CDM
5400 Glenwood Avenue, Suite 300
Raleigh, North Carolina 27612
tel: 919 787-5620
fax: 919 781-5730

November 2, 2006

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

Subject: October 2006 Semi-Annual Monitoring Sampling Report
Henderson County Stoney Mountain Road C&D Landfill
Facility Permit # - 4501

Dear Mr. Brown:

CDM, on behalf of Henderson County, is submitting one copy of the October 2006 semi-annual sampling report for the recent event completed at the Stoney Mountain Road C&D Landfill. This letter report presents the results of the October 2006 semi-annual sampling event and constitutes the second semi-annual sampling for 2006.

Field Activities
Groundwater samples from the Stoney Mountain Road C&D Landfill were collected on October 5, 2006. Groundwater samples were collected by use of disposable, laboratory decontaminated, Teflon™ bailers. The approved groundwater-monitoring network consists of the background well (MW-10) and 3 down-gradient compliance wells (MW-11, MW-12, and MW–13). Monitoring well locations are shown on Figure 1.

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. The potentiometric contours are presented on Figure 1. 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 was measured in the field for pH, conductivity, and temperature. The field parameters at the time of sampling and groundwater elevations are presented in Table 1.

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All Appendix I VOC and metal constituents were below detection limits in all samples with the exception of trichlorofluoromethane, which was detected in MW-12 at 13.8 ug/l. Trichlorofluoromethane had been previously detected in MW-12 during the October 2005 sampling event at 8.07 ug/l and was detected in MW-13 during the April 2006 sampling event at 23.1 ug/l. Trichlorofluoromethane had never been detected in monitoring wells for the C&D area prior to the detection in MW-12 but had been historically detected in monitoring wells at the adjacent closed landfill. CDM will continue to monitor the presence of trichlorofluormethane to determine if any trends appear. Tabulated results for all wells are provided in Table 2. Complete laboratory results are provided in electronic format following this report.

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

11/2/2006

cc: Gary Tweed, P.E., Henderson County
Bob Brossoie/File

SGS

Mr. Dan Forbes
Camp, Dresser & McKee
5400 Gl;enwood Ave.
Raleigh NC 27612

Report Number: G175-565

Client Project: Henderson County C&D Landfill

Dear Mr. Forbes:

Enclosed are the results of the analytical services performed under the referenced project. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. Any samples submitted to our laboratory will will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or the services performed during this project, please call SGS/Paradigm at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS/Paradigm Analytical Labs for your analytical services. We look forward to working with you again on any additional analytical needs which you may have.

Sincerely,
SGS/Paradigm Analytical Laboratories, Inc.

10/20/2006

Laboratory Director Date
J. Patrick Weaver

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Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: MW-13
Client Project ID: Henderson County C&D Landfill
Lab Sample ID: G175-565-1B
Lab Project ID: G175-565

Analyzed By: MJC
Date Collected: 10/5/2006 9:10
Date Received: 10/6/2006
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	Dilution Factor	Date Analyzed
Acetone	BQL	100	1	10/13/2006
Acrylonitrile	BQL	200	1	10/13/2006
Benzene	BQL	5.00	1	10/13/2006
Bromochloromethane	BQL	5.00	1	10/13/2006
Bromodichloromethane	BQL	5.00	1	10/13/2006
Bromoform	BQL	5.00	1	10/13/2006
Methyl bromide	BQL	10.0	1	10/13/2006
MEK (2-Butanone)	BQL	100	1	10/13/2006
Carbon disulfide	BQL	100	1	10/13/2006
Carbon tetrachloride	BQL	10.0	1	10/13/2006
Chlorobenzene	BQL	5.00	1	10/13/2006
Chloroethane	BQL	10.0	1	10/13/2006
Chloroform	BQL	5.00	1	10/13/2006
Methyl chloride	BQL	10.0	1	10/13/2006
Chlorodibromomethane	BQL	5.00	1	10/13/2006
DBCP (1,2-Dibromo-3-chloropropane)	BQL	25.0	1	10/13/2006
Methylene bromide	BQL	10.0	1	10/13/2006
Ethylene dibromide (EDB)	BQL	5.00	1	10/13/2006
o-Dichlorobenzene	BQL	5.00	1	10/13/2006
m-Dichlorobenzene	BQL	5.00	1	10/13/2006
p-Dichlorobenzene	BQL	5.00	1	10/13/2006
t-1,4-Dichloro-2-butene	BQL	100	1	10/13/2006
1,1-Dichloroethane	BQL	5.00	1	10/13/2006
Vinylidene chloride	BQL	5.00	1	10/13/2006
Ethylene dichloride	BQL	5.00	1	10/13/2006
cis-1,2-Dichloroethene	BQL	5.00	1	10/13/2006
t-1,2-dichloroethene	BQL	5.00	1	10/13/2006
Propylene Dichloride	BQL	5.00	1	10/13/2006
cis-1,3-Dichloropropene	BQL	10.0	1	10/13/2006
t-1,3-Dichloropropene	BQL	10.0	1	10/13/2006
Ethylbenzene	BQL	5.00	1	10/13/2006
Methyl butyl ketone	BQL	50.0	1	10/13/2006
Methyl iodide	BQL	10.0	1	10/13/2006
Methylene chloride	BQL	10.0	1	10/13/2006
Methyl isobutyl ketone	BQL	100	1	10/13/2006
Styrene	BQL	10.0	1	10/13/2006
1,1,1,2-Tetrachloroethane	BQL	5.00	1	10/13/2006
1,1,2,2-Tetrachloroethane	BQL	5.00	1	10/13/2006
Tetrachloroethylene	BQL	5.00	1	10/13/2006
Toluene	BQL	5.00	1	10/13/2006
Trichloroethene	BQL	5.00	1	10/13/2006
1,1,1-Trichloroethane	BQL	5.00	1	10/13/2006

