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November 27, 2002

Mr. Larry Rose
Solid Waste Section
Division of Waste Management
401 Oberlin Road
Suite 150
Raleigh, North Carolina 27605-1350

Subject: November 2002 Semi-Annual Monitoring Sampling Report
North Wake Unlined Landfill

Dear Mr. Rose:

CDM, on behalf of Wake County, is submitting one copy of the November 2002 semi-annual sampling event report. This letter report presents the results of the semi-annual sampling event that was recently completed at the North Wake Unlined Landfill and constitutes the second semi-annual sampling event for 2002.

The groundwater monitoring network consists of the following wells: MW-11 (shallow background well), MW-11d (deep background well), MW-5, MW-6, MW-6d, MW-7, MW-8, MW-8d, MW-9, MW-10, MW-10d, MW-22, MW-23, MW-23d, MW-24, MW-27, MW-28, MW-28d, MW-29d, MW-30, MW-31, MW-31d, MW-32, MW-33, MW-34, MW-34d, MW-35, TB-1a, and TB-1a deep and surface water sampling locations SW-2 and SW-3. All groundwater samples are analyzed for Appendix I Volatile Organic Compounds and Metals plus the detected Appendix II constituents mercury, bis(2-ethylhexyl)phthalate, and dichlorodifluoromethane. In addition to the Appendix I and detected Appendix II constituents, samples from monitoring wells MW-5, -6, -8, -9, -10, -24, and TB-1a are analyzed for natural attenuation parameters. Sampling results plus the statistical analysis for all wells and surface water locations are discussed below.

Field Activities

Groundwater and surface water samples from the North Wake Unlined Landfill were collected on November 5-7, 2002. Groundwater samples were collected by use of disposable, laboratory decontaminated, Teflon™ bailers.

Groundwater elevations were measured at each well prior to sampling and are presented in Table 1. These groundwater elevations were used to construct potentiometric contours for this sampling event and are presented on Figure 1. The groundwater elevations and potentiometric contours were used to estimate groundwater velocities at each well. Groundwater velocity values are presented in Table 2. After depth to groundwater was determined, three well volumes of water were removed from each well prior to sampling to ensure fresh formation water within the well water column. Each well volume and surface water sample was measured in the field for pH, conductivity, and temperature. The field parameters at the time of sampling are presented in Table 3.

Sampling Results

Groundwater and surface water samples were analyzed by Paradigm Analytical Laboratories in Wilmington, North Carolina for the North Carolina Appendix I constituents plus the detected Appendix II constituents (dichlorodifluoromethane, bis(2-ethylhexyl)phthalate, and mercury). Based on recommendations by the SWS and the Groundwater Assessment Report, select wells (MW-5, -6, -8, -9, -10, -24, and TB-1a) were sampled for chloride, sulfate, sulfide, total organic carbon, ferrous iron, carbon dioxide, and methane in addition to the Appendix I and detected Appendix II constituents. The results of the additional sample analysis are discussed in a separate section.

MW-11 and MW-11d

All analyzed constituents were below detection limits in samples from the background wells (MW-11 and –11d).

MW-5

Compliance well MW-5 had detections of cobalt, trichloroethene, cis-1,2-dichloroethene, 1,1-dichloroethane, chloroethane, 1,4-dichlorobenzene. The cobalt detection was above the groundwater protection standard. The detection of trichloroethene exceeded the North Carolina 2L Standards (2L). These constituents have been detected during previous events.

MW-6

Compliance well MW-6 had detections of mercury, cis-1,2-dichloroethene, 1,1-dichloroethane, and methylene chloride. The detection of methylene chloride exceeded the 2L Standard.

MW-6d

No Appendix I or II VOC's, SVOC's or metals were detected in the samples from MW-6d.

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MW-7
Compliance well MW-7 had detections of 1,1-dichloroethane. No other Appendix I or II constituents were detected.

MW-8
Compliance well MW-8 had detections of cadmium and chromium. Both of these metals have been detected during previous events. No other Appendix I or II VOC's, SVOC's or metals were detected in the samples from MW-8.

MW-8d
No Appendix I or II VOC's, SVOC's or metals were detected in the samples from MW-8d.

MW-9
MW-9 had detections of cobalt, cis-1,2-dichloroethene, 1,1-dichloroethane, and dichlorodifluoromethane. The quantification of cobalt exceeded the groundwater protection standard.

MW-10
Samples from MW-10 had detections of mercury, tetrachloroethene, 1,1-dichloroethane, methylene chloride, and dichlorodifluoromethane. The quantifications of tetrachloroethene and methylene chloride exceeded the 2L Standard. The duplicate sample was collected from MW-10 and showed very good correlation.

MW-10d
Samples from MW-10d had detections of 1,1-dichloroethane below the 2L Standard. No other Appendix I or Appendix II constituents were detected.

MW-22
Samples from MW-22 had detections of cadmium, cobalt, and 1,1-dichloroethane. The detection of cobalt exceeded the groundwater protection standard.

MW-23
No Appendix I or II VOC's, SVOC's or metals were detected in the samples from MW-23.

MW-23 deep
No Appendix I or II VOC's, SVOC's or metals were detected in the samples from MW-23d.

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MW-24
MW-24 had detections of 1,1-dichloroethane. No other Appendix I or Appendix II constituents were detected.

MW-27
Samples were not collected from MW-27 during this event. MW-27 is sampled annually.

MW-28
Samples were not collected from MW-28 during this event. MW-28 is sampled annually.

MW-28d
Samples were not collected from MW-28d during this event. MW-28d is sampled annually.

MW-29d
No Appendix I or II VOC's, SVOC's or metals were detected in the samples from MW-29d.

MW-30
No Appendix I or II VOC's, SVOC's or metals were detected in the samples from MW-30.

MW-31
No Appendix I or II VOC's, SVOC's or metals were detected in the samples from MW-31, with the exception of chloroform. The detection of chloroform exceeded the 2L Standard. Chloroform has consistently been detected in the MW-31 samples.

MW-31d
No Appendix I or II VOC's, SVOC's or metals were detected in the samples from MW-31 deep, with the exception of chloroform. The detection of chloroform exceeded the 2L Standard. Chloroform was detected in samples from MW-31 deep for the first time in the spring 2001 event and has been detected in the subsequent sampling events.

MW-32
No Appendix I or II VOC's, SVOC's or metals were detected in the samples from MW-32, with the exception of cobalt. The quantification of cobalt exceeded the groundwater protection standard.

TB-1a
Samples from TB-1a had detections of cadmium, chromium, and 1,1-dichloroethane below the 2L. No other Appendix I or Appendix II VOC, SVOC, or metal constituents were detected.

TB-1a deep
Samples from TB-1a deep were below detection limits for all Appendix I and Appendix II VOC, SVOC, and metal constituents.

MW-33
Samples were not collected from MW-33 during this event. MW-33 is sampled annually.

MW-34
Samples were not collected from MW-34 during this event. MW-34 is sampled annually.

MW-34d
Samples were not collected from MW-34d during this event. MW-34d is sampled annually.

MW-35
Samples were not collected from MW-35 during this event. MW-35 is sampled annually.

SW-2 and SW-3
All analytes were below detection limits in the surface water sample SW-3. Samples were not collected from SW-2 during this event.

All analytes were below detection limits in the trip blank and equipment blank. All detected constituents have been detected during previous events at similar concentrations, except where noted. A complete summary of all detected constituents is presented in Table 4. Laboratory results are included in electronic format following this report.

Statistical Analysis

Statistical analysis was performed for all detected constituents in the groundwater samples. Data from the downgradient compliance wells were compared statistically to data from the background wells using either an ANOVA comparison or the Test of Proportions. The ANOVA comparison was used for all VOC detections. The ANOVA comparison was also used for the metal's comparisons where greater than 50% of the data were above detection limits. While using the ANOVA comparison, in instances where results were below detection limits, a value of one-half of the detection limits was substituted. The Test of Proportions was used only for metal's comparisons where greater than 50% of the data was non-detect.

The Test of Proportions was performed on the detections of mercury in MW-10, cobalt in MW-5 and MW-9, cadmium in MW-8 and TB-1a, and chromium in MW-8 and TB-1a. None of these metals were found to be statistically significant by the Test of Proportions.

For all other detections, the ANOVA comparison was performed. Based on the ANOVA comparison, the following constituents were found to be statistically significant: mercury in MW-6; cadmium in MW-22; cobalt in MW-22 and MW-32; trichloroethene in MW-5; 1,1-dichloroethane in MW-5, MW-9, MW-10, MW-10d, MW-22, MW-24, and TB-1a; cis-1,2-dichloroethene in MW-5, MW-6, MW-7, and MW-9; tetrachloroethene in MW-10; methylene chloride in MW-6 and MW-10, and chloroform in MW-31. Table 5 presents a summary of all parameters detected during the November 2002 sampling event that exceeded the 2L Standard, groundwater protection standard, or were statistically significant.

Natural Attenuation Monitoring

The Groundwater Assessment Report recommended that additional groundwater samples be collected from MW-5, -6, -8, -9, -10, -24, and TB-1a for evaluation of natural attenuation parameters. These parameters included chloride, nitrate, sulfate, sulfide, total organic carbon (TOC), carbon dioxide, ferrous iron, and methane, and field measurements of pH, temperature, conductivity, eH, and dissolved oxygen. Results are presented in Table 6. The laboratory data for the additional parameters is included in the electronic format data.

As discussed in Section 4 of the Groundwater Assessment Report (February 2000), based on the concentrations of some of the geochemical data from the select wells, it appeared that environments were present which favored reductive dechlorination; notably, the concentrations of nitrate, ferrous iron, sulfate, and carbon dioxide. The following evidence indicates that one or more mechanisms of natural attenuation and/or reductive dechlorination may be occurring at the site:

- VOC concentrations in contaminated wells continue to decline over a six-year monitoring period.
- The ratio of parent /daughter compounds continues to generally decrease over time.
- Nitrate, ferrous iron, sulfate, and carbon dioxide continue to be detected at concentrations favoring reductive dechlorination.
- Concentrations of cis-1,2-DCE continue to be greater than other DCE isomers trans-1,2-DCE and 1,1-DCE (neither trans-1,2-DCE or 1,1-DCE have been detected since 1995).

In addition to favorable conditions for attenuation, the County has also installed a series of gas vents along the western property boundary, which have since been converted to a vacuum extraction system. The intent of these vents is to prevent offsite migration of landfill

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gas. Since previous work has indicated a relationship between the landfill gas and the contaminated groundwater, the installation of the gas extraction system should further reduce groundwater contaminant concentrations. The perimeter landfill gas remediation vacuum system was initiated in January 2002. CDM will monitor future sampling results for groundwater data trends in future sampling events.

Recommendations

Because Appendix I and II constituents continue to be detected in groundwater samples at statistically significant concentrations, Wake County will continue with its assessment monitoring program on a semi-annual basis. In addition to the Appendix I and detected Appendix II constituents, samples collected from MW-5, -6, -8, -9, -10, -24, and TB-1a will continue to be analyzed for natural attenuation parameters during the semi-annual events until sufficient data is available for completion of an assessment of corrective measures report.

Groundwater samples from the annually monitored wells (MW-27, -28, -28d, -33, -34, -34d, -35) will be collected during the next sampling event in the spring.

If you have any questions or require further explanation, do not hesitate to call me at 787-5620.

Very truly yours,

Mathew F. Colone, P.G.
Camp Dresser & McKee

NORTH CAROLINA LICENSED SEAL 1851 GEOLOGIST MATHEW F. COLONE

11/27/02

cc: Johnny Beal, WCSWM
Joe Wiseman, CDM

Table 1
Groundwater Elevations
North Wake Unlined Landfill

Monitoring Well Designation	TOC Elevation (AMSL)	12/2/99 Groundwater Elevation (AMSL)	4/12/00 Groundwater Elevation (AMSL)	12/19/00 Groundwater Elevation (AMSL)	4/18/01 Groundwater Elevation (AMSL)	7/25/01 Groundwater Elevation (AMSL)	12/4/01 Groundwater Elevation (AMSL)	4/9/02 Groundwater Elevation (AMSL)	11/6/02 Groundwater Elevation (AMSL)
MW-1	358.97	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	231.79	211.94	212.19	210.79	212.35	210.49	210.29	211.79	211.28
MW-6	219.80	207.95	208.16	207.60	208.00	207.29	207.45	208.71	207.04
MW-6d	218.61					205.96	206.16	205.61	206.45
MW-7	234.15	222.51	222.50	222.45	222.61	222.19	222.41	222.80	223.05
MW-8	226.38	damaged	damaged	215.72	215.95	215.48	215.48	215.76	215.63
MW-8d	226.16					214.06	214.06	213.16	214.36
MW-9	242.69	213.41	213.57	213.19	213.54	213.01	212.92	213.33	212.93
MW-10	277.78	NA	NA	NA	NA	NA	NA	NA	NA
MW-10 (relocated)	274.76	233.44	233.60	233.36	233.32	233.05	232.23	232.31	232.81
MW-10d	274.54					231.17	230.81	230.74	231.22
MW-11	343.63	301.60	302.21	301.63	301.26	NM	302.21	299.48	299.96
MW-22	254.62	220.82	221.04	220.92	220.62	220.74	220.49	220.56	221.27
MW-23	274.83	232.33	232.45	232.43	232.78	232.67	232.02	230.83	231.61
MW-23 deep	274.89	232.02	232.08	232.09	232.24	232.26	231.59	231.62	231.87
MW-24	266.64	223.85	223.99	223.54	223.57	223.44	222.93	223.14	223.05
MW-27	215.54	210.75	210.92	NS	210.48	209.82	NS	209.52	NS
MW-28	237.89	219.60	219.85	NS	219.90	219.74	NS	219.89	NS
MW-28d	238.44	220.08	211.48	NS	210.84	212.09	NS	212.34	NS
MW-29d	275.06	235.31	235.87	236.36	236.02	236.23	235.76	234.56	235.94
MW-30	282.32	233.89	234.31	234.62	234.47	234.64	234.14	233.96	234.30
MW-31	261.67	233.24	233.47	233.47	234.34	234.01	233.32	234.02	234.67
MW-31d	260.92	232.80	233.05	233.12	233.77	233.62	232.86	233.61	234.17
MW-32	242.99	227.96	228.04	227.59	228.89	227.10	226.76	228.74	228.96
TB-1a	255.05	229.91	230.05	229.25	230.16	229.45	228.97	230.05	230.03
TB-1a deep	256.01					228.23	226.86	227.76	228.73
MW-33	222.01	210.94	211.19	NS	211.26	209.34	NS	211.21	NS
MW-34	221.96	209.12	209.31	NS	209.85	207.15	NS	208.41	NS
MW-34d	222.16	208.87	209.06	NS	209.54	207.11	NS	209.06	NS
MW-35	223.48	207.22	207.44	NS	207.93	205.62	NS	206.68	NS

