

APPENDIX M
ANALYTICAL RESULTS

Appendix M
Analytical Results
List of Tables

- 1a. Air Sample Results - April 2004, Volatile Organic Compounds
- 2a. Air Sample Results - September 2004, Volatile Organic Compounds
- 3a. Groundwater Sample Results – May/June 2004, Volatile Organic Compounds
- 4a. Groundwater Sample Results – Permanent Wells June 2004, Volatile Organic Compounds
- 4b. Groundwater Sample Results – Permanent Wells June 2004, Semivolatile Organic Compounds
- 4c. Groundwater Sample Results – Permanent Wells June 2004, Pesticide/PCBs
- 4d. Groundwater Sample Results – Permanent Wells June 2004, Inorganic Parameters-Unfiltered
- 5a. Groundwater Sample Results - Pump Test July 2004, Volatile Organic Compounds
- 5b. Groundwater Sample Results - Pump Test July 2004, Semivolatile Organic Compounds
- 5c. Groundwater Sample Results - Pump Test July 2004, Pesticide/PCBs
- 5d. Groundwater Sample Results - Pump Test July 2004, Inorganic Parameters-Unfiltered
- 6a. Groundwater Sample Results – July 2004, Inorganic Parameters-Unfiltered
- 7a. Soil Sample Results – June 2004, Volatile Organic Compounds
- 7b. Soil Sample Results – June 2004, Toxicity Characteristic Leaching Procedure Volatile Organic Compounds
- 7c. Soil Sample Results – June 2004, Toxicity Characteristic Leaching Procedure Inorganic Parameters
- 7d. Soil Sample Results – June 2004, Ignitability, Reactivity, pH, Paint Filter

TABLE 1a.
 AVM GOWANDA SITE
 PRE-DESIGN INVESTIGATION
 AIR SAMPLE RESULTS - APRIL 2004
 VOLATILE ORGANIC COMPOUNDS

Sample Location	70 Chestnut St.		87 Torrance Pl.		69 Torrance Pl.		64 Torrance Pl.		84 Torrance Pl.		74 Torrance Pl.	
	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12
Sample Identification	subslab	basement	subslab	basement	ambient	subslab	basement	basement	basement	ambient	subslab	basement
Sample Type	4/5/04	4/5/04	4/5/04	4/5/04	4/5/04	4/5/04	4/5/04	4/5/04	4/6/04	4/6/04	4/6/04	4/6/04
Date Collected	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
Units												
1,1,1-trichloroethane	0.710	u	8.10 D	0.250	u	u	u	u	u	u	273 D	1.60
1,1,2,2-tetrachloroethane	u	u	u	u	u	u	u	u	u	u	u	u
1,1,2-trichloroethane	u	u	u	u	u	u	u	u	u	u	0.750	u
1,1-dichloroethane	3.84 D	u	0.570	u	u	u	u	u	u	u	42.6	0.270
1,1-dichloroethane	u	u	u	u	u	u	u	u	u	u	2.37	u
1,2-dichloroethane	u	u	u	u	u	u	u	u	u	u	u	u
benzene	1.79	0.300	2.70	0.210	u	34.0 D	0.220	0.230	0.270 J*	0.270	16.3	0.540
cis-1,2-dichloroethane	76.6 D	0.210 J*	0.450 J*	u	0.520	u	u	0.330 J*	u	u	357 D	2.11
ethylbenzene	0.330	u	0.650	u	u	5.40 D	0.200	0.210	u	u	0.330	u
m-xylene	0.700	0.300	6.80 D	0.290	u	17.8 D	0.410	0.410	0.390	u	1.02	0.340
methyl tert-butyl ether	0.290	u	0.810	u	u	u	u	u	u	0.270	u	u
o-xylene	0.850	0.280	4.80 D	0.210	u	7.00 D	u	0.240	0.200 J*	0.530	0.680	u
p-xylene	0.270	u	2.05	u	u	4.40 D	u	u	u	u	0.280	u
tetrachloroethylene	u	u	0.450	u	u	u	u	u	u	u	0.760	u
toluene	3.50 D	2.36	11.3 D	0.950	0.220	56.2 D	1.38	2.86 D	1.26	0.950	2.80	0.810 J*
trans-1,2-dichloroethane	1.47	u	u	u	u	u	u	u	u	u	5.33	u
trichloroethane	303 D	1.02 J*	30.4 D	2.64 J*	3.01	u	u	1.62 J*	u	u	2380 D	20.6
vinyl chloride	u	u	u	u	u	u	u	u	u	u	u	u

QUALIFIERS:

u: Compound analyzed for but not detected

J*: Result qualified as estimated, possibly biased high based on ambient conditions

D: Result taken from reanalysis at a secondary dilution

Table reflects data qualifiers identified in data usability study report completed by D&B, May 11, 2004

TABLE 1a. (continued)
 AVM GOWANDA SITE
 PRE-DESIGN INVESTIGATION
 AIR SAMPLE RESULTS - APRIL 2004
 VOLATILE ORGANIC COMPOUNDS

Sample Location	85 Torrance Pl.		58 Torrance Pl.		48 Torrance Pl.		75 Torrance Pl.		89 Chestnut St.		96 Chestnut St.	
	A13 subslab 4/6/04	A14 basement 4/6/04	A15 basement 4/6/04	A16 subslab 4/6/04	A17 basement 4/6/04	A18 subslab 4/6/04	A19 basement 4/6/04	A20 ambient 4/7/04	A21 basement 4/7/04	A22 subslab 4/7/04	A23 basement 4/7/04	
1,1,1-trichloroethane	33.5	15.8 D	u	0.830	u	16.5 D	0.520	u	0.250	55.9 D	u	u
1,1,2,2-tetrachloroethane	u	u	u	u	u	u	u	u	u	u	u	u
1,1,2-trichloroethane	u	u	u	u	u	u	u	u	u	0.620	u	u
1,1-dichloroethane	26.8 D	u	u	u	u	u	u	u	u	88.4 D	u	u
1,1-dichloroethene	1.82	u	u	u	u	u	u	u	u	23.3 D	u	u
1,2-dichloroethane	u	u	u	u	u	u	u	u	u	u	u	u
benzene	8.20 D	0.690	u	10.2 D	u	414 D	0.290	0.300	0.330 J*	10.5 D	u	1.57
cis-1,2-dichloroethene	420 D	2.80 D	u	u	u	40.9	0.350	u	2.34	339 D	u	0.390
ethylbenzene	1.51	0.580	u	1.47	u	11.9 D	u	u	u	2.63	u	0.320
m-xylene	11.8 D	1.45	u	3.10 D	0.230	5.50 D	0.470	u	0.340	7.30 D	u	0.640
methyl tert-butyl ether	u	u	u	u	0.250 J*	u	u	u	u	u	u	u
o-xylene	6.70 D	0.590	u	1.98	0.320 J*	1.35	0.430 J*	u	u	3.30 D	u	0.310
p-xylene	1.79	0.430	u	1.04	u	0.800	0.220	u	u	1.90	u	u
tetrachloroethylene	u	u	u	u	u	u	u	u	u	0.800	u	u
toluene	22.6 D	7.20 D	0.210 J*	6.80 D	0.570 J*	2.07	1.07	0.440	0.600	19.8 D	u	1.35
trans-1,2-dichloroethene	10.2 D	u	u	u	u	1.85	u	u	u	2.76	u	u
trichloroethene	3140 D	20.7 D	0.370	1.19	u	574 D	1.69	0.510	27.2 D	2860 D	u	6.75 D
vinyl chloride	u	u	u	u	u	u	u	u	u	u	u	u

QUALIFIERS:

u: Compound analyzed for but not detected
 J*: Result qualified as estimated, possibly/biased high based on ambient conditions
 D: Result taken from reanalysis at a secondary dilution
 Table reflects data qualifiers identified in data usability study report completed by D&B, May 11, 2004

TABLE 2a.
 AVM GOWANDA SITE
 PRE-DESIGN INVESTIGATION
 AIR SAMPLE RESULTS - SEPTEMBER 2004
 VOLATILE ORGANIC COMPOUNDS

Sample Location Sample Identification	95 Chestnut St.		101 Chestnut St.		71 Chestnut St.		113 Chestnut St.		114 Chestnut St.		A35 ambient 9/20/04	A36 ambient 9/20/04
	A24 subslab 9/20/04	A25 basement 9/20/04	A26 basement 9/20/04	A27 subslab 9/20/04	A28 basement 9/20/04	A29 subslab 9/20/04	A30 basement 9/20/04	A31 subslab 9/20/04	A32 basement 9/20/04	A33 ambient 9/20/04		
Units	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1,1,1-trichloroethane	1.61	u	u	0.230	0.710	5.40	0.260	3.50	u	u	u	u
1,1,2,2-tetrachloroethane	u	u	u	u	u	u	u	u	u	u	u	u
1,1,2-trichloroethane	u	u	u	u	u	u	u	u	u	u	u	u
1,1-dichloroethane	1.52	u	u	u	u	u	u	1.34	u	u	u	u
1,1-dichloroethene	u	u	u	u	u	u	u	u	u	u	u	u
1,2-dichloroethane	u	0.210	u	u	u	u	u	u	u	u	u	u
benzene	16 D	0.400	0.610	20.6	u	5.50	12.0	12.6	1.23	0.230	0.330	0.220
cis-1,2-dichloroethene	17.2	0.270	0.300	u	u	u	0.720	120 D	u	u	u	u
ethylbenzene	0.770	0.300	0.500	6.20	0.250	1.69	8.50	5.30	0.720	u	u	u
m-xylene	2.07	0.650	1.55	32.6	0.590	9.20	23.8	16.0	1.72	0.530	0.520	0.390
methyl tert-butyl ether	u	1.11	u	u	u	u	u	u	u	u	u	u
o-xylene	1.12	0.560	0.800	13.4	0.200	3.90	11.0	7.10	1.03	0.200	0.300	0.270
p-xylene	0.800	0.230	0.550	11.0	u	3.20	11.0	4.20	0.750	u	u	u
tetrachloroethylene	1.07	u	u	0.240	u	0.300	0.200	1.00	u	u	u	u
toluene	10.8	2.12	2.84	39.6	1.90	11.9	53.2	21 D	3.48	0.530	0.660	0.530
trans-1,2-dichloroethene	u	u	u	u	u	u	u	6.90	u	u	u	u
trichloroethene	300 D	0.410	0.790	22.2	u	16.9	1.14	170 D	0.240	u	3.84	u
vinyl chloride	u	u	u	u	u	u	u	u	u	u	u	u

