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	670	ND	ND	*
ESE-002	Chromium	NS	NS	NS	3.9	2.4	ND	ND	7	6	3.2	ND	32	6.5	9.3	10	11	7.6	5.4	12	50
ESE-004	Benzene	ND	<b>3.9</b>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
ESE-004	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
ESE-004	Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	130
ESE-004	Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1310
ESE-004	Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	323
ESE-004	Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18
ESE-004	Phenanthrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	130
ESE-004	2,4- Dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
ESE-004	Phenol	15	83	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2630
ESE-004	Chromium	6	ND	ND	5.1	4.4	5.8	4.3	3.8	5.3	4.1	ND	33	14	6.8	10	14	18	7	8.4	50
ESE-005	Benzene	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1

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ESE-005	Chromium	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	50
ESE-005	PCP	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.1
ESE-005	Phenol	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	2630
ESE-005	Naphthalene	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	18
ESE-005	Acenaphthylene	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	130
ESE-005	Acenaphthene	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	260
ESE-005	Fluorene	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	323
ESE-005	Phenanthrene	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	130
ESE-005	Anthracene	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1310
ESE-005	Pyrene	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	130
ESE-005	Total Potentially Carcinogenic PAHs	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.003
ESE-007	Benzene	<b>7.4</b>	ND	<b>3.4</b>	<b>7</b>	<b>4.5</b>	<b>4.2</b>	<b>2.8</b>	ND	<b>1.2</b>	<b>4.4</b>	<b>7</b>	<b>1</b>	<b>7.4</b>	<b>4.7</b>	<b>12</b>	<b>7.9</b>	<25	<b>22</b>	<b>19</b>	<b>1</b>
ESE-007	Toluene	NS	NS	NS	NS	NS	NS	NS	NS	18	66	48	1	160	25	300	75	480	280	350	*
ESE-007	Ethylbenzene	NS	NS	NS	NS	NS	NS	NS	NS	6.1	20	10	1	34	16	45	30	42	62	62	*
ESE-007	Total Xylenes	NS	NS	NS	NS	NS	NS	NS	NS	5.7	26.7	10.3	2	43	4.7	85	33	35	91	85	*
ESE-007	Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	260
ESE-007	Acenaphthylene	ND	ND	ND	3.3	ND	ND	3.6	1.9	ND	6.2	ND	2.3	6	3.2	6.1	6.4	12	8	6.9	130
ESE-007	Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1310
ESE-007	Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	323
ESE-007	Naphthalene	ND	ND	ND	7.1	5.3	4.3	3.8	ND	ND	5.9	1.4	1	6.7	4.6	7.1	8.9	7.5	11	9.5	18
ESE-007	Phenanthrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	130
ESE-007	1-Methylnaphthalene	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	1.7	1.5	2	1.7	*
ESE-007	2-Methylnaphthalene	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	1.2	1.2	1.6	1.6	1.2	ND	1.8	*
ESE-007	Total Potentially Carcinogenic PAHs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003
ESE-007	Phenol	220	89	230	910	540	720	360	110	97	540	280	10	900	670	1500	<b>2900</b>	1700	<b>4000</b>	<b>4600</b>	2630
ESE-007	2,4- Dimethylphenol	NS	NS	NS	NS	NS	NS	NS	NS	23	130	66	10	33	670	520	790	630	640	<200	*
ESE-007	2- Methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
ESE-007	3&4- Methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
ESE-007	Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<b>ND</b>	41	ND	ND	50
ESE-007	Chromium	10	8	16	22	9.9	8.5	6.1	10	20	33	16	2	NS	30	8.8	16	510	32	65	50

Notes:  
All results are in ug/l (micrograms per liter).  
ND = Not detected above the MDL.  
NS = Not sampled for indicated compound.  
\* = No ROD Cleanup Goal for compound. Tested as part of complete scan for tests 8021, 8270 or 8310.  
Y = Target compounds were quantified from a secondary dilution due to analyte abundance in the sample.  
P = Identification of target analytes using LC methodology is based on retention time. Discretion should be employed during data review and interpretation of results for this target compound.  
\*\* = Free-phase product was observed in the groundwater sample collected at ITW-14 during the September 2007 sampling event.  
PAH = Included as Total Potentially Carcinogenic PAHs.  
Bolded values meet or exceed indicated ROD cleanup goals.