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Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: MW-13
Client Project ID: Henderson County C&D Landfill
Lab Sample ID: G175-565-1B
Lab Project ID: G175-565

Analyzed By: MJC
Date Collected: 10/5/2006 9:10
Date Received: 10/6/2006
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	Dilution Factor	Date Analyzed
1,1,2-Trichloroethane	BQL	5.00	1	10/13/2006
CFC-11 (Trichlorofluoromethane)	BQL	5.00	1	10/13/2006
1,2,3-Trichloropropane	BQL	15.0	1	10/13/2006
Vinyl acetate	BQL	50.0	1	10/13/2006
Vinyl chloride	BQL	10.0	1	10/13/2006
m-,p-Xylene	BQL	2.00	1	10/13/2006
o-Xylene	BQL	2.00	1	10/13/2006

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	9.85	98
1,2-Dichloroethane-d4	10	9.89	99
Toluene-d8	10	10	100

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By:

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Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: MW-12
Client Project ID: Henderson County C&D Landfill
Lab Sample ID: G175-565-2A
Lab Project ID: G175-565

Analyzed By: MJC
Date Collected: 10/5/2006 9:00
Date Received: 10/6/2006
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	Dilution Factor	Date Analyzed
Acetone	BQL	100	1	10/12/2006
Acrylonitrile	BQL	200	1	10/12/2006
Benzene	BQL	5.00	1	10/12/2006
Bromochloromethane	BQL	5.00	1	10/12/2006
Bromodichloromethane	BQL	5.00	1	10/12/2006
Bromoform	BQL	5.00	1	10/12/2006
Methyl bromide	BQL	10.0	1	10/12/2006
MEK (2-Butanone)	BQL	100	1	10/12/2006
Carbon disulfide	BQL	100	1	10/12/2006
Carbon tetrachloride	BQL	10.0	1	10/12/2006
Chlorobenzene	BQL	5.00	1	10/12/2006
Chloroethane	BQL	10.0	1	10/12/2006
Chloroform	BQL	5.00	1	10/12/2006
Methyl chloride	BQL	10.0	1	10/12/2006
Chlorodibromomethane	BQL	5.00	1	10/12/2006
DBCP (1,2-Dibromo-3-chloropropane)	BQL	25.0	1	10/12/2006
Methylene bromide	BQL	10.0	1	10/12/2006
Ethylene dibromide (EDB)	BQL	5.00	1	10/12/2006
o-Dichlorobenzene	BQL	5.00	1	10/12/2006
m-Dichlorobenzene	BQL	5.00	1	10/12/2006
p-Dichlorobenzene	BQL	5.00	1	10/12/2006
t-1,4-Dichloro-2-butene	BQL	100	1	10/12/2006
1,1-Dichloroethane	BQL	5.00	1	10/12/2006
Vinylidene chloride	BQL	5.00	1	10/12/2006
Ethylene dichloride	BQL	5.00	1	10/12/2006
cis-1,2-Dichloroethene	BQL	5.00	1	10/12/2006
t-1,2-dichloroethene	BQL	5.00	1	10/12/2006
Propylene Dichloride	BQL	5.00	1	10/12/2006
cis-1,3-Dichloropropene	BQL	10.0	1	10/12/2006
t-1,3-Dichloropropene	BQL	10.0	1	10/12/2006
Ethylbenzene	BQL	5.00	1	10/12/2006
Methyl butyl ketone	BQL	50.0	1	10/12/2006
Methyl iodide	BQL	10.0	1	10/12/2006
Methylene chloride	BQL	10.0	1	10/12/2006
Methyl isobutyl ketone	BQL	100	1	10/12/2006
Styrene	BQL	10.0	1	10/12/2006
1,1,1,2-Tetrachloroethane	BQL	5.00	1	10/12/2006
1,1,2,2-Tetrachloroethane	BQL	5.00	1	10/12/2006
Tetrachloroethylene	BQL	5.00	1	10/12/2006
Toluene	BQL	5.00	1	10/12/2006
Trichloroethene	BQL	5.00	1	10/12/2006
1,1,1-Trichloroethane	BQL	5.00	1	10/12/2006