QUALIFIERS:

u: Compound analyzed for but not detected

J*: Result qualified as estimated, possibly biased high based on ambient conditions

D: Result taken from reanalysis at a secondary dilution

Table reflects data qualifiers identified in data usability study report completed by D&B, May 11, 2004

TABLE 2a. (continued)
 AVM GOWANDA SITE
 PRE-DESIGN INVESTIGATION
 AIR SAMPLE RESULTS - SEPTEMBER 2004
 VOLATILE ORGANIC COMPOUNDS

Sample Location	58 Torrance Pl.		98 Torrance Pl.		75 Chestnut St.		78 Chestnut St.		106 Torrance Pl.		90 Chestnut St.		A48	
	A37	A38	A39	A40	A41	A42	A43	A44	A45	A46	A47	A48	basement	subslab
Sample Identification	basement	subslab	basement	subslab	basement	basement	subslab	basement	subslab	basement	basement	subslab	basement	subslab
Sample Type	9/20/04	9/20/04	9/20/04	9/22/04	9/22/04	9/22/04	9/22/04	9/22/04	9/22/04	9/22/04	9/22/04	9/22/04	9/22/04	9/22/04
Date Collected	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
Units	u	u	u	u	u	u	u	u	u	u	u	u	u	u
1,1,1-trichloroethane	u	7.20	u	0.250	u	u	7.10	u	u	u	u	68 D	u	u
1,1,2,2-tetrachloroethane	u	u	u	u	u	u	u	u	u	u	u	u	u	u
1,1,2-trichloroethane	u	u	u	u	u	u	0.210	u	u	u	u	0.960	u	u
1,1-dichloroethane	u	0.480	u	0.810	u	u	u	u	u	u	u	120 D	u	u
1,1-dichloroethene	u	u	u	u	u	u	u	u	u	u	u	24.0	u	u
1,2-dichloroethane	u	u	u	u	u	u	u	u	u	u	u	u	u	u
benzene	u	4.00	1.87	2.04	0.510	0.320	3.80	0.700	0.390	0.280	0.390	28 D	0.270	u
cis-1,2-dichloroethene	u	0.470	u	2.80	u	2.65	u	u	u	0.380	u	740 D	u	u
ethylbenzene	u	1.50	0.640	0.830	u	u	1.88	0.490	0.340	0.220	0.340	13.1	0.200	u
m-xylene	0.230	4.40	1.43	4.00	0.580	0.470	5.60	1.20	1.50	0.570	1.50	20 D	0.700	u
methyl tert-butyl ether	u	u	u	u	u	u	u	u	u	u	u	u	u	u
o-xylene	u	2.40	0.830	1.34	0.310	0.260	2.40	0.660	1.16	0.270	1.16	20.1	0.370	u
p-xylene	u	u	0.530	0.990	0.230	u	2.00	0.440	0.660	u	0.660	15.1	0.230	u
tetrachloroethylene	u	2.90	u	u	u	u	0.650	u	u	u	u	0.430	u	u
toluene	0.490	7.40	4.00	5.30	1.24	3.00	9.30	4.05	2.08	0.700	2.08	41 D	0.920	u
trans-1,2-dichloroethene	u	u	u	u	u	u	u	u	u	u	u	7.00	u	u
trichloroethene	0.390	22.3	0.540	53 D	u	4.70	9.70	u	u	2.04	u	3200 D	0.850	u
vinyl chloride	u	u	u	u	u	u	u	u	u	u	u	u	u	u

QUALIFIERS:

u: Compound analyzed for but not detected

J*: Result qualified as estimated, possibly biased high based on ambient conditions

D: Result taken from reanalysis at a secondary dilution

Table reflects data qualifiers identified in data usability study completed by D&B, May 11, 2004

TABLE 2a. (continued)
 AVM GOWANDA SITE
 PRE-DESIGN INVESTIGATION
 AIR SAMPLE RESULTS - SEPTEMBER 2004
 VOLATILE ORGANIC COMPOUNDS

Sample Location	74 Torrance Pl.		69 Torrance Pl.		118 Torrance Pl.	
	A49	A50	A51	A52	A53	A54
Sample Identification	ambient	ambient	basement	basement	subslab	basement
Sample Type	9/22/04	9/22/04	9/22/04	9/22/04	9/23/04	9/23/04
Date Collected	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
Units						
1,1,1-trichloroethane	u	u	u	u	1.57	u
1,1,2-tetrachloroethane	u	u	u	u	u	u
1,1,2-trichloroethane	u	u	u	u	u	u
1,1-dichloroethane	u	u	u	u	0.490	u
1,1-dichloroethene	u	u	u	u	u	u
1,2-dichloroethane	u	u	u	u	u	u
benzene	0.200	0.220	1.18	0.350	1.87	1.43
cis-1,2-dichloroethene	u	u	u	u	660 D	1.31
ethylbenzene	0.320	u	0.220	1.01	0.830	0.620
m-xylene	0.580	0.200	0.440	1.15	2.90	1.82
methyl tert-butyl ether	u	u	u	u	u	u
o-xylene	0.410	u	0.310	0.700	1.26	0.840
p-xylene	0.220	u	u	1.21	1.14	0.700
tetrachloroethylene	u	u	u	u	1.47	0.260
toluene	0.790	0.460	2.00	2.55	4.50	8.50
trans-1,2-dichloroethene	u	u	u	u	36.3	u
trichloroethene	u	0.630	u	u	840 D	3.70
vinyl chloride	u	u	u	u	u	u

QUALIFIERS:

u: Compound analyzed for but not detected

J*: Result qualified as estimated, possibly biased high based on ambient conditions

D: Result taken from reanalysis at a secondary dilution

Table reflects data qualifiers identified in data usability study report completed by D&B, May 11, 2004

TABLE 3a.
AVM GOWANDA SITE
PRE-DESIGN INVESTIGATION
GROUNDWATER SAMPLE RESULTS - MAY/JUNE 2004
VOLATILE ORGANIC COMPOUNDS

Sample Identification	GW-1	GW-2	GW-3	GW-4	GW-5	GW-6	GW-7	GW-8	GW-9	GW-10	Contract Required Detection Limit (ug/l)	NYSDEC Class GA Groundwater Standard or Guidance Value (ug/l)
	05/24/04 1.0 (ug/l)	06/01/04 1.0 (ug/l)	05/24/04 1.0 (ug/l)	06/01/04 1.0 (ug/l)	05/24/04 1.0 (ug/l)	06/01/04 1.0 (ug/l)	05/24/04 1.0 (ug/l)	06/01/04 1.0 (ug/l)	06/04/04 1.0 (ug/l)	06/03/04 1.0 (ug/l)		
Dichlorodifluoromethane	U	U	U	U	U	U	U	U	U	U	10	5 ST
Chloromethane	U	U	U	U	U	U	U	U	U	U	10	5 ST
Vinyl Chloride	U	U	U	U	U	U	U	U	U	U	10	2 ST
Bromomethane	U	U	U	U	U	U	U	U	U	U	10	5 ST
Chloroethane	U	U	U	U	U	U	U	U	U	U	10	5 ST
Trichlorofluoromethane	U	U	U	U	U	U	U	U	U	U	10	5 ST
1,1-Dichloroethene	U	U	U	U	U	U	U	U	U	U	10	5 ST
1,1,2-trichloro-1,2,2-trifluoroethane	U	U	U	U	U	U	U	U	U	U	10	5 ST
Acetone	U	U	U	U	U	U	U	U	U	U	10	50GV
Carbon Disulfide	U	U	U	U	U	U	U	U	U	U	10	60GV
Methyl Acetate	U	U	U	U	U	U	U	U	U	U	10	5 ST
Methylene Chloride	U	U	U	U	U	U	U	U	U	U	10	5 ST
trans-1,2-dichloroethene	U	U	U	U	U	2 J	U	U	U	U	10	10GV
Methyl tert-Butyl Ether	U	U	U	U	U	U	U	U	U	U	10	5 ST
1,1-Dichloroethane	U	U	2 J	U	U	U	U	U	U	U	10	5 ST
cis-1,2-Dichloroethane	U	U	19	15	4 J	16	U	5 J	U	U	10	5 ST
2-Butanone	U	U	U	140	39	350 D	U	U	U	U	10	50GV
Chloroform	U	U	U	U	U	U	U	U	U	U	10	7 ST
1,1,1-Trichloroethane	U	U	U	U	1 J	4 J	U	U	U	U	10	5 ST
Cyclohexane	U	U	2 J	3 J	U	U	U	U	U	U	10	5 ST
Carbon Tetrachloride	U	U	U	U	U	U	U	U	U	U	10	5 ST
Benzene	U	U	U	U	U	U	U	U	U	U	10	5 ST
1,2-Dichloroethane	U	U	U	U	U	U	U	U	U	U	10	0.6 ST
Trichloroethene	1 J	10	28	290 D	85	770 D	U	8 J	U	U	10	5 ST
Methylcyclohexane	U	U	U	U	U	U	U	U	U	U	10	5 ST
1,2-Dichloropropane	U	U	U	U	U	U	U	U	U	U	10	1 ST
Bromodichloromethane	U	U	U	U	U	U	U	U	U	U	10	50GV
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U	10	0.4 ST*
4-Methyl-2-Pentanone	U	U	U	U	U	U	U	U	U	U	10	5 ST
Toluene	U	U	U	U	U	U	U	U	U	U	10	5 ST
Trans-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U	10	0.4 ST*
1,1,2-Trichloroethane	U	U	U	U	U	U	U	U	U	U	10	1 ST
Tetrachloroethene	U	U	U	U	U	U	U	U	U	U	10	5 ST
2-Hexanone	U	U	U	U	U	U	U	U	U	U	10	50GV
Dibromochloromethane	U	U	U	U	U	U	U	U	U	U	10	50GV
1,2-Dibromoethane	U	U	U	U	U	U	U	U	U	U	10	50GV
Chlorobenzene	U	U	U	U	U	U	U	U	U	U	10	5 ST
Ethylbenzene	U	U	U	U	U	U	U	U	U	U	10	5 ST
Total Xylenes	U	U	U	U	U	U	U	U	U	U	10	5 ST
Styrene	U	U	U	U	U	U	U	U	U	U	10	50GV
Bromoform	U	U	U	U	U	U	U	U	U	U	10	5 ST
Isopropylbenzene	U	U	U	U	U	U	U	U	U	U	10	5 ST
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	U	U	U	10	5 ST
1,3-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	10	5 ST
1,4-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	10	3 ST
1,2-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	10	3 ST
1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	U	U	U	U	10	0.04 ST
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	U	U	U	10	5 ST
Total VOCs	1	11	51	448	129	1,142	0	13	0	19	10	-----
Total VOC TICs	0	0	0	0	0	0	0	0	0	0	0	-----