**Summary of Surficial Aquifer Groundwater Data**  
**March 2001 - December 2005**  
**Eastern Site, Gainesville, Florida**

WELL DESIGNATION	PARAMETERS	Mar-01	Jun-01	Oct-01	Jan-02	Mar-02	Jun-02	Sep-02	Dec-02	Mar-03	Jun-03	Sep-03	Dec-03	Mar-04	Jun-04	Sep-04	Dec-04	Mar-05	Jun-05	Sep-05	Dec-05	ROD Clean-up Goal
ITW-1	Chromium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50
ITW-1	Acenaphthene	1.4	ND	ND	ND	ND	ND	ND	ND	0.67	ND	0.72	0.6	0.19	0.50	0.47	ND	ND	ND	ND	ND	260
ITW-1	Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.079	0.044	ND	ND	ND	ND	ND	1310
ITW-1	Fluorene	0.93	0.56	ND	1	1.1	0.74	ND	0.66	0.92	0.54	0.81	0.49	0.32	0.31	0.37	ND	ND	ND	ND	ND	323
ITW-1	Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.60	ND	ND	ND	ND	ND	18
ITW-1	Phenanthrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.045	ND	ND	ND	ND	ND	ND	130
ITW-1	1- Methylanthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.52	ND	ND	ND	ND	ND	ND	*
ITW-1	2- Methylanthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.66	ND	ND	ND	ND	ND	ND	*
ITW-2	Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.7	ND	ND	ND	ND	ND	ND	1
ITW-2	Total Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4	ND	ND	ND	ND	ND	ND	*
ITW-2	Acenaphthene	1.3	2	ND	ND	ND	ND	ND	ND	ND	0.66	1.3	0.8	0.12	67	ND	ND	ND	ND	ND	ND	260
ITW-2	Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.9	ND	ND	ND	ND	ND	ND	1310
ITW-2	Fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND	*
ITW-2	Fluorene	ND	0.69	1.3	1.7	2.2	1.2	1.3	1.1	0.98	1	1.6	1.3	0.61	52	0.19	ND	0.56	ND	0.52	ND	323
ITW-2	Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	28	ND	ND	ND	ND	ND	ND	18
ITW-2	Phenanthrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	42	ND	ND	ND	ND	ND	ND	130
ITW-2	Pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.8	ND	ND	ND	ND	ND	ND	130
ITW-2	2- Methylanthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	58	ND	ND	ND	ND	ND	ND	*
ITW-2	Chromium	ND	ND	ND	ND	ND	16	32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50
ITW-10	Benzene	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1
ITW-10	Total Xylenes	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	*
ITW-10	Acenaphthylene	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	130
ITW-10	Fluorene	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	323
ITW-10	Naphthalene	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	18
ITW-10	Phenol	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	2630
ITW-10	2,4- Dimethylphenol	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	*
ITW-10	2- Methylphenol	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	*
ITW-10	3&4- Methylphenol	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	*
ITW-10	Chromium	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	50
ITW-11	Benzene	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1
ITW-11	Acenaphthylene	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	130
ITW-11	Fluorene	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	323
ITW-11	Phenanthrene	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	130
ITW-11	Pyrene	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	130
ITW-11	Total Potentially Carcinogenic PAHs	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.003
ITW-11	Phenol	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	2630
ITW-11	2,4- Dimethylphenol	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	*
ITW-11	Arsenic	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	50
ITW-11	Chromium	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	50
ITW-13	Benzene	90	79	92	93	81	NS	71	78	82	85	55	120	61	72	ND	63	ND	ND	ND	58	1
ITW-13	Toluene	750	820	620	550	620	NS	590	460	460	430	250	350	250	300	350	230	190	170	170	270	*
ITW-13	Ethylbenzene	310	300	340	320	350	NS	270	320	320	300	220	370	240	240	260	250	190	230	240	260	*
ITW-13	Total Xylenes	228	242	232	229	222	NS	162	171	208	174	116	255	154	135	144	150	120	150	140	160	*
ITW-13	Acenaphthene	ND	ND	ND	ND	<5	NS	ND	ND	ND	0.52	ND	ND	0.17	ND	ND	ND	ND	ND	ND	ND	260
ITW-13	Acenaphthylene	19	86	ND	ND	34	NS	63	53	56	24	ND	ND	13	1.2	12	ND	ND	ND	9.8	ND	130
ITW-13	Anthracene	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	0.0084	ND	ND	ND	ND	ND	ND	ND	1310
ITW-13	Benzo (a) anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.012	ND	ND	ND	ND	ND	ND	ND	0.003
ITW-13	Benzo (b) fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.031	ND	ND	ND	ND	ND	ND	ND	0.003
ITW-13	Fluorene	ND	0.72	ND	ND	<2.5	NS	0.9	0.52	0.56	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	323
ITW-13	Naphthalene	55	88	66	64	52	NS	78	68	84	55	80	35	28	36	34	ND	24	23	21	31	18
ITW-13	Phenanthrene	ND	0.21	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	130
ITW-13	Total Potentially Carcinogenic PAHs	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	0.043	ND	ND	ND	ND	ND	ND	ND	0.003
ITW-13	1- Methylanthalene	8.7	7.3	8.6	6.7	5.8	NS	5.3	5.4	2.5	4.3	ND	3	1.2	ND	ND	ND	ND	ND	ND	ND	*
ITW-13	2- Methylanthalene	10	12	8.8	8.7	7.9	NS	6	8.1	5.8	5.5	ND	3.4	2.4	1.5	0.99	ND	ND	ND	1.6	ND	*
ITW-13	Phenol	8200	7700	11000	9000	8200	NS	8600	9600	9000	4100	2000	5800	7700	4200	10000	5300	2400	ND	940	5200	2630
ITW-13	2,4- Dimethylphenol	3100	4800	3400	2600	4100	NS	2500	3700	3000	3300	2600	2000	2800	2200	2700	2900	1800	990	2600	2200	*