(1) AMSL = Above Mean Sea Level
(2) NS = Well not sampled
(3) NM = Well not measured
(4) NA = Well not available

Table 2
Summary of Calculated Groundwater Flow Velocities
North Wake Unlined Landfill

	Sampling Date:		12/2/99		4/12/00		12/19/00		4/18/01		12/4/01		4/9/02		11/6/02	
Monitoring Well Designation	Hydraulic Conductivity ft/day (cm/s)	Effective Porosity	Gradient	Average Linear Velocity ft/day	Gradient	Average Linear Velocity ft/day	Gradient	Average Linear Velocity ft/day	Gradient	Average Linear Velocity ft/day	Gradient	Average Linear Velocity ft/day	Gradient	Average Linear Velocity ft/day	Gradient	Average Linear Velocity ft/day
MW-5	0.33 1.16E-04	0.18	0.0243	4.45E-02	0.0274	5.02E-02	0.0099	1.81E-02	0.0294	5.39E-02	0.0058	1.06E-02	0.0358	6.56E-02	0.0256	4.69E-02
MW-6	10.58 3.73E-03	0.13	0.0820	6.67E+00	0.0736	5.99E+00	0.0960	7.81E+00	0.0800	6.51E+00	0.1020	8.30E+00	0.0516	4.20E+00	0.1184	9.64E+00
MW-7	1.15 4.06E-04	0.18	0.0502	3.21E-01	0.0500	3.19E-01	0.0490	3.13E-01	0.0522	3.34E-01	0.0482	3.08E-01	0.0560	3.58E-01	0.0610	3.90E-01
MW-8	3.61 1.27E-03	0.18	Damaged	Damaged	Damaged	Damaged	0.0132	2.64E-01	0.0125	2.50E-01	0.0139	2.79E-01	0.0130	2.62E-01	0.0134	2.70E-01
MW-9	1.22 4.30E-04	0.30	0.0530	2.16E-01	0.0477	1.94E-01	0.0603	2.45E-01	0.0487	1.98E-01	0.0693	2.82E-01	0.0557	2.26E-01	0.0690	2.81E-01
MW-10	0.509 1.80E-04	0.05	0.0860	8.75E-01	0.0900	9.16E-01	0.0840	8.55E-01	0.0830	8.45E-01	0.0557	5.68E-01	0.0578	5.88E-01	0.0703	7.15E-01
MW-11	5.66 2.00E-03	0.13	0.0457	1.99E+00	0.0455	1.98E+00	0.0454	1.98E+00	0.0458	2.00E+00	0.0390	1.70E+00	0.0342	1.49E+00	0.0463	2.01E+00
MW-22	0.07 2.47E-05	0.18	0.0096	3.75E-03	0.0122	4.76E-03	0.0108	4.21E-03	0.0073	2.84E-03	0.0058	2.24E-03	0.0066	2.56E-03	0.0149	5.81E-03
MW-23	3.59 1.27E-03	0.30	0.0388	4.65E-01	0.0408	4.89E-01	0.0338	4.05E-01	0.0463	5.54E-01	0.0337	4.03E-01	0.0138	1.66E-01	0.0268	3.21E-01
MW-24	0.34 1.20E-04	0.30	0.0214	2.42E-02	0.0222	2.51E-02	0.0197	2.23E-02	0.0198	2.25E-02	0.0163	1.84E-02	0.0174	1.98E-02	0.0169	1.92E-02

NS - Not Sampled
NC - Not Constructed

Table 3
Field Parameters
North Wake Unlined Landfill

Sampling Date:	4/12/00			12/19/00			4/18/01			12/4/01			4/9/02			11/6/02		
Monitoring Well Designation	pH (-)	Conductivity (µS)	Temp. (deg. C)	pH (-)	Conductivity (µS)	Temp. (deg. C)	pH (-)	Conductivity (µS)	Temp. (deg. C)	pH (-)	Conductivity (µS)	Temp. (deg. C)	pH (-)	Conductivity (µS)	Temp. (deg. C)	pH (-)	Conductivity (µS)	Temp. (deg. C)
MW-11	4.65	62	16.0	5.69	78	15.6	6.80	57	15.0	5.48	70	17.1	6.19	60	16.2	6.14	73	15.6
MW-5	4.84	306	16.0	5.40	203	16.0	5.20	210	17.2	5.68	125	16.7	5.54	190	16.9	5.72	181	17.4
MW-6	4.72	108	14.7	5.54	92	16.1	5.05	73	15.5	5.88	68	17.2	5.47	79	15.6	5.58	98	19.2
MW-6d										6.59	105	16.2	6.87	105	17.3	6.59	101	16.7
MW-7	4.55	226	15.0	5.26	194	16.0	6.36	222	14.5	5.72	145	16.6	5.90	228	15.4	6.14	222	18.6
MW-8	5.11	115	17.8	5.42	100	16.4	5.61	76	16.0	6.40	81	16.8	6.00	76	16.2	6.05	82	18.7
MW-8d										7.58	183	16.2	7.16	163	17.0	6.95	235	16.4
MW-9	4.85	459	17.1	4.79	513	15.7	5.79	415	17.3	6.41	483	16.1	6.11	517	17.3	6.16	521	16.6
MW-10	--	abandoned	--	--	abandoned	--	--	abandoned	--	--	abandoned	--	--	abandoned	--	--	abandoned	--
MW-10 (relocated)	4.30	202	16.4	5.27	166	15.1	5.24	126	15.7	5.88	115	15.4	5.58	122	16.7	5.54	158	16.1
MW-10d										6.42	211	15.4	5.75	195	16.4	6.79	223	15.4
MW-22	4.44	106	16.5	5.40	127	13.8	5.49	120	15.7	6.23	116	15.4	5.75	124	17.0	6.31	111	15.6
MW-23	4.90	160	16.5	6.32	99	14.5	5.46	98	16.2	5.98	100	16.2	4.97	83	16.3	6.05	81	16.3
MW-23 deep	5.18	113	15.8	5.70	99	14.4	5.87	94	15.8	6.51	94	15.2	5.65	96	15.9	6.58	98	15.8
MW-24	4.42	174	15.7	5.61	178	14.7	5.20	131	17.1	5.83	153	15.2	5.59	153	16.9	5.76	147	16.0
MW-27	5.60	312	15.3	NS	NS	NS	6.50	180	13.5	NS	NS	NS	6.25	149	14.2	NS	NS	NS
MW-28	5.18	147	16.6	NS	NS	NS	5.92	132	16.0	NS	NS	NS	6.05	135	16.3	NS	NS	NS
MW-28d	5.80	295	17.0	NS	NS	NS	6.90	231	16.1	NS	NS	NS	6.78	212	16.0	NS	NS	NS
MW-29d	4.60	144	16.0	5.70	111	14.8	5.51	101	15.5	5.94	99	15.9	5.87	100	16.4	6.33	103	15.9
MW-30	4.84	107	15.5	5.80	99	13.9	5.79	86	15.0	6.24	86	15.2	6.09	84	16.0	6.61	84	15.4
MW-31	6.52	95	15.1	5.57	107	15.2	5.30	105	16.6	5.84	132	16.9	5.97	155	18.1	6.15	169	17.6
MW-31d	6.96	103	14.1	6.00	107	14.0	6.06	95	15.5	6.43	109	16.6	6.42	112	16.8	6.61	121	16.6
MW-32	4.89	264	14.8	5.57	225	16.3	5.72	239	14.9	6.11	147	17.2	5.97	164	15.8	6.30	140	17.9
TB-1a	6.65	212	14.6	5.52	212	14.7	5.63	171	15.7	6.01	143	15.3	5.70	151	16.6	5.83	164	15.8
TB-1a deep										6.46	92	16.0	6.46	90	16.1	6.62	98	15.7
MW-33	5.55	83	13.5	NS	NS	NS	5.74	64	14.1	NS	NS	NS	6.59	76	14.9	NS	NS	NS
MW-34	4.73	88	13.5	NS	NS	NS	5.89	71	13.0	NS	NS	NS	5.38	68	14.7	NS	NS	NS
MW-34d	6.37	108	13.7	NS	NS	NS	6.76	93	13.9	NS	NS	NS	6.07	116	15.5	NS	NS	NS
MW-35	5.72	38	13.8	NS	NS	NS	4.95	28	14.4	NS	NS	NS	5.41	28	15.0	NS	NS	NS

MW-6d, -8d, -10d, and TB-1a deep installed in June 2001
NS = Not sampled.
NA = Data Not Available

Table 4a
Detected Groundwater Constituents - Metals
North Wake Unlined Landfill

Monitor Well	Sample Date	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury
NC Standard		**50**	**2000**	**2***	**5**	**50**	**2***	**1000**	**15**	**100**	**50**	**18**	**2***	**25***	**2100**	**1.1**
MW-1	15-Apr-94	<3	221	<5	<0.5	<20	23	54	14	<20	<3	<1		50	88	
MW-1	11-May-94	<3	146	<5	<0.5	<20	19	55	14	<20	<3	<1		50	83	
MW-1	10-Jun-94	<3	191	<5	<0.5	<20	27	111	7.6	20	<3	<1		90	114	
MW-1	3-Oct-94	<3	143	<5	<0.5	16	26	74	8	<20	<3	<1		60	85	
MW-1	13-Jun-95	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10		<40	<50	<.5
MW-1	28-Sep-95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	<.5
MW-11 **	31-Oct-95	11	842	8	<1	24	71	331	26	87	<20	<10	<10	117	314	<1
MW-11	22-Mar-96	<10	<500	<2	<1	<10	15	<200	<10	<50	<20	<10	<10	51	70	1.8
MW-11	29-Nov-96	35	<10	<1	<1	<2	<2	<10	<5	<50	<5	<5	<10	<5	<10	<.2
MW-11	22-Apr-97	<10	<20	<5	<0.5	<20	<10	<10	<2	<20	<3	<1	<10	<20	130	<.2
MW-11	31-Oct-97	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	66	<.2
MW-11	11-May-98	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-11	8-Dec-98	<10	<500	<2	2.1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-11	14-Apr-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-11	30-Nov-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-11	5-Apr-00	<10	<500	<2	1.2	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-11	18-Dec-00	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-11	18-Apr-01	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-11	27-Nov-01	<10	311	<10	<10	<10	<10	16.5	<10	<40	<10	<10	<10	<50	29.7	<.3
MW-11	5-Apr-02	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-11	5-Nov-02	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-11d	31-Oct-95	<10	<500	<2	2	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<1
MW-11d	22-Mar-96	<10	<500	<2	1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-11d	29-Nov-96	<5	26	<1	<1	<2	<2	<10	<5	<50	<5	<5	<10	<5	<10	<.2
MW-11d	22-Apr-97	<10	<500	<5	<1	<20	<10	<10	<2	<20	<3	<1	<10	<20	54	<.2
MW-11d	31-Oct-97	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	26	<.2
MW-11d	11-May-98	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	69	<.2
MW-11d	8-Dec-98	<10	<500	<2	1.9	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-11d	14-Apr-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-11d	30-Nov-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-11d	5-Apr-00	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-11d	18-Dec-00	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-11d	18-Apr-01	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-11d	27-Nov-01	<10	<100	<10	<10	<10	<10	<10	<10	<40	<10	<10	<10	<50	<20	<.3
MW-11d	5-Apr-02	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	0.3
MW-11d	5-Nov-02	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-5	6-Mar-94	<5	76	<5	<5	<10	<10	<20	<5	<10	<5	<10	<10	<10	110	
MW-5	15-Apr-94	<3	60	<50	0.9	<20	<10	<10	<2	<20	<3	62	<10	<20	47	
MW-5	11-May-94	<3	58	<5	0.5	<20	<10	11	<2	<20	<3	<1	<10	<20	28	
MW-5	31-May-94	<5	66	<5	<5	<10	11	<20	<5	17	<5	<10	<10	<10	63	
MW-5	10-Jun-94	<3	54	<5	<.5	<20	<10	<10	2.5	<20	<3	<1	<10	<20	20	
MW-5	30-Sep-94	<3	48	<5	<.5	<20	<20	<10	<2	<20	<3	7.3	<10	<20	10	
MW-5	13-Jun-95	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.5
MW-5	28-Sep-95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10	NS	NS	<.5
MW-5	31-Oct-95	<10	<500	<2	1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<1
MW-5 (dup)	31-Oct-95	<10	<500	<2	1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<1
MW-5	30-Jan-96	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	237	<.5
MW-5	29-Nov-96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS
MW-5	22-Apr-97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS
MW-5	1-Nov-97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS
MW-5	6-May-98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS
MW-5	6-Aug-98	<10	<500	2.2	4.9	32	24	<200	<10	<50	<20	<10	<10	68	190	<0.2
MW-5	8-Dec-98	<10	<500	<2	1.5	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-5	16-Apr-99	<10	<500	<2	1.5	<10	28.3	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-5	2-Dec-99	<10	<500	<2	1	<10	49.8	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-5	11-Apr-00	<10	<500	<2	<1	<10	34.8	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-5	20-Dec-00	<10	<500	<2	<1	<10	26.9	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-5	16-Apr-01	<10	<500	<2	<1	<10	32.1	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-5	3-Dec-01	<10	<100	<10	<10	<10	19.3	<10	<10	<40	<10	<10	<10	<50	<20	<.3
MW-5	12-Apr-02	<10	<500	<2	<1	<10	34.9	<200	<10	<50	<20	<10	<10	<40	70.5	<.3
MW-5	5-Nov-02	<10	<500	<2	<1	<10	37.7	<200	<10	<50	<20	<10	<10	<40	<50	<.3

