

Table 3-1. Summary of Detectable Soil Sample Analytical Results, January 1996, UNC Airport Road Waste Disposal Area, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Constituents	East-Central North Carolina Background ¹	Soil Sample ID: Depth:	GP-2 (6-8')	GP-3 (6-8')	GP-5 (4-5')	SB-1 (3-5')	SB-2 (7-8.5')
		Date Sample:	1/27/1996	1/28/1996	1/28/1996	1/27/1996	1/27/1996
<u>Volatile Organics by USEPA</u>							
<u>Method 8260 (µg/kg dw)</u>							
Methylene Chloride	INA		ND	ND	ND	ND	10
Chloroform	INA		ND	ND	ND	8	20
<u>Semivolatile Organics by USEPA</u>							
<u>Method 8270 (µg/kg dw)</u>	INA		ND	ND	ND	ND	ND
<u>Metals by USEPA</u>							
<u>Method 6010 (mg/kg dw)</u>							
Aluminum	100000		11800	6660	3960	11500	7380
Arsenic	6.5		2.11	1.24	1.58	2.84	1.57
Barium	700		46	26.3	30	45	28.3
Beryllium	<1.00		0.953	ND	ND	ND	0.729
Calcium	7900		ND	ND	ND	2160	ND
Chromium	70		1.34	1.33	5.76	11	1.52
Cobalt	45		ND	ND	ND	10.7	ND
Copper	30		15.1	3.8	15.2	25.6	8.88
Iron	30000		27900	13400	12700	18400	17200
Lead	365		3.88	2.41	6.74	16	2.69
Magnesium	6000		4460	726	1330	3440	2700
Manganese	250		181	28.1	92.1	295	135
Nickel	20		ND	ND	135	7.03	ND
Potassium	45000		2490	ND	591	ND	ND
Selenium	0.30		1.41	ND	ND	ND	ND
Sodium	57500		ND	ND	ND	ND	683
Thallium	INA		1.36	ND	ND	ND	ND
Vanadium	325		36.6	17.3	11.5	43.3	25.3
Zinc	28		52.7	8.57	30.9	51.3	47.9
<u>Cyanide by</u>							
<u>Method 9010A (mg/kg dw)</u>							
Total Cyanide	INA		ND	ND	ND	ND	ND
Amenable Cyanide	INA		ND	ND	ND	ND	ND

mg/kg (ppm) Milligrams per kilogram on a dry weight basis (parts per million).

µg/kg (ppb) Micrograms per kilogram on a dry weight basis (parts per billion).

J Estimated; matrix spike recovery exceeds upper control limit.

ND Constituent was not detected.

NA Constituent was not analyzed.

INA Information not available.

¹ Values obtained from USGS, 1984. Values represent elemental concentrations of a single soil sample obtained from east-central North Carolina.

Note: All bold numbers represent data above background concentrations.

Table 4-1. Summary of Monitor Well Construction Details, UNC Airport Road Waste Disposal Area, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Monitor Well Identification	Date of Installation	Measuring Point Elevation (Top of Casing) (ft msl)	Depth of Surface Casing (ft bls)	Total Drilled Depth (ft bls)	Screened Interval (ft bls)
MW-1	INA	483.11	NA	28.3	INA
MW-2	INA	484.30	NA	29	INA
MW-3	INA	483.34	NA	20	INA
MW-4	INA	472.18	NA	24.6	INA
MW-5	INA	454.62	NA	15	INA
MW-6	4/11/1995	472.55	NA	22	12.0-22.0
* MW-7	4/21/1995	475.01	22	48	38.0-48.0
* MW-9	4/21/1995	476.25	NA	43.5	20.0-35.0
* MW-11	4/18/1995	472.78	NA	36	26.0-36.0
MW-12	4/13/1995	464.21	NA	22	12.0-22.0
* MW-13	4/19/1995	467.60	NA	23	13.0-23.0
* MW-14	8/11/1995	481.67	29	175	165.0-175.0
* MW-15	7/20/1995	465.04	40	60.5	50.0-60.0
* MW-16	7/21/1995	467.14	16	82	22.0-42.0
* MW-17	7/24/1995	478.99	26	71	60.0-70.0
MW-18	7/19/1995	467.96	NA	16	5.0-15.0
MW-19	7/19/1995	473.90	NA	10	5.0-10.0
MW-20	7/27/1995	475.03	NA	25	14.0-24.0
* MW-21	7/21/1995	463.28	NA	22	11.0-21.0
MW-22	7/26/1995	460.78	NA	10	5.0-10.0
* MW-23	8/17/1995	458.92	17	89	78.0-88.0
* MW-24	1/19/1996	465.32	105	200	175.0-195.0
MW-25	1/23/1996	458.74	NA	15	5.0-15.0
* MW-26	2/5/1996	458.79	20	180	75.0-95.0
* MW-28	1/15/1996	480.40	NA	46	36.0-46.0
* MW-29	11/14/1996	480.73	55	170	160.0-170.0
* MW-30	11/12/1996	468.57	NA	40	25.0-40.0
* MW-31	11/13/1996	468.45	50	90	75.0-90.0
* MW-32	11/12/1996	462.06	NA	43	28.0-43.0
* MW-33	11/13/1996	461.46	50	85	70.0-85.0
* MW-34	7/6/2004	464.65	NA	85	70.0-85.0
* MW-35	7/6/2004	452.45	NA	75	60.0-75.0
* MW-36	7/7/2004	466.90	NA	84	69.0-84.0
* MW-37	7/6/2004	460.29	100	125	115.0-125.0
VER-1	3/26/1998	INA	NA	25	5.0-25.0
* RW-1	4/2/1998	INA	20	80	20.0-80.0

* Bedrock wells - This designation indicates that the entire screened interval is set in bedrock.

ft msl Feet above mean sea level.

NA Not Applicable.

ft bls Feet below land surface.

INA Information not available.

Note: Monitor Wells MW-8, MW-10, and MW-27 were not installed.