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WELL DESIGNATION	PARAMETERS	Mar-01	Jun-01	Oct-01	Jan-02	Mar-02	Jun-02	Sep-02	Dec-02	Mar-03	Jun-03	Sep-03	Dec-03	Mar-04	Jun-04	Sep-04	Dec-04	Mar-05	Jun-05	Sep-05	Dec-05	ROD Clean-up Goal	
ITW-13	2- Methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS	NS	1800	440	1700	NS	*	
ITW-13	3&4- Methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS	NS	6000	950	2700	NS	*	
ITW-13	Arsenic	12	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	50	
ITW-13	Chromium	13	ND	ND	ND	ND	NS	14	14	22	ND	ND	ND	12	ND	ND	ND	14	ND	ND	ND	50	
ITW-14	Benzene	<25	<25	25	62	54	NS	39	33	ND	ND	30	45	31	43	ND	33	26	ND	ND	ND	1	
ITW-14	Toluene	490	380	460	850	860	NS	740	610	490	360	590	880	540	730	300	630	440	470	380	350	*	
ITW-14	Ethylbenzene	140	120	140	190	190	NS	190	140	130	120	120	210	140	140	ND	150	110	130	110	94	*	
ITW-14	Total Xylenes	465	429	465	620	590	NS	490	453	468	345	395	624	389	444	ND	470	320	440	330	270	*	
ITW-14	Acenaphthene	54	160	90	59	<100	NS	220	360	170	66	34	36	240	77	4.8	60	ND	ND	ND	ND	260	
ITW-14	Acenaphthylene	360	920	560	ND	700	NS	1800	1100	1000	440	ND	76	1000	370	83	ND	ND	ND	420	ND	130	
ITW-14	Anthracene	18	36	20	4.4	18	NS	39	62	44	12	ND	9.1	76	0.30	2.7	ND	ND	ND	26.0	3.2	1310	
ITW-14	Benzo (a) anthracene	15	110	93	22	28	NS	220	310	180	51	ND	3.8	ND	ND	ND	ND	ND	ND	ND	2.8	0.003	
ITW-14	Benzo (a) pyrene	ND	<13	ND	ND	<20	NS	ND	ND	7.3	1.1	ND	ND	17	ND	ND	ND	ND	ND	ND	4.6	0.003	
ITW-14	Benzo (b) fluoranthene	13	88	19	4.6	12	NS	46	44	60	4.8	ND	ND	120	75	ND	ND	ND	ND	ND	ND	0.003	
ITW-14	Benzo (g,h,i) perylene	ND	<16	ND	ND	<25	NS	ND	ND	ND	ND	ND	ND	8.1	3.8	ND	ND	ND	ND	ND	11.0	0.003	
ITW-14	Benzo (k) flouranthene	NS	NS	0.59	ND	<5	NS	ND	ND	ND	ND	ND	ND	24	16	ND	ND	ND	ND	ND	ND	9.5	0.003
ITW-14	Chrysene	26	260	13	27	160	NS	240	340	260	56	ND	4	ND	28	ND	ND	900	ND	170	5.7	0.003	
ITW-14	Dibenzo (a,h) anthracene	ND	<13	24	ND	<20	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.3	0.003	
ITW-14	Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	34	24	ND	ND	ND	ND	ND	0.7	0.003	
ITW-14	Fluoranthene	45	130	63	16	93	NS	160	230	120	52	ND	17	ND	260	ND	ND	ND	ND	ND	140	*	
ITW-14	Fluorene	77	69	89	53	83	NS	200	290	230	99	ND	20	350	260	20	ND	ND	ND	ND	ND	323	
ITW-14	Naphthalene	290	210	380	33	330	NS	1000	570	520	310	460	200	930	1000	170	530	ND	ND	400	ND	18	
ITW-14	Phenanthrene	50	78	64	6.9	57	NS	200	220	190	43	42	69	480	240	20	120	210	ND	140	ND	130	
ITW-14	Pyrene	13	100	30	4.3	<10	NS	29	ND	7.3	11	ND	13	ND	24	ND	ND	ND	ND	ND	23	130	
ITW-14	1- Methylnaphthalene	110	260	180	150	180	NS	390	450	300	130	300	140	410	230	41	350	ND	ND	170	ND	*	