Table 4a
Detected Groundwater Constituents - Metals
North Wake Unlined Landfill

Monitor Well	Sample Date	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury
NC Standard		**50**	**2000**	**2***	**5**	**50**	**2***	**1000**	**15**	**100**	**50**	**18**	**2***	**25***	**2100**	**1.1**
MW-6	6-Mar-94	<5	190	<5	<5	32	10	33	18	33	<5	<10	<10	63	51	
MW-6	15-Apr-94	<3	144	<5	<.5	20	12	20	11	<20	<3	7.3	<10	50	27	
MW-6	11-May-94	<3	175	<5	<.5	30	13	33	9.3	<20	<3	7.3	<10	70	35	
MW-6	1-Jun-94	<5	260	5.4	<.5	49	16	28	14	13	<5	<10	<10	100	72	
MW-6	25-Aug-94	<3	68	<5	<.5	<20	<20	<10	<2	<20	<3	7.3	<10	<20	<10	
MW-6	29-Sep-94	<3	110	<5	<.5	19	<20	19	6.9	<20	<3	7.3	<10	40	16	
MW-6	13-Jun-95	<10	<500	2	<1	22	<10	<200	<10	<50	<20	<10	<10	41	<50	2.6
MW-6	28-Sep-95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10	NS	NS	0.5
MW-6	31-Oct-95	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	2.5
MW-6	30-Jan-96	<10	<500	7	<1	44	12	<200	13	<50	<20	<10	<10	65	61	1.8
MW-6	29-Nov-96	<5	150	2	<1	20	6	21	6	<50	<5	<5	<10	52	40	0.83
MW-6	22-Apr-97	<5	<5	<.3	<1	12	<5	<5	<5	<5	<10	<5	<10	<5	67	1.1
MW-6	2-Nov-98	<10	<500	<2	<1	14	<10	<200	<10	<50	<20	<10	<10	<40	28	0.54
MW-6	6-May-98	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	0.65
MW-6 (dup)	6-May-98	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<0.2
MW-6	8-Dec-98	<10	<500	<2	1.4	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	0.81
MW-6	16-Apr-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	0.7
MW-6	2-Dec-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	0.9
MW-6	11-Apr-00	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	1.1
MW-6	19-Dec-00	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	1.8
MW-6	16-Apr-01	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	1.9
MW-6	3-Dec-01	<10	<100	<10	<10	<10	<10	<10	<10	<40	<10	<10	<10	<50	<20	0.6
MW-6	12-Apr-02	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-6	5-Nov-02	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	0.9
MW-6d	8-Jun-01	<10	<100	<10	<10	<10	<10	<10	<10	<40	<10	<10	<10	<50	<20	<.3
MW-6d	4-Dec-01	<10	<100	<10	<10	<10	<10	<10	<10	<40	<10	<10	<10	<50	<20	<.3
MW-6d	9-Apr-02	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-6d	7-Nov-02	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-7	6-Mar-94	<5	190	<5	<5	48	17	110	22	21	<5	<10	<10	67	82	
MW-7	15-Apr-94	<3	136	<5	<.5	30	11	53	25	20	<3	<1	<10	40	56	
MW-7	11-May-94	<3	51	<5	<.5	30	11	24	6.8	<20	<3	<1	<10	40	29	
MW-7	31-May-94	<5	350	5.4	<.5	89	30	180	34	40	<5	<10	<10	140	150	
MW-7	25-Aug-94	<3	44	<5	<.5	<20	<20	25	2.7	<20	<3	<1	<10	<20	19	
MW-7	29-Sep-94	<3	49	<5	<.5	15	<20	26	4.7	<20	<3	<1	<10	20	20	
MW-7	13-Jun-95	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.5
MW-7	28-Sep-95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10	NS	NS	<.5
MW-7	31-Oct-95	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<1
MW-7	30-Jan-96	<10	<500	2	<1	35	<10	<200	10	<50	<20	<1	<10	<40	<50	<.5
MW-7	29-Nov-96	<5	17	<1	<1	<2	<2	<10	<5	<50	<5	<5	<10	<5	<10	<.2
MW-7	21-Apr-97	<5	<5	<.3	<1	<5	<5	<5	<5	<5	<10	<5	<10	<5	<20	0.38
MW-7 (dup)	21-Apr-97	<5	<5	<.3	<1	<5	<5	<5	<5	<5	<10	<5	<10	<5	<20	0.22
MW-7	1-Nov-97	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	48	0.58
MW-7	6-May-98	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	0.24
MW-7	8-Dec-98	<10	<500	<2	2.6	15	<10	<200	<10	<50	<20	<10	<10	<40	<50	0.25
MW-7	16-Apr-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-7	2-Dec-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	0.2
MW-7	11-Apr-00	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	0.2
MW-7 (dup)	11-Apr-00	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	0.2
MW-7	19-Dec-00	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	0.3
MW-7 (dup)	19-Dec-00	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	0.3
MW-7	16-Apr-01	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-7	4-Dec-01	<10	<100	<10	<10	<10	<10	<10	<10	<40	<10	<10	<10	<50	<20	<.3
MW-7	9-Apr-02	<10	<500	<2	<1	<10	10.1	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-7	6-Nov-02	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3

Table 4a
Detected Groundwater Constituents - Metals
North Wake Unlined Landfill

Monitor Well	Sample Date	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury
NC Standard		**50**	**2000**	**2***	**5**	**50**	**2***	**1000**	**15**	**100**	**50**	**18**	**2***	**25***	**2100**	**1.1**
MW-8	6-Mar-94	<5	120	<5	<5	17	<10	26	<5	13	<5	<10	<10	35	49	
MW-8	15-Apr-94	<3	97	<5	<.5	<20	<10	22	4.2	20	<3	<1	<10	30	35	
MW-8	11-May-94	<3	89	<5	<.5	<20	<10	20	4.3	<20	<3	<1	<10	20	26	
MW-8	31-May-94	<5	330	5.4	<5	81	34	90	16	39	<5	<10	<10	150	150	
MW-8	25-Aug-94	<3	76	<5	<.5	<20	<10	13	2.7	<20	<3	<1	<10	<20	21	
MW-8	30-Sep-94	<3	82	<5	<.5	20	<10	14	5.4	<20	<3	<1	<10	20	19	
MW-8	13-Jun-95	<10	<500	<2	<1	38	11	<200	<10	<50	<20	<10	<10	87	<50	<.5
MW-8	28-Sep-95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10	NS	NS	<.5
MW-8	31-Oct-95	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<1
MW-8	30-Jan-96	<10	<500	3	<1	35	12	<200	<10	<50	<20	<10	<10	64	63	<.5
MW-8 (dup)	30-Jan-96	<10	<500	3	<1	36	12	<200	<10	<50	<20	<10	<10	63	76	<.5
MW-8	29-Nov-96	<5	120	<1	<1	14	5	21	<5	<50	<5	<5	<10	31	54	<.2
MW-8 (dup)	29-Nov-96	<5	82	<1	<1	<2	<2	<10	<5	<50	<5	<5	<10	<5	19	<.2
MW-8	21-Apr-97	<5	<5	<.3	<1	19	<5	<5	<5	<5	<10	<5	<10	<5	<20	<.2
MW-8	2-Nov-97	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-8	6-May-98	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-8	8-Dec-98	<10	<500	<2	1.2	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-8	16-Apr-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-8 (dup)	16-Apr-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-8	2-Dec-99	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS
MW-8	11-Apr-00	<10	<500	<2	2.1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-8	20-Dec-00	<10	<500	<2	1.5	<10	17.1	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-8	16-Apr-01	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-8	3-Dec-01	<10	<100	<10	<10	<10	<10	<10	<10	<40	<10	<10	<10	<50	<20	<.3
MW-8	12-Apr-02	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-8	5-Nov-02	<10	<500	<2	1.2	15.3	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-8d	8-Jun-01	<10	<100	<10	<10	<10	<10	<10	<10	<40	12.7	<10	<10	<50	<20	<.3
MW-8d	4-Dec-01	<10	<100	<10	<10	<10	<10	<10	<10	<40	<10	<10	<10	<50	<20	<.3
MW-8d	9-Apr-02	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-8d (dup)	9-Apr-02	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-8d	7-Nov-02	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-9	6-Mar-94	<5	210	<5	<5	<10	<10	<20	<5	<10	<5	<10	<10	<10	<20	
MW-9	15-Apr-94	<3	199	<5	<.5	<20	11	<10	<2	<20	<3	<1	<10	<20	<10	
MW-9	11-May-94	<3	193	<5	<.5	<20	10	<10	2.7	<20	<3	<1	<10	<20	14	
MW-9	31-May-94	<5	270	<5	<5	24	14	25	21	<10	<5	<10	<10	23	120	
MW-9	25-Aug-94	<3	135	<5	<.5	<20	<20	<10	<2	<20	<3	<1	<10	<20	14	
MW-9	29-Sep-94	<3	123	<5	<.5	<20	<20	<10	4.2	<20	<3	<1	<10	<20	12	
MW-9	13-Jun-95	<10	<500	<2	<1	<10	14	<200	<10	<50	<20	<10	<10	<40	<50	<.5
MW-9	28-Sep-95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10	NS	NS	<.5
MW-9	31-Oct-95	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<1
MW-9	30-Jan-96	<10	<500	4	1	20	16	<200	17	<50	<20	<10	<10	<40	65	<.5
MW-9	29-Nov-96	<5	140	<1	<1	<2	<2	<10	<5	<50	<5	<5	<10	<5	21	<.2
MW-9	22-Apr-97	<5	<5	<.3	<1	<5	<5	<5	<5	<5	<10	<5	<10	<5	<20	<.2
MW-9	2-Nov-97	<10	<500	<2	<1	<10	11	<200	<10	<50	<20	<10	<10	<40	37	<.2
MW-9	6-May-98	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-9	8-Dec-98	<10	<500	<2	1.5	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-9	16-Apr-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-9	2-Dec-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-9	11-Apr-00	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-9	20-Dec-00	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-9	16-Apr-01	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-9	3-Dec-01	11	166	<10	<10	<10	<10	<10	<10	<40	<10	<10	<10	<50	<20	<.3
MW-9 (dup)	3-Dec-01	12.2	160	<10	<10	<10	<10	<10	<10	<40	<10	<10	<10	<50	<20	<.3
MW-9	12-Apr-02	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	10.8	<40	<50	<.3
MW-9	5-Nov-02	<10	<500	<2	<1	<10	10.1	<200	<10	<50	<20	<10	<10	<40	<50	<.3

Table 4a
Detected Groundwater Constituents - Metals
North Wake Unlined Landfill

Monitor Well	Sample Date	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury
NC Standard		50	2000	2*	5	50	2*	1000	15	100	50	18	2*	25*	2100	1.1
MW-10	6-Mar-94	<5	690	<5	<5	150	100	380	18	140	110	<10	<10	310	230	
MW-10	15-Apr-94	<3	117	<5	<.5	20	20	51	3.2	40	<3	5.6	<10	40	38	
MW-10	11-May-94	<3	103	<5	<.5	20	16	48	2	20	<3	<1	<10	40	32	
MW-10	31-May-94	<5	280	<5	<5	63	39	140	<5	55	<5	<10	<10	120	120	
MW-10	25-Aug-94	<3	143	<5	<.5	30	<20	63	2.3	30	<3	<1	<10	60	43	
MW-10	29-Sep-94	<3	103	<5	<.5	17	<20	43	3.6	<20	<3	<1	<10	50	29	
MW-10	13-Jun-95	<10	<500	2	2	111	38	339	<10	143	<20	<10	<10	313	168	<.5
MW-10	28-Sep-95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10	NS	NS	<.5
MW-10	31-Oct-95	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<1
MW-10	30-Jan-96	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.5
MW-10	28-Nov-96	<5	71	<1	<1	<2	14	<10	<5	<50	<5	<5	<10	<5	<10	<.2
MW-10	22-Apr-97	<5	<5	<.3	<1	31	23	<5	<5	<5	<10	<5	<10	43	98	<.2
MW-10	1-Nov-97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS
MW-10	5-May-98	<10	<500	<2	1.3	<10	<10	<200	13	<50	<20	<10	<10	<40	720	0.34
MW-10	18-Aug-98	<10	<500	<2	4.9	<10	<10	<200	<10	<50	<20	<10	<10	<40	150	<.2
MW-10	10-Sep-98	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-10	6-Oct-98	<10	<500	<2	1.2	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-10	8-Dec-98	<10	<500	<2	2	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-10	11-Jan-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-10	8-Feb-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-10 (dup)	8-Feb-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-10	16-Apr-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-10	2-Dec-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	0.3
MW-10	12-Apr-00	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-10	20-Dec-00	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-10	17-Apr-01	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-10	3-Dec-01	<10	<100	<10	<10	<10	<10	<10	<10	<40	<10	<10	<10	<50	<20	<.3
MW-10	12-Apr-02	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-10	5-Nov-02	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	0.5
MW-10 (dup)	5-Nov-02	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	0.4
MW-10d	8-Jun-01	<10	<100	<10	<10	<10	<10	30	<10	<40	<10	<10	<10	<50	<20	0.3
MW-10d	4-Dec-01	<10	<100	<10	<10	<10	<10	<10	<10	<40	<10	<10	<10	<50	<20	<.3
MW-10d	9-Apr-02	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-10d	5-Nov-02	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-22	9-Jun-97	<10	<500	<2	2.9	<10	130	<200	<10	66	<20	<10	<10	<40	<50	<.2
MW-22	18-Aug-97	11.9	<500	<2	4.4	<10	229	<200	14.3	164	<20	<10	<10	<40	68.6	<.2
MW-22	2-Nov-97	<10	<500	<2	1.5	<10	210	<200	12	130	<20	<10	<10	<40	230	<.2
MW-22	6-May-98	<10	<500	<2	<1	<10	110	<200	<10	51	<20	<10	<10	<40	80	<.2
MW-22	18-Aug-98	<10	<500	<2	9.6	<10	110	<200	<10	<50	<20	<10	<10	<40	210	<.2
MW-22	10-Sep-98	<10	<500	<2	<1	<10	100	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-22	6-Oct-98	<10	<500	<2	<1	<10	99	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-22	8-Dec-98	<10	<500	<2	1.9	<10	130	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-22	11-Jan-99	<10	<500	<2	1.5	<10	202	<200	<10	55	<20	<10	<10	<40	<50	<.2
MW-22	8-Feb-99	<10	<500	<2	2	<10	168	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-22	16-Apr-99	<10	<500	<2	4.1	10.1	261	<200	21	70.9	<20	<10	<10	<40	<50	<.2
MW-22	2-Dec-99	<10	<500	<2	7.4	<10	160	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-22	12-Apr-00	<10	<500	<2	6.1	<10	98.1	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-22	20-Dec-00	<10	<500	<2	2.4	<10	60.7	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-22	17-Apr-01	<10	<500	<2	1.2	<10	31.4	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-22	5-Dec-01	<10	<100	<10	<10	<10	26.9	<10	<10	<40	<10	<10	<10	<50	<20	<.3
MW-22	9-Apr-02	<10	<100	<10	2.1	<10	63.5	<10	<10	<40	<10	<10	<10	<50	<20	<.3
MW-22	6-Nov-02	<10	<100	<10	1.2	<10	26.5	<10	<10	<40	<10	<10	<10	<50	<20	<.3