RW-1 is an open borehole.

Table 5-1. Water Level Elevations in Monitor Wells and Surface Water Locations, July 19, 2004, UNC Airport Road Waste Disposal Area, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Monitor Well Identification	Measuring Point Elevation (ft msl)	Depth to Water (ft toc)	Groundwater Elevation (ft msl)
MW-1	483.11	12.40 ¹	470.71
MW-2	484.30	13.60	470.70
MW-3	483.34	5.30	478.04
MW-4	472.18	14.75	457.43
MW-5	454.62	4.75	449.87
MW-6	472.55	9.70	462.85
*MW-7	475.01	9.10	465.91
*MW-9	476.25	8.90 ¹	467.35
*MW-11	472.78	19.57	453.21
MW-12	464.21	6.77	457.44
*MW-13	467.60	6.98	460.62
*MW-14	481.67	16.17	465.50
*MW-15	465.04	1.77	463.27
*MW-16	467.14	6.42 ¹	460.72
*MW-17	478.99	10.97	468.02
MW-18	467.96	4.54	463.42
MW-19	473.90	NA	NA
MW-20	475.03	18.58	456.45
*MW-21	463.28	5.52	457.76
MW-22	460.78	4.44	456.34
*MW-23	458.92	3.09	455.83
*MW-24	465.32	2.20	463.12
MW-25	458.74	6.60	452.14
*MW-26	458.79	6.45	452.34
*MW-28	480.4	7.18	473.22
*MW-29	480.73	10.60	470.13
*MW-30	468.57	17.70	450.87
*MW-31	468.45	17.00	451.45
*MW-32	462.06	17.07	444.99
*MW-33	461.46	15.00	446.46
*MW-34	464.65	21.54	443.11
*MW-35	452.45	64.18	388.27
*MW-36	466.90	27.31	439.59
*MW-37	460.29	13.98	446.31
SW-1	475.70	3.35 ²	472.35
SW-2	466.11	3.17 ²	462.94
SW-3	457.55	3.56 ²	453.99
SW-4	454.81	4.10 ²	450.71
SW-5	454.60	4.18 ²	450.42
SW-6	447.68	3.32 ²	444.36

ft toc Feet below top of casing.

ft msl Feet above mean sea level.

* Bedrock Wells - This designation indicates that the entire screened interval is set in bedrock.

¹ Water level was measured on 7/22/04

² Water level was measured on 7/20/04

NA Not available.

Table 6-1. Groundwater Sampling Data for Samples Collected from Monitor Wells in July 2004, UNC Airport Road Waste Disposal Area, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Well No.	Date Sampled	Gallons per Well Volume	Gallons Purged	Temperature (Degrees Celsius)	pH (Standard Units)	Dissolved Oxygen (mg/l)	Specific Conductance (µmhos/cm)	Reduction Potential (mV)	Sampling Method
MW-1	7/22/2004	2.5	6.0 to dry	16.56	6.2	1.4	3,891	-65.3	submersible pump
MW-2	7/21/2004	2.5	8.0	16.38	6.3	0.4	3,303	-92.7	submersible pump
MW-3	7/21/2004	2.4	7.0 to dry	17.51	6.3	0.5	527	+66.5	submersible pump
MW-4	7/20/2004	1.8	6.5	15.57	5.8	4.0	261	+146.8	peristaltic
MW-5	7/20/2004	1.6	3.0 to dry	17.43	6.6	0.7	218	-23.0	peristaltic
MW-6	7/21/2004	2.0	6.0	15.19	5.8	0.2	422	+18.7	peristaltic
MW-7	7/21/2004	6.2	13.0 to dry	16.72	7.1	3.4	1,134	-24.1	submersible pump
MW-9	7/22/2004	4.5	10.0 to dry	16.01	6.5	0.3	544	-31.4	peristaltic
MW-11	7/22/2004	2.6	5.0 to dry	15.35	6.5	0.8	900	-2.0	peristaltic
MW-12	7/21/2004	2.4	6.0 to dry	17.29	6.9	NM	1,461	-3.7	submersible pump
MW-13	7/21/2004	2.6	8.0	16.07	6.6	0.2	776	-15.7	submersible pump
MW-14	7/21/2004	25.7	77.0	17.61	7.6	NM	573	+0.6	submersible pump
MW-15	7/21/2004	9.3	30.0	15.94	8.9	NM	1,359	-176.5	submersible pump
MW-16	7/22/2004	5.7	18.0	16.03	6.9	1.3	663	-105.7	bailer
MW-17	7/20/2004	9.4	30.0	16.82	7.8	NM	2,490	+6.1	submersible pump
MW-18	7/20/2004	1.7	6.0	19.26	7.5	NM	1,757	-87.1	submersible pump
MW-20	7/20/2004	0.9	3.0	15.42	7.1	6.4	86	+250.0	submersible pump
MW-21	7/19/2004	2.5	7.0	16.35	6.7	2.1	278	-24.2	submersible pump
MW-22	7/21/2004	1.2	3.5 to dry	18.74	7.4	NM	1,480	-41.2	peristaltic
MW-23	7/20/2004	13.7	40.0	15.60	8.1	NM	340	-52.7	peristaltic
MW-24	7/22/2004	125.3	125.0	18.33	8.8	0.03	265	-381.8	submersible pump
MW-25	7/21/2004	1.3	5.0	17.17	5.7	0.3	212	+65.6	submersible pump
MW-26	7/22/2004	14.5	15.5 to dry	17.51	7.1	3.5	398	+14.4	submersible pump
MW-28	7/21/2004	6.2	18.0	20.00	6.6	0.3	454	+9.2	submersible pump
MW-29	7/21/2004	25.5	77.0	18.71	8.2	NM	665	-78.7	submersible pump
MW-30	7/20/2004	3.6	7.0 to dry	16.71	7.5	NM	514	-60.5	submersible pump
MW-31	7/20/2004	11.7	36.0	16.20	7.6	NM	651	-23.6	submersible pump
MW-32	7/20/2004	4.5	10.0 to dry	19.08	7.3	NM	546	+64.2	submersible pump
MW-33	7/20/2004	11.5	35.0	16.45	7.5	NM	468	-13.5	submersible pump
MW-34	7/20/2004	10.5	20.0 to dry	17.81	7.4	NM	300	+7.7	submersible pump
MW-35	7/20/2004	2.1	4.0 to dry	17.45	7.6	NM	348	-34.2	submersible pump
MW-36	7/20/2004	8.8	14.0 to dry	15.93	7.1	4.2	314	+87.8	submersible pump
MW-37	7/20/2004	18.1	42.0 to dry	18.95	11.1	1.5	440	-362.3	submersible pump