ITW-14	2- Methylnaphthalene	180	350	210	140	100	NS	530	440	180	150	220	200	1200	690	60	470	ND	ND(J)	250	ND	*	
ITW-14	Total Potentially Carcinogenic PAHs	54	458	149.59	53.6	200	NS	506	694	507.3	112.9	ND	7.8	195	143	0	0	900	0	170	26.6	0.003	
ITW-14	Phenol	130	<250	730	3600	3300	NS	1100	900	ND	140	ND	280	ND	1100	ND	750	ND	290	ND	ND	2630	
ITW-14	2,4- Dimethylphenol	940	2000	3300	6300	7000	NS	3100	3600	1800	1900	4700	2000	8400	ND	2600	4600	1800	4400	1900	2700	*	
ITW-14	2- Methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS	NS	1800	2200	640	NS	*	
ITW-14	3&4- Methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS	NS	3500	2700	1000	NS	*	
ITW-14	Arsenic	ND	ND	ND	ND	ND	NS	ND	14	21	16	14	15	12	ND	11	ND	ND	ND	ND	ND	50	
ITW-14	Chromium	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50	
WMW-17E	Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	
WMW-17E	Ethylbenzene	ND	ND	ND	ND	ND	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*	
WMW-17E	Total Xylenes	ND	ND	ND	ND	ND	2.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*	
WMW-17E	Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.37	0.26	ND	0.30	ND	ND	ND	ND	ND	ND	260	
WMW-17E	Acenaphthylene	ND	1.4	ND	ND	ND	1.1	1.1	ND	ND	ND	ND	ND	0.14	0.48	ND	ND	ND	ND	ND	ND	130	
WMW-17E	Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND	1310	
WMW-17E	Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	323	
WMW-17E	Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.40	ND	ND	ND	ND	ND	ND	18	
WMW-17E	Phenanthrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	130	
WMW-17E	Pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	130	
WMW-17E	Total Potentially Carcinogenic PAHs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	
WMW-17E	1- Methylnaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.089	ND	ND	ND	ND	ND	ND	*	
WMW-17E	2- Methylnaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.32	ND	ND	ND	ND	ND	ND	*	
WMW-17E	2,4- Dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*	
WMW-17E	PCP	ND	ND	<10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1	
WMW-17E	Phenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50	
WMW-17E	Chromium	ND	ND	ND	ND	ND	73	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50	
WMW-18E	Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	
WMW-18E	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*	
WMW-18E	Total Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*	
WMW-18E	Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.056	0.12	ND	ND	ND	ND	ND	260	
WMW-18E	Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	130	
WMW-18E	Benzo(b)flouranthene	ND	ND	ND	ND	ND	0.26	ND	ND	ND	ND	ND	ND	ND	0.0047	ND	ND	ND	ND	ND	ND	0.003	