QUALIFIERS:
 U: Compound analyzed for but not detected
 B: Compound found in the blank as well as the sample
 J: Compound found at a concentration below the CRDL, value estimated
 D: Result is taken from reanalysis at a secondary dilution
 E: Compound exceeds linear range of instrument, value estimated
 U*: Result qualified as non-detect based on validation criteria

NOTES:
 *: Value pertains to the sum of the isomers
 GV: Guidance Value
 ST: Standard
 ---: Not established
 [] Indicates value exceeds standard or guidance value.

TABLE 3a. (continued)
 AVM GOWANDA SITE
 PRE-DESIGN INVESTIGATION
 GROUNDWATER SAMPLE RESULTS - MAY/JUNE 2004
 VOLATILE ORGANIC COMPOUNDS

Sample Identification	B-1		B-3		B-4		B-5		B-6		Contract Required Detection Limit (ug/l)	NYSDEC Class GA Groundwater Standard or Guidance Value (ug/l)
	Date of Collection	Dilution Factor	Date of Collection	Dilution Factor	Date of Collection	Dilution Factor	Date of Collection	Dilution Factor				
Dichlorodifluoromethane	06/01/04	1.0	06/03/04	1.0	06/01/04	1.0	06/01/04	1.0	06/04/04	1.0	10	5 ST
Chloromethane	U	U	U	U	U	U	U	U	U	U	10	5 ST
Vinyl Chloride	U	U	U	U	U	U	U	U	U	U	10	2 ST
Bromomethane	U	U	U	U	U	U	U	U	U	U	10	5 ST
Chloroethane	U	U	U	U	U	U	U	U	U	U	10	5 ST
Trichlorofluoromethane	U	U	U	U	U	U	U	U	U	U	10	5 ST
1,1-Dichloroethene	U	U	U	U	U	U	U	U	U	U	10	5 ST
1,1,2-trichloro-1,2,2-trifluoroethane	U	U	U	U	U	U	U	U	U	U	10	5 ST
Acetone	U	U	11	U	U	U	U	U	U	U	10	50GV
Carbon Disulfide	U	U	U	U	U	U	U	U	U	U	10	60GV
Methyl Acetate	U	U	U	U	U	U	U	U	U	U	10	5 ST
Methylene Chloride	U	U	U	U	U	U	U	U	U	U	10	5 ST
trans-1,2-dichloroethene	U	U	U	U	U	U	U	U	U	U	10	5 ST
Methyl tert-Butyl Ether	U	U	U	U	U	U	U	U	U	U	10	10GV
1,1-Dichloroethane	2 J	U	U	U	U	U	U	U	U	U	10	5 ST
cis-1,2-Dichloroethene	5 J	U	U	U	U	U	1 J	U	U	U	10	5 ST
2-Butanone	U	U	U	U	U	U	U	U	U	U	10	50GV
Chloroform	U	U	U	U	U	U	U	U	U	U	10	5 ST
1,1,1-Trichloroethane	U	U	U	U	U	U	U	U	U	U	10	5 ST
Cyclohexane	U	U	U	U	U	U	U	U	U	U	10	5 ST
Carbon Tetrachloride	U	U	U	U	U	U	U	U	U	U	10	5 ST
Benzene	U	U	U	U	U	U	U	U	U	U	10	0.6 ST
1,2-Dichloroethane	U	U	U	U	U	U	U	U	U	U	10	5 ST
Trichloroethene	4 J	U	U	U	U	U	U	U	U	U	10	5 ST
Methylcyclohexane	U	U	U	U	U	U	U	U	U	U	10	5 ST
1,2-Dichloropropane	U	U	U	U	U	U	U	U	U	U	10	1 ST
Bromodichloromethane	U	U	U	U	U	U	U	U	U	U	10	50GV
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U	10	0.4 ST*
4-Methyl-2-Pentanone	U	U	U	U	U	U	U	U	U	U	10	5 ST
Toluene	U	U	U	U	U	U	U	U	U	U	10	5 ST
Trans-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U	10	0.4 ST*
1,1,2-Trichloroethane	U	U	U	U	U	U	U	U	U	U	10	1 ST
Tetrachloroethene	U	U	U	U	U	U	U	U	U	U	10	5 ST
2-Hexanone	U	U	U	U	U	U	U	U	U	U	10	50GV
1,2-Dibromoethane	U	U	U	U	U	U	U	U	U	U	10	50GV
Chlorobenzene	U	U	U	U	U	U	U	U	U	U	10	5 ST
Ethylbenzene	U	U	U	U	U	U	U	U	U	U	10	5 ST
Total Xylenes	U	U	U	U	U	U	U	U	U	U	10	5 ST
Styrene	U	U	U	U	U	U	U	U	U	U	10	5 ST
Bromoform	U	U	U	U	U	U	U	U	U	U	10	50GV
Isopropylbenzene	U	U	U	U	U	U	U	U	U	U	10	5 ST
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	U	U	U	10	5 ST
1,3-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	10	3 ST
1,4-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	10	3 ST
1,2-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	10	3 ST
1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	U	U	U	U	10	0.04 ST
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	U	U	U	10	5 ST
Total VOCs	11	0	11	0	11	27	1	0	0	0		
Total VOC TICs	0	0	0	0	0	0	0	0	0	0		

QUALIFIERS:
 U: Compound analyzed for but not detected
 B: Compound found in the blank as well as the sample
 J: Compound found at a concentration below the CRDL, value estimated
 D: Result is taken from reanalysis at a secondary dilution
 E: Compound exceeds linear range of instrument, value estimated
 U*: Result qualified as non-detected based on validation criteria

NOTES:
 *: Value pertains to the sum of the isomers
 GV: Guidance Value
 ST: Standard
 ----: Not established
 Indicates value exceeds standard or guidance value.

TABLE 4a.
AVM GOWANDA SITE
PRE-DESIGN INVESTIGATION
GROUNDWATER SAMPLE RESULTS - PERMANENT WELLS JUNE 2004
VOLATILE ORGANIC COMPOUNDS

Sample Identification	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	Contract Required Detection Limit (ug/l)	NYSDEC Class GA Groundwater Standard or Guidance Value (ug/l)
Date of Collection	06/15/04	06/15/04	06/15/04	06/15/04	06/15/04	06/15/04	06/15/04	06/15/04	06/15/04	06/15/04		
Dilution Factor	1.0	1.0	20.0	100.0	30.0	10.0	2.5	10.0	1.0	4.0		
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Dichlorodifluoromethane	U	U	U	U	U	U	U	U	U	U	10	5 ST
Chloromethane	U	U	U	U	U	U	U	U	U	U	10	5 ST
Vinyl Chloride	U	U	U	U	U	U	U	U	U	U	10	2 ST
Bromomethane	U	U	U	U	U	U	U	U	U	U	10	5 ST
Chloroethane	U	U	U	U	U	U	U	U	U	U	10	5 ST
Trichlorofluoromethane	U	U	U	U	U	U	U	U	U	U	10	5 ST
1,1-Dichloroethane	U	U	U	U	40 J	U	U	U	U	U	10	5 ST
1,1,2-trichloro-1,2,2-trifluoroethane	U	U	U	U	U	U	U	U	U	U	10	5 ST
Acetone	U	U	U	U	U	U	U	U	U	U	10	50GV
Carbon Disulfide	U	U	U	U	U	U	U	U	U	U	10	60GV
Methyl Acetate	U	U	U	U	U	U	U	U	U	U	10	5 ST
Methylene Chloride	U	U	U	U	U	U	U	U	U	U	10	5 ST
trans-1,2-dichloroethane	U	U	U	U	U	U	U	U	U	U	10	10GV
Methyl tert-Butyl Ether	U	U	U	U	U	U	U	U	U	U	10	5 ST
1,1-Dichloroethane	2 J	6 J	69 J	550 J	300	53 J	17 J	31 J	3 J	16 J	10	5 ST
cis-1,2-Dichloroethane	U*	580 D	940	3300	4100	1500	190	950	330 D	740	10	5 ST
2-Butanone	U	U	U	U	U	U	U	U	U	U	10	50GV
Chloroform	U	U	U	U	U	U	U	U	U	U	10	7 ST
1,1,1-Trichloroethane	U	U	U	U	68 J	U	4 J	U	1 J	U	10	5 ST
Cyclohexane	U	U	U	U	U	U	U	U	U	U	10	5 ST
Carbon Tetrachloride	U	U	U	U	U	U	U	U	U	U	10	5 ST
Benzene	U	U	U	U	U	U	U	U	U	U	10	1 ST
1,2-Dichloroethane	U	U	U	U	U	U	U	U	U	U	10	0.6 ST
Trichloroethene	U*	200	2400	17000	3200	310	490	1400	29	360	10	5 ST
Methylcyclohexane	U	U	U	U	U	U	U	U	U	U	10	5 ST
1,2-Dichloropropane	U	U	U	U	U	U	U	U	U	U	10	1 ST
Bromodichloromethane	U	U	U	U	U	U	U	U	U	U	10	50GV
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U	10	0.4 ST*
4-Methyl-2-Pentanone	U	U	U	U	U	U	U	U	U	U	10	5 ST
Toluene	U	U	U	U	U	U	U	U	U	U	10	0.4 ST*
Trans-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U	10	1 ST
1,1,2-Trichloroethane	U	U	U	U	U	U	U	U	U	U	10	5 ST
Tetrachloroethene	U	U	U	U	U	U	U	U	U	U	10	50GV
2-Hexanone	U	U	U	U	U	U	U	U	U	U	10	50GV
Dibromodichloromethane	U	U	U	U	U	U	U	U	U	U	10	50GV
1,2-Dibromoethane	U	U	U	U	U	U	U	U	U	U	10	50GV
Chlorobenzene	U	U	U	U	U	U	U	U	U	U	10	5 ST
Ethylbenzene	U	U	U	U	U	U	U	U	U	U	10	5 ST
Total Xylenes	U	U	U	U	U	U	U	U	U	U	10	5 ST
Styrene	U	U	U	U	U	U	U	U	U	U	10	5 ST
Bromoform	U	U	U	U	U	U	U	U	U	U	10	50GV
Isopropylbenzene	U	U	U	U	U	U	U	U	U	U	10	50GV
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	U	U	U	10	5 ST
1,3-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	10	5 ST
1,4-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	10	3 ST
1,2-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	10	3 ST
1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	U	U	U	U	10	0.04 ST
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	U	U	U	10	5 ST
Total VOCs	2	804	3,458	20,850	7,708	1,863	701	2,381	366	1,116		
Total VOC TICs	0	0	0	0	0	0	0	0	0	0		