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Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: MW-12
Client Project ID: Henderson County C&D Landfill
Lab Sample ID: G175-565-2A
Lab Project ID: G175-565

Analyzed By: MJC
Date Collected: 10/5/2006 9:00
Date Received: 10/6/2006
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	Dilution Factor	Date Analyzed
1,1,2-Trichloroethane	BQL	5.00	1	10/12/2006
CFC-11 (Trichlorofluoromethane)	**13.8**	5.00	1	10/12/2006
1,2,3-Trichloropropane	BQL	15.0	1	10/12/2006
Vinyl acetate	BQL	50.0	1	10/12/2006
Vinyl chloride	BQL	10.0	1	10/12/2006
m-,p-Xylene	BQL	2.00	1	10/12/2006
o-Xylene	BQL	2.00	1	10/12/2006

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	9.9	99
1,2-Dichloroethane-d4	10	9.77	98
Toluene-d8	10	9.9	99

Comments:

Flags:
BQL = Below Quantitation Limits.

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Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: MW-11
Client Project ID: Henderson County C&D Landfill
Lab Sample ID: G175-565-3A
Lab Project ID: G175-565

Analyzed By: MJC
Date Collected: 10/5/2006 11:00
Date Received: 10/6/2006
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	Dilution Factor	Date Analyzed
Acetone	BQL	100	1	10/12/2006
Acrylonitrile	BQL	200	1	10/12/2006
Benzene	BQL	5.00	1	10/12/2006
Bromochloromethane	BQL	5.00	1	10/12/2006
Bromodichloromethane	BQL	5.00	1	10/12/2006
Bromoform	BQL	5.00	1	10/12/2006
Methyl bromide	BQL	10.0	1	10/12/2006
MEK (2-Butanone)	BQL	100	1	10/12/2006
Carbon disulfide	BQL	100	1	10/12/2006
Carbon tetrachloride	BQL	10.0	1	10/12/2006
Chlorobenzene	BQL	5.00	1	10/12/2006
Chloroethane	BQL	10.0	1	10/12/2006
Chloroform	BQL	5.00	1	10/12/2006
Methyl chloride	BQL	10.0	1	10/12/2006
Chlorodibromomethane	BQL	5.00	1	10/12/2006
DBCP (1,2-Dibromo-3-chloropropane)	BQL	25.0	1	10/12/2006
Methylene bromide	BQL	10.0	1	10/12/2006
Ethylene dibromide (EDB)	BQL	5.00	1	10/12/2006
o-Dichlorobenzene	BQL	5.00	1	10/12/2006
m-Dichlorobenzene	BQL	5.00	1	10/12/2006
p-Dichlorobenzene	BQL	5.00	1	10/12/2006
t-1,4-Dichloro-2-butene	BQL	100	1	10/12/2006
1,1-Dichloroethane	BQL	5.00	1	10/12/2006
Vinylidene chloride	BQL	5.00	1	10/12/2006
Ethylene dichloride	BQL	5.00	1	10/12/2006
cis-1,2-Dichloroethene	BQL	5.00	1	10/12/2006
t-1,2-dichloroethene	BQL	5.00	1	10/12/2006
Propylene Dichloride	BQL	5.00	1	10/12/2006
cis-1,3-Dichloropropene	BQL	10.0	1	10/12/2006
t-1,3-Dichloropropene	BQL	10.0	1	10/12/2006
Ethylbenzene	BQL	5.00	1	10/12/2006
Methyl butyl ketone	BQL	50.0	1	10/12/2006
Methyl iodide	BQL	10.0	1	10/12/2006
Methylene chloride	BQL	10.0	1	10/12/2006
Methyl isobutyl ketone	BQL	100	1	10/12/2006
Styrene	BQL	10.0	1	10/12/2006
1,1,1,2-Tetrachloroethane	BQL	5.00	1	10/12/2006
1,1,2,2-Tetrachloroethane	BQL	5.00	1	10/12/2006
Tetrachloroethylene	BQL	5.00	1	10/12/2006
Toluene	BQL	5.00	1	10/12/2006
Trichloroethene	BQL	5.00	1	10/12/2006
1,1,1-Trichloroethane	BQL	5.00	1	10/12/2006

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Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: MW-11
Client Project ID: Henderson County C&D Landfill
Lab Sample ID: G175-565-3A
Lab Project ID: G175-565