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ESE-007	Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.14	ND	ND	ND(J)	ND	ND	260
ESE-007	Acenaphthylene	ND	15	6.2	ND	4.8	ND	5.6	7.5	ND	1.5	ND	ND	ND	1.2	1.8	ND	ND	1.3(J)	ND	ND	130
ESE-007	Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1310
ESE-007	Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	323
ESE-007	Naphthalene	9.7	7	8.2	7.6	4.9	7.3	7.4	7.7	2.6	2.2	3.8	2.3	1.5	4.2	3.5	5.2	1.9	2.3	2.3	ND	18
ESE-007	Phenanthrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	130
ESE-007	1-Methylnaphthalene	2.4	ND	2.8	2	ND	ND	1.4	1.1	ND	ND	ND	0.58	ND	ND	ND	ND	ND	ND	ND	ND	*
ESE-007	2-Methylnaphthalene	1.7	ND	2.5	1.7	ND	ND	1.3	1.3	ND	ND	ND	0.54	ND	ND	ND	ND	ND	ND	ND	ND	*
ESE-007	Total Potentially Carcinogenic PAHs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003
ESE-007	Phenol	<b>5800</b>	<b>6800</b>	<b>5100</b>	<b>4600</b>	1900	470	<b>4500</b>	<b>3700</b>	650	390	52	28	33	650	1000	290	40	330	130	490	2630
ESE-007	2,4- Dimethylphenol	660	<800	630	700	380	540	550	580	140	80	62	40	41	280	210	ND	35	99	64	95	*
ESE-007	2- Methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS	NS	15	61	36	67	*
ESE-007	3&4- Methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS	NS	79	320	170	360	*
ESE-007	Arsenic	16	ND	12	10	ND	35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50
ESE-007	Chromium	13	21	<b>96</b>	ND	ND	<b>560</b>	<b>1900</b>	<b>180</b>	<b>22</b>	190	<b>1900</b>	<b>1900</b>	<b>87</b>	<b>490</b>	<b>510</b>	<b>240</b>	<b>63</b>	37	24	11	50