Notes:

mg/l milligrams per liter
µmhos/cm micromhos per centimeter.
mV millivolts
NM not measured

Table 6-2. Summary of Analytical Results for Groundwater Samples Collected in July 2004, UNC Airport Road Waste Disposal Area, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Constituent	Sample ID: Date Sampled:	MW-1 07/22/04	DUP-3 07/22/04	MW-2 07/21/04	MW-3 07/21/04	MW-4 07/20/04	MW-5 07/20/04	MW-6 07/21/04	MW-7 07/21/04	MW-9 07/22/04	MW-11 07/22/04	MW-12 07/21/04	MW-13 07/21/04	MW-14 07/21/04	DUP-2 07/21/04	MW-15 07/21/04	MW-16 07/22/04	MW-17 07/20/04
Volatile Organics (USEPA Method 8260) ug/L	NCAC 2L GW Standard																	
Acetone	700	260,000	240,000	<50000	<25	<25	<25	<1200	<5.0	<25	<1200	<500	<120	170	<120	1,600	<25	<25
Benzene	1	100,000	100,000	25,000	<1.0	<1.0	<1.0	910	2.7 U	<1.0	<50	470 D	22	190	200	930	<1.0	<1.0
Chlorobenzene	50	<1000	<1000	<2000	<1.0	<1.0	<1.0	<50	8.3	<1.0	<50	23	8.2	<5.0	<5.0	<50	<1.0	<1.0
Chloroform	0.19	190,000 D	190,000 D	130,000	<1.0	<1.0	<1.0	470	6.9 U	<1.0	<50	21	<5.0	53	57	180	<1.0	<1.0
1,1-Dichloroethane	700	<1000	<1000	<2000	<1.0	<1.0	<1.0	<50	<1.0	<1.0	<50	<20	<5.0	<5.0	<5.0	<50	<1.0	<1.0
1,2-Dichloroethane	0.38	9,900	10,000	<2000	<1.0	<1.0	<1.0	<50	49	1.2	56	360	96	50	51	380	<1.0	<1.0
Cis/Trans-1,2-Dichloroethene	70	<1000	<2000	<4000	<2.0	<2.0	<2.0	<200	<2.0	<2.0	<100	<40	<10	<40	<10	<100	<2.0	22
Diethyl ether	1,200*	290,000 D	300,000 D	130,000	16 U ^B	<2.0	3	12,000 D	2,300	140	3,100	13,000 D	4,200 D	1,800 D	2,000 D	14,000 D	3.5	110
Ethylbenzene	29	3,100	3,100	<2000	<1.0	<1.0	<1.0	<50	<1.0	<1.0	<50	<20	<5.0	<5.0	<5.0	<50	<1.0	<1.0
Methylene chloride	5	140,000	140,000	58,000	<5.0	<5.0	<5.0	390	<5.0	<5.0	<250	<100	<25	<25	<25	<250	<5.0	<5.0
1,1,2,2-Tetrachloroethane	.055*	8,000	8,400	<2000	<1.0	<1.0	<1.0	<50	<1.0	<1.0	<50	<20	<5.0	<5.0	<5.0	<50	<1.0	<1.0
Toluene	1,000	<1000	<1000	<2000	<1.0	<1.0	<1.0	<50	<1.0	<1.0	<50	<20	<5.0	<5.0	<5.0	<50	<1.0	<1.0
Trichloroethene	2.8	14,000	14,000	<2000	<1.0	<1.0	<1.0	28 J	4.2	<1.0	<50	35	<5.0	10	11	<50	<1.0	1.3
Vinyl chloride	0.015	<1000	<1000	<2000	<1.0	<1.0	<1.0	<50	5.5	<1.0	<50	<20	<5.0	<5.0	<5.0	<50	<1.0	20
Xylenes, Total	530	2,300	2,000	<4000	<2.0	<2.0	<2.0	<100	<2.0	<2.0	<100	<40	<10	<10	<100	<2.0	<2.0	

ug/L Micrograms per liter.
 < Constituent was not detected above the reporting limit
 J Constituent concentration is qualified as estimated.
 D Constituent concentration was quantitated using a secondary dilution.
 U Constituent concentration was qualified as nondetect due to blank contamination.
 * USEPA Region IX Preliminary Remediation Goal (PRG) for tap water (no NCAC 2L groundwater Standard exists).
 [Green Box] Indicates that the reported concentration exceeds the established NCAC 2L Groundwater Standard or PRG.

Table 6-2. Summary of Analytical Results for Groundwater Samples Collected in July 2004, UNC Airport Road Waste Disposal Area, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Constituent	Sample ID: Date Sampled:	MW-18 07/20/04	MW-20 07/20/04	MW-21 07/19/04	MW-22 07/21/04	MW-23 07/20/04	MW-24 07/22/04	MW-25 07/21/04	MW-26 07/22/04	MW-28 07/21/04	MW-29 07/21/04	MW-30 07/20/04	MW-31 07/20/04	MW-32 07/20/04	MW-33 07/20/04	DUP-1 07/20/04	MW-34 07/20/04	MW-35 07/20/04	MW-36 07/20/04	MW-37 07/20/04
NCAC 2L GW Standard																				
Volatile Organics (USEPA Method 8260) ug/L																				
Acetone	700	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Benzene	1	<1.0	<1.0	<1.0	1.2 U	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	50	4.4	<1.0	<1.0	17.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	0.19	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	0.38	<1.0	<1.0	<1.0	12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cis/Trans-1,2-Dichloroethene	70	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Diethyl ether	1,200*	49	<2.0	<2.0	470 D	<2.0	6	45	<2.0	<2.0	<2.0	<2.0	2,000 D	<2.0	30	31	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	29	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene chloride	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1,2-Tetrachloroethane	.055*	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	1,000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	2.8	<1.0	<1.0	<1.0	1.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl chloride	0.015	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes, Total	530	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

ug/L Micrograms per liter.