Table 4a
Detected Groundwater Constituents - Metals
North Wake Unlined Landfill

Monitor Well	Sample Date	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury
NC Standard		50	2000	2*	5	50	2*	1000	15	100	50	18	2*	25*	2100	1.1
MW-23	9-Jun-97	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-23	18-Aug-97	10.3	<500	<2	2.3	<10	14.2	<200	18.8	59.1	<20	<10	<10	<40	<50	<.2
MW-23	2-Nov-97	<10	600	4.7	2.6	54	35	<200	56	110	<20	<10	<10	170	260	<.2
MW-23	5-May-98	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-23	18-Aug-98	<10	<500	<2	5.4	24	10	<200	17	<50	<20	<10	<10	50	150	<.2
MW-23	10-Sep-98	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-23	6-Oct-98	<10	<500	<2	1.6	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	0.26
MW-23	8-Dec-98	<10	<500	<2	1.7	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-23 (dup)	8-Dec-98	<10	<500	<2	2.3	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-23	11-Jan-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	0.20
MW-23	8-Feb-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	0.20
MW-23	16-Apr-99	<10	<500	<2	<1	11.2	<10	<200	23.8	<50	<20	<10	<10	<40	<50	0.7
MW-23	2-Dec-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	0.2
MW-23 (dup)	2-Dec-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-23	12-Apr-00	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	1.1
MW-23	20-Dec-00	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-23	17-Apr-01	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-23	4-Dec-01	<10	<100	<10	<10	<10	<10	<10	<10	<40	<10	<10	<10	<50	<20	<.3
MW-23	11-Apr-02	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-23	6-Nov-02	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-23d	5-May-98	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	80	<.2
MW-23d	18-Aug-98	<10	<500	<2	4	<10	<10	<200	<10	<50	<20	<10	<10	<40	63	<.2
MW-23d	10-Sep-98	<10	<500	<2	1.6	<10	<10	<200	11	<50	<20	<10	<10	<40	<50	<.2
MW-23d	6-Oct-98	<10	<500	<2	2.0	<10	<10	<200	<10	<50	<20	<10	<10	<40	60	0.22
MW-23d	8-Dec-98	<10	<500	<2	1.8	<10	<10	<200	<10	<50	<20	<10	<10	<40	83	<.2
MW-23d	11-Jan-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-23d	8-Feb-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-23d	16-Apr-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-23d	2-Dec-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-23d	12-Apr-00	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-23d	20-Dec-00	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	0.8
MW-23d	17-Apr-01	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-23d	4-Dec-01	<10	<100	<10	<10	<10	<10	<10	<10	<40	<10	<10	<10	<50	<20	<.3
MW-23d	11-Apr-02	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-23d	6-Nov-02	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-24	9-Jun-97	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-24	18-Aug-97	<10	<500	<2	1.7	<10	11.2	<200	<10	<50	<20	<10	<10	<40	52.8	<.2
MW-24	1-Nov-97	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	66	<.2
MW-24 (dup)	1-Nov-97	<10	<500	<2	<1	<10	<10	<200	12	<50	<20	<10	<10	<40	91	0.25
MW-24	5-May-98	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-24	18-Aug-98	<10	<500	<2	4.7	<10	<10	<200	16	<50	<20	<10	<10	<40	180	<.2
MW-24 (dup)	18-Aug-98	11	<500	2.1	8.9	12	11	<200	22	<50	<20	<10	<10	<40	290	<.2
MW-24	10-Sep-98	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	0.44
MW-24	6-Oct-98	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	0.98
MW-24	8-Dec-98	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	0.62
MW-24	8-Dec-98	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	0.62
MW-24	11-Jan-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	0.50
MW-24	16-Apr-99	<10	<500	<2	<1	<10	<10	<200	13.7	<50	<20	<10	<10	<40	53.1	0.4
MW-24	2-Dec-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-24	12-Apr-00	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	0.3
MW-24	20-Dec-00	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-24	16-Apr-01	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	0.3
MW-24 (dup)	16-Apr-01	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-24	3-Dec-01	<10	<100	<10	<10	<10	<10	<10	<10	<40	<10	<10	<10	<50	<20	<.3
MW-24	12-Apr-02	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-24	5-Nov-02	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-27	4-May-98	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-27	7-Dec-98	<10	<500	<2	1	21	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-27	29-Apr-99	<10	<500	<2	2.3	<10	19	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-27	3-Dec-99	<10	<500	<2	<1	<10	13.2	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-27	12-Apr-00	<10	<500	<2	1.7	<10	14.5	<200	<10	<50	<20	<10	<10	<40	75.6	0.5
MW-27	18-Apr-01	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-27	12-Apr-02	<10	<500	<2	1.7	<10	10.5	<200	<10	<50	<20	<10	<10	<40	51.8	<.3

Table 4a
Detected Groundwater Constituents - Metals
North Wake Unlined Landfill

Monitor Well	Sample Date	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury
NC Standard		**50**	**2000**	**2***	**5**	**50**	**2***	**1000**	**15**	**100**	**50**	**18**	**2***	**25***	**2100**	**1.1**
MW-28	1-May-98	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-28	17-Aug-98	<10	<500	<2	5.6	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-28	9-Sep-98	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-28	7-Oct-98	<10	<500	<2	8.8	43	24	<200	<10	<50	<20	<10	<10	80	150	<.2
MW-28	9-Dec-98	<10	<500	<2	8.9	39	19	<200	<10	<50	<20	<10	<10	68	140	<.2
MW-28	12-Jan-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-28	9-Feb-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-28	19-Apr-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-28	3-Dec-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-28	12-Apr-00	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-28	18-Apr-01	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-28	12-Apr-02	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-28d	1-May-98	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-28d	17-Aug-98	<10	<500	<2	1.3	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-28d	9-Sep-98	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-28d	7-Oct-98	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-28d	9-Dec-98	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	0.25
MW-28d	12-Jan-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-28d (dup)	12-Jan-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-28d	9-Feb-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-28d	19-Apr-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-28d	3-Dec-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-28d	12-Apr-00	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-28d	18-Apr-01	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-28d	12-Apr-02	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-29d	4-May-98	<10	<500	<2	<1	13	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-29d	17-Aug-98	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-29d	9-Sep-98	<10	<500	<2	1	17	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-29d (dup)	9-Sep-98	<10	<500	<2	<1	11	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-29d	7-Oct-98	<10	<500	<2	2.7	18	<10	<200	<10	<50	<20	<10	<10	<40	53	<.2
MW-29d	9-Dec-98	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	0.24
MW-29d	12-Jan-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-29d	9-Feb-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-29d	19-Apr-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-29d	3-Dec-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-29d	12-Apr-00	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-29d	19-Dec-00	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-29d	18-Apr-01	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-29d	4-Dec-01	<10	<100	<10	<10	<10	<10	<10	<10	<40	<10	<10	<10	<50	<20	<.3
MW-29d	11-Apr-02	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-29d	6-Nov-02	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-30	4-May-98	<10	<500	<2	<1	60	19	<200	<10	<50	<20	<10	<10	56	60	<.2
MW-30	17-Aug-98	<10	<500	<2	34	50	19	<200	<10	50	<20	<10	<10	50	190	<.2
MW-30	9-Sep-98	<10	<500	<2	<1	16	<10	<200	<10	50	<20	<10	<10	<40	140	<.2
MW-30	7-Oct-98	<10	<500	<2	1.1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-30	7-Dec-98	<10	<500	<2	2.6	20	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-30	12-Jan-99	<10	<500	<2	<1	20	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-30	9-Feb-99	<10	<500	<2	<1	20	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-30	19-Apr-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-30	3-Dec-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-30	12-Apr-00	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-30	19-Dec-00	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-30	18-Apr-01	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-30	4-Dec-01	<10	<100	<10	<10	<10	<10	<10	<10	<40	<10	<10	<10	<50	<20	<.3
MW-30	11-Apr-02	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-30	6-Nov-02	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3

Table 4a
Detected Groundwater Constituents - Metals
North Wake Unlined Landfill

Monitor Well	Sample Date	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury
NC Standard		50	2000	2*	5	50	2*	1000	15	100	50	18	2*	25*	2100	1.1
MW-31	1-May-98	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-31	17-Aug-98	<10	<500	<2	14	88	<10	<200	38	82	<20	<10	<10	81	220	<.2
MW-31	9-Sep-98	<10	<500	<2	3.3	42	<10	<200	15	<50	<20	<10	<10	<40	530	<.2
MW-31	7-Oct-98	<10	<500	<2	1.8	10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-31	8-Dec-98	<10	<500	<2	2.6	24	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-31	11-Jan-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-31	8-Feb-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-31	19-Apr-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-31	3-Dec-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-31	13-Apr-00	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-31	19-Dec-00	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-31	17-Apr-01	<10	<500	<2	<1	16.5	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-31	6-Dec-01	<10	<100	<10	<10	55	<10	<10	<10	<40	<10	<10	<10	<50	<20	<.3
MW-31	11-Apr-02	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-31	6-Nov-02	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-31d	1-May-98	<10	<500	3	<1	110	13	<200	19	68	<20	<10	<10	280	210	<.2
MW-31d	17-Aug-98	<10	<500	<2	8.6	10	<10	<200	<10	<50	<20	<10	<10	<40	94	<.2
MW-31d	9-Sep-98	<10	<500	<2	2.8	25	<10	<200	<10	<50	<20	<10	<10	60	260	<.2
MW-31d	7-Oct-98	<10	<500	<2	2.2	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-31d	8-Dec-98	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-31d	11-Jan-99	<10	<500	<2	<1	19.1	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-31d	8-Feb-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-31d	19-Apr-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-31d	3-Dec-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-31d	13-Apr-00	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-31d	19-Dec-00	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-31d	18-Apr-01	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-31d	6-Dec-01	<10	<100	<10	<10	<10	<10	<10	<10	<40	<10	<10	<10	<50	<20	<.3
MW-31d	11-Apr-02	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-31d	6-Nov-02	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-32	1-May-98	<10	<500	<2	<1	23	44	<200	<10	<50	<20	<10	<10	41	59	<.2
MW-32	17-Aug-98	<10	<500	<2	5.5	10	31	<200	<10	<50	<20	<10	<10	<40	130	<.2
MW-32	9-Sep-98	<10	<500	<2	5.4	34	45	<200	<10	54	<20	<10	<10	60	240	<.2
MW-32	6-Oct-98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS
MW-32	7-Dec-98	<10	<500	<2	8	40	42	<200	<10	77	<20	<10	<10	74	85	<.2
MW-32	11-Jan-99	<10	<500	<2	<1	<10	26.5	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-32	8-Feb-99	<10	<500	<2	<1	<10	24	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-32	19-Apr-99	<10	<500	<2	<1	<10	28.1	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-32	3-Dec-99	<10	<500	<2	<1	<10	25.1	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-32	13-Apr-00	<10	<500	<2	1.2	<10	40.9	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-32	19-Dec-00	<10	<500	<2	1.0	<10	25.8	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-32	17-Apr-01	<10	<500	<2	<1	<10	22.8	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-32	4-Dec-01	<10	<100	<10	<10	<10	14.7	<10	<10	<40	<10	<10	<10	<50	<20	<.3
MW-32	11-Apr-02	<10	<500	<2	<1	<10	12.1	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-32	6-Nov-02	<10	<500	<2	<1	<10	12.2	<200	<10	<50	<20	<10	<10	<40	<50	<.3

Table 4a
Detected Groundwater Constituents - Metals
North Wake Unlined Landfill

Monitor Well	Sample Date	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury
NC Standard		**50**	**2000**	**2***	**5**	**50**	**2***	**1000**	**15**	**100**	**50**	**18**	**2***	**25***	**2100**	**1.1**
TB-1a	1-May-98	<10	<500	<2	1.1	<10	<10	<200	<10	<50	<20	14	<10	<40	50	
TB-1a	17-Aug-98	<10	<500	<2	9.3	21	20	<200	<10	<50	<20	<10	<10	<40	130	<.2
TB-1a	9-Sep-98	<10	<500	<2	2.6	14	16	<200	<10	<50	<20	<10	<10	<40	160	<.2
TB-1a	7-Oct-98	<10	<500	<2	4.0	17	14	<200	<10	<50	<20	<10	<10	<40	<50	<.2
TB-1a (dup)	7-Oct-98	<10	<500	<2	2.1	<10	14	<200	<10	<50	<20	<10	<10	<40	<50	<.2
TB-1a	9-Dec-98	<10	<500	<2	3.0	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	0.22
TB-1a	11-Jan-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
TB-1a	8-Feb-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
TB-1a	19-Apr-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
TB-1a	3-Dec-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
TB-1a	13-Apr-00	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
TB-1a	20-Dec-00	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
TB-1a	17-Apr-01	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
TB-1a	3-Dec-01	<10	<100	<10	<10	<10	<10	17.3	<10	<40	<10	<10	<10	<50	<20	<.3
TB-1a	12-Apr-02	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
TB-1a	5-Nov-02	<10	<500	<2	2.2	12.7	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
TB-1a deep	8-Jun-01	<10	<100	<10	<10	<10	<10	<10	<10	<40	<10	<10	<10	<50	<20	<.3
TB-1a deep	6-Dec-01	<10	<100	<10	<10	<10	<10	<10	<10	<40	<10	<10	<10	<50	<20	<.3
TB-1a deep	11-Apr-02	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
TB-1a deep	6-Nov-02	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-33	6-Aug-98	<10	<500	<2	5.8	46	18	<200	<10	<50	<20	<10	<10	73	110	<.2
MW-33	7-Dec-98	<10	<500	<2	2.7	18	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-33	26-Apr-99	<10	<500	<2	<1	15.5	<10	<200	<10	<50	<20	<10	<10	<40	58.5	<.2
MW-33	2-Dec-99	<10	<500	<2	<1	18.1	<10	<200	<10	<50	<20	<10	<10	<40	61	<.2
MW-33	13-Apr-00	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-33	18-Apr-01	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-33	9-Apr-02	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-34	6-Aug-98	<10	<500	4.9	8.4	43	20	<200	<10	64	<20	<10	<10	110	180	<.2
MW-34	7-Dec-98	<10	<500	<2	2.2	14	<10	<200	<10	<50	<20	<10	<10	<40	59	<.2
MW-34	26-Apr-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	73.2	<.2
MW-34	2-Dec-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-34	13-Apr-00	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-34	18-Apr-01	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-34	9-Apr-02	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-34d	6-Aug-98	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-34d (dup)	6-Aug-98	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-34d	7-Dec-98	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-34d	26-Apr-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-34d	2-Dec-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-34d	13-Apr-00	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-34d	18-Apr-01	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-34d	9-Apr-02	<10	<500	<2	<1	12.5	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-35	6-Aug-98	<10	<500	4.3	9.8	47	30	<200	<10	52	<20	<10	<10	120	130	<.2
MW-35	7-Dec-98	<10	<500	<2	4.6	22	15	<200	<10	79	<20	<10	<10	43	74	<.2
MW-35	26-Apr-99	<10	<500	<2	<1	<10	13	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-35	2-Dec-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-35	13-Apr-00	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
MW-35	18-Apr-01	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
MW-35	9-Apr-02	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.3
SW-2	13-Jun-95	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	
SW-2	31-Oct-95	<10	<500	<2	2	<1	<10	<200	<10	<50	<20	<10	<10	<40	<50	
SW-2	28-Nov-96	<5	25	<1	<1	<2	2	<10	<5	<50	<5	<5	<10	<5	21	<.2
SW-2	21-Apr-97	<5	29	<.3	<1	<5	<5	<5	<5	<5	<10	<5	<10	<5	<20	<.2
SW-2	5-Nov-97	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
SW-2	11-May-98	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
SW-2	24-Nov-98	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
SW-2	14-Apr-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
SW-2	9-Apr-02	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	