Notes:

All results are in ug/l (micrograms per liter).

ND = Not detected above the MDL.

NS = Not sampled for indicated compound.

\* = No ROD Cleanup Goal for compound. Tested as part of complete scan for tests 8021, 8270 or 8310.

Y = Target compounds were quantified from a secondary dilution due to analyte abundance in the sample.

P = Identification of target analytes using LC methodology is based on retention time. Discretion should be employed during data review and interpretation of results for this target compound.

\*\* = Free-phase product was observed in the groundwater sample collected at ITW-14 during the September 2007 sampling event

PAH = Included as Total Potentially Carcinogenic PAHs.

Bolded values meet or exceed indicated ROD cleanup goals.





**Summary of Surficial Aquifer Groundwater Data**  
**March 2006 - December 2010**  
**Eastern Site, Gainesville, Florida**

WELL DESIGNATION	PARAMETERS	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Mar-10	Jun-10	Spet-10	Dec-10	ROD Clean-up Goal		
ESE-004	Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*	
ESE-004	Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	
ESE-004	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*	
ESE-004	Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	130	
ESE-004	Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,310	
ESE-004	Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	323	
ESE-004	Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18	
ESE-004	Phenanthrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	130	
ESE-004	2,4- Dimethylphenol	14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*	
ESE-004	Phenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2,630	
ESE-004	Chromium	ND	ND	12	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50	
ESE-007	Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	61	*
ESE-007	Benzene	<b>1.1</b>	<b>4.7</b>	<b>3</b>	<b>11</b>	<b>9.5</b>	<b>20</b>	<b>14</b>	<b>12</b>	<b>9.3</b>	<b>11</b>	<b>6.8</b>	<b>5.2</b>	<b>1.8</b>	<b>2.8</b>	<b>3.1</b>	<b>5.6</b>	<b>2.6</b>	<b>2.7</b>	ND	<b>6.4</b>	<b>1</b>		
ESE-007	2-Butanone (MEK)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	27.0	*	
ESE-007	Toluene	11	26	2.2	190	210	290	190	160	120	170	7.1	5.2	1.1	3.7	4.5	15	5.7	6.0	ND	22.0	*		
ESE-007	Ethylbenzene	3.9	13	1.5	29	31	56	37	34	31	40	14	14	2.6	6.9	5.9	11	5.9	6.0	ND	19.0	*		
ESE-007	Total Xylenes	3.9	14	4.5	31	30	61	44	39	34	44	17	13	3.4	9.1	8.6	13	6.5	7.7	ND	19	*		
ESE-007	Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	260	
ESE-007	Acenaphthylene	ND	ND	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	130	
ESE-007	Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,310	
ESE-007	Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	323	
ESE-007	Naphthalene	ND	1.6	1.6	ND	4.5	10	12	6.6	3.7	7.5	2.1	1.1	1.4	1.1	2.1	6.2	2	ND	ND	ND	18		
ESE-007	Phenanthrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	130	
ESE-007	1-Methylnaphthalene	ND	ND	ND	ND	0.93	2.5	ND	ND	ND	1.9	ND	ND	ND	ND	ND	1.2	ND	ND	ND	ND	ND	*	
ESE-007	2-Methylnaphthalene	ND	ND	ND	ND	ND	1.3	ND	ND	ND	1.4	ND	ND	ND	ND	ND	1.1	ND	ND	ND	ND	ND	*	
ESE-007	Total Potentially Carcinogenic PAHs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	
ESE-007	Phenol	230	270	58	1400	<b>3400</b>	1500	2000	1400	390	<b>2700</b>	ND	16	ND	33	41	ND	77	98	61	160	2,630		
ESE-007	2,4- Dimethylphenol	56	140	36	330	600	520	680	410	230	500	220	88	48	59	64	ND	56	71	64	170	*		
ESE-007	2- Methylphenol	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	*	
ESE-007	3&4- Methylphenol	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	*	
ESE-007	Arsenic	ND	14	ND	20	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50	
ESE-007	Chromium	11	<b>110</b>	<b>150</b>	<b>230</b>	ND	ND	ND	ND	ND	ND	ND	ND	ND	28	ND	ND	ND	ND	ND	ND	ND	50	

Notes:

+ = ITW-2 VOC sample bottle broken.

All results are in ug/l (micrograms per liter).

ND = Not detected above the MDL.

NS = Not sampled for indicated compound.

NA = Not analyzed

\* = No ROD Cleanup Goal for compound. Tested as part of complete scan for tests 8021, 8270 or 8310.

Y = Target compounds were quantified from a secondary dilution due to analyte abundance in the sample.

P = Identification of target analytes using LC methodology is based on retention time. Discretion should be employed during data review and interpretation of results for this target compound.

\*\* = Free-phase product was observed in the groundwater sample collected at ITW-14 during the September 2007 sampling event.

PAH = Included as Total Potentially Carcinogenic PAHs.

Bolded values meet or exceed indicated ROD cleanup goals.

p = The % RPD between the primary and confirmation column/detector is > 40%. The lower value has been reported.

E = Result exceeded calibration range.