< Constituent was not detected above the reporting limit

J Constituent concentration is qualified as estimated.

D Constituent concentration was quantitated using a secondary dilution.

U Constituent concentration was qualified as nondetect due to blank contamination.

* USEPA Region IX Preliminary Remediation Goal (PRG) for tap water (no NCAC 2L groundwater Standard exists).

Indicates that the reported concentration exceeds the established NCAC 2L Groundwater Standard or PRG.

Table 6-3. Historical Summary of Analytical Results for VOCs Detected in Groundwater Samples, UNC Airport Road Waste Disposal Area, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Constituent	Sample ID: Date Sampled:	MW-1 05/15/98	MW-1 11/15/00	MW-1 10/31/02	MW-1 07/22/04	MW-2 05/15/98	MW-2 11/14/00	MW-2 10/31/02	MW-2 07/21/04	MW-3 05/15/98	MW-3 11/14/00	MW-3 10/31/02	MW-3 07/21/04	MW-4 10/31/02	MW-4 07/20/04	MW-5 11/14/00	MW-5 10/30/02	MW-5 07/20/04	MW-6 05/14/98	MW-6 11/14/00	
	NCAC 2L GW Standard																				
Volatile Organics (USEPA Method 8260) ug/L																					
Acetone	700	<50	<5,000	160,000	260,000	<25,000	<5,000	30,000	<50000	<50	<2.0	<50	<25	<50	<25	<50.0	<50	<25	<5,000	<50	
Benzene	1	69,000	142,000	32,000	100,000	8,500	12,800	13,000	25,000	<5.0	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0	<1.0	500	834	
Chlorobenzene	50	24	450	440	<1000	<2,500	<200	150	<2000	<5.0	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0	<1.0	<500	2.1	
Chloroform	0.19	90,000	273,000	89,000	190,000	46,000	102,000	85,000	130,000	8.7	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0	<1.0	1,100	963	
1,1-Dichloroethane	700	5.2	<200	42	<1000	<2,500	<200	23	<2000	<5.0	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0	<1.0	<500	<2.0	
1,2-Dichloroethane	0.38	<50,000	6,700	3,800	9,900	<2,500	4,140	4,400	<2000	<5.0	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0	<1.0	<500	21.5	
cis-1,2-Dichloroethene	70	9.0	<200	64	<1000 ¹	<2,500	<200	8	<4000 ¹	<5.0	<2.0	<2.0	<2.0 ¹	<2.0	<2.0 ¹	<2.0	<2.0	<2.0 ¹	<500	<2.0	
trans-1,2-Dichloroethene	70	NA	<200	20	NA	<200	<200	4	NA	NA	<2.0	<2.0	NA	<2.0	NA	<2.0	<2.0	NA	NA	4.0	
Diethyl ether	1,200*	220,000	430,000	160,000	290,000	55,000	82,000	65,000	130,000	10	<2.0	<2.0	16 U	<2.0	<2.0	<2.0	<2.0	3.4	7,500	4,450	
Methylene chloride	5	66,000	222,000	71,000	140,000	26,000	48,700	35,000	58,000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	800	655	
1,1,1,2-Tetrachloroethane	.055*	<5.0	<200	2,600	8,000	<2,500	<200	63	<2000	<5.0	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0	<1.0	<500	<2.0	
Toluene	1,000	<50,000	5,530	250	<1000	<2,500	650	510	<2000	<5.0	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0	<1.0	<500	<2.0	
Trichloroethene	2.8	<5.0	4,960	1,600	14,000	<2,500	177	170	<2000	<5.0	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0	<1.0	<500	10.7	
Vinyl chloride	0.015	11	<200	3	<1000	<5,000	<200	3	<2000	<10	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0	<1.0	<1,000	<2.0	
Xylenes, Total	530	<50,000	1,890	2,140	2,300	<2,500	470	290	<4000	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<500	<2.0	

ug/L Micrograms per liter.

< Constituent was not detected above the reporting limit.

J Constituent concentration is qualified as estimated.

NA Not analyzed

U Constituent concentration is qualified as nondetect due to blank contamination.

¹ Cis-1,2-Dichloroethene & trans-1,2-Dichloroethene were analyzed as one constituent (Cis/Trans-1,2-Dichloroethene)

* USEPA Region IX Preliminary Remediation Goal (PRG) for tap water (no NCAC 2L Groundwater Standard exists).

Indicates that the reported concentration exceeds the NCAC 2L Groundwater Standard or PRG.