Analyzed By: MJC
Date Collected: 10/5/2006 11:00
Date Received: 10/6/2006
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	Dilution Factor	Date Analyzed
1,1,2-Trichloroethane	BQL	5.00	1	10/12/2006
CFC-11 (Trichlorofluoromethane)	BQL	5.00	1	10/12/2006
1,2,3-Trichloropropane	BQL	15.0	1	10/12/2006
Vinyl acetate	BQL	50.0	1	10/12/2006
Vinyl chloride	BQL	10.0	1	10/12/2006
m-,p-Xylene	BQL	2.00	1	10/12/2006
o-Xylene	BQL	2.00	1	10/12/2006

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	9.86	99
1,2-Dichloroethane-d4	10	9.67	97
Toluene-d8	10	9.92	99

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By:

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Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: MW-10
Client Project ID: Henderson County C&D Landfill
Lab Sample ID: G175-565-4A
Lab Project ID: G175-565

Analyzed By: MJC
Date Collected: 10/5/2006 10:20
Date Received: 10/6/2006
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	Dilution Factor	Date Analyzed
Acetone	BQL	100	1	10/13/2006
Acrylonitrile	BQL	200	1	10/13/2006
Benzene	BQL	5.00	1	10/13/2006
Bromochloromethane	BQL	5.00	1	10/13/2006
Bromodichloromethane	BQL	5.00	1	10/13/2006
Bromoform	BQL	5.00	1	10/13/2006
Methyl bromide	BQL	10.0	1	10/13/2006
MEK (2-Butanone)	BQL	100	1	10/13/2006
Carbon disulfide	BQL	100	1	10/13/2006
Carbon tetrachloride	BQL	10.0	1	10/13/2006
Chlorobenzene	BQL	5.00	1	10/13/2006
Chloroethane	BQL	10.0	1	10/13/2006
Chloroform	BQL	5.00	1	10/13/2006
Methyl chloride	BQL	10.0	1	10/13/2006
Chlorodibromomethane	BQL	5.00	1	10/13/2006
DBCP (1,2-Dibromo-3-chloropropane)	BQL	25.0	1	10/13/2006
Methylene bromide	BQL	10.0	1	10/13/2006
Ethylene dibromide (EDB)	BQL	5.00	1	10/13/2006
o-Dichlorobenzene	BQL	5.00	1	10/13/2006
m-Dichlorobenzene	BQL	5.00	1	10/13/2006
p-Dichlorobenzene	BQL	5.00	1	10/13/2006
t-1,4-Dichloro-2-butene	BQL	100	1	10/13/2006
1,1-Dichloroethane	BQL	5.00	1	10/13/2006
Vinylidene chloride	BQL	5.00	1	10/13/2006
Ethylene dichloride	BQL	5.00	1	10/13/2006
cis-1,2-Dichloroethene	BQL	5.00	1	10/13/2006
t-1,2-dichloroethene	BQL	5.00	1	10/13/2006
Propylene Dichloride	BQL	5.00	1	10/13/2006
cis-1,3-Dichloropropene	BQL	10.0	1	10/13/2006
t-1,3-Dichloropropene	BQL	10.0	1	10/13/2006
Ethylbenzene	BQL	5.00	1	10/13/2006
Methyl butyl ketone	BQL	50.0	1	10/13/2006
Methyl iodide	BQL	10.0	1	10/13/2006
Methylene chloride	BQL	10.0	1	10/13/2006
Methyl isobutyl ketone	BQL	100	1	10/13/2006
Styrene	BQL	10.0	1	10/13/2006
1,1,1,2-Tetrachloroethane	BQL	5.00	1	10/13/2006
1,1,2,2-Tetrachloroethane	BQL	5.00	1	10/13/2006
Tetrachloroethylene	BQL	5.00	1	10/13/2006
Toluene	BQL	5.00	1	10/13/2006
Trichloroethene	BQL	5.00	1	10/13/2006
1,1,1-Trichloroethane	BQL	5.00	1	10/13/2006

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Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: MW-10
Client Project ID: Henderson County C&D Landfill
Lab Sample ID: G175-565-4A
Lab Project ID: G175-565

Analyzed By: MJC
Date Collected: 10/5/2006 10:20
Date Received: 10/6/2006
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	Dilution Factor	Date Analyzed
1,1,2-Trichloroethane	BQL	5.00	1	10/13/2006
CFC-11 (Trichlorofluoromethane)	BQL	5.00	1	10/13/2006
1,2,3-Trichloropropane	BQL	15.0	1	10/13/2006
Vinyl acetate	BQL	50.0	1	10/13/2006
Vinyl chloride	BQL	10.0	1	10/13/2006
m-,p-Xylene	BQL	2.00	1	10/13/2006
o-Xylene	BQL	2.00	1	10/13/2006

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	10.1	101
1,2-Dichloroethane-d4	10	9.79	98
Toluene-d8	10	9.91	99

