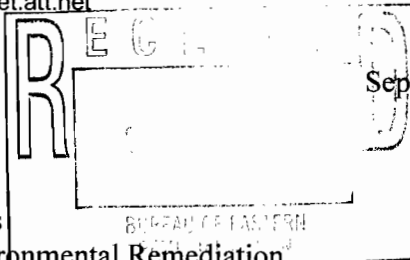
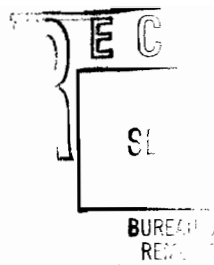




Dvirka and Bartilucci

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September 9, 2002

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Mr. Joseph Jones
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233-7010

Re: New Cassel Industrial Area
Off-site Groundwater Monitoring and Assessment Program
Work Assignment No. D003600-25
D&B No. 1898

Dear Mr. Jones:

Enclosed please find the groundwater results from the third round of sampling of the four early warning wells (EW-1B, EW-1C, EW-2B and EW-2C) and the eight new monitoring wells (MW-1 through MW-8) as part of the New Cassel Industrial Off-site Groundwater Monitoring and Assessment Program. The wells were sampled on April 24, April 25 and April 28, 2002. Figure 1 illustrates the locations of the wells. The groundwater sampling procedures, purge water parameter data, Data Usability Summary Report (DUSR) and analytical results are provided below.

Sampling Procedures

Each monitoring well was purged to remove the standing water inside the well prior to sample collection. A minimum of three casing volumes were removed to ensure that water being sampled was representative of the aquifer. The early warning wells were purged using dedicated submersible pumps and purging of the monitoring wells was accomplished using a decontaminated submersible pump. All purge water was discharged to the Nassau County sanitary sewer system with approval of the Nassau County Department of Public Works. For the monitoring wells, purging was accomplished by first measuring the static water level in the well and calculating the standing water volume. Water level measurements were collected using an electronic water level indicator. Water levels were not measured in the four early warning wells, since dedicated pumps are installed in these wells and the casings are not accessible. Depth to water was estimated at these locations based on water table elevation information in the study area.

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During the purging process, pH, specific conductivity, temperature, turbidity, dissolved oxygen and redox potential (eH) were monitored at regular intervals. When the values of all field parameters, except turbidity, had stabilized to within 10 percent for two successive readings, and the turbidity of the water was less than 50 Nephelometric Turbidity Units (NTUs), and a minimum of three casing volumes had been removed, well purging was considered complete. Results for the parameters monitored during purging are summarized in Table 1. Measurements of the parameters collected immediately prior to sampling are shown on the Sample Information Records included as Attachment A.

After purging, groundwater samples were collected from the dedicated discharge tubing. Samples were collected at a maximum flow rate of approximately 1 gallon per minute. Samples for volatile organic compound (VOC) analyses were collected first, followed by the remaining parameters. Filled sample bottles were immediately placed into an ice-filled cooler for shipment under chain of custody procedures to Southwest Laboratory of Oklahoma, Inc. Samples were shipped to arrive at the laboratory within 48 hours after collection.

Appropriate quality assurance/quality control (QA/QC) samples, including matrix spike, matrix spike duplicate and trip blank samples, were collected in conformance with the approved work plan.

Decontamination of the submersible pump used for purging the eight monitoring wells was performed in accordance with procedures described in the approved QA/QC Plan.

Data Usability Summary Report

Twelve groundwater samples were collected in April 2002 during the third round of sampling for the Groundwater Monitoring and Assessment Program. The samples were analyzed by Southwest Laboratory of Oklahoma, a laboratory contractor to the New York State Department of Environmental Conservation (NYSDEC). The samples were analyzed in accordance with the specified methods and NYSDEC Analytical Services Protocol (ASP) Quality Assurance/ Quality Control (QA/QC) requirements.