Table 6-3. Historical Summary of Analytical Results for VOCs Detected in Groundwater Samples, UNC Airport Road Waste Disposal Area, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Constituent	Sample ID: Date Sampled:	MW-6 10/31/02	MW-6 07/21/04	MW-7 05/14/98	MW-7 11/16/00	MW-7 10/29/02	MW-7 07/21/04	MW-9 05/14/98	MW-9 11/14/00	MW-9 10/31/02	MW-9 07/22/04	MW-11 05/13/98	MW-11 11/14/00	MW-11 10/31/02	MW-11 07/22/04	MW-12 05/14/98	MW-12 11/15/00	MW-12 10/29/02	MW-12 12/18/03	MW-12 07/21/04
NCAC 2L GW Standard																				
Volatile Organics (USEPA Method 8260) ug/L																				
Acetone	700	<50	<1200	<50	<50	<50	<5.0	<50	<50	<50	<25	<50	<50	<50	<1200	<5,000	<50	<50	<1200	<500
Benzene	1	440	910	<5.0	140	4	2.7 U	<5.0	<3.4	50	<1.0	<5.0	<2.5	6	<50	1,300	2,020	290 J	350	470
Chlorobenzene	50	2	<50	<5.0	15.1	5	8.3	<5.0	<2.0	<2.0	<1.0	<5.0	7.4	8	<50	<500	23.4	17	<50	23
Chloroform	0.19	140	470	16	<2.7	<2.0	6.9 U	5.1	<2.0	<2.0	<1.0	20	<8.6	12	<50	10,000	8,050	32	<50	21
1,1-Dichloroethane	700	<2.0	<50	<5.0	<2.0	<2.0	<1.0	<5.0	<2.0	<2.0	<1.0	<5.0	<2.0	<2.0	<50	<500	<2.0	4	<50	<20
1,2-Dichloroethane	0.38	16	<50	15	59.6	33	49	<5.0	2.4	5	1.2	<5.0	47.7	50	56	<500	585	330 J	<50	360
cis-1,2-Dichloroethene	70	<2.0	<200 ¹	<5.0	4.1	2	<2.0 ¹	<5.0	<2.0	<2.0	<2.0 ¹	<5.0	3.2	2	<100 ¹	<500	5.6	4	<100	<40 ¹
trans-1,2-Dichloroethene	70	5	NA	NA	<2.0	<2.0	NA	<5.0	<2.0	<2.0	NA	<5.0	<2.0	<2.0	NA	<500	<2.0	<2.0	<100	NA
Diethyl ether	1,200*	5,400	12,000	64	2,480	930	2,300	120	160	720	140	1,400	1,790	1,600	3,100	13,000	13,900	11,000	8,800	13,000
Methylene chloride	5	88	390	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	6	<250	5,700	4,160	<5.0	<250	<100
1,1,1,2-Tetrachloroethane	.055*	<2.0	<50	<5.0	<5.0	<2.0	<1.0	<5.0	<2.0	<2.0	<1.0	<5.0	<2.0	<2.0	<50	<500	<2.0	<2.0	<50	<20
Toluene	1,000	<2.0	<50	<5.0	2.1	<2.0	<1.0	<5.0	<2.0	<2.0	<1.0	<5.0	<2.0	<2.0	<50	<500	2.0	<2.0	<50	<20
Trichloroethene	2.8	13	28 J	<5.0	8.2	2	4.2	<5.0	<2.0	<2.0	<1.0	6.5	8.4	8	<50	<500	43	30	25 J	35
Vinyl chloride	0.015	<2.0	<50	<10	6.9	4	5.5	<10	<2.0	<2.0	<1.0	12	8.0	13	<50	<1,000	<2.0	4	<50	<20
Xylenes, Total	530	<2.0	<100	<5.0	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<100	<500	<2.0	<2.0	<100	<40

ug/L Micrograms per liter.

< Constituent was not detected above the reporting limit.

J Constituent concentration is qualified as estimated.

NA Not analyzed

U Constituent concentration is qualified as nondetect due to blank contamination.

¹ Cis-1,2-Dichloroethene & trans-1,2-Dichloroethene were analyzed as one constituent (Cis/Trans-1,2-Dichloroethene)

* USEPA Region IX Preliminary Remediation Goal (PRG) for tap water (no NCAC 2L Groundwater Standard exists).

Indicates that the reported concentration exceeds the NCAC 2L Groundwater Standard or PRG.

Table 6-3. Historical Summary of Analytical Results for VOCs Detected in Groundwater Samples, UNC Airport Road Waste Disposal Area, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Constituent	Sample ID: Date Sampled:	MW-13 05/14/98	MW-13 11/14/00	MW-13 10/30/02	MW-13 07/21/04	MW-14 05/14/98	MW-14 11/15/00	MW-14 10/29/02	MW-14 07/21/04	MW-15 05/14/98	MW-15 11/15/00	MW-15 10/29/02	MW-15 12/18/03	MW-15 07/21/04	MW-16 05/14/98	MW-16 11/15/00	MW-16 10/29/02	MW-16 07/22/04	MW-17 11/14/00	MW-17 10/29/02	
	NCAC 2L GW Standard																				
Volatile Organics (USEPA Method 8260) ug/L																					
Acetone	700	<2,500	<50	<50	<120	<500	<50	<50	170	<5,000	<50	<50	<1200	1,600	<50	<50	<50	<25	<50	<50	
Benzene	1	<250	< 18.1	32	22	280	< 3.8	180	190	1,900	355	990	540	930	<5.0	<2.0	<2.0	<1.0	<2.0	<2.0	
Chlorobenzene	50	<250	15.6	4	8.2	<50	<2.0	2	<5.0	<500	5.3	18	17 J	<50	<5.0	<2.0	<2.0	<1.0	<2.0	<2.0	
Chloroform	0.19	<250	<23.8	8	<5	56	<2.0	97	53	10,000	606	1,000	220	180	<5.0	<2.0	<2.0	<1.0	<2.0	<2.0	
1,1-Dichloroethane	700	<250	2.7	<2.0	<5	<50	<2.0	<2.0	<5.0	<500	<2.0	4	<50	<50	<5.0	<2.0	<2.0	<1.0	<2.0	<2.0	
1,2-Dichloroethane	0.38	<250	211	42	96	63	4.7	47	50	<500	130	320 J	250	380	<5.0	<2.0	<2.0	<1.0	<2.0	<2.0	
cis-1,2-Dichloroethene	70	<250	5.0	<2.0	<10 ¹	<50	<2.0	<2.0	<40 ¹	<500	<2.0	5	<100	<100 ¹	<5.0	<2.0	<2.0	<2.0	<2.0 ¹	2.9	27
trans-1,2-Dichloroethene	70	<250	<2.0	<2.0	NA	<50	<2.0	<2.0	NA	<500	<2.0	<2.0	<100	NA	<5.0	<2.0	<2.0	NA	<2.0	<2.0	
Diethyl ether	1,200*	3,300	5,840	1,900	4,200	1,800	<51	1,900	1,800	13,000	2,670	11,000	8,500	14,000	7.7	<2.0	3.0	3.5	<2.0	77	
Methylene chloride	5	<250	<5.0	<5.0	<25	<50	<5.0	6	<25	5,700	197	240	77 J	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1,1,1,2-Tetrachloroethane	.055*	<250	<2.0	<2.0	<5	<50	<2.0	<2.0	<5.0	<500	<2.0	<2.0	<50	<50	<5.0	<2.0	<2.0	<1.0	<2.0	<2.0	
Toluene	1,000	<250	<2.0	<2.0	<5	<50	<2.0	<2.0	<5.0	<500	<2.0	<2.0	<50	<50	<5.0	<2.0	<2.0	<1.0	<2.0	<2.0	
Trichloroethene	2.8	<250	28	5	<5	<50	<2.0	10	10	<500	9.5	35	24 J	<50	<5.0	<2.0	<2.0	<1.0	<2.0	<2.0	
Vinyl chloride	0.015	<500	5.8	2	<5	<100	<2.0	2	<5.0	<1000	<2.0	4	<50	<50	<10	<2.0	<2.0	<1.0	<2.0	15	
Xylenes, Total	530	<250	<2.0	<2.0	<10	<50	<2.0	3	<10	<500	<2.0	<2.0	<100	<100	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	