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

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Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: Trip Blank
Client Project ID: Henderson County C&D Landfill
Lab Sample ID: G175-565-5A
Lab Project ID: G175-565

Analyzed By: MJC
Date Collected: 10/5/2006 0:00
Date Received: 10/6/2006
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	Dilution Factor	Date Analyzed
Acetone	BQL	100	1	10/12/2006
Acrylonitrile	BQL	200	1	10/12/2006
Benzene	BQL	5.00	1	10/12/2006
Bromochloromethane	BQL	5.00	1	10/12/2006
Bromodichloromethane	BQL	5.00	1	10/12/2006
Bromoform	BQL	5.00	1	10/12/2006
Methyl bromide	BQL	10.0	1	10/12/2006
MEK (2-Butanone)	BQL	100	1	10/12/2006
Carbon disulfide	BQL	100	1	10/12/2006
Carbon tetrachloride	BQL	10.0	1	10/12/2006
Chlorobenzene	BQL	5.00	1	10/12/2006
Chloroethane	BQL	10.0	1	10/12/2006
Chloroform	BQL	5.00	1	10/12/2006
Methyl chloride	BQL	10.0	1	10/12/2006
Chlorodibromomethane	BQL	5.00	1	10/12/2006
DBCP (1,2-Dibromo-3-chloropropane)	BQL	25.0	1	10/12/2006
Methylene bromide	BQL	10.0	1	10/12/2006
Ethylene dibromide (EDB)	BQL	5.00	1	10/12/2006
o-Dichlorobenzene	BQL	5.00	1	10/12/2006
m-Dichlorobenzene	BQL	5.00	1	10/12/2006
p-Dichlorobenzene	BQL	5.00	1	10/12/2006
t-1,4-Dichloro-2-butene	BQL	100	1	10/12/2006
1,1-Dichloroethane	BQL	5.00	1	10/12/2006
Vinylidene chloride	BQL	5.00	1	10/12/2006
Ethylene dichloride	BQL	5.00	1	10/12/2006
cis-1,2-Dichloroethene	BQL	5.00	1	10/12/2006
t-1,2-dichloroethene	BQL	5.00	1	10/12/2006
Propylene Dichloride	BQL	5.00	1	10/12/2006
cis-1,3-Dichloropropene	BQL	10.0	1	10/12/2006
t-1,3-Dichloropropene	BQL	10.0	1	10/12/2006
Ethylbenzene	BQL	5.00	1	10/12/2006
Methyl butyl ketone	BQL	50.0	1	10/12/2006
Methyl iodide	BQL	10.0	1	10/12/2006
Methylene chloride	BQL	10.0	1	10/12/2006
Methyl isobutyl ketone	BQL	100	1	10/12/2006
Styrene	BQL	10.0	1	10/12/2006
1,1,1,2-Tetrachloroethane	BQL	5.00	1	10/12/2006
1,1,2,2-Tetrachloroethane	BQL	5.00	1	10/12/2006
Tetrachloroethylene	BQL	5.00	1	10/12/2006
Toluene	BQL	5.00	1	10/12/2006
Trichloroethene	BQL	5.00	1	10/12/2006
1,1,1-Trichloroethane	BQL	5.00	1	10/12/2006

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Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: Trip Blank
Client Project ID: Henderson County C&D Landfill
Lab Sample ID: G175-565-5A
Lab Project ID: G175-565

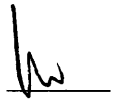
Analyzed By: MJC
Date Collected: 10/5/2006 0:00
Date Received: 10/6/2006
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	Dilution Factor	Date Analyzed
1,1,2-Trichloroethane	BQL	5.00	1	10/12/2006
CFC-11 (Trichlorofluoromethane)	BQL	5.00	1	10/12/2006
1,2,3-Trichloropropane	BQL	15.0	1	10/12/2006
Vinyl acetate	BQL	50.0	1	10/12/2006
Vinyl chloride	BQL	10.0	1	10/12/2006
m-,p-Xylene	BQL	2.00	1	10/12/2006
o-Xylene	BQL	2.00	1	10/12/2006

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	9.91	99
1,2-Dichloroethane-d4	10	10.2	102
Toluene-d8	10	10.1	101

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: 

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Results for Metals

Client Sample ID:	MW-13	Analyzed By:	AEC
Client Project ID:	Henderson County C&D Landfill	Date Collected:	10/5/06 9:10
Lab Sample ID:	G175-565-1	Date Received:	10/6/06
Lab Project ID:	G175-565	Matrix:	WATER
Batch ID:	6403 6421		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Arsenic	BQL	0.0100	1	MG/L	6010B	10/19/06
Barium	BQL	0.100	1	MG/L	6010B	10/19/06
Cadmium	BQL	0.0100	1	MG/L	6010B	10/19/06
Chromium	BQL	0.0100	1	MG/L	6010B	10/19/06
Lead	BQL	0.0100	1	MG/L	6010B	10/19/06
Mercury	BQL	0.000285	1	MG/L	7470	10/10/06
Selenium	BQL	0.0200	1	MG/L	6010B	10/19/06
Silver	BQL	0.0100	1	MG/L	6010B	10/19/06