Table 4a
Detected Groundwater Constituents - Metals
North Wake Unlined Landfill

Monitor Well	Sample Date	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury
NC Standard		**50**	**2000**	**2***	**5**	**50**	**2***	**1000**	**15**	**100**	**50**	**18**	**2***	**25***	**2100**	**1.1**
SW-3	13-Jun-95	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	
SW-3	31-Oct-95	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	
SW-3	27-Nov-96	<5	33	<1	<1	<2	2	<10	<5	<50	<5	<5	<10	<5	32	<.2
SW-3	21-Apr-97	<5	19	<.3	<1	<5	<5	<5	<5	<5	<10	<5	<10	<5	<20	<.2
SW-3	1-Nov-97	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	56	<.2
SW-3	11-May-98	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
SW-3	24-Nov-98	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
SW-3	14-Apr-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
SW-3	30-Nov-99	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
SW-3	12-Apr-00	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	<.2
SW-3	15-Dec-00	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	
SW-3	16-Apr-01	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	
SW-3	29-Nov-01	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	
SW-3	9-Apr-02	<10	<500	<2	<1	<10	<10	<200	<10	<50	<20	<10	<10	<40	<50	

All units are in micrograms per liter (parts per billion).
--MW-10 was installed inside landfill fence on April 1, 1998
--MW-23D was installed on April 27, 1998
--MW-5 was re-installed on July 24, 1998
--MW-8 was re-installed on April 11, 2000
--MW-6d, -8d, 10d, and TB-1a deep installed June 2001.
*-groundwater protection standard
**-New background well; NS - Not Sampled; dup - duplicate sample
- Concentration exceeds N.C. Groundwater Standards (2L) or grounwater protection standard

Table 4b
Detected Constituents - Volatile Organic Compounds
North Wake Unlined Landfill

Monitor Well	Sample Date	Benzene	1,2-Dichloroethane	1,1,1-Trichloroethane	Trichloroethene	Chloroethane	Chloroform	cis-1,2-Dichloroethene	1,4-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloropropane	1,1-Dichloroethene	Toluene	Trichlorofluoromethane	Styrene	Methylene Chloride	Ethyl Benzene	Chloromethane	Tetrachloroethene	Total Xylenes	Acetone	Vinyl Chloride	Dichlorodifluoromethane	1,2-Dibromoethane	trans 1,2-Dichloroethene	bis (2-ethylhexyl) Phthalate	3&4-Methylphenol	1,2,3-Trichloropropane
NC Standard		1	0.38	200	2.8	2800	0.19	70	75	700	0.56	7	1000	2100	100	5	29	2.6	0.7	530	700	0.015	1400	0.0004	70	3	35/3.5*	5E-06
MW-1	15-Apr-94	<1	<.5	<.5	<.5	<1	<.5	<.5	<1	<.5	<1.0	<.5	<1	<1	<1	<1	<1	<1	<.5	<2	<20	<1			<.5			
MW-1	11-May-94	<1	<.5	<.5	<.5	<1	<.5	<.5	<1	<.5	<1	<.5	<1	<1	<1	<1	<1	<1	<.5	<2	<20	<1			<.5			
MW-1	25-Aug-94	<1	<.5	<.5	<.5	<1	<.5	<.5	<1	<.5	<1	<.5	<1	<1	<1	<1	<1	<1	<.5	<2	<20	<1			<.5			
MW-1	29-Sep-94	<1	<.5	<.5	<.5	<1	<.5	<.5	<1	<.5	<1	<.5	<1	<1	<1	<1	<1	<1	<.5	<2	<20	<1			<.5			
MW-1	13-Jun-95	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<20		
MW-1	28-Sep-95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<5	NS	NS	NS		
MW-11**	31-Oct-95	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<20		
MW-11	22-Mar-96	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<20		
MW-11	27-Nov-96	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1	<2	<25	<1	<5	<1	<1	<10		
MW-11	22-Apr-97	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<5	<1	<2	<20	<1	<1	<1	<1	<5		
MW-11	31-Oct-97	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<5		
MW-11	11-May-98	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<5		
MW-11	8-Dec-98	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	24		
MW-11	14-Apr-99	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10	<10	
MW-11	30-Nov-99	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		
MW-11	5-Apr-00	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-11	18-Dec-00	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-11	18-Apr-01	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-11	27-Nov-01	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-11	5-Apr-02	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-11	5-Nov-02	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-11d	31-Oct-95	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<20		
MW-11d	22-Mar-96	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<20		
MW-11d	27-Nov-96	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1	<2	<25	<1	<5	<1	<1	<10		
MW-11d	22-Apr-97	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<5	<1	<2	<20	<1	<1	<1	<1	<5		
MW-11d	31-Oct-97	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<5		
MW-11d	11-May-98	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<5		
MW-11d	8-Dec-98	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<5		
MW-11d	14-Apr-99	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10	<10	
MW-11d	30-Nov-99	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	20		
MW-11d	5-Apr-00	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-11d	18-Dec-00	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-11d	18-Apr-01	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-11d	27-Nov-01	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-11d	5-Apr-02	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-11d	5-Nov-02	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-5	6-Mar-94	4.9	<.5	5.3	14	<.5	<.5	2.1	<.5	150	<.5	0.8	<.5	9.2	<.5	17	<.5	<.5	6.3	3.23	<5	2			<.5			
MW-5	15-Apr-94	4.2	1.1	<.5	11.8	35.7	<.5	1.5	<1	99.6	<1	1.2	<1	17.9	<1	11.7	<1	5.7	6.3	<2	<20	<1			<.5			
MW-5	11-May-94	2.4	<.5	<.5	8.2	24	<.5	<.5	<1	74	<1	1.1	2	26	<1	11	<1	5.7	4.9	<2	<20	<1			<.5			
MW-5	31-May-94	3.1	<.5	7.2	8.1	<.5	0.6	1.2	<.5	47	<.5	1.2	<.5	31	<.5	13	<.5	<.5	5.4	2.72	<5	<.5			<.5			
MW-5	10-Jun-94	2.8	<.5	7.6	7.1	24.5	<.5	1.2	<1	71.8	<1	1.4	<1	34.1	<1	12.4	<1	<1	3.6	<2	<20	<1			<.5			
MW-5	30-Sep-94	1.9	<.5	8.9	<.5	18.7	<.5	<.5	<1	41.6	<1	<1	<1	34.7	<1	<1	<1	10.9	4.6	<2	<20	<1			<.5			
MW-5	13-Jun-95	10	<5	<5	19	48	<5	8	<5	<5	<5	<5	<5	<5	<5	20	<5	<10	10	<5	<100	<10	22	<5	196	<20		
MW-5	28-Sep-95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	35	NS	NS	NS		
MW-5	31-Oct-95	9	<5	<5	11	61	<5	14	<5	230	<5	<5	<5	<5	<5	18	<5	<10	<5	<5	<100	<10	<5	<5	<5	<20		
MW-5 (dup)	31-Oct-95	9	<5	<5	16	53	<5	14	<5	210	<5	<5	<5	<5	<5	15	<5	<10	9	<5	<100	<10	<5	<5	<5	<20		
MW-5	30-Jan-96	10	<5	<5	17	50	<5	23	<5	198	<5	<5	<5	<5	<5	<10	<5	<10	7	<5	<100	<10	16	<5	<5	<20		
MW-5	28-Nov-96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
MW-5	22-Apr-97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
MW-5	1-Nov-97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
MW-5	6-May-98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
MW-5	8-Dec-98	7.9	<5	<5	17	20	<5	15	6.0	74	<5	<5	<5	<5	<10	79	<5	<10	11	6.5	<100	<10	10	<5	<5	<5.2		
MW-5	16-Apr-99	8	<10	<10	14	22	<10	42	<10	87	<10	<10	<10	<10	<10	100	<10	<10	6	<20	<250	<10	<10	<10	<10	<10	26	
MW-5	2-Dec-99	6	<5	<5	16	<10	<5	72	<5	60	<5	<5	<5	<5	<10	<10	<5	<10	5	<10	<125	<10	<25	<5	<5	<10		
MW-5	11-Apr-00	8	<5	<5	22	14	<5	34	11.0	70	<5	<5	<5	<5	<10	<10	<5	<10	10	<10	<125	<10	<25	<5	<5	<10		140
MW-5	20-Dec-00	<5	<5	<5	14	<10	<5	17	<5	39	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-5	16-Apr-01	<5	<5	<5	17	<10	<5	29	7.0	44	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-5	3-Dec-01	<5	<5	<5	12	<10	<5	20	<5	31	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-5	12-Apr-02	<5	<5	<5	16	<10	<5	33	7.0	32	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-5	5-Nov-02	<5	<5	<5	15	10	<5	31	6.0	26	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15

Table 4b
Detected Constituents - Volatile Organic Compounds
North Wake Unlined Landfill