ug/L Micrograms per liter.

< Constituent was not detected above the reporting limit.

J Constituent concentration is qualified as estimated.

NA Not analyzed

U Constituent concentration is qualified as nondetect due to blank contamination.

¹ Cis-1,2-Dichloroethene & trans-1,2-Dichloroethene were analyzed as one constituent (Cis/Trans-1,2-Dichloroethene)

* USEPA Region IX Preliminary Remediation Goal (PRG) for tap water (no NCAC 2L Groundwater Standard exists).

Indicates that the reported concentration exceeds the NCAC 2L Groundwater Standard or PRG.

Table 6-3. Historical Summary of Analytical Results for VOCs Detected in Groundwater Samples, UNC Airport Road Waste Disposal Area, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Constituent	Sample ID: Date Sampled:	MW-17 07/20/04	MW-18 11/14/00	MW-18 10/31/02	MW-18 07/20/04	MW-20 07/20/04	MW-21 05/13/98	MW-21 11/14/00	MW-21 10/30/02	MW-21 07/19/04	MW-22 05/14/98	MW-22 11/15/00	MW-22 10/29/02	MW-22 07/21/04	MW-23 05/13/98	MW-23 10/30/02	MW-23 07/20/04	MW-24 12/19/03	MW-24 07/22/04	MW-25 05/13/98
	NCAC 2L GW Standard																			
Volatile Organics (USEPA Method 8260) ug/L																				
Acetone	700	<25	<50.0	<50	<25	<25	<50	<50	<50	<25	<50	<50	<50	<25	<50	<50	<25	<25	<25	<50
Benzene	1	<1.0	<2.0	<2.0	<1.0	<1.0	<5.0	<2.0	<2.0	<1.0	160	<2.0	<2.0	1.2 U	<5.0	<2.0	<1.0	<1.0	1.1	<5.0
Chlorobenzene	50	<1.0	3.5	3	4.4	<1.0	<5.0	<2.0	<2.0	<1.0	13	12.1	10	17	<5.0	<2.0	<1.0	<1.0	<1.0	<5.0
Chloroform	0.19	<1.0	<2.0	<2.0	<1.0	<1.0	<5.0	<2.0	<2.0	<1.0	<5.0	<2.0	<2.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<5.0
1,1-Dichloroethane	700	<1.0	<2.0	<2.0	<1.0	<1.0	<5.0	<2.0	<2.0	<1.0	<5.0	<2.0	<2.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<5.0
1,2-Dichloroethane	0.38	<1.0	<2.0	<2.0	<1.0	<1.0	<5.0	<2.0	<2.0	<1.0	<5.0	18.3	2	12	<5.0	<2.0	<1.0	<1.0	<1.0	<5.0
cis-1,2-Dichloroethene	70	22¹	<2.0	<2.0	<2.0 ¹	<2.0 ¹	<5.0	<2.0	<2.0	<2.0 ¹	<5.0	<2.0	<2.0	<2.0 ¹	<5.0	<2.0	<2.0 ¹	<2.0	<2.0 ¹	<5.0
trans-1,2-Dichloroethene	70	NA	<2.0	<2.0	NA	NA	<5.0	<2.0	<2.0	NA	<5.0	<2.0	<2.0	NA	<5.0	<2.0	NA	<2.0	NA	<5.0
Diethyl ether	1,200*	110	<34	<2.0	49	<2.0	<5.0	<2.0	<2.0	<2.0	2,600	620	130	660 J	<5.0	<2.0	<2.0	4.8	6.4	<5.0
Methylene chloride	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	.055*	<1.0	<2.0	<2.0	<1.0	<1.0	<5.0	<2.0	<2.0	<1.0	<5.0	<2.0	<2.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<5.0
Toluene	1,000	<1.0	<2.0	<2.0	<1.0	<1.0	<5.0	<2.0	<2.0	<1.0	<5.0	<2.0	<2.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<5.0
Trichloroethene	2.8	1.3	<2.0	<2.0	<1.0	<1.0	<5.0	<2.0	<2.0	<1.0	8.9	2.2	<2.0	1.4	<5.0	<2.0	<1.0	<1.0	<1.0	<5.0
Vinyl chloride	0.015	20	<2.0	<2.0	<1.0	<1.0	<10	<2.0	<2.0	<1.0	<10	<2.0	<2.0	<1.0	<10	<2.0	<1.0	<1.0	<1.0	<10
Xylenes, Total	530	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0

ug/L Micrograms per liter.