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL

Reviewed By:
MET_LIMS_4.1

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Results for Metals

Client Sample ID:	MW-12	Analyzed By:	AEC
Client Project ID:	Henderson County C&D Landfill	Date Collected:	10/5/06 9:00
Lab Sample ID:	G175-565-2	Date Received:	10/6/06
Lab Project ID:	G175-565	Matrix:	WATER
Batch ID:	6403 6421		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Arsenic	BQL	0.0100	1	MG/L	6010B	10/19/06
Barium	BQL	0.100	1	MG/L	6010B	10/19/06
Cadmium	BQL	0.0100	1	MG/L	6010B	10/19/06
Chromium	BQL	0.0100	1	MG/L	6010B	10/19/06
Lead	BQL	0.0100	1	MG/L	6010B	10/19/06
Mercury	BQL	0.000285	1	MG/L	7470	10/10/06
Selenium	BQL	0.0200	1	MG/L	6010B	10/19/06
Silver	BQL	0.0100	1	MG/L	6010B	10/19/06

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL

Reviewed By:
MET_LIMS_4.1

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Results for Metals

Client Sample ID:	MW-11	Analyzed By:	AEC
Client Project ID:	Henderson County C&D Landfill	Date Collected:	10/5/06 11:00
Lab Sample ID:	G175-565-3	Date Received:	10/6/06
Lab Project ID:	G175-565	Matrix:	WATER
Batch ID:	6403 6421		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Arsenic	BQL	0.0100	1	MG/L	6010B	10/19/06
Barium	BQL	0.100	1	MG/L	6010B	10/19/06
Cadmium	BQL	0.0100	1	MG/L	6010B	10/19/06
Chromium	BQL	0.0100	1	MG/L	6010B	10/19/06
Lead	BQL	0.0100	1	MG/L	6010B	10/19/06
Mercury	BQL	0.000285	1	MG/L	7470	10/10/06
Selenium	BQL	0.0200	1	MG/L	6010B	10/19/06
Silver	BQL	0.0100	1	MG/L	6010B	10/19/06

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL

Reviewed By:
MET_LIMS_4.1

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Results for Metals

Client Sample ID:	MW-10	Analyzed By:	AEC
Client Project ID:	Henderson County C&D Landfill	Date Collected:	10/5/06 10:20
Lab Sample ID:	G175-565-4	Date Received:	10/6/06
Lab Project ID:	G175-565	Matrix:	WATER
Batch ID:	6403 6421		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Arsenic	BQL	0.0100	1	MG/L	6010B	10/19/06
Barium	BQL	0.100	1	MG/L	6010B	10/19/06
Cadmium	BQL	0.0100	1	MG/L	6010B	10/19/06
Chromium	BQL	0.0100	1	MG/L	6010B	10/19/06
Lead	BQL	0.0100	1	MG/L	6010B	10/19/06
Mercury	BQL	0.000285	1	MG/L	7470	10/10/06
Selenium	BQL	0.0200	1	MG/L	6010B	10/19/06
Silver	BQL	0.0100	1	MG/L	6010B	10/19/06

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL

Reviewed By: _____
MET_LIMS_4.1

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List of Reporting Abbreviations and Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantitation Limit (RL or MDL)

DF = Dilution Factor

Dup = Duplicate

D = Detected, but RPD is > 40% between results in dual column method.

E = Estimated concentration, exceeds calibration range.

J = Estimated concentration, below calibration range and above MDL

LCS(D) = Laboratory Control Spike (Duplicate)

MDL = Method Detection Limit

MS(D) = Matrix Spike (Duplicate)

PQL = Practical Quantitation Limit

RL = Reporting Limit

RPD = Relative Percent Difference

mg/kg = milligram per kilogram, ppm, parts per million

ug/kg = micrograms per kilogram, ppb, parts per billion

mg/L = milligram per liter, ppm, parts per million

ug/L = micrograms per liter, ppb, parts per billion

% Rec = Percent Recovery

% soilds = Percent Solids

Special Notes:

1) Metals and mercury samples are digested with a hot block, see the standard operating procedure document for details.

2) Uncertainty for all reported data is less than or equal to 30 percent.