Monitor Well	Sample Date	Benzene	1,2-Dichloroethane	1,1,1-Trichloroethane	Trichloroethene	Chloroethane	Chloroform	cis-1,2-Dichloroethene	1,4-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloropropane	1,1-Dichloroethene	Toluene	Trichlorofluoromethane	Styrene	Methylene Chloride	Ethyl Benzene	Chloromethane	Tetrachloroethene	Total Xylenes	Acetone	Vinyl Chloride	Dichlorodifluoromethane	1,2-Dibromoethane	trans 1,2-Dichloroethene	bis (2-ethylhexyl) Phthalate	3&4-Methylphenol	1,2,3-Trichloropropane
NC Standard		1	0.38	200	2.8	2800	0.19	70	75	700	0.56	7	1000	2100	100	5	29	2.6	0.7	530	700	0.015	1400	0.0004	70	3	35/3.5[a]	5E-06
MW-6	6-Mar-94	1.7	<.5	5.9	4.6	<.5	0.83	<.5	<.5	34	<1	1	<.5	3.9	<.5	37	<.5	<.5	3.4	2.42	<5	<.5			<.5			
MW-6	15-Apr-94	<1	<.5	<.5	2.1	8.5	<.5	<.5	<1	12.5	<1	<.5	<1	2.6	<1	21	<1	1.2	1.9	<2	<20	<1			<.5			
MW-6	11-May-94	<1	<.5	<.5	4.9	18.4	<.5	<.5	<1	28.7	<1	<.5	<1	2.6	<1	64.2	<1	1.2	2.3	<2	<20	<1			<.5			
MW-6 (dup)	1-Jun-94	3.7	<.5	14	7.5	<.5	4.3	<.5	<.5	50	<.5	<.5	<.5	11	<.5	130	<.5	<1	7	16.6	<5	<.5			<.5			
MW-6	25-Aug-94	<1	<.5	<.5	<5	22	<.5	<.5	<1	36	<1	<.5	<1	<5	<1	79.8	<1	<1	<5	<2	<20	<1			<.5			
MW-6	29-Sep-94	2	<.5	1.4	<.5	18	<.5	<.5	<1	34	<1	<.5	<1	<1	<1	6.1	<1	66	3	<2	<20	<1			<.5			
MW-6	13-Jun-95	<5	<5	<5	6	19	<5	<5	<5	28	<5	<5	<5	<5	<5	61	<5	<10	<5	<5	<100	<10	<5	<5	<5	<20		
MW-6	28-Sep-95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<5	NS	NS	NS		
MW-6	31-Oct-95	<5	<5	<5	6	22	<5	<5	<5	32	<5	<5	<5	<5	<5	56	<5	<10	<5	<5	<100	<10	<5	<5	<5	<20		
MW-6	30-Jan-96	6	<5	<5	11	37	<5	<5	<5	61	<5	<5	<5	<5	<5	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<20		
MW-6	29-Nov-96	<10	<10	<10	16	34	<10	<10	<10	41	<10	<10	<10	<10	<10	91	<10	<10	<10	<20	<250	<10	<50	<10	<10	<10		
MW-6	22-Apr-97	5.4	<1	<1	15	37	<5	6.7	<1	29	<1	<1	<1	<1	<1	88	<1	<5	<1	<2	<20	<1	<1	<1	<1	<5		
MW-6	2-Nov-97	6.1	<5	<5	16	28	<5	7.8	<5	28	<5	<5	<5	<5	<10	90	<5	<10	5.2	<5	<100	<10	<5	<5	<5	<5		
MW-6	6-May-98	<10	<10	<10	17	29	<10	13	<10	34	<10	<10	<10	<10	<20	140	<10	<20	<10	<10	<200	<20	<10	<10	<10	<5		
MW-6 (dup)	6-May-98	<10	<10	<10	19	30	<10	14	<10	35	<10	<10	<10	<10	<20	140	<10	<20	<10	<10	<200	<20	<10	<10	<10	<5		
MW-6	8-Dec-98	<10	<10	<10	19	26	<10	14	<10	40	<10	<10	<10	<10	<20	180	<10	<20	<10	<10	<200	<20	<10	<10	<10	<5		
MW-6	16-Apr-99	5	<10	<10	11	16	<10	<10	<10	26	<10	<10	<10	<10	<20	110	<10	<20	<10	<10	<250	<20	<10	<10	<10	<10	<10	
MW-6	2-Dec-99	<5	<5	<5	6	<10	<5	7	<5	12	<5	<5	<5	<5	<10	67	<5	<10	<5	<10	<125	<10	<25	<5	<5	<10		
MW-6	11-Apr-00	<5	<5	<5	5	<10	<5	7	<5	12	<5	<5	<5	<5	<10	63	<5	<10	<5	<10	<125	<10	<25	<5	<5	<10		<15
MW-6	19-Dec-00	<5	<5	<5	<5	<10	<5	<5	<5	6	<5	<5	<5	<5	<10	20	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-6	16-Apr-01	<5	<5	<5	<5	<10	<5	6	<5	8	<5	<5	<5	<5	<10	46	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-6	3-Dec-01	<5	<5	<5	<5	<10	<5	6	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-6	12-Apr-02	<5	<5	<5	<5	<10	<5	5	<5	7	<5	<5	<5	<5	<10	26	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-6	5-Nov-02	<5	<5	<5	<5	<10	<5	5	<5	<5	<5	<5	<5	<5	<10	10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-6d	8-Jun-01	<5	<5	<5	<5	<10	<5	6	<5	8	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-6d	4-Dec-01	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-6d	9-Apr-02	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-6d	7-Nov-02	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-7	6-Mar-94	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<5	<.5			<.5			
MW-7	15-Apr-94	<1	<.5	<.5	<1	<1	<.5	<.5	<1	<.5	<1	<.5	<1	<1	<1	<1	<1	<1	<.5	<2	<20	<1			<.5			
MW-7	11-May-94	<1	<.5	<.5	<1	<1	<.5	<.5	<1	<.5	<1	<.5	<1	<1	<1	<1	<1	<1	<.5	<2	<20	<1			<.5			
MW-7	31-May-94	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<5	<.5			<.5			
MW-7	25-Aug-94	<1	<.5	<.5	<1	<1	<.5	<.5	<1	<.5	<1	<.5	<1	<1	<1	<1	<1	<1	<.5	<2	<20	<1			<.5			
MW-7	29-Sep-94	<1	<.5	<.5	<1	<1	<.5	<.5	<1	<.5	<1	<.5	<1	<1	<1	<1	<1	<1	<.5	<2	<20	<1			<.5			
MW-7	13-Jun-95	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<20		
MW-7	28-Sep-95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<5	NS	NS	NS		
MW-7	31-Oct-95	<5	<5	<5	<5	11	<5	<5	<5	5	<5	<5	<5	<5	<5	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<20		
MW-7	30-Jan-96	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<20		
MW-7	29-Nov-96	<2	<2	<2	5	22	<2	2	<2	9	<2	<2	<2	<2	<2	<2	<2	<2	4	<4	<50	<2	<10	<2	<2	<10		
MW-7	21-Apr-97	<1	<1	<1	<1	19	<5	5.9	<1	11	<1	<1	<1	<1	<1	<1	<1	<5	<1	<2	<20	<1	<1	<1	<1	<5		
MW-7	1-Nov-97	<5	<5	<5	<5	26	<5	6.2	<5	10	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<5		
MW-7	6-May-98	<5	<5	<5	<5	24	<5	21	<5	17	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<5		
MW-7	8-Dec-98	7.2	<5	<5	5.2	32	<5	36	<5	20	<5	<5	<5	<5	<10	12	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		
MW-7	16-Apr-99	<5	<5	<5	<5	21	<5	24	<5	14	<5	<5	<5	<5	<10	<20	<5	<10	<5	<5	<100	<10	<5	<5	<5	<5.3	<10	
MW-7	2-Dec-99	<5	<5	<5	<5	<10	<5	16	<5	9	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		
MW-7	11-Apr-00	<5	<5	<5	<5	<10	<5	17	<5	8	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-7 (dup)	11-Apr-00	<5	<5	<5	<5	<10	<5	17	<5	8	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	16		<15
MW-7	19-Dec-00	<5	<5	<5	<5	<10	<5	10	<5	5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-7 (dup)	19-Dec-00	<5	<5	<5	<5	<10	<5	12	<5	6	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-7	16-Apr-01	<5	<5	<5	<5	<10	<5	13	<5	6	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	16		<15
MW-7	4-Dec-01	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-7	9-Apr-02	<5	<5	<5	<5	<10	<5	7	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-7	6-Nov-02	<5	<5	<5	<5	<10	<5	12	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15

Table 4b
Detected Constituents - Volatile Organic Compounds
North Wake Unlined Landfill

Monitor Well	Sample Date	Benzene	1,2-Dichloroethane	1,1,1-Trichloroethane	Trichloroethene	Chloroethane	Chloroform	cis-1,2-Dichloroethene	1,4-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloropropane	1,1-Dichloroethene	Toluene	Trichlorofluoromethane	Styrene	Methylene Chloride	Ethyl Benzene	Chloromethane	Tetrachloroethene	Total Xylenes	Acetone	Vinyl Chloride	Dichlorodifluoromethane	1,2-Dibromoethane	trans 1,2-Dichloroethene	bis (2-ethylhexyl) Phthalate	3&4-Methylphenol	1,2,3-Trichloropropane
NC Standard		**1**	**0.38**	**200**	**2.8**	**2800**	**0.19**	**70**	**75**	**700**	**0.56**	**7**	**1000**	**2100**	**100**	**5**	**29**	**2.6**	**0.7**	**530**	**700**	**0.015**	**1400**	**0.0004**	**70**	**3**	**35/3.5[a]**	**5E-06**
MW-8	6-Mar-94	6.8	1	18	16	<.5	2.2	7.6	3.2	13	<1	1.3	4	7.3	<.5	450	0.56	<.5	7.5	35.6	<5	0.76			<.5			
MW-8	15-Apr-94	7.9	1.8	<.5	17.5	39.8	1.3	8.9	4.9	88.6	3	1.5	5	5.1	<1	310	1.4	8.8	8.1	39.7	<20	<1			<.5			
MW-8	11-May-94	5.6	<2.5	<2.5	15	34	<2.5	<2.5	<5	83	<5	<2.5	<5	<5	<1	278	<5	<1	7	27.1	<20	<1			<.5			
MW-8	31-May-94	12	2.6	16	29	<.5	1.1	23	13	110	<5	1.6	11	4.4	3.1	310	<.5	<.5	16	89	<5	<.5			<.5			
MW-8	25-Aug-94	<5	<5	<5	<5	51.3	<5	<5	<5	109	<5	<5	<5	<5	<1	400	<5	<1	<5	32	<20	<1			<.5			
MW-8	30-Sep-94	5.8	<.5	8.9	13	35	<2.5	5.6	5.2	86	<5	<2.5	<5	<5	<1	300	<5	12.2	<5	22.8	<20	<1			<.5			
MW-8	13-Jun-95	<5	<5	<5	6	15	<5	<5	<5	36	<5	<5	<5	<5	<5	47	<5	<10	<5	19	<100	<10	<5	<5	<5	<20		
MW-8	28-Sep-95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<5	NS	NS	NS		
MW-8	31-Oct-95	8	<5	<5	14	40	8	23	<5	72	<5	<5	<5	<5	<5	137	32	<10	9	<5	<100	<10	8	<5	<5	<20		
MW-8	30-Jan-96	10	<5	<5	23	37	<5	34	<5	71	<5	<5	<5	<5	<5	123	<5	<10	18	58	<100	<10	10	<5	<5	20		
MW-8	29-Nov-96	4	<1	1	12	15	<1	24	3	18	<1	<1	<1	<1	<1	23	<1	<1	13	13	<25	<1	5	8	<1	<10		
MW-8	21-Apr-97	<1	<1	<1	8.1	<5	<1	20	<1	10	<1	<1	<1	<1	<1	16	<1	<5	8.3	<2	<20	<1	<1	<1	<1	8		
MW-8	2-Nov-97	<5	<5	<5	5.2	<10	<5	22	<5	6.3	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<5		
MW-8	6-May-98	5.7	<5	<5	8.7	<10	<5	56	<5	15	<5	<5	<5	<5	<10	13	<5	<10	7.8	6.1	<100	<10	<5	<5	<5	<5		
MW-8	8-Dec-98	<5	<5	<5	5.2	<10	<5	37	<5	7.9	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<5		
MW-8	16-Apr-99	<5	<5	<5	6	<10	<5	55	6	13	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		
MW-8 (dup)	16-Apr-99	<5	<5	<5	<5	<10	<5	41	<5	10	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<5	<10	
MW-8	2-Dec-99	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
MW-8	11-Apr-00	<5	<5	<5	<5	<10	<5	12	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-8	20-Dec-00	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-8	16-Apr-01	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-8	3-Dec-01	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-8	12-Apr-02	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-8	5-Nov-02	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-8d	8-Jun-01	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-8d	4-Dec-01	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-8d	9-Apr-02	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-8d (dup)	9-Apr-02	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-8d	7-Nov-02	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-9	6-Mar-94	5.3	<.5	7	8.7	<.5	5.8	<.5	1.6	100	<.5	1.3	6	4.2	<.5	680	0.73	<.5	6.6	15.2	<5	0.96			<.5			
MW-9	15-Apr-94	5.6	<.5	<.5	12.4	14.1	4.9	0.7	2.4	96.8	<1	1.8	1.6	3.6	<1	357	<5	7.3	8.2	17.3	<20	<1			<.5			
MW-9	11-May-94	6.6	<.5	<2.5	13	<5	5	<2.5	<2.5	134	<1	<2.5	<5	<5	<1	357	<5	20.1	7.6	20.5	<20	<1			<.5			
MW-9	31-May-94	8.2	<.5	8.7	14	<.5	6.6	<.5	3.4	170	<.5	1.7	1.7	3.6	<.5	460	<.5	<.5	8.8	23.3	<5	<.5			<.5			
MW-9	25-Aug-94	<5	<.5	<5	<5	<10	<5	<5	<5	165	<1	<2.5	<5	<5	<1	558	<5	<1	<5	<10	<20	<1			<.5			
MW-9	29-Sep-94	7	<.5	6.5	<2.5	<5	5.1	<2.5	<5	131	<1	<2.5	<5	<5	<1	400	<5	<1	8.2	16	<20	<1			<.5			
MW-9	13-Jun-95	11	<5	7	23	20	<5	<5	<5	203	<5	<5	<5	<5	<5	258	<5	<10	11	8	<100	<10	28	<5	<5	<20		
MW-9	28-Sep-95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	41	NS	NS	NS		
MW-9	31-Oct-95	15	<5	6	27	29	<5	<5	<5	310	<5	<5	<5	<5	<5	278	<5	<10	14	14	<100	<10	44	<5	<5	<20		
MW-9	30-Jan-96	14	<5	<5	23	22	<5	<5	<5	270	<5	<5	<5	<5	<5	<10	<5	11	8	6	<100	<10	33	<5	<5	<20		
MW-9	29-Nov-96	22	<20	<20	31	<20	<20	<20	<20	280	<20	<20	<20	<20	<20	<100	<20	<20	<20	<40	<500	<20	<100	<20	<20	<10		
MW-9	22-Apr-97	24	<2.5	<2.5	28	<13	<13	<2.5	6.6	220	<2.5	<2.5	<2.5	<2.5	<2.5	<13	<2.5	<13	<2.5	14.2	<50	<2.5	16	<2.5	<2.5	<5		
MW-9	2-Nov-97	<25	<25	<25	<25	<50	<25	<25	<25	200	<25	<25	<25	<25	<50	<50	<25	<50	<25	<50	<500	<50	32	<25	<25	<5		
MW-9	6-May-98	17	<12	<12	32	<25	<12	<12	<12	210	<12	<12	<12	<12	<25	<25	<12	<25	13	<12	<250	<25	31	<12	<12	<5		
MW-9	8-Dec-98	14	<10	<10	31	<20	<10	<10	<10	200	<10	<10	<10	<10	<20	<20	<10	<20	13	<10	<200	<20	53	<10	<10	20		
MW-9	16-Apr-99	7	<10	<10	20	<20	<10	<10	<10	140	<10	<10	<10	<10	<20	<20	<10	<10	7	<20	<250	<10	49	<10	<10	12	<10	
MW-9	2-Dec-99	<5	<10	<10	20	<20	<10	<10	<10	120	<10	<10	<10	<10	<20	<50	<10	<10	<10	<20	<250	<10	<50	<10	<10	<10		
MW-9	11-Apr-00	<5	<10	<10	20	<20	<10	<10	<10	110	<10	<10	<10	<10	<20	<50	<10	<10	<10	<20	<250	<10	<50	<10	<10	<10		<15
MW-9	20-Dec-00	<10	<10	<10	18	<10	<10	<10	<10	100	<10	<10	<10	<10	<20	<50	<10	<10	<10	<20	<250	<10	25	<10	<10	<10		<15
MW-9	16-Apr-01	<5	<5	<5	15	<10	<5	6	<5	93	<5	<5	<5	<5	<10	<20	<5	<10	6	<8	<100	<10	20	<5	<5	21		<15
MW-9	3-Dec-01	<5	<5	<5	5	<10	<5	20	<5	100	<5	<5	<5	<5	<10	<20	<5	<10	<5	<8	<100	<10	25	<5	<5	<10		<15
MW-9 (dup)	3-Dec-01	<5	<5	<5	<5	<10	<5	19	<5	89	<5	<5	<5	<5	<10	<20	<5	<10	<5	<8	<100	<10	20	<5	<5	22		<15
MW-9	12-Apr-02	<5	<5	<5	<5	<10	<5	21	<5	97	<5	<5	<5	<5	<10	<20	<5	<10	<5	<8	<100	<10	<5	<5	<5	<10		<15
MW-9	5-Nov-02	<5	<5	<5	<5	<10	<5	20	<5	84	<5	<5	<5	<5	<10	<10	<5	<10	<5	<8	<100	<10	19	<5	<5	<10		<15

Table 4b
Detected Constituents - Volatile Organic Compounds
North Wake Unlined Landfill