< Constituent was not detected above the reporting limit.

J Constituent concentration is qualified as estimated.

NA Not analyzed

U Constituent concentration is qualified as nondetect due to blank contamination.

¹ Cis-1,2-Dichloroethene & trans-1,2-Dichloroethene were analyzed as one constituent (Cis/Trans-1,2-Dichloroethene)

* USEPA Region IX Preliminary Remediation Goal (PRG) for tap water (no NCAC 2L Groundwater Standard exists).

Indicates that the reported concentration exceeds the NCAC 2L Groundwater Standard or PRG.

Table 6-3. Historical Summary of Analytical Results for VOCs Detected in Groundwater Samples, UNC Airport Road Waste Disposal Area, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Constituent	Sample ID: Date Sampled:	MW-25 11/14/00	MW-25 10/30/02	MW-25 07/21/04	MW-26 05/13/98	MW-26 11/15/00	MW-26 10/30/02	MW-26 07/22/04	MW-28 11/16/00	MW-28 10/31/02	MW-28 07/21/04	MW-29 11/15/00	MW-29 10/31/02	MW-29 07/21/04	MW-30 10/30/02	MW-30 07/20/04	MW-31 05/13/98	MW-31 11/14/00	MW-31 10/30/02	MW-31 07/20/04
	NCAC 2L GW Standard																			
Volatile Organics (USEPA Method 8260) ug/L																				
Acetone	700	<50	<50	<25	<50	<50	<50	<25	<50.0	<50	<25	<25	<50	<25	<50	<25	<250	<50	<50	<25
Benzene	1	<2.0	<2.0	<1.0	<5.0	<2.0	<2.0	<1.0	<2.0	2	<1.0	<1.0	<2	<1.0	<2.0	<1.0	<25	<2.0	<2.0	1.3
Chlorobenzene	50	<2.0	<2.0	<1.0	<5.0	<2.0	<2.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2	<1.0	<2.0	<1.0	<25	<2.0	3	4.1
Chloroform	0.19	<2.0	<2.0	<1.0	<5.0	<2.0	<2.0	<1.0	<2.0	2	<1.0	<1.0	2	<1.0	<2.0	<1.0	<25	<2.0	3	2.1
1,1-Dichloroethane	700	<2.0	<2.0	<1.0	<5.0	<2.0	<2.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<25	<2.0	<2.0	<1.0
1,2-Dichloroethane	0.38	<2.0	<2.0	<1.0	<5.0	<2.0	<2.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<25	8.4	19	25
cis-1,2-Dichloroethene	70	<2.0	<2.0	<2.0 ¹	<5.0	<2.0	<2.0	<2.0 ¹	<2.0	<2.0	<2.0 ¹	<1.0	<2.0	<2.0 ¹	<2.0	<2.0 ¹	<25	<2.0	<2.0	<2.0 ¹
trans-1,2-Dichloroethene	70	<2.0	<2.0	NA	<5.0	<2.0	<2.0	NA	<2.0	<2.0	NA	<1.0	<2.0	NA	<2.0	NA	<25	<2.0	<2.0	NA
Diethyl ether	1,200*	<43	<2.0	45	5.2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0	<2.0	<2.0	2.0	<2.0	480	215	770	2,000
Methylene chloride	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.5	<5.0	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	.055*	<2.0	<2.0	<1.0	<5.0	<2.0	<2.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<25	<2.0	<2.0	<1.0
Toluene	1,000	<2.0	<2.0	<1.0	<5.0	<2.0	<2.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<25	<2.0	<2.0	<1.0
Trichloroethene	2.8	<2.0	<2.0	<1.0	<5.0	<2.0	<2.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<25	<2.0	4	5.0
Vinyl chloride	0.015	<2.0	<2.0	<1.0	<10	<2.0	<2.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<50	<2.0	5	5.4
Xylenes, Total	530	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0	<2.0	<2.0	<2.0	<2.0	<25	<2.0	<2.0	<2.0

ug/L Micrograms per liter.

< Constituent was not detected above the reporting limit.

J Constituent concentration is qualified as estimated.

NA Not analyzed

U Constituent concentration is qualified as nondetect due to blank contamination.

¹ Cis-1,2-Dichloroethene & trans-1,2-Dichloroethene were analyzed as one constituent (Cis/Trans-1,2-Dichloroethene)

* USEPA Region IX Preliminary Remediation Goal (PRG) for tap water (no NCAC 2L Groundwater Standard exists).

Indicates that the reported concentration exceeds the NCAC 2L Groundwater Standard or PRG.

Table 6-3. Historical Summary of Analytical Results for VOCs Detected in Groundwater Samples, UNC Airport Road Waste Disposal Area, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Constituent	Sample ID: Date Sampled:	MW-32 05/13/98	MW-32 11/13/00	MW-32 10/30/02	MW-32 12/19/03	MW-32 07/20/04	MW-33 05/13/98	MW-33 11/13/00	MW-33 10/30/02	MW-33 12/19/03	MW-33 07/20/04	MW-34 07/20/04	MW-35 07/20/04	MW-36 07/20/04	MW-37 07/20/04
	NCAC 2L GW Standard														
<u>Volatile Organics</u> (USEPA Method 8260) ug/L															
Acetone	700	<50	<50	<50	<25	<25	<50	<50	<50	<25	<25	<25	<25	<25	<25
Benzene	1	<5.0	<2.0	<2.0	<1.0	<1.0	<5.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	50	<5.0	<2.0	<2.0	<1.0	<1.0	<5.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	0.19	<5.0	<2.0	<2.0	<1.0	<1.0	<5.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	700	<5.0	<2.0	<2.0	<1.0	<1.0	<5.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	0.38	<5.0	<2.0	<2.0	<1.0	<1.0	<5.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	70	<5.0	<2.0	<2.0	<2.0	<2.0 ¹	<5.0	<2.0	<2.0	<2.0	<2.0 ¹	<2.0 ¹	<2.0 ¹	<2.0 ¹	<2.0 ¹
trans-1,2-Dichloroethene	70	<5.0	<2.0	<2.0	<2.0	NA	<5.0	<2.0	<2.0	<2.0	NA	NA	NA	NA	NA
Diethyl ether	1,200*	<5.0	<2.0	15	<2.0	<2.0	<5.0	<2.0	13	18	30	<2.0	<2.0	<2.0	<2.0
Methylene chloride	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5
1,1,2,2-Tetrachloroethane	.055*	<5.0	<2.0	<2.0	<1.0	<1.0	<5.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1
Toluene	1,000	<5.0	<2.0	<2.0	<1.0	<1.0	<5.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1
Trichloroethene	2.8	<5.0	<2.0	<2.0	<1.0	<1.0	<5.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1
Vinyl chloride	0.015	<10	<2.0	<2.0	<1.0	<1.0	<10	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1
Xylenes, Total	530	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2