MI34.030606.3

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- West Virginia

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065596

(1)

CLIENT: COM

CONTACT: Dan Forbes — PHONE NO:(919) 787-5620

PROJECT: Henderson County CTP Landfill — SITE/PWSID# :

REPORTS TO: Dan Forbes — E-MAIL: — FAX NO.:(919) 781-5730

INVOICE TO: Dan Forbes — QUOTE # — P.O. NUMBER

SGS Reference: G175-565

PAGE 1 OF 1

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No CONTAINERS	SAMPLE TYPE (C= COMP, G= GRAB)	Appendix I VOCs (3)	RCRA Metals								REMARKS
							Preservatives Used	HCl	HNO3							
	MW-13	10/5/06	0910	W	4	G	3	1								- Provide low run results
	MW-12	10/5/06	0900	W	4	G	3	1								
	MW-11	10/5/06	1100	W	4	G	3	1								- Provide Electronic Deliverable
	MW-10	10/5/06	1020	W	4	G	3	1								
	Trip Blank	—	—	W	2	G	2									

(5)

Collected/Relinquished By:(1)	Date	Time	Received By:
[signature]	10/5/06	1600	
Relinquished By: (2)	Date 10/6/06	Time 1000	Received By: [signature]
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

(4)

Shipping Carrier: Fed-Ex
Shipping Ticket No: 8557-9300-0689

Samples Received Cold? (Circle) YES NO
Temperature °C: 5.8°C, 3.1°C

Special Deliverable Requirements:

Chain of Custody Seal: (Circle)
INTACT BROKEN ABSENT

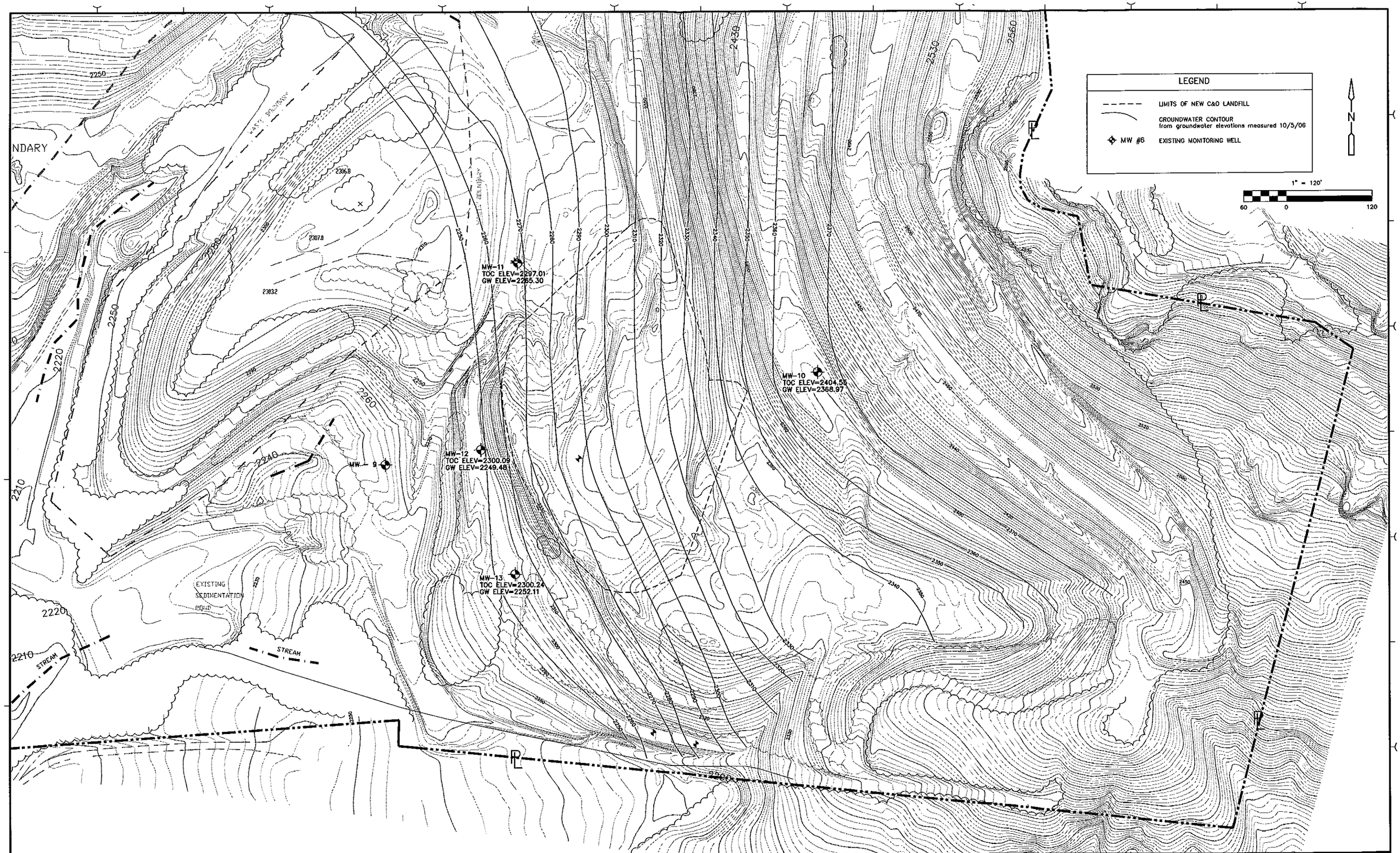
Requested Turnaround Time and Special Instructions:

Standard Turnaround

SGS ENVIRONMENTAL SERVICES, INC.