The data packages submitted by Southwest have been validated by Nancy Potak; a NYSDEC-approved data validator and subcontractor to Dvirka and Bartilucci Consulting Engineers. Validation was performed in accordance with NYSDEC ASP requirements. The findings of the validation process have been summarized below and copies of the validation reports prepared by Nancy Potak are available upon request.

Samples were analyzed within the method specified holding times based upon Validated Time of Sample Receipt (VTSR) with the exception of several reanalyses at secondary dilutions. The exceedance in holding times did not effect the end use of the data. All QA/QC requirements (i.e., initial and continuing calibrations, surrogate recoveries, spike recoveries, blanks) were met.

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Several of the samples required reanalysis of the volatile fraction at further dilutions due to compound concentrations exceeding the instrument calibration range. The results for these compounds were taken from the diluted run and have been flagged with a "D" on the data summary table.

The tetrachloroethene result for sample MW-4 has been qualified as highly estimated biased low. The initial analysis had tetrachloroethene reported at 130 ug/l; however, the reanalysis at a 1:50 dilution yielded a concentration of 38 ug/l.

No other problems were found with the data packages and all results have been deemed valid and usable for environmental assessment purposes as qualified above.

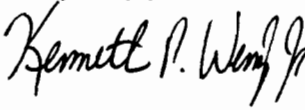
Analytical Results

The analytical results for the four early warning wells and the eight monitoring wells are summarized in Table 2 (VOCs) and Table 3 (inorganic parameters). The results are compared to previous sample results (Rounds 1 and 2) and the NYSDEC Class GA Groundwater Standards and Guidance Values. A complete copy of the laboratory data package is enclosed for your files.

The fourth round of sampling is tentatively scheduled for the end of July, 2002.

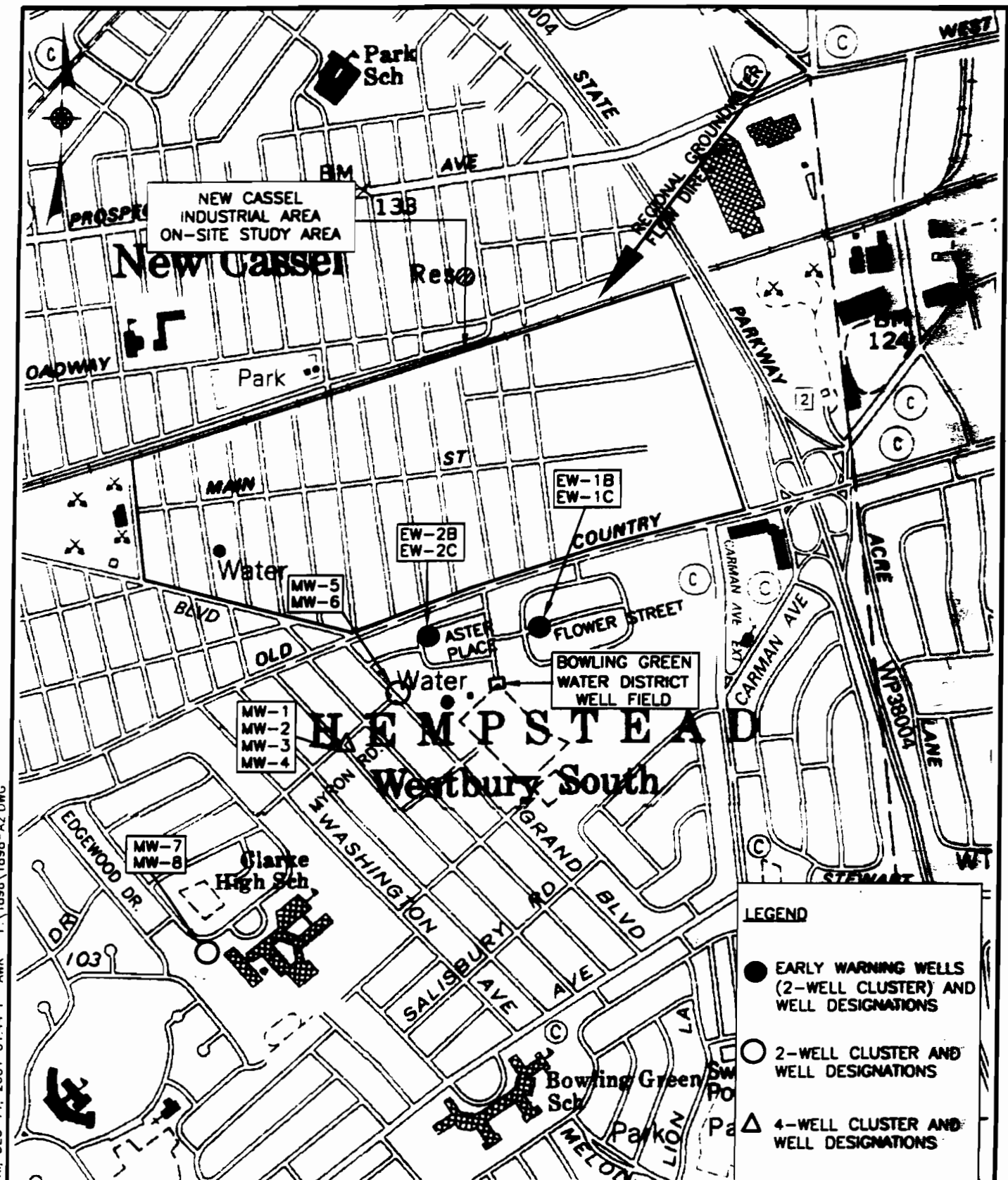
If you have any questions or require additional information, please contact me at (516) 364-9890.