QUALIFIERS:
 U: Compound analyzed for but not detected
 J: Compound found at a concentration below the CRDL, value estimated
 D: Result is taken from reanalysis at a secondary dilution
 U*: Result qualified as non-detect based on validation criteria

NOTES:
 *: Value pertains to the sum of the isomers
 GV: Guidance Value
 ST: Standard
 ----: Not established
 []: Indicates value exceeds standard or guidance value.

TABLE 4a. (continued)
 AVM GOWANDA SITE
 PRE-DESIGN INVESTIGATION
 GROUNDWATER SAMPLE RESULTS - MAY/JUNE 2004
 VOLATILE ORGANIC COMPOUNDS

Sample Identification	MW-11 06/15/04 (ug/l)	MW-12 06/15/04 (ug/l)	TW-2 06/15/04 (ug/l)	TW-3 06/15/04 (ug/l)	Contract Required Detection Limit (ug/l)	NYSDEC Class GA Groundwater Standard or Guidance Value (ug/l)
Date of Collection	06/15/04	06/15/04	06/15/04	06/15/04		
Dilution Factor	1.0	1.0	40.0	20.0		
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Dichlorodifluoromethane	U	U	U	U	10	5 ST
Chloromethane	U	U	U	U	10	5 ST
Vinyl Chloride	20	10	U	U	10	2 ST
Bromomethane	U	U	U	U	10	5 ST
Chloroethane	U	U	U	U	10	5 ST
Trichlorofluoromethane	U	U	U	U	10	5 ST
1,1-Dichloroethene	14	17	U	U	10	5 ST
1,1,2-trichloro-1,2,2-trifluoroethane	U	U	U	U	10	----
Acetone	U	U	U	U	10	50GV
Carbon Disulfide	U	U	U	U	10	60GV
Methyl Acetate	U	U	U	U	10	----
Methylene Chloride	U	U	U	U	10	5 ST
trans-1,2-dichloroethene	U	U	U	U	10	5 ST
Methyl tert-Butyl Ether	9 J	16	U	U	10	10GV
1,1-Dichloroethane	31	26	220 J	74 J	10	5 ST
cis-1,2-Dichloroethane	1800 D	2600 D	4900	2700	10	5 ST
2-Butanone	U	U	U	U	10	50GV
Chloroform	U	U	U	U	10	7 ST
1,1,1-Trichloroethane	U	U	U	U	10	5 ST
Cyclohexane	U	U	U	U	10	----
Carbon Tetrachloride	U	U	U	U	10	5 ST
Benzene	U	U	U	U	10	1 ST
1,2-Dichloroethane	U	U	U	U	10	0.6 ST
Trichloroethene	U	U	U	U	10	5 ST
Methylcyclohexane	U	U	U	U	10	----
1,2-Dichloropropane	U	U	U	U	10	1 ST
Bromodichloromethane	U	U	U	U	10	50GV
cis-1,3-Dichloropropene	U	U	U	U	10	0.4 ST*
4-Methyl-2-Pentanone	U	U	U	U	10	----
Toluene	U	U	U	U	10	5 ST
Trans-1,3-Dichloropropene	U	U	U	U	10	0.4 ST*
1,1,2-Trichloroethane	U	U	U	U	10	1 ST
Tetrachloroethene	1 J	U	U	U	10	5 ST
2-Hexanone	U	U	U	U	10	50GV
Dibromochloromethane	U	U	U	U	10	50GV
1,2-Dibromoethane	U	U	U	U	10	----
Chlorobenzene	U	U	U	U	10	5 ST
Ethylbenzene	U	U	U	U	10	5 ST
Total Xylenes	U	U	U	U	10	5 ST
Styrene	U	U	U	U	10	50GV
Bromoform	U	U	U	U	10	50GV
Isopropylbenzene	U	U	U	U	10	5 ST
1,1,2,2-Tetrachloroethane	U	U	U	U	10	5 ST
1,3-Dichlorobenzene	U	U	U	U	10	3 ST
1,4-Dichlorobenzene	U	U	U	U	10	3 ST
1,2-Dichlorobenzene	U	U	U	U	10	3 ST
1,2-Dibromo-3-chloropropane	U	U	U	U	10	0.04 ST
1,2,4-Trichlorobenzene	U	U	U	U	10	5 ST
Total VOCs	2,724	4,290	7,320	3,674		----
Total VOC TICs	0	0	0	0		----

QUALIFIERS:
 U: Compound analyzed for but not detected
 J: Compound found at a concentration below the CRDL, value estimated
 D: Result is taken from reanalysis at a secondary dilution
 U*: Result qualified as non-detect based on validation criteria

NOTES:
 *: Value pertains to the sum of the isomers
 GV: Guidance Value
 ST: Standard
 ----: Not established
 []: Indicates value exceeds standard or guidance value.

TABLE 4b.
 AVM GOWANDA SITE
 PRE-DESIGN INVESTIGATION
 GROUNDWATER SAMPLE RESULTS - PERMANENT WELLS JUNE 2004
 SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	Contract Required Detection Limit (ug/L)	NYSDEC Class GA Groundwater Standard or Guidance Value (ug/l)
	NS	NS	NS	06/15/04	NS	NS	NS	NS	NS	NS		
Date of Collection												
Dilution Factor				1.0								
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/L)	(ug/l)
Benzaldehyde	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	----
Phenol	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	1 ST *
bis(2-Chloroethyl)ether	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	1 ST
2-Chlorophenol	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	1 ST *
2-Methylphenol	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	1 ST *
2,2-Oxybis (1-Chloropropane)	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	----
Acetophenone	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	----
4-Methylphenol	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	1 ST *
N-Nitroso-di-n-propylamine	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	----
Hexachloroethane	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	5 ST
Nitrobenzene	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	0.4 ST
Isophorone	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	50 GV
2-Nitrophenol	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	----
2,4-Dimethylphenol	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	1 ST *
bis(2-Chloroethoxy)methane	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	5 ST
2,4-Dichlorophenol	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	1 ST *
Naphthalene	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	10 GV
4-Chloroaniline	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	5 ST
Hexachlorobutadiene	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	5 ST
Caprolactum	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	0.5 ST
4-Chloro-3-methylphenol	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	----
2-Methylnaphthalene	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	----
Hexachlorocyclopentadiene	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	5 ST
2,4,6-Trichlorophenol	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	----
2,4,5-Trichlorophenol	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	25	----
1-1'-Biphenyl	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	----
2-Chloronaphthalene	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	5 ST
2-Nitroaniline	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	5 ST
Dimethylphthalate	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	25	5 ST
2,6-Dinitrotoluene	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	25	5 ST
Acenaphthylene	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	50 GV
3-Nitroaniline	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	5 ST
Acenaphthene	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	25	----
2,4-Dinitrophenol	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	5 ST
4-Nitrophenol	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	25	20 GV
Dibenzofuran	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	25	1 ST *
											25	----
											10	----

TABLE 4b. (CONTINUED)
 AVM GOWANDA SITE
 PRE-DESIGN INVESTIGATION
 GROUNDWATER SAMPLE RESULTS - PERMANENT WELLS JUNE 2004
 SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	Contract Required Detection Limit (ug/l)	NYSDEC Class GA Groundwater Standard or Guidance Value (ug/l)
Date of Collection	NS	NS	NS	6/15/04	NS	NS	NS	NS	NS	NS		
Dilution Factor	0.0	0.0	0.0	1.0								
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
2,4-Dinitrotoluene	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	5 ST
Diethylphthalate	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	50 GV
Fluorene	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	50 GV
4-Chlorophenyl-phenylether	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	----
4-Nitroaniline	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	25	5 ST
4,6-Dinitro-2-methylphenol	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	25	----
N-Nitrosodiphenylamine	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	50 GV
4-Bromophenyl-phenylether	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	----
Hexachlorobenzene	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	0.04 ST
Atrazine	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	7.5 ST
Pentachlorophenol	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	25	1 ST *
Phenanthrene	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	50 GV
Anthracene	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	50 GV
Carbazole	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	----
Di-n-butylphthalate	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	50 ST
Fluoranthene	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	50 GV
Pyrene	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	50 GV
Butylbenzylphthalate	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	5 ST
3,3'-Dichlorobenzidine	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	0.002 GV
Benzo (a) anthracene	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	0.002 GV
Chrysene	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	5 ST
bis(2-Ethylhexyl)phthalate	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	50 GV
Di-octylphthalate	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	50 GV
Benzo(b)fluoranthene	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	0.002 GV
Benzo(k)fluoranthene	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	0.002 GV
Benzo(a)pyrene	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	ND ST
Indeno(1,2,3-cd)pyrene	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	0.002 GV
Dibenzo(a,h)anthracene	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	----
Benzo(g,h,i)perylene	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	10	----
Total PAHs	0	0	0	0	0	0	0	0	0	0		
Total Carcinogen PAHs	0	0	0	0	0	0	0	0	0	0		
Total SVOCs	0	0	0	0	0	0	0	0	0	0		
Total SVOC TICs	0	0	0	0	0	0	0	0	0	0		

NOTES:
 *: Applies to Total Phenols
 **: Applies to the sum of Unchlorinated Phenols
 ****: Applies to the sum of Chlorinated Phenols
 [] Indicates value exceeds standard or guidance value.
 NS: Not sampled, VOCs are contaminants of concerns at site.