ug/L Micrograms per liter.

< Constituent was not detected above the reporting limit.

J Constituent concentration is qualified as estimated.

NA Not analyzed

U Constituent concentration is qualified as nondetect due to blank contamination.

¹ Cis-1,2-Dichloroethene & trans-1,2-Dichloroethene were analyzed as one constituent (Cis/Trans-1,2-Dichloroethene)

* USEPA Region IX Preliminary Remediation Goal (PRG) for tap water (no NCAC 2L Groundwater Standard exists).

 Indicates that the reported concentration exceeds the NCAC 2L Groundwater Standard or PRG.

Table 6-4. Summary of Analytical Results for Surface Water Samples Collected in July 2004, UNC Airport Road Waste Disposal Area, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Constituent	Sample ID: Date Sampled:	SW-1 07/20/04	SW-2 07/20/04	SW-3 07/20/04	SW-4 07/20/04	SW-5 07/20/04	SW-6 07/20/04
<u>Volatile Organics</u> (USEPA Method 8260) ug/L	Screening Criteria						
Diethyl ether	1,200*	<2	<2	4.2	4.0	2.4	<2

ug/L Micrograms per liter.

< Constituent was not detected above the reporting limit.

* USEPA Region IX Preliminary Remediation Goal (PRG) for tap water (no surface water standard exists).

Table 6-5. Historical Summary of Diethyl Ether Detected in Surface Water Samples, UNC Airport Road Waste Disposal Area, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Constituent	Sample ID:	SW-1	SW-1	SW-1	SW-1	SW-1	SW-1	SW-1	SW-1	SW-2	SW-2	SW-2	SW-2	SW-2	SW-2	SW-2	SW-2	SW-2	SW-2	
	Date Sampled:	06/16/95	01/26/96	05/09/96	10/28/96	04/10/97	12/03/97	07/20/04	06/16/95	01/26/96	05/09/96	08/07/96	10/28/96	04/10/97	08/15/97	12/03/97	07/20/04			
	Sampled by:	ARCADIS	UNC	UNC	UNC	UNC	UNC	ARCADIS	ARCADIS	UNC	UNC	UNC	UNC	UNC	UNC	UNC	UNC	UNC	ARCADIS	
<u>Volatile Organics</u> (USEPA Method 8260) ug/L	Screening Criteria																			
Diethyl ether	1,200*	<100	<10	<10	<10	<10	<10	<2	47	<10	<10	<10	<10	<10	<10	<10	<10	<10	<2	

Constituent	Sample ID:	SW-3	SW-3	SW-3	SW-3	SW-3	SW-3	SW-3	SW-3	SW-3	SW-4	SW-4	SW-4	SW-4	SW-4	SW-4	SW-4	SW-4	SW-4	SW-4	
	Date Sampled:	06/16/95	01/26/96	05/09/96	08/07/96	10/28/96	04/10/97	08/15/97	12/03/97	07/20/04	06/16/95	01/26/96	05/09/96	08/07/96	10/28/96	04/10/97	08/15/97	12/03/97	07/20/04		
	Sampled by:	ARCADIS	UNC	UNC	UNC	UNC	UNC	UNC	UNC	ARCADIS	ARCADIS	UNC	UNC	UNC	UNC	UNC	UNC	UNC	UNC	UNC	ARCADIS
<u>Volatile Organics</u> (USEPA Method 8260) ug/L	Screening Criteria																				
Diethyl ether	1,200*	6	<10	<10	10	<10	<10	12	<10	4.2	5	<10	<10	<10	<10	<10	<10	<10	<10	4.0	

Constituent	Sample ID:	SW-5	SW-5	SW-5	SW-5	SW-5	SW-5	SW-5	SW-5	SW-5	SW-5	SW-6	SW-6	SW-6	SW-6	SW-6	SW-6	SW-6	SW-6	SW-6	
	Date Sampled:	06/16/95	01/26/96	05/09/96	08/07/96	10/28/96	04/10/97	08/15/97	12/03/97	01/29/03	07/20/04	06/16/95	01/26/96	05/09/96	08/07/96	10/28/96	04/10/97	08/15/97	12/03/97	07/20/04	
	Sampled by:	ARCADIS	UNC	UNC	UNC	UNC	UNC	UNC	UNC	UNC	ARCADIS	ARCADIS	UNC	UNC	UNC	UNC	UNC	UNC	UNC	UNC	ARCADIS
<u>Volatile Organics</u> (USEPA Method 8260) ug/L	Screening Criteria																				
Diethyl ether	1,200*	2	<10	<10	<10	10	<10	<10	<10	<5.0	2.4	<100	<10	<10	<10	<10	<10	<10	<10	<10	<2

ug/L Micrograms per liter.

< Constituent was not detected above the reporting limit.

* USEPA Region IX Preliminary Remediation Goal (PRG) for tap water (no surface water standard exists).