Monitor Well	Sample Date	Benzene	1,2-Dichloroethane	1,1,1-Trichloroethane	Trichloroethene	Chloroethane	Chloroform	cis-1,2-Dichloroethene	1,4-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloropropane	1,1-Dichloroethene	Toluene	Trichlorofluoromethane	Styrene	Methylene Chloride	Ethyl Benzene	Chloromethane	Tetrachloroethene	Total Xylenes	Acetone	Vinyl Chloride	Dichlorodifluoromethane	1,2-Dibromoethane	trans 1,2-Dichloroethene	bis (2-ethylhexyl) Phthalate	3&4-Methylphenol	1,2,3-Trichloropropane
NC Standard		1	0.38	200	2.8	2800	0.19	70	75	700	0.56	7	1000	2100	100	5	29	2.6	0.7	530	700	0.015	1400	0.0004	70	3	35/3.5*	5E-06
MW-10	6-Mar-94	2.4	<.5	16	9.8	<.5	2.5	<.5	<.5	37	<.5	2.4	<.5	12	<.5	72	<.5	<.5	4.6	26.7	<5	<.5			<.5			
MW-10	15-Apr-94	1.8	2.6	<.5	8	18.1	1.6	<.5	<1	24.2	<1	2.6	<1	<1	<1	57.3	<1	5.5	4.8	16.9	<20	<1			<.5			
MW-10	11-May-94	1.4	2.6	<.5	6.8	15.8	1.7	<.5	<1	23	<1	1.8	<1	16.3	<1	54.8	<1	4	4	6.7	<20	<1			<.5			
MW-10	31-May-94	3.7	<.5	17	15	<.5	3.9	<.5	<.5	57	<.5	2.7	<.5	15	<.5	120	<.5	<.5	8.7	19.1	<5	<.5			<.5			
MW-10	25-Aug-94	<5	<5	18.4	<5	47.7	<5	<.5	<1	72	<1	<5	<1	18	<1	194	8	18.7	9.2	15	<20	<1			<.5			
MW-10	29-Sep-94	4.2	<.5	3.5	19	37.7	3.4	<.5	<1	56.3	<1	3.5	<1	17.1	<1	148	<1	7.2	<1	13.1	<20	<1			<.5			
MW-10	13-Jun-95	7	<5	13	20	53	<5	<5	<5	84	<5	<5	<5	<5	<5	223	<5	13	13	14	<100	<10	18	<5	<5	<20		
MW-10	28-Sep-95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	53	NS	NS	NS		
MW-10	31-Oct-95	<5	<5	14	8	33	<5	10	<5	44	<5	<5	<5	14	<5	47	<5	<10	7	<5	<100	<10	46	<5	<5	<20		
MW-10	30-Jan-96	8	<5	8	18	48	<5	12	<5	101	<5	<5	<5	<5	<5	<10	<5	10	9	8	<100	<10	29	<5	<5	<20		
MW-10	28-Nov-96	<1	<1	<1	2	3	<1	1	<1	12	<1	<1	<1	<1	<1	15	<1	<1	2	<2	<25	<1	<5	<1	<1	<10		
MW-10	22-Apr-97	12	<2.5	<2.5	33	31	<13	20	<2.5	160	<2.5	<2.5	<2.5	<2.5	<2.5	120	<2.5	<13	25	19.6	<50	<2.5	8.5	<2.5	<2.5	7.3		
MW-10	1-Nov-97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
MW-10	8-Dec-98	<12	<12	<12	19	<25	<12	48	<12	140	<12	<12	<12	<12	<25	270	<12	<25	16	12	<250	<25	<12	<12	<12	<5.1		
MW-10	11-Jan-99	7*	<12.5	<12.5	18	19	<12.5	36	<12.5	140	<12.5	<12.5	<12.5	<12.5	<13	320	<12.5	<13	14	<25	<313	<13	<12.5	<12.5	<12.5	NS		
MW-10	8-Feb-99	9*	<10	<10	21	24	<10	41	<10	140	<10	<10	<10	<10	<10	<50	<10	<10	17	20	<250	<10	<10	<10	<10	NS		
MW-10 (dup)	8-Feb-99	8*	<10	<10	17	20	<10	38	<10	130	<10	<10	<10	<10	<10	<50	<10	<10	13	19*	<250	<10	<10	<10	<10	NS		
MW-10	16-Apr-99	<20	<20	<20	<20	<20	<20	26	<20	160	<20	<20	<20	<20	<20	410	<20	<20	<40	<80	<1000	<20	<20	<20	<20	16	<10	
MW-10	2-Dec-99	<5	<5	<5	<5	<10	<5	<5	<5	40	<5	<5	<5	<5	<10	77	<5	<5	6	<8	<100	<10	<20	<5	<5	14		
MW-10	12-Apr-00	<5	<5	<5	6	<10	<5	7	<5	46	<5	<5	<5	<5	<10	88	<5	<5	7	<8	<100	<10	<20	<5	<5	<10		<15
MW-10	20-Dec-00	<5	<5	<5	<5	<10	<5	<5	<5	35	<5	<5	<5	<5	<10	40	<5	<5	<5	<8	<100	<10	<5	<5	<5	<10		<15
MW-10	17-Apr-01	<5	<5	<5	<5	<10	<5	<5	<5	34	<5	<5	<5	<5	<10	34	<5	<5	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-10	3-Dec-01	<5	<5	<5	<5	<10	<5	<5	<5	26	<5	<5	<5	<5	<10	18	<5	<5	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-10	12-Apr-02	<5	<5	<5	<5	<10	<5	<5	<5	22	<5	<5	<5	<5	<10	18	<5	<5	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-10	5-Nov-02	<5	<5	<5	<5	<10	<5	<5	<5	20	<5	<5	<5	<5	<10	16	<5	<5	8	<5	<100	<10	6	<5	<5	<10		<15
MW-10 (dup)	5-Nov-02	<5	<5	<5	<5	<10	<5	<5	<5	21	<5	<5	<5	<5	<10	18	<5	<5	9	<5	<100	<10	6	<5	<5	<10		<15
MW-10d	8-Jun-01	<5	<5	<5	<5	<10	<5	<5	<5	12	<5	<5	<5	<5	<10	16	<5	<5	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-10d	4-Dec-01	<5	<5	<5	<5	<10	<5	<5	<5	17	<5	<5	<5	<5	<10	<10	<5	<5	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-10d	11-Apr-02	<5	<5	<5	<5	<10	<5	<5	<5	16	<5	<5	<5	<5	<10	<10	<5	<5	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-10d	5-Nov-02	<5	<5	<5	<5	<10	<5	<5	<5	13	<5	<5	<5	<5	<10	<10	<5	<5	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-22	9-Jun-97	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<20		
MW-22	18-Aug-97	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		
MW-22	2-Nov-97	<5	<5	<5	<5	<10	<5	<5	<5	6.9	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	5.2	<5	<5	<5		
MW-22	6-May-98	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<5		
MW-22	8-Dec-98	<5	<5	<5	<5	<10	<5	<5	<5	8.6	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<5.4		
MW-22	16-Apr-99	<5	<5	<5	<5	<10	<5	<5	<5	6	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10	<10	
MW-22	2-Dec-99	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		
MW-22	12-Apr-00	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-22	20-Dec-00	<5	<5	<5	<5	<10	<5	<5	<5	9	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-22	17-Apr-01	<5	<5	<5	<5	<10	<5	<5	<5	9	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-22	4-Dec-01	<5	<5	<5	<5	<10	<5	<5	<5	6	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-22	9-Apr-02	<5	<5	<5	<5	<10	<5	<5	<5	5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-22	6-Nov-02	<5	<5	<5	<5	<10	<5	<5	<5	5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-23	9-Jun-97	<5	<5	6.4	9.1	40	<5	7.6	<5	86	<5	<5	16	<5	<10	100	<5	<10	9.3	13	<100	<10	<5	<5	<5	<20		
MW-23	18-Aug-97	<5	<5	<5	<5	33	<5	11	<5	93	<5	<5	<5	<5	<10	85	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		
MW-23	2-Nov-97	<5	<5	<5	6.3	26	<5	11	<5	68	<5	<5	<5	<5	<10	40	<5	<10	5.6	<5	<100	<10	<5	<5	<5	<5		
MW-23	5-May-98	<5	<5	<5	<5	<10	<5	<5	<5	6.9	<5	<5	<5	<5	<10	10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<5		
MW-23	8-Dec-98	<5	<5	<5	<5	<10	<5	<5	<5	7.4	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	8.3		
MW-23 (dup)	8-Dec-98	<5	<5	<5	<5	<10	<5	<5	<5	9.2	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5			
MW-23	16-Apr-99	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10	<10	
MW-23	2-Dec-99	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		
MW-23 (dup)	2-Dec-99	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		
MW-23	12-Apr-00	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-23	20-Dec-00	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-23	17-Apr-01	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-23	4-Dec-01	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-23	11-Apr-02	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-23	6-Nov-02	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15

CDM

Table 4b
Detected Constituents - Volatile Organic Compounds
North Wake Unlined Landfill

Monitor Well	Sample Date	Benzene	1,2-Dichloroethane	1,1,1-Trichloroethane	Trichloroethene	Chloroethane	Chloroform	cis-1,2-Dichloroethene	1,4-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloropropane	1,1-Dichloroethene	Toluene	Trichlorofluoromethane	Styrene	Methylene Chloride	Ethyl Benzene	Chloromethane	Tetrachloroethene	Total Xylenes	Acetone	Vinyl Chloride	Dichlorodifluoromethane	1,2-Dibromoethane	trans 1,2-Dichloroethene	bis (2-ethylhexyl) Phthalate	3&4-Methylphenol	1,2,3-Trichloropropane
NC Standard		1	0.38	200	2.8	2800	0.19	70	75	700	0.56	7	1000	2100	100	5	29	2.6	0.7	530	700	0.015	1400	0.0004	70	3	35/3.5*	5E-06
MW-23d	5-May-98	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<5		
MW-23d	8-Dec-98	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	7.6		
MW-23d	16-Apr-98	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10	<10	
MW-23d	2-Dec-99	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	10		
MW-23d	12-Apr-00	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	10		<15
MW-23d	20-Dec-00	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-23d	17-Apr-01	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-23d	4-Dec-01	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
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MW-24 (dup)	1-Nov-97	<25	<25	<25	<25	<50	<25	<25	<25	68	<25	<25	340	<25	<50	370	33	<50	<25	131	<500	<50	<25	<25	<25	<5		
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MW-28	1-May-98	<1	<5	<5	<1	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<1	<5	<100	<10	<5	<5	<5	<5		
MW-28	17-Aug-98	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	NS		
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MW-28d (dup)	12-Jan-99	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	NS		
MW-28d	9-Feb-99	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	NS		
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Table 4b
Detected Constituents - Volatile Organic Compounds
North Wake Unlined Landfill

Monitor Well	Sample Date	Benzene	1,2-Dichloroethane	1,1,1-Trichloroethane	Trichloroethene	Chloroethane	Chloroform	cis-1,2-Dichloroethene	1,4-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloropropane	1,1-Dichloroethene	Toluene	Trichlorofluoromethane	Styrene	Methylene Chloride	Ethyl Benzene	Chloromethane	Tetrachloroethene	Total Xylenes	Acetone	Vinyl Chloride	Dichlorodifluoromethane	1,2-Dibromoethane	trans 1,2-Dichloroethene	bis (2-ethylhexyl) Phthalate	3&4-Methylphenol	1,2,3-Trichloropropane
NC Standard		1	0.38	200	2.8	2800	0.19	70	75	700	0.56	7	1000	2100	100	5	29	2.6	0.7	530	700	0.015	1400	0.0004	70	3	35/3.5*	5E-06
MW-29	4-May-98	<1	<5	<5	<1	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<1	<5	<100	<10	<5	<5	<5	<5		
MW-29	17-Aug-98	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	NS		
MW-29d	4-May-98	<1	<5	<5	<1	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<1	<5	<100	<10	<5	<5	<5	<5		
MW-29d	17-Aug-98	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	NS		
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MW-29d (dup)	9-Sep-98	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	NS		
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MW-29d	12-Jan-99	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	37		
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MW-29d	19-Apr-99	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	NS		
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MW-29d	11-Apr-02	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-29d	6-Nov-02	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
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MW-30	17-Aug-98	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	NS		
MW-30	9-Sep-98	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	NS		
MW-30	7-Oct-98	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	NS		
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MW-30	18-Apr-01	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-30	4-Dec-01	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
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MW-31	17-Apr-01	<5	<5	<5	<5	<10	21	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-31	6-Dec-01	<5	<5	<5	<5	<10	54	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
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MW-31d	9-Sep-98	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	NS		
MW-31d	7-Oct-98	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	NS		
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MW-31d	8-Feb-99	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	NS		
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MW-31d	18-Apr-01	<5	<5	<5	<5	<10	7	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
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Table 4b
Detected Constituents - Volatile Organic Compounds
North Wake Unlined Landfill

Monitor Well	Sample Date	Benzene	1,2-Dichloroethane	1,1,1-Trichloroethane	Trichloroethene	Chloroethane	Chloroform	cis-1,2-Dichloroethene	1,4-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloropropane	1,1-Dichloroethene	Toluene	Trichlorofluoromethane	Styrene	Methylene Chloride	Ethyl Benzene	Chloromethane	Tetrachloroethene	Total Xylenes	Acetone	Vinyl Chloride	Dichlorodifluoromethane	1,2-Dibromoethane	trans 1,2-Dichloroethene	bis (2-ethylhexyl) Phthalate	3&4-Methylphenol	1,2,3-Trichloropropane
NC Standard		1	0.38	200	2.8	2800	0.19	70	75	700	0.56	7	1000	2100	100	5	29	2.6	0.7	530	700	0.015	1400	0.0004	70	3	35/3.5[a]	5E-06
MW-32	1-May-98	<1	<5	<5	<1	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<1	<5	<100	<10	<5	<5	<5	<5		
MW-32	18-Aug-98	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	NS		
MW-32	9-Sep-98	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	NS		
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MW-32	7-Dec-98	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<5.2		
MW-32	11-Jan-99	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	NS		
MW-32	8-Feb-99	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	NS		
MW-32	19-Apr-99	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10	<10	
MW-32	3-Dec-99	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		
MW-32	13-Apr-00	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-32	19-Dec-00	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-32	17-Apr-01	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
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TB-1a	18-Aug-98	<5	<5	9.8	7.6	20	<5	<5	<5	39	<5	<5	<5	<5	<10	22	<5	<10	7.5	23	<100	<10	<5	<5	<5	NS		
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TB-1a deep	11-Apr-02	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
TB-1a deep	6-Nov-02	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10		<15
MW-33	6-Aug-98	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<5		
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MW-33	18-Apr-01	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10	NS	<15
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MW-34d	6-Aug-98	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	7.3		
MW-34d (dup)	6-Aug-98	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<5.2		
MW-34d	7-Dec-98	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<5.1		
MW-34d	26-Apr-99	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	NS	NS	NS
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MW-35	26-Apr-99	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10	NS	NS
MW-35	2-Dec-99	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10	NS	NS
MW-35	13-Apr-00	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10	NS	<15
MW-35	18-Apr-01	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10	NS	<15
MW-35	9-Apr-02	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<100	<10	<5	<5	<5	<10	NS	<15