QUALIFIERS:
 U: Compound analyzed for but not detected
 B: Compound found in the method blank as well as the sample
 J: Compound found at a concentration below the CRDL, value estimated

TABLE 4b. (CONTINUED)
 AVM GOWANDA SITE
 PRE-DESIGN INVESTIGATION
 GROUNDWATER SAMPLE RESULTS - PERMANENT WELLS JUNE 2004
 SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	MW-11	MW-12	TW-2	TW-3	Contract Required Detection Limit (ug/L)	NYSDEC Class GA Groundwater Standard or Guidance Value (ug/l)
	NS	NS	06/15/04 1.0	06/15/04 1.0		
Date of Collection						
Dilution Factor						
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)		
Benzaldehyde	NS	NS	U	U	10	----
Phenol	NS	NS	U	U	10	1 ST *
bis(2-Chloroethyl)ether	NS	NS	U	U	10	1 ST *
2-Chlorophenol	NS	NS	U	U	10	1 ST *
2-Methylphenol	NS	NS	U	U	10	1 ST *
2,2-Oxybis (1-Chloropropane)	NS	NS	U	U	10	----
Acetophenone	NS	NS	U	U	10	----
4-Methylphenol	NS	NS	U	U	10	1 ST *
N-Nitroso-di-n-propylamine	NS	NS	U	U	10	----
Hexachloroethane	NS	NS	U	U	10	5 ST
Nitrobenzene	NS	NS	U	U	10	0.4 ST
Isophorone	NS	NS	U	U	10	50 GV
2-Nitrophenol	NS	NS	U	U	10	----
2,4-Dimethylphenol	NS	NS	U	U	10	1 ST *
bis(2-Chloroethoxy)methane	NS	NS	U	U	10	5 ST
2,4-Dichlorophenol	NS	NS	U	U	10	1 ST *
Naphthalene	NS	NS	U	U	10	10 GV
4-Chloroaniline	NS	NS	U	U	10	5 ST
Hexachlorobutadiene	NS	NS	U	U	10	0.5 ST
Caprolactum	NS	NS	U	U	10	----
4-Chloro-3-methylphenol	NS	NS	U	U	10	----
2-Methylnaphthalene	NS	NS	U	U	10	----
Hexachlorocyclopentadiene	NS	NS	U	U	10	5 ST
2,4,6-Trichlorophenol	NS	NS	U	U	10	----
2,4,5-Trichlorophenol	NS	NS	U	U	25	----
1-1'-Biphenyl	NS	NS	U	U	10	5 ST
2-Chloronaphthalene	NS	NS	U	U	10	5 ST
2-Nitroaniline	NS	NS	U	U	25	5 ST
Dimethylphthalate	NS	NS	U	U	10	5 ST
2,6-Dinitrotoluene	NS	NS	U	U	25	5 ST
Acenaphthylene	NS	NS	U	U	10	50 GV
3-Nitroaniline	NS	NS	U	U	10	5 ST
Acenaphthene	NS	NS	U	U	25	----
2,4-Dinitrophenol	NS	NS	U	U	10	5 ST
4-Nitrophenol	NS	NS	U	U	25	20 GV
Dibenzofuran	NS	NS	U	U	25	1 ST *
					10	----

TABLE 4b. (CONTINUED)
 AVM GOWANDA SITE
 PRE-DESIGN INVESTIGATION
 GROUNDWATER SAMPLE RESULTS - PERMANENT WELLS JUNE 2004
 SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	MW-11	MW-12	TW-2	TW-3	Contract Required Detection Limit (ug/l)	NYSDEC Class GA Groundwater Standard or Guidance Value (ug/l)
	NS 0.0 (ug/l)	NS 0.0 (ug/l)	6/15/04 1.0 (ug/l)	6/15/04 1.0 (ug/l)		
2,4-Dinitrotoluene	NS	NS	U	U	10	5 ST
Diethylphthalate	NS	NS	U	U	10	50 GV
Fluorene	NS	NS	U	U	10	50 GV
4-Chlorophenyl-phenylether	NS	NS	U	U	10	----
4-Nitroaniline	NS	NS	U	U	25	5 ST
4,6-Dinitro-2-methylphenol	NS	NS	U	U	25	----
N-Nitrosodiphenylamine	NS	NS	U	U	10	50 GV
4-Bromophenyl-phenylether	NS	NS	U	U	10	----
Hexachlorobenzene	NS	NS	U	U	10	0.04 ST
Atrazine	NS	NS	U	U	10	7.5 ST
Pentachlorophenol	NS	NS	U	U	25	1 ST*
Phenanthrene	NS	NS	U	U	10	50 GV
Anthracene	NS	NS	U	U	10	50 GV
Carbazole	NS	NS	U	U	10	----
Di-n-butylphthalate	NS	NS	U	U	10	50 ST
Fluoranthene	NS	NS	U	U	10	50 GV
Pyrene	NS	NS	U	U	10	50 GV
Butylbenzylphthalate	NS	NS	U	U	10	50 GV
3,3'-Dichlorobenzidine	NS	NS	U	U	10	5 ST
Benzo (a) anthracene	NS	NS	U	U	10	0.002 GV
Chrysene	NS	NS	U	U	10	0.002 GV
bis(2-Ethylhexyl)phthalate	NS	NS	1 J	U	10	5 ST
Di-octylphthalate	NS	NS	U	U	10	50 GV
Benzo(b)fluoranthene	NS	NS	U	U	10	0.002 GV
Benzo(k)fluoranthene	NS	NS	U	U	10	0.002 GV
Benzo(a)pyrene	NS	NS	U	U	10	ND ST
Indeno(1,2,3-cd)pyrene	NS	NS	U	U	10	0.002 GV
Dibenzo(a,h)anthracene	NS	NS	U	U	10	----
Benzo(g,h,i)perylene	NS	NS	U	U	10	----
Total PAHs	0	0	0	0		
Total Carcinogen PAHs	0	0	0	0		
Total SVOCs	0	0	1	0		
Total SVOC TICs	0	0	7	0		

QUALIFIERS:
 U: Compound analyzed for but not detected
 B: Compound found in the method blank as well as the sample
 J: Compound found at a concentration below the CRDL, value estimated

NOTES:
 *: Applies to Total Phenols
 **: Applies to the sum of Unchlorinated Phenols
 ***: Applies to the sum of Chlorinated Phenols
 ****: Indicates value exceeds standard or guidance value.
 NS: Not sampled, VOCs are contaminants of concerns at site.

TABLE 4C.
 AVM GOWANDA SITE
 PRE-DESIGN INVESTIGATION
 GROUNDWATER SAMPLE RESULTS - PERMANENT WELLS JUNE 2004
 PESTICIDE/PCBs

Sample Identification	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	Contract Required Detection Limit (ug/l)	NYSDEC Class GA Groundwater Standard or Guidance Value (ug/l)
	NS	NS	NS	06/16/04	NS	NS	NS	NS	NS	NS		
Date of Collection												
Dilution Factor				1.0								
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
alpha-BHC	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	0.05	0.01 ST
beta-BHC	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	0.05	0.04 ST
delta-BHC	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	0.05	0.04 ST
gamma-BHC (Lindane)	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	0.05	0.05 ST
Heptachlor	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	0.05	0.04 ST
Aldrin	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	0.05	ND ST
Heptachlor Epoxide	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	0.05	0.03 ST
Endosulfan I	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	0.05	----
Dieldrin	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	0.10	0.004 ST
4,4'-DDE	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	0.10	0.2 ST
Endrin	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	0.10	ND ST
Endosulfan II	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	0.10	----
4,4'-DDD	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	0.10	0.3 ST
4,4'-DDT	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	0.10	----
Endosulfan Sulfate	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	0.10	0.2 ST
4,4'-DDT	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	0.10	35 ST
Methoxychlor	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	0.50	5 ST
Endrin Ketone	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	0.10	5 ST
Endrin Aldehyde	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	0.05	0.05 ST
alpha-Chlordane	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	0.05	0.05 ST
gamma-Chlordane	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	5.0	0.06 ST
Toxaphene	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	1.0	0.09 ST*
Aroclor-1016	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	2.0	0.09 ST*
Aroclor-1221	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	1.0	0.09 ST*
Aroclor-1232	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	1.0	0.09 ST*
Aroclor-1242	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	1.0	0.09 ST*
Aroclor-1248	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	1.0	0.09 ST*
Aroclor-1254	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	1.0	0.09 ST*
Aroclor-1260	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	1.0	0.09 ST*
Total Pesticides	0	0	0	0	0	0	0	0	0	0		
Total PCBs	0	0	0	0	0	0	0	0	0	0		

NOTES:
 *: Applies to the sum of the isomers
 GV: Guidance Value
 ST: Standard
 ---: Not established
 Indicates value exceeds standard or guidance value.
 NS: Not sampled, VOCs are contaminants of concerns at site.