N.C. CERTIFICATION #481

66



REV. NO.	DATE	DRWN	CHKD	REMARKS
3	10/03	JSK	MC	REVISED POTENTIOMETRIC CONTOURS
2	8/01	PWD	MC	REVISED POTENTIOMETRIC CONTOURS
1	3/01	WMB	MC	REVISED LIMITS OF WASTE

DESIGNED BY: D. FORBES
DRAWN BY: J. KILLINGSWORTH
SHEET CHK'D BY: M. COLONE
CROSS CHK'D BY:
APPROVED BY:
DATE: OCTOBER 2006

CDM Camp Dresser & McKee
consulting engineering construction operations
5400 Glenwood Avenue, Suite 300
Raleigh, North Carolina 27612
Tel: 919-787-5620 Fax: 919-781-5730

HENDERSON COUNTY
NORTH CAROLINA

CONSTRUCTION AND DEMOLITION DEBRIS LANDFILL
HENDERSON COUNTY SOLID WASTE MANAGEMENT

POTENTIOMETRIC CONTOUR MAP

PROJECT NO. 10002-54471
FILE NAME: FIG1_APR.dwg

SHEET NO.
FIGURE 1

L:\cdm-geo\ FIG1_APR 12/18/03 13:52:16 21:09:56 Killingsworthja

Table 1
Water Quality Field Parameters - October 2006
Henderson County Stoney Mountain Road C&D Landfill

	Field Measurements			*Groundwater Elevations*		
Monitoring Well I.D.	***pH (-)***	***Conductivity (μS)***	***Temperature (deg. C)***	***TOC Elevation (feet AMSL)***	***Depth to Groundwater (feet)***	***Groundwater Elevation (feet AMSL)***
MW-10	5.94	41	14.0	2404.55	35.58	2368.97
MW-11	5.64	74	14.8	2297.01	31.71	2265.30
MW-12	5.76	117	13.6	2300.09	50.61	2249.48
MW-13	5.95	91	14.1	2300.24	48.13	2252.11

NOTES:
AMSL - Above Mean Sea Level
TOC - Top of Casing

Table 2
Detected Groundwater Constituents - Metals and Volatiles
Henderson County Stoney Mountain Road C&D Landfill

Monitor Well	Sample Date	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver	cis-1,2-dichloroethene	Trichlorofluoromethane
NC Standard		**0.05**	**2**	**0.00175**	**0.05**	**0.015**	**0.00105**	**0.05**	**0.0175**	**70***	**2100***
MW-10	21-Jun-01					0.0142					
MW-10	24-Apr-02		0.278								
MW-10	1-Oct-02										
MW-10	10-Apr-03										
MW-10	20-Oct-03										
MW-10	24-Mar-04										
MW-10	27-Oct-04										
MW-10	25-May-05					0.0103					
MW-10	5-Oct-05										
MW-10	25-Apr-06										
MW-10	5-Oct-06										
MW-11	5-Jun-01										
MW-11	24-Apr-02										
MW-11	1-Oct-02										
MW-11	10-Apr-03									6	
MW-11	20-Oct-03										
MW-11	24-Mar-04										
MW-11	27-Oct-04										
MW-11	25-May-05										
MW-11	5-Oct-05										
MW-11	25-Apr-06										
MW-11	5-Oct-06										
MW-12	5-Jun-01										
MW-12	24-Apr-02		0.306								
MW-12	1-Oct-02										
MW-12	10-Apr-03										
MW-12	20-Oct-03										
MW-12	24-Mar-04										
MW-12	27-Oct-04										
MW-12	25-May-05										
MW-12	5-Oct-05										8.07
MW-12	25-Apr-06										
MW-12	5-Oct-06										13.8
MW-13	5-Jun-01				0.0238	0.0104					
MW-13	24-Apr-02										
MW-13	1-Oct-02										
MW-13	10-Apr-03										
MW-13	20-Oct-03				0.0135						
MW-13	24-Mar-04				0.0128						
MW-13	26-Oct-04										
MW-13	25-May-05										
MW-13	5-Oct-05										
MW-13	25-Apr-06										23.1
MW-13	5-Oct-06										

All units are in milligrams per liter (parts per million), except * in micrograms per liter or parts per billion (ppb)
- Concentration exceeds N.C. Groundwater Standards (2L).