All units are in micrograms per liter (parts per billion).
* - Estimated Value
[a]- N.C. 2L interim standards are for individual isomers; interim standard for 3-methylphenol is 35 ug/l; interim standard for 4-methylphenol is 3.5 ug/l.
**-New background well.
--MW-10 was installed inside the landfill fence on April 1, 1998. MW-23D was installed on April 27, 1998. MW-5 was re-installed on July 24, 1998.
--MW-6d, -8d, -10d, TB-1a deep installed June 2001.
- No Data
- Concentration exceeds N.C. Groundwater Standards (2L).
* - Estimated Value

CDM

Table 5
Statistically Significant Constituents Over Background
North Wake Unlined Landfill
November 2002

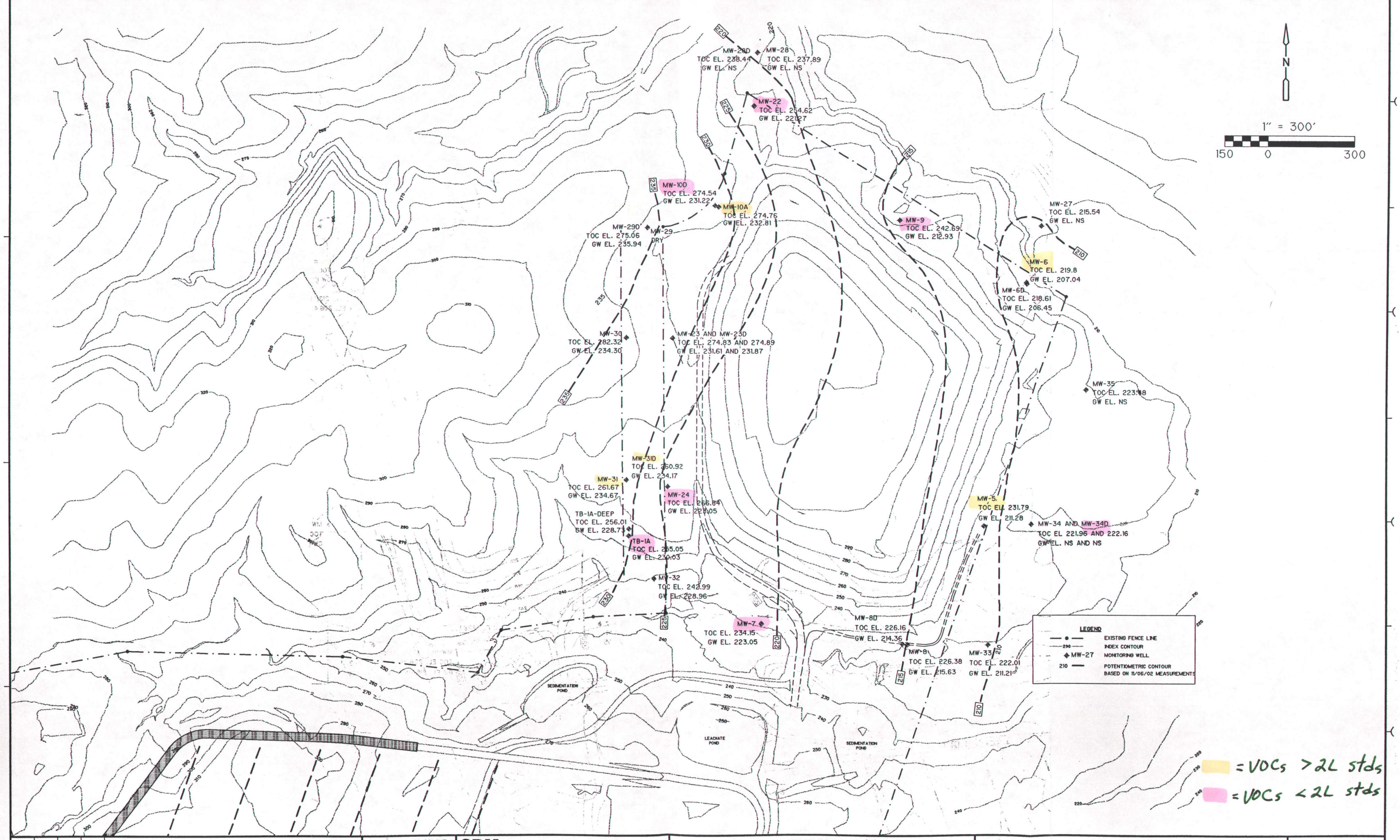
WELL	PARAMETERS EXCEEDING 2L STANDARDS - APPENDIX I and II NOVEMBER 2002	PARAMETERS STATISTICALLY OVER BACKGROUND - APPENDIX I and II NOVEMBER 2002
MW-11	none	Designated Shallow Background Well
MW-11d	none	Designated Deep Background Well
MW-5	cobalt*, trichloroethene	trichloroethene, cis-1,2-dichloroethene 1,1-dichloroethane, chloroethane
MW-6	methylene chloride	cis-1,2-dichloroethene, methylene chloride mercury
MW-6d	none	none
MW-7	none	cis-1,2-dichloroethene
MW-8	none	none
MW-8d	none	none
MW-9	cobalt*	1,1-dichloroethane, cis-1,2-dichloroethene dichlorodifluoromethane
MW-10	methylene chloride, tetrachloroethene	methylene chloride, 1,1-dichloroethane tetrachloroethene, dichlorodifluoromethane
MW-10d	none	1,1-dichloroethane
MW-22	cobalt*	cadmium, cobalt 1,1-dichloroethane
MW-23	none	none
MW-23d	none	none
MW-24	none	1,1-dichloroethane
MW-27	NS	NS
MW-28	NS	NS
MW-28d	NS	NS
MW-29d	none	none
MW-30	none	none
MW-31	chloroform	chloroform
MW-31d	chloroform	none
MW-32	cobalt*	cobalt
TB-1a	none	1,1-dichloroethane
TB-1a deep	none	none
MW-33	NS	NS
MW-34	NS	NS
MW-34d	NS	NS
MW-35	NS	NS

-*Constituent exceeds Groundwater Protection Standard - Currently no 2L Standard.
-NS - sampled yearly, no sample collected during this event.

Table 6
Geochemical Data
North Wake Unlined Landfill

Monitor Well	Sample Date	eH (mV)	pH	Temperature (C)	Conductivity (uS)	Dissolved Oxygen (mg/l)	Methane (ug/l)	Chloride	Nitrate	OrthoPhosphate	Total Organic Carbon	Alkalinity (CaCO3 - Lab)	Alkalinity (CaCO3 - Field)	Sulfate (Lab)	Sulfate (Field)	Sulfide (Lab)	Ammonia	Free Chlorine	Carbon Dioxide	Ferrous Iron
MW-11	8-Dec-98	156.2	5.57	15.7	61	6.03		3.5	0.6	<0.05	2.1	21	40	<10	ND		<0.2	0.17	50	0.02
MW-11	18-Dec-00	742	5.69	15.6	78															
MW-11	18-Apr-01		6.80	15.0	57															
MW-11	27-Nov-01		5.48	17.1	70															
MW-11	5-Apr-02		6.19	16.2	60															
MW-11	5-Nov-02		6.14	15.6	73															
MW-11d	8-Dec-98	123.0	6.03	15.7	78	4.68		3.0	0.58	<0.05	0.64	14	60	<10	ND		<0.2	0.02	30	ND
MW-11d	18-Dec-00	154	5.26	15.5	87															
MW-11d	18-Apr-01		6.91	15.7	69															
MW-11d	27-Nov-01		5.21	17.5	70															
MW-11d	5-Apr-02		6.97	15.5	74															
MW-11d	5-Nov-02		6.26	15.9	75															
MW-5	3-Dec-98		5.70	16.9	166			5.6												
MW-5	20-Dec-00	38	5.40	16.0	203		4500	13.4	0.07		2.7			<2		<0.01			141	<0.2
MW-5	16-Apr-01	85	5.20	17.2	210		<7.2	8.5	<.2		8.8			6.8		<0.01			141	1.07
MW-5	3-Dec-01	103	5.68	16.7	125		1600	5.2	<.2		<0.5			1.7		<0.01			79.2	<0.2
MW-5	12-Apr-02	43	5.54	16.9	190		2400	3.3			<0.5			4.1		<0.01			44	3.7
MW-5	5-Nov-02	65	5.72	17.4	181		1500	8.7	0.34		1.2			4.7		<0.01			244	<0.2
MW-6	3-Dec-98		5.71	18.0	118			6.8												
MW-6	19-Dec-00	156	5.54	16.1	92		669	9.12	0.05		5.9			<2		<0.01			57	<0.2
MW-6	16-Apr-01	97	5.05	15.5	73		450	7.5	<.2		7.7			0.66		<0.01			47	<0.2
MW-6	3-Dec-01	136	5.88	17.2	68		470	6.4	<.2		<0.5			0.34		<0.01			30.8	<0.2
MW-6	12-Apr-02	174	5.47	15.6	79		800	7.3			<0.5			0.46		<0.01			35	<0.2
MW-6	5-Nov-02	73	5.58	19.2	98		1500	11	0.36		2.1			0.74		<0.01			83	<0.2
MW-8	3-Dec-98		5.75	18.0	145			7.3												
MW-8	20-Dec-00	66	5.42	16.4	100		<26	6.84	0.09		5.9			<2		<0.01			22	<0.2
MW-8	16-Apr-01	54	5.61	16.0	76		17	3.2	0.23		1.3			0.89		0.04			32	<0.2
MW-8	3-Dec-01	111	6.40	16.8	81		<7.2	3	<0.2		<0.5			0.61		0.01			39.6	<0.2
MW-8	12-Apr-02	51	6.00	16.2	76		42	3.5			<0.5			0.81		<0.01			31	<0.2
MW-8	5-Nov-02	44	6.05	18.7	82		11	3.4	0.42		0.7			1.1		0.06			29	<0.2
MW-9	3-Dec-98		6.27	16.1	416			15												
MW-9	20-Dec-00	102	4.79	15.7	513		3340	21.9	0.09		12.3			<2		<0.01			176	<0.2
MW-9	16-Apr-01	64	5.79	17.3	415		790	19	0.24		5.5			0.75		<0.01			121	1.28
MW-9	3-Dec-01	21	6.41	16.1	483		2700	24	<0.2		<0.5			0.38		<0.01			123	2.5
MW-9	12-Apr-02	77	6.11	17.3	517		1200	29			<0.5			0.32		<0.01			136	9.8
MW-9	5-Nov-02	39	6.16	16.6	521		470	24	<0.2		5.7			0.66		<0.01			236	1.67
MW-10	3-Dec-98		5.85	15.7	204			6.8												
MW-10	20-Dec-00	76	5.27	15.1	166		372	10.6	1.5		3.7			<2		<0.01			26	<0.2
MW-10	17-Apr-01	81	5.24	15.7	126		320	5.4	2.2		5.3			1.2		<.1			101	<0.2
MW-10	3-Dec-01	146	5.88	15.4	115		<7.2	4.2	1.6		<0.5			3		<0.01			35.2	<0.2
MW-10	12-Apr-02	98	5.58	16.7	122		300	4.9			<0.5			1.7		<0.01			35	<0.2
MW-10	5-Nov-02	74	5.54	16.1	158		770	5.4	2		1.8			2.9		0.03			216	<0.2
MW-24	8-Dec-98	145.9	5.75	15.2	176	1.02		4.2	<0.05	<0.05	2.5	66	140	<10	2		<0.2	0.07	260	0.78
MW-24	20-Dec-00	67	5.61	14.7	178		4410	8.25	0.08		2.5			<2		<0.01			101	<0.2
MW-24	16-Apr-01	93	5.20	17.1	131		2500	4.2	0.28		5			0.59		<0.1			121	1.18
MW-24	3-Dec-01	103	5.83	15.2	153		2100	2.9	<0.2		<0.5			<0.3		<0.01			52.8	0.3
MW-24	12-Apr-02	17	5.59	16.9	153		1800	1.5			<0.5			<0.3		<0.01			92	0.6
MW-24	5-Nov-02	62	5.76	16.0	147		2200	0.56	<0.2		1.6			0.48		0.01			171	0.21
TB-1a	9-Dec-98	193.8	5.98	14.7	203	0.64		4.1	<0.05	<0.05	0.54	95	120	<10	2		<0.2	0.05	500	0.15
TB-1a	20-Dec-00	63	5.52	14.7	212		2470	6.6	0.09		3.3			<2		<0.01			62	<0.2
TB-1a	17-Apr-01	78	5.63	15.7	171		1500	5.1	0.29		2.4			0.58		0.1			99	<0.2
TB-1a	3-Dec-01	111	6.01	15.3	143		<7.2	3.1	<0.2		<0.5			<0.3		<0.01			52.8	<0.2
TB-1a	12-Apr-02	42	5.70	16.6	151		990	1.6			<0.5			<0.3		<0.01			84	<0.2
TB-1a	5-Nov-02	58	5.83	15.8	164		400	4.2	<0.2		0.7			0.47		<0.01			138	<0.2

MW-11 & MW-11d are background wells for site.
All units are in milligrams per liter (parts per million), unless otherwise noted.
ND - Not Detected
-Blank Cells Indicate No Data Collected
-Field Tests Performed with HACH test kits



REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: M. COLONE
DRAWN BY: E. VINSON
SHEET CHK'D BY:
CROSS CHK'D BY:
APPROVED BY:
DATE: NOVEMBER 2002

CDM Camp Dresser & McKee
environmental services
5400 Glenwood Avenue, Suite 300
Raleigh, North Carolina 27612
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WAKE COUNTY
NORTH CAROLINA

NORTH WAKE UNLINED LANDFILL

POTENTIOMETRIC CONTOUR MAP

PROJECT NO. 22910
FILE NAME: NWGW11-26-02.dwg

SHEET NO.
1