QUALIFIERS:
 U: Compound analyzed for but not detected
 B: Compound found in the method blank as well as the sample
 J: Compound found at a concentration below the CRDL, value estimated
 P: Greater than 25% difference for detected concentrations between the two GC columns
 D: Result is taken from reanalysis at a secondary dilution

TABLE 4c. (CONTINUED)
 AVM GOWANDA SITE
 PRE-DESIGN INVESTIGATION
 GROUNDWATER SAMPLE RESULTS - PERMANENT WELLS JUNE 2004
 PESTICIDE/PCBS

Sample Identification	MW-11	MW-12	TW-2	TW-3	Contract Required Detection Limit	NYSDEC Class GA Groundwater Standard or Guidance Value
Date of Collection	NS	NS	06/15/04	06/15/04	(ug/l)	(ug/l)
Dilution Factor			1.0	1.0		
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
alpha-BHC	NS	NS	U	U	0.05	0.01 ST
beta-BHC	NS	NS	U	U	0.05	0.04 ST
delta-BHC	NS	NS	U	U	0.05	0.04 ST
gamma-BHC (Lindane)	NS	NS	U	U	0.05	0.05 ST
Heptachlor	NS	NS	U	U	0.05	0.04 ST
Aldrin	NS	NS	U	U	0.05	ND ST
Heptachlor Epoxide	NS	NS	U	U	0.05	0.03 ST
Endosulfan I	NS	NS	U	U	0.05	----
Dieldrin	NS	NS	U	U	0.10	0.004 ST
4,4'-DDE	NS	NS	U	U	0.10	0.2 ST
Endrin	NS	NS	U	U	0.10	ND ST
Endosulfan II	NS	NS	U	U	0.10	----
4,4'-DDD	NS	NS	U	U	0.10	0.3 ST
Endosulfan Sulfate	NS	NS	U	U	0.10	----
4,4'-DDT	NS	NS	U	U	0.10	0.2 ST
Methoxychlor	NS	NS	U	U	0.50	35 ST
Endrin Ketone	NS	NS	U	U	0.10	5 ST
Endrin Aldehyde	NS	NS	U	U	0.10	5 ST
alpha-Chlordane	NS	NS	U	U	0.05	0.05 ST
gamma-Chlordane	NS	NS	U	U	0.05	0.05 ST
Toxaphene	NS	NS	U	U	5.0	0.06 ST
Aroclor-1016	NS	NS	U	U	1.0	0.09 ST *
Aroclor-1221	NS	NS	U	U	2.0	0.09 ST *
Aroclor-1232	NS	NS	U	U	1.0	0.09 ST *
Aroclor-1242	NS	NS	U	U	1.0	0.09 ST *
Aroclor-1248	NS	NS	U	U	1.0	0.09 ST *
Aroclor-1254	NS	NS	U	U	1.0	0.09 ST *
Aroclor-1260	NS	NS	U	U	1.0	0.09 ST *
Total Pesticides	0	0	0	0		
Total PCBs	0	0	0	0		

NOTES:
 QUALIFIERS:
 U: Compound analyzed for but not detected
 B: Compound found in the method blank as well as the sample
 J: Compound found at a concentration below the CRDL, value estimated
 P: Greater than 25% difference for detected concentrations between the two GC columns
 D: Result is taken from reanalysis at a secondary dilution

Contract Required Detection Limit (ug/l): []
 Indicates value exceeds standard or guidance value.
 NS: Not sampled, VOCs are contaminants of concerns at site.

TABLE 4d.
 AVM GOWANDA SITE
 PRE-DESIGN INVESTIGATION
 GROUNDWATER SAMPLE RESULTS - PERMANENT WELLS JUNE 2004
 INORGANIC PARAMETERS - UNFILTERED

Sample Identification	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	Instrument Detection Limit (ug/l)	NYSDEC Class GA Groundwater Standard or Guidance Value (ug/l)
	NS	NS	NS	06/16/04	NS	NS	NS	NS	NS	NS		
Date of Collection												
Dilution Factor				1.0								
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Aluminum	NS	NS	NS	697	NS	NS	NS	NS	NS	NS	6	---
Antimony	NS	NS	NS	3.2 B	NS	NS	NS	NS	NS	NS	3	3 ST
Arsenic	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	3	25 ST
Barium	NS	NS	NS	211	NS	NS	NS	NS	NS	NS	0.3	1,000 ST
Beryllium	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	0.3	3 GV
Cadmium	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	0.2	5 ST
Calcium	NS	NS	NS	100,000	NS	NS	NS	NS	NS	NS	74	---
Chromium	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	0.4	50 ST
Cobalt	NS	NS	NS	0.42 B	NS	NS	NS	NS	NS	NS	0.3	---
Copper	NS	NS	NS	17.3 B	NS	NS	NS	NS	NS	NS	0.9	200 ST
Iron	NS	NS	NS	3,170	NS	NS	NS	NS	NS	NS	3	300 ST ^
Lead	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	2	25 ST
Magnesium	NS	NS	NS	15,100	NS	NS	NS	NS	NS	NS	6	35,000 GV
Manganese	NS	NS	NS	591	NS	NS	NS	NS	NS	NS	0.5	300 ST ^
Mercury	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	0.1	0.7 ST
Nickel	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	0.5	100 ST
Potassium	NS	NS	NS	1,110 B	NS	NS	NS	NS	NS	NS	58	---
Selenium	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	4	10 ST
Silver	NS	NS	NS	4.6 B	NS	NS	NS	NS	NS	NS	2	50 ST
Sodium	NS	NS	NS	35,800	NS	NS	NS	NS	NS	NS	45	20,000 ST
Thallium	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	3	0.5 GV
Vanadium	NS	NS	NS	1.3 B	NS	NS	NS	NS	NS	NS	0.7	---
Zinc	NS	NS	NS	9.7 B	NS	NS	NS	NS	NS	NS	2	2,000 GV
Cyanide	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	3	200 ST

NOTES:
 ^: The combined standard for iron and manganese is 500 ug/l
 Indicates value exceeds NYSDEC Class GA groundwater standard or guidance value
 NS: Not sampled, VOCs are contaminants of concerns at site.

QUALIFIERS:
 U: Compound analyzed for but not detected
 B: Compound concentration is less than the CRDL but greater than the IDL.

TABLE 4d.
 AVM GOWANDA SITE
 PRE-DESIGN INVESTIGATION
 GROUNDWATER SAMPLE RESULTS - PERMANENT WELLS JUNE 2004
 INORGANIC PARAMETERS - UNFILTERED

Sample Identification	MW-11	MW-12	TW-2	TW-3	Instrument Detection Limit (ug/l)	NYSDEC Class GA Groundwater Standard or Guidance Value (ug/l)
	NS	NS	06/16/04 1.0	06/16/04 1.0		
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)		
Aluminum	NS	NS	829	96.3 B	6	----
Antimony	NS	NS	4.1 B	U	3	3 ST
Arsenic	NS	NS	4.7 B	U	3	25 ST
Barium	NS	NS	222	228	0.3	1,000 ST
Beryllium	NS	NS	U	U	0.3	3 GV
Cadmium	NS	NS	0.24 B	U	0.2	5 ST
Calcium	NS	NS	136,000	101,000	74	----
Chromium	NS	NS	U	U	0.4	50 ST
Cobalt	NS	NS	0.88 B	U	0.3	----
Copper	NS	NS	3.5 B	8.5 B	0.9	200 ST
Iron	NS	NS	13,300	9,770	3	300 ST ^
Lead	NS	NS	U	U	2	25 ST
Magnesium	NS	NS	19,600	12,400	6	35,000 GV
Manganese	NS	NS	3,210	1,390	0.5	300 ST ^
Mercury	NS	NS	U	U	0.1	0.7 ST
Nickel	NS	NS	4.7 B	U	0.5	100 ST
Potassium	NS	NS	2,190 B	1,820 B	58	----
Selenium	NS	NS	U	U	4	10 ST
Silver	NS	NS	8.5 B	5.1 B	2	50 ST
Sodium	NS	NS	70,400	50,800	45	20,000 ST
Thallium	NS	NS	U	U	3	0.5 GV
Vanadium	NS	NS	1.5 B	U	0.7	----
Zinc	NS	NS	19.1 B	11.3 B	2	2,000 GV
Cyanide	NS	NS	U	U	3	200 ST

QUALIFIERS:
 U: Compound analyzed for but not detected
 B: Compound concentration is less than the CRDL
 but greater than the IDL.

NOTES:
 ^: The combined standard for iron and manganese is 500 ug/l
 Indicates value exceeds NYSDEC Class GA groundwater standard
 or guidance value
 NS: Not sampled, VOCs are contaminants of concerns at site.

TABLE 5a.
AVM GOWANDA SITE
PRE-DESIGN INVESTIGATION
GROUNDWATER SAMPLE RESULTS - PUMP TEST JULY 2004
VOLATILE ORGANIC COMPOUNDS

Sample Identification	MW4 PT24 07/28/04	MW4 PT48 07/29/04	Contract Required Detection Limit	NYSDEC Class GA Groundwater Standard or Guidance Value
Dilution Factor	1.0	1.0	Limit	Guidance Value
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Dichlorodifluoromethane	U	U	10	5 ST
Chloromethane	U	U	10	5 ST
Vinyl Chloride	41	36	10	2 ST
Bromomethane	U	U	10	5 ST
Chloroethane	3 J	3 J	10	5 ST
Trichlorofluoromethane	U	U	10	5 ST
1,1-Dichloroethene	150	130	10	5 ST
1,1,2-trichloro-1,2,2-trifluoroethane	U	U	10	5 ST
Acetone	4 J	U	10	50GV
Carbon Disulfide	U	U	10	60GV
Methyl Acetate	U	U	10	5 ST
Methylene Chloride	2 J	U	10	5 ST
trans-1,2-dichloroethene	29	25	10	5 ST
Methyl tert-Butyl Ether	U	U	10	10GV
1,1-Dichloroethane	720 DJ	650 DJ	10	5 ST
cis-1,2-Dichloroethene	4800 D	4400 D	10	5 ST
2-Butanone	U	U	10	50GV
Chloroform	U	U	10	7 ST
1,1,1-Trichloroethane	4 J	2 J	10	5 ST
Cyclohexane	U	U	10	5 ST
Carbon Tetrachloride	U	U	10	1 ST
Benzene	U	U	10	0.6 ST
1,2-Dichloroethane	29000 DB	28000 DB	10	5 ST
Trichloroethene	U	U	10	5 ST
Methylcyclohexane	U	U	10	1 ST
1,2-Dichloropropane	U	U	10	50GV
Bromodichloromethane	U	U	10	0.4 ST*
cis-1,3-Dichloropropene	U	U	10	5 ST
4-Methyl-2-Pentanone	U	U	10	5 ST
Toluene	U	U	10	5 ST
Trans-1,3-Dichloropropene	U	U	10	0.4 ST*
1,1,2-Trichloroethane	U	U	10	1 ST
Tetrachloroethene	U	U	10	5 ST
2-Hexanone	U	U	10	50GV
Dibromochloromethane	U	U	10	50GV
1,2-Dibromoethane	U	U	10	5 ST
Chlorobenzene	U	U	10	5 ST
Ethylbenzene	U	U	10	5 ST
Total Xylenes	U	U	10	5 ST
Styrene	U	U	10	50GV
Bromoform	U	U	10	5 ST
Isopropylbenzene	U	U	10	5 ST
1,1,2,2-Tetrachloroethane	U	U	10	5 ST
1,3-Dichlorobenzene	U	U	10	3 ST
1,4-Dichlorobenzene	U	U	10	3 ST
1,2-Dichlorobenzene	U	U	10	3 ST
1,2-Dibromo-3-chloropropane	U	U	10	0.04 ST
1,2,4-Trichlorobenzene	U	U	10	5 ST
Total VOCs	34,753	33,246		
Total VOC TICs	0	0		