**Summary of Surficial Aquifer Groundwater Data  
March 2011 - December 2015  
Eastern Site, Gainesville, Florida**

WELL DESIGNATION	PARAMETERS	Mar-11	Jun-11	Aug-11	Nov-11	Mar-12	Jun-12	Aug-12	Dec-12	Mar-13	May-13	Sep-13	Dec-13	Mar-14	Jun-14	Aug-14	Dec-14	Mar-15	Jun-15	Sep-15	Dec-15	ROD Clean-up Goal	
ESE-007	Naphthalene	ND	ND	ND	ND	ND	<b>70</b>	2.6	ND	ND	3.7	2.8	ND	2.7	1.4	1.8	1.6 J	1.0	0.16 J	2.2	1.3	18	
ESE-007	Phenanthrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	130
ESE-007	Total Potentially Carcinogenic PAHs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003
ESE-007	Phenol	83	85	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2630
ESE-007	Diethylphthalate	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	3.0	ND	ND	ND	ND	ND	ND	ND	*
ESE-007	2,4- Dimethylphenol	46	ND	68	ND	420	370	150	76	37	28	28	ND	26	16	19	17 J	6.7	1.2 J	14.0	10	*	
ESE-007	2- Methylphenol	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
ESE-007	3&4- Methylphenol	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
ESE-007	Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.3 J	ND	50
ESE-007	Chromium	ND	12	ND	<b>110</b>	12	13	ND	ND	ND	ND	ND	10	ND	ND	ND	11	11	13	9.7 J	10	50	

Notes:

+ = ITW-2 VOC sample bottle broken

All results are in ug/l (micrograms per liter).

ND = Not detected above the MDL.

NS = Not sampled for indicated compound.

NA = Not analyzed

\* = No ROD Cleanup Goal for compound. Tested as part of complete scan for tests 8021, 8270 or 8310.

Y = Target compounds were quantified from a secondary dilution due to analyte abundance in the sample.

P = Identification of target analytes using LC methodology is based on retention time. Discretion should be employed during data review and interpretation of results for this target compound.

\*\* = Free-phase product was observed in the groundwater sample collected at ITW-14 during the September 2007 sampling event.

PAH = Included as Total Potentially Carcinogenic PAHs.

Bolded values meet or exceed indicated ROD cleanup goals.

p=The % RPD between the primary and confirmation column/detector is > 40%. The lower value has been reported

E = Result exceeded calibration range.

**A.5**  
**Groundwater Data Summary – Expanded Sampling Events**

**Table A.5.1 Expanded Scope Groundwater Quality Data - March 2005**

Detected Compounds of Concern	ROD Cleanup Level	Well Units	ITW-1	ITW-2	ITW-4	ITW-6	ITW-7	ITW-8	ITW-9	ITW-11	ITW-15	ITW-16	ITF-3	ITW-13	ITW-14	WMW-17E	WMW-18E	ESE-002	ESE-004	ESE-007
Benzene	1	µg/L				<b>22</b>	<b>27</b>	<b>15</b>	<b>11</b>						<b>26</b>			<b>2.3</b>		<b>2.3</b>
Acenaphthene	260	µg/L				32														
Acenaphthylene	130	µg/L					42													
Anthracene	1310	µg/L																		
Fluorene	323	µg/L	0.56			27												35		
Naphthalene	18	µg/L				<b>210</b>	<b>32</b>				4.6	1.6	7.6	2						1.9
Phenanthrene	130	µg/L				5.7									210			36		
Pyrene	130	µg/L																		
Total Potentially Carcinogenic PAHs	0.003	µg/L									0.32				<b>900</b>					
Phenol	2630	µg/L					260				94			2400						40
Arsenic	50	µg/L				20														
Chromium	100*	µg/L				97		100		13	20	<b>550</b>		14			17			63

Notes:

Blank = Non-detect

\* The new EPA MCL for chromium is 100 mg/L. As per the ROD, this new MCL replaces the previous cleanup goals of 50 mg/L.

**Bold** = Analyte detected above ROD cleanup goal

**Table A.5.2 Expanded Scope Groundwater Quality Data – March 2005 Terpenes and Terpenoids**

<b>Well Designation</b>	<b>Compound</b>	<b>Concentration (µg/L)</b>
ITW-4	All Compounds	ND
ITW-8	Borneol	160
	Camphor	650
ITW-9	Camphor	2000
	Cineole	110
ITW-11	Camphene	0.72
	Limonene	0.96

Note:

ND = Non-detect

Table A.5.3 Groundwater Quality Data - June-August 2008

Detected Compounds of Concern	ROD Cleanup Level	Well Units	ITW-1	ITW-2	ITW-4	ESE-005	ESE-006	ITW-6	ITW-7	ITW-8	ITW-9	ITW-11	ITW-15	ITW-16	ITF-3	
															(June- 2008) <sup>a</sup>	(Aug- 2008) <sup>a</sup>
Benzene	1	µg/L				10	37	3	4.4	14	21		2.8	2.1	1.2	
Ethylbenzene	*	µg/L				110	140	65	4.1	18	65		8.7	1.1		
Toluene	*	µg/L				24	48	34		170	720		190			
Xylenes, Total	*	µg/L				230	140	97	3.1	33	83	4.3	13	11		2.1
MTBE	*	µg/L														
Acenaphthene	260	µg/L					7.2	40								
Acenaphthylene	130	µg/L														
Anthracene	1310	µg/L														
Benzo(b)fluoranthene	*	µg/L														
Chrysene	*	µg/L														
Fluoranthene	*	µg/L					28									
Fluorene	323	µg/L						13								
1-Methylnaphthalene	*	µg/L					70	46								
2-Methylnaphthalene	*	µg/L					53	45								
Naphthalene	18	µg/L					63	250						6.7	20	11
Phenanthrene	130	µg/L					20									
Pyrene	130	µg/L														
Total Potentially Carcinogenic PAHs	0.003	µg/L														
Phenol	2630	µg/L								82			120		29	
2,4-Dimethylphenol	*	µg/L				31		110		240	1000		39			
Arsenic	50	µg/L														
Chromium	100**	µg/L				22		67		13				220		

Notes:

Blank = Non-detect

\* No ROD cleanup goal for the compound.

\*\* The new EPA MCL for chromium is 100 mg/L. As per the ROD, this new MCL replaces the previous cleanup goals of 50 mg/L.

Data in **bold** indicate exceedances of the ROD cleanup goal.

a) ITF-3 was re-sampled in August 2008 due to the presence of sediments in the well during the June 2008 sampling event.

Table A.5.3 Groundwater Quality Data - June-August 2008

Detected Compounds of Concern	ROD Cleanup Level	Well Units	ITW-13	ITW-14	ESE-007	WMW- 17E	WMW- 18E	ESE-002	ESE-004
Benzene	1	µg/L	<b>73</b>	<b>28</b>	<b>11</b>				
Ethylbenzene	*	µg/L	320	120	40				
Toluene	*	µg/L	320	430	170				
Xylenes, Total	*	µg/L	200	380	44				
MTBE	*	µg/L							
Acenaphthene	260	µg/L						20	
Acenaphthylene	130	µg/L		<b>260</b>					
Anthracene	1310	µg/L						2.3	
Benzo(b)fluoranthene	*	µg/L		13					
Chrysene	*	µg/L		16					
Fluoranthene	*	µg/L		79				9.1	
Fluorene	323	µg/L		36				11	
1-Methylnaphthalene	*	µg/L		150	1.9	2		2.4	
2-Methylnaphthalene	*	µg/L		130	1.4			11	
Naphthalene	18	µg/L	<b>38</b>	<b>260</b>	7.5	2.5		2.6	
Phenanthrene	130	µg/L		15				21	
Pyrene	130	µg/L						4.2	
Total Potentially Carcinogenic PAHs	0.003	µg/L		<b>29</b>					
Phenol	2630	µg/L	<b>8300</b>		<b>2700</b>				
2,4-Dimethylphenol	*	µg/L	2400	6100	500				
Arsenic	50	µg/L	10						
Chromium	100**	µg/L							

Notes:

Blank = Non-detect

\* No ROD cleanup goal for the compound.

\*\* The new EPA MCL for chromium is 100 mg/L. As per the ROD, this new MCL replaces the previous cleanup goals of 50 mg/L.

Data in **bold** indicate exceedances of the ROD cleanup goal.

a) ITF-3 was re-sampled in August 2008 due to the presence of sediments in the well during the June 2008 sampling event.

**Table A.5.4 Groundwater Quality Data – June-August 2008 Terpenes and Terpenoids**

<b>Well Designation</b>	<b>Compound</b>	<b>Concentration (µg/L)</b>
ITF-3	All Compounds	ND
ITW-4	All Compounds	ND
ITW-8	Camphor	840
	Cineole	43
ITW-9	Camphor	2400
	Cineole	55
ITW-11	All Compounds	ND

Note:

ND = Non-detect