Very truly yours,


for Keith S. Robins

KSR/jmy
Enclosures
♦1898\KSR02LTR-12.DOC

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NEW CASSEL INDUSTRIAL AREA
OFF-SITE GROUNDWATER MONITORING AND ASSESSMENT PROGRAM

EARLY WARNING WELL AND NEW MONITORING WELL LOCATIONS



Dvirka and Bartilucci
Consulting Engineers
A Division of William F. Cosulich Associates, P.C.

FIGURE 1

Table 1

**NEW CASSEL INDUSTRIAL AREA
OFF-SITE GROUNDWATER MONITORING AND ASSESSMENT PROGRAM
SUMMARY OF PURGE WATER PARAMETER DATA
ROUND 3**

Well Number	Gallons	pH (standard units)	Temperature (C°)	Specific Conductivity (ms/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	EH (mv)
EW-1B	Initial	5.58	15.8	0.379	9	4.06	249
	20	5.92	15.7	0.275	2	3.59	201
	40	5.71	15.5	0.271	64	2.87	193
	60	5.38	15.7	0.269	2	3.21	209
	80	5.33	15.5	0.267	16	3.30	217
	100	5.30	15.3	0.267	6	3.01	220
EW-1C	Initial	7.80	15.4	0.153	6	3.70	141
	150	7.38	13.7	0.130	8	3.72	110
	450	5.54	13.2	0.136	24	7.53	201
	750	5.50	13.0	0.132	3	7.20	209
	1,050	5.64	12.5	0.128	1	7.75	190
	1,200	5.65	12.5	0.128	2	7.76	190
	1,350	5.63	12.4	0.127	2	7.78	191
	1,500	5.61	12.5	0.127	2	7.80	194
EW-2B	Initial	5.46	15.3	0.209	5	3.51	252
	20	6.00	15.6	0.207	7	2.80	170
	40	5.70	15.4	0.205	8	2.90	179
	60	5.14	15.7	0.206	8	2.75	248
	80	5.20	15.0	0.201	1	2.98	255
	100	5.14	15.4	0.206	1	2.93	255
	120	5.19	14.8	0.204	1	2.95	240
EW-2C	Initial	6.66	15.0	0.086	13	3.21	152
	200	6.89	14.0	0.083	13	3.21	145
	400	5.58	13.4	0.070	124	6.95	190
	600	5.54	13.2	0.070	64	7.00	195
	800	5.60	12.9	0.069	15	7.05	185
	1,000	5.63	12.8	0.068	16	7.05	181
	1,200	5.74	12.6	0.064	12	7.10	166
	1,400	5.72	12.7	0.063	10	7.12	167
	1,600	5.71	12.7	0.063	7	7.11	169
MW-1	Initial	5.54	16.0	0.229	7	4.30	233
	10	5.26	16.0	0.265	5	4.69	255
	20	5.22	16.8	0.278	6	4.70	258
	30	5.21	17.0	0.284	6	4.70	263
	40	5.24	16.8	0.294	8	4.68	263
	50	5.25	17.0	0.296	10	4.70	266
	60	5.24	16.8	0.298	10	4.69	268

Table 1 (continued)

**NEW CASSEL INDUSTRIAL AREA
OFF-SITE GROUNDWATER MONITORING AND ASSESSMENT PROGRAM
SUMMARY OF PURGE WATER PARAMETER DATA
ROUND 3**

Well Number	Gallons	pH (standard units)	Temperature (C°)	Specific Conductivity (ms/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	EH (mv)
MW-2	Initial	5.51	16.4	0.280	9	3.36	94
	10	5.52	16.7	0.293	14	4.44	115
	20	5.59	16.8	0.294	6	3.63	121
	30	5.50	16.7	0.294	1	3.88	133
	40	5.56	16.7	0.295	1	3.89	133
	50	5.59	16.7	0.296	3	3.70	133
	60	5.53	16.7	0.294	5	3.70	135
MW-3	Initial	4.70	15.7	0.118	1	3.36	121
	20	4.58	16.5	0.128	3	3.28	122
	40	4.82	16.6	0.182	13	3.83	112
	60	5.00	16.7	0.207	3	3.80	101
	80	5.09	16.7	0.230	9	3.43	100
	90	5.08	16.7	0.230	11	3.45	100
MW-4	Initial	4.21	15.0	0.312	4	6.01	381
	50	4.46	15.8	0.295	9	3.72	349
	100	4.64	16.1	0.295	3	3.40	328
	150	4.74	16.0	0.296	4	3.00	315
	200	4.79	16.0	0.296	4	2.97	308
	250	4.83	16.1	0.295	4	3.10	306
	300	4.84	16.3	0.295	5	3.11	305
	350	4.85	16.3	0.294	5	3.12	305
MW-5	Initial	4.98	13.8	0.149	6	7.57	292
	10	4.99	14.9	0.301	6	7.67	297
	20	5.14	15.7	0.337	6	7.43	289
	30	5.21	14.9	0.341	0	7.55	282
	40	5.30	14.9	0.346	1	7.60	256
	50	5.28	15.0	0.350	1	7.59	260
MW-6	Initial	5.03	12.9	0.519	21	4.32	283
	10	5.25	15.0	0.493	28	3.30	268
	20	5.39	15.2	0.497	8	3.05	256
	30	5.38	14.1	0.507	1	3.04	247
	40	5.38	15.4	0.495	1	3.05	249
	50	5.40	14.9	0.500	2	2.89	242
	60	5.38	15.0	0.497	1	2.90	243
	70	5.38	15.1	0.495	2	2.91	244
MW-7	Initial	5.65	14.5	0.186	6	6.71	283
	10	5.18	14.5	0.207	239	5.90	305
	20	5.05	14.5	0.208	30	6.05	316
	30	5.08	14.5	0.208	1	5.98	317
	50	5.10	14.5	0.206	6	6.11	322
	60	5.10	14.5	0.207	7	6.10	321

Table 1 (continued)

**NEW CASSEL INDUSTRIAL AREA
OFF-SITE GROUNDWATER MONITORING AND ASSESSMENT PROGRAM
SUMMARY OF PURGE WATER