NOTES:
 *: Value pertains to the sum of the isomers
 GV: Guidance Value
 ST: Standard
 ---: Not established
 [] Indicates value exceeds standard or guidance value.

QUALIFIERS:
 U: Compound analyzed for but not detected
 J: Compound found at a concentration below the CRDL, value estimated
 D: Result is taken from reanalysis at a secondary dilution
 B: Compound detected in the method blank

TABLE 5b.
 AVM GOWANDA SITE
 PRE-DESIGN INVESTIGATION
 GROUNDWATER SAMPLE RESULTS - PUMP TEST JULY 2004
 SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	MW4 PT24	MW4 PT48	Contract Required Detection Limit (ug/L)	NYSDEC Class GA Groundwater Standard or Guidance Value (ug/l)
	07/28/04	07/29/04		
Date of Collection				
Dilution Factor	1.0	1.0		
Units	(ug/l)	(ug/l)		
Benzaldehyde	U	U	10	----
Phenol	U	U	10	1 ST*
bis(2-Chloroethyl)ether	U	U	10	1 ST
2-Chlorophenol	U	U	10	1 ST*
2-Methylphenol	U	U	10	1 ST*
2,2-Oxybis (1-Chloropropane)	U	U	10	----
Acetophenone	U	U	10	----
4-Methylphenol	U	U	10	1 ST*
N-Nitroso-di-n-propylamine	U	U	10	----
Hexachloroethane	U	U	10	5 ST
Nitrobenzene	U	U	10	0.4 ST
Isophorone	U	U	10	50 GV
2-Nitrophenol	U	U	10	----
2,4-Dimethylphenol	U	U	10	1 ST*
bis(2-Chloroethoxy)methane	U	U	10	5 ST
2,4-Dichlorophenol	U	U	10	1 ST*
Naphthalene	U	U	10	10 GV
4-Chloroaniline	U	U	10	5 ST
Hexachlorobutadiene	U	U	10	0.5 ST
Caprolactum	U	U	10	----
4-Chloro-3-methylphenol	U	U	10	----
2-Methylnaphthalene	U	U	10	----
Hexachlorocyclopentadiene	U	U	10	5 ST
2,4,6-Trichlorophenol	U	U	10	----
2,4,5-Trichlorophenol	U	U	25	----
1-1'-Biphenyl	U	U	10	5 ST
2-Chloronaphthalene	U	U	10	5 ST
2-Nitroaniline	U	U	25	5 ST
Dimethylphthalate	U	U	10	50 GV
2,6-Dinitrotoluene	U	U	10	5 ST
Acenaphthylene	U	U	10	----
3-Nitroaniline	U	U	25	5 ST
Acenaphthene	U	U	10	20 GV
2,4-Dinitrophenol	U	U	25	1 ST*
4-Nitrophenol	U	U	25	----
Dibenzofuran	U	U	10	----

TABLE 5b. (CONTINUED)
 AVM GOWANDA SITE
 PRE-DESIGN INVESTIGATION
 GROUNDWATER SAMPLE RESULTS - PUMP TEST JULY 2004
 SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	MW4 PT24	MW4 PT48	Contract Required Detection Limit (ug/l)	NYSDEC Class GA Groundwater Standard or Guidance Value (ug/l)
	7/28/04	7/29/04		
Date of Collection	7/28/04	7/29/04		
Dilution Factor	1.0	1.0		
Units	(ug/l)	(ug/l)		
2,4-Dinitrotoluene	U	U	10	5 ST
Diethylphthalate	U	U	10	50 GV
Fluorene	U	U	10	50 GV
4-Chlorophenyl-phenylether	U	U	10	----
4-Nitroaniline	U	U	25	5 ST
4,6-Dinitro-2-methylphenol	U	U	25	----
N-Nitrosodiphenylamine	U	U	10	50 GV
4-Bromophenyl-phenylether	U	U	10	----
Hexachlorobenzene	U	U	10	0.04 ST
Atrazine	U	U	10	7.5 ST
Pentachlorophenol	U	U	25	1 ST *
Phenanthrene	U	U	10	50 GV
Anthracene	U	U	10	50 GV
Carbazole	U	U	10	----
Di-n-butylphthalate	U	U	10	50 ST
Fluoranthene	U	U	10	50 GV
Pyrene	U	U	10	50 GV
Butylbenzylphthalate	U	U	10	50 GV
3,3'-Dichlorobenzidine	U	U	10	5 ST
Benzo (a) anthracene	U	U	10	0.002 GV
Chrysene	U	U	10	0.002 GV
bis(2-Ethylhexyl)phthalate	U*	U*	10	5 ST
Di-octylphthalate	U	U	10	50 GV
Benzo(b)fluoranthene	U	U	10	0.002 GV
Benzo(k)fluoranthene	U	U	10	0.002 GV
Benzo(a)pyrene	U	U	10	ND ST
Indeno(1,2,3-cd)pyrene	U	U	10	0.002 GV
Dibenzo(a,h)anthracene	U	U	10	----
Benzo(g,h,i)perylene	U	U	10	----
Total PAHs	0	0		
Total Carcinogen PAHs	0	0		
Total SVOCs	0	0		
Total SVOC TICs	0	0		

QUALIFIERS:
 U: Compound analyzed for but not detected
 U*: Result qualified as estimated based on validation criteria

NOTES:
 * : Applies to Total Phenols
 ** : Applies to the sum of Unchlorinated Phenols
 **** : Applies to the sum of Chlorinated Phenols
 [] Indicates value exceeds standard or guidance value.
 GV: Guidance Value
 ST: Standard

TABLE 5c.
 AVM GOWANDA SITE
 PRE-DESIGN INVESTIGATION
 GROUNDWATER SAMPLE RESULTS - PUMP TEST JULY 2004
 PESTICIDE/PCBS

Sample Identification	MW4 PT24	MW4 PT48	Contract Required Detection Limit (ug/l)	NYSDEC Class GA Groundwater Standard or Guidance Value (ug/l)
	07/28/04	07/29/04		
Date of Collection				
Dilution Factor	1.0	1.0		
Units	(ug/l)	(ug/l)		
alpha-BHC	U	U	0.05	0.01 ST
beta-BHC	U	U	0.05	0.04 ST
delta-BHC	U	U	0.05	0.04 ST
gamma-BHC (Lindane)	U	U	0.05	0.05 ST
Heptachlor	U	U	0.05	0.04 ST
Aldrin	U	U	0.05	ND ST
Heptachlor Epoxide	U	U	0.05	0.03 ST
Endosulfan I	U	U	0.05	----
Dieldrin	U	U	0.10	0.004 ST
4,4'-DDE	U	U	0.10	0.2 ST
Endrin	U	U	0.10	ND ST
Endosulfan II	U	U	0.10	----
4,4'-DDD	U	U	0.10	0.3 ST
Endosulfan Sulfate	U	U	0.10	----
4,4'-DDT	U	U	0.10	0.2 ST
Methoxychlor	U	U	0.50	35 ST
Endrin Ketone	U	U	0.10	5 ST
Endrin Aldehyde	U	U	0.10	5 ST
alpha-Chlordane	U	U	0.05	0.05 ST
gamma-Chlordane	U	U	0.05	0.05 ST
Toxaphene	U	U	5.0	0.06 ST
Aroclor-1016	U	U	1.0	0.09 ST *
Aroclor-1221	U	U	2.0	0.09 ST *
Aroclor-1232	U	U	1.0	0.09 ST *
Aroclor-1242	U	U	1.0	0.09 ST *
Aroclor-1248	U	U	1.0	0.09 ST *
Aroclor-1254	U	U	1.0	0.09 ST *
Aroclor-1260	U	U	1.0	0.09 ST *
Total Pesticides	0	0		
Total PCBs	0	0		

QUALIFIERS:

U: Compound analyzed for but not detected

B: Compound found in the method blank as well as the sample

NOTES:

*: Applies to the sum of the isomers

ST: Standard

----: Not established

Indicates value exceeds standard or guidance value.

TABLE 5d.
 AVM GOWANDA SITE
 PRE-DESIGN INVESTIGATION
 GROUNDWATER SAMPLE RESULTS - PUMP TEST JULY 2004
 INORGANIC PARAMETERS - UNFILTERED

Sample Identification	MW4 PT24	MW4 PT48	NYSDEC Class GA	
	Date of Collection	Date of Collection	Instrument	Groundwater
Dilution Factor	1.0	1.0	Detection Limit	Standard or Guidance Value
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Aluminum	U	U	6	---
Antimony	U	U	3	3 ST
Arsenic	2.1 B	U	3	25 ST
Barium	223	231	0.3	1,000 ST
Beryllium	U	U	0.3	3 GV
Cadmium	U	U	0.2	5 ST
Calcium	100,000	99,400	74	---
Chromium	U	U	0.4	50 ST
Cobalt	U	U	0.3	---
Copper	4.6 B	1.2 B	0.9	200 ST
Iron	9,100	8,850	3	300 ST ^
Lead	U	U	2	25 ST
Magnesium	15,500	15,400	6	35,000 GV
Manganese	623	591	0.5	300 ST ^
Mercury	U	U	0.1	0.7 ST
Nickel	U	U	0.5	100 ST
Potassium	1,190 B	1,220 B	58	---
Selenium	U	U	4	10 ST
Silver	3.8 B	3.9 B	2	50 ST
Sodium	36,800	37,900	45	20,000 ST
Thallium	U	U	3	0.5 GV
Vanadium	U	U	0.7	---
Zinc	7.7 B	2.8 B	2	2,000 GV
Cyanide	U	U	3	200 ST

QUALIFIERS:

U: Compound analyzed for but not detected
 B: Compound concentration is less than the CRDL
 but greater than the IDL.

NOTES:

^: The combined standard for iron and manganese is 500 ug/l
 Indicates value exceeds NYSDEC Class GA groundwater standard
 or guidance value

TABLE 6a.
 AVM GOWANDA SITE
 PRE-DESIGN INVESTIGATION
 GROUNDWATER SAMPLE RESULTS - JULY 2004
 INORGANIC PARAMETERS - UNFILTERED

Sample Identification	MW4 PT24	MW4 PT48	MW-7	MW-10	MW-11	TW-2	TW-3	Instrument Detection Limit (ug/l)	NYSDEC Class GA Groundwater Standard or Guidance Value (ug/l)
	07/28/04	07/29/04	07/29/04	07/29/04	07/29/04	07/29/04	07/29/04		
Date of Collection									
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)		
Barium	223	231	139 B	694	275	158 B	225	0.3	1,000 ST
Calcium	100,000	99,400	99,900	51,200	91,700	97,100	69,600	74	----
Iron	9,100	8,850	8,990	139,000	30,200	7,290	1,680	3	300 ST ^
Magnesium	15,500	15,400	19,100	33,100	14,700	20,000	7,900	6	35,000 GV
Manganese	623	591	1,110	3,600	2,100	2,730	810	0.5	300 ST ^
Potassium	1,190 B	1,220 B	3,280 B	9,920	3,480 B	6,530	2,450 B	58	----
Sodium	36,800	37,900	37,800	U	33,200	78,000	74,500	45	20,000 ST
Sample Identification	MW4 PT24	MW4 PT48	MW-7	MW-10	MW-11	TW-2	TW-3		
Date of Collection	07/28/04	07/29/04	07/29/04	07/29/04	07/29/04	07/29/04	07/29/04		
Units	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)		(mg/l)
Bromide	U	U	U	U	0.13	0.27	U	0.10	2
Chloride	42	39	56	17	16	66	51	2.0	250
Fluoride	U	U	U	U	U	0.26	U	0.25	1.5
Sulfate	36	33	41	19	29	86	38	5.0	250
Nitrate	U	U	1.9	2.7	0.14	0.069	U	1.0	10
Dissolved Organic Carbon	U	U	U	U	U	U	U	10	----
Total Organic Carbon	U	U	U	U	U	11	U	10	----
Alkalinity (CaCO3)	270	310	270	140	290	320	220	20	----
Total Dissolved Solids	430	430	440	230	360	560	380	10	----
Total Suspended Solids	19	21	240	1,600	130	150	11	10	----

QUALIFIERS:
 U: Compound analyzed for but not detected
 B: Compound concentration is less than the CRDL but greater than the IDL.
 NOTES:
 ---: Not established
 ^: The combined standard for iron and manganese is 500 ug/l
 Indicates value exceeds NYSDEC Class GA groundwater standard or guidance value

TABLE 7a.
AVM GOWANDA
SOIL SAMPLE RESULTS - JUNE 2004
VOLATILE ORGANIC COMPOUNDS
USEPA METHOD 8260

Sample Identification	TW1DRUMS	AVM-SC	Contract	NYSDEC
Date of Collection	06/04/04	06/16/04	Required	Recommended
Dilution Factor		1.0	Detection	Soil Clean-Up
Percent Moisture		18	Limit	Objective*
Units		(ug/kg)	(ug/kg)	(ug/kg)
Dichlorodifluoromethane	NA	U	10	----
Chloromethane	NA	U	10	----
Vinyl Chloride	NA	U	10	200
Bromomethane	NA	U	10	----
Chloroethane	NA	U	10	1,900
Trichlorofluoromethane	NA	U	10	----
1,1-Dichloroethene	NA	U	10	400
1,1,2-trichloro-1,2,2-trifluoroethane	NA	U	10	6,000
Acetone	NA	13	10	200
Carbon Disulfide	NA	2 J	10	2,700
Methyl Acetate	NA	U	10	----
Methylene Chloride	NA	4 BJ	10	100
trans-1,2-Dichloroethene	NA	U	10	----
Methyl tert-Butyl Ether	NA	U	10	----
1,1-Dichloroethane	NA	U	10	200
cis-1,2-Dichloroethene	NA	26	10	----
2-Butanone	NA	U	10	300
Chloroform	NA	U	10	300
1,1,1-Trichloroethane	NA	U	10	800
Cyclohexane	NA	8 J	10	----
Carbon Tetrachloride	NA	U	10	600
Benzene	NA	4 J	10	60
1,2-Dichloroethane	NA	U	10	100
Trichloroethene	NA	110	10	700
Methylcyclohexane	NA	9 J	10	----
1,2-Dichloropropane	NA	U	10	----
Bromodichloromethane	NA	U	10	----
cis-1,3-Dichloropropene	NA	U	10	----
4-Methyl-2-Pentanone	NA	U	10	1,000
Toluene	NA	15	10	1,500
Trans-1,3-Dichloropropene	NA	U	10	----
1,1,2-Trichloroethane	NA	U	10	----
Tetrachloroethene	NA	1 J	10	1,400
2-Hexanone	NA	U	10	----
Dibromochloromethane	NA	U	10	----
1,2-Dibromoethane	NA	U	10	----
Chlorobenzene	NA	U	10	1,700
Ethylbenzene	NA	2 J	10	5,500
Total Xylenes	NA	8 J	10	1,200
Styrene	NA	U	10	----
Bromoform	NA	5 J	10	----
Isopropylbenzene	NA	U	10	----
1,1,1,2-Tetrachloroethane	NA	U	10	600
1,3-Dichlorobenzene	NA	U	10	1,600
1,4-Dichlorobenzene	NA	U	10	8,500
1,2-Dichlorobenzene	NA	U	10	7,900
1,2-Dibromo-3-chloropropane	NA	U	10	----
1,2,4-Trichlorobenzene	NA	U	10	3,400
Total VOCs	NA	207		10,000
Total VOC TICs	NA	195		

QUALIFIERS:

U: Compound analyzed for but not detected

B: Compound found in the method blank as well as the sample

J: Compound found at a concentration below the CRDL, value estimated

NOTES:

*: NYSDEC TAGM 4046

NA: Not analyzed.

TABLE 7b.
AVM GOWANDA
SOIL SAMPLE RESULTS - JUNE 2004
VOLATILE ORGANIC COMPOUNDS
TOXICITY CHARACTERISTIC LEACHING PROCEDURE

Sample Identification	TW1DRUMS	AVM-SC	Contract Required Detection Limit	Toxicity Characteristic Regulatory Level*
Date of Collection	06/04/04	06/16/04		
Dilution Factor	1.0	1.0		
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Vinyl Chloride	U	U	5	200
1,1-Dichloroethene	U	U	5	700
2-Butanone	U	U	5	200,000
Chloroform	U	U	5	6,000
Carbon Tetrachloride	U	U	5	500
1,2-Dichloroethane	U	U	5	500
Benzene	U	U	5	500
Trichloroethene	U	9	5	500
Tetrachloroethene	1 BJ	U	5	700
Chlorobenzene	U	U	5	100,000
Total VOCs	1	9		

QUALIFIERS:

U: Compound analyzed for but not detected

B: Compound found in the method blank as well as the sample

J: Compound found at a concentration below the CRDL, value estimated

NOTES:

*: 40 CFR Part 261

TABLE 7c.
AVM GOWANDA
SOIL SAMPLE RESULTS - JUNE 2004
INORGANIC PARAMETERS
TOXICITY CHARACTERISTIC LEACHING PROCEDURE

Sample Identification	TW1DRUMS	AVM-SC	Instrument	Toxicity
Date of Collection	06/04/04	06/16/04	Detection	Characteristic
Dilution Factor	1.0	1.0	Limit	Regulatory
Units	(ug/l)	(ug/l)	(ug/l)	Level*
Arsenic	4.4 B	U	3	5,000
Barium	727	1,870 B	1	100,000
Cadmium	U	U	1	1,000
Chromium	72.1	U	1	5,000
Lead	U	45.6 B	2	5,000
Mercury	U	U	0.2	200
Selenium	U	U	4	1,000
Silver	82.5	137 B	1	5,000

QUALIFIERS:

U: Compound analyzed for but not detected

B: Compound concentration is less than the CRDL but greater than the IDL.

NOTES:

*: 40 CFR Part 261

TABLE 7d.
AVM GOWANDA
SOIL SAMPLE RESULTS - JUNE 2004
IGNITABILITY/REACTIVITY/PH/PAINT FILTER

Sample Identification	TW1DRUMS	AVM-SC	Instrument	Hazardous Characteristic Regulatory Level*
			Detection Limit	
Date of Collection	06/04/04	06/16/04		
Cyanide, reactive (mg/kg)	U	NA	3.5	
Flashpoint (deg F)	U	NA	200	<140 F
pH (SU)	12	NA	1	<2 or >12.5
Sulfides, reactive (mg/kg)	U	NA	3.5	
Free liquid (ml/100g)	14	NA	1	

QUALIFIERS:

U: Compound analyzed for but not detected

NOTES:

*: 40 CFR Part 261

NA: Not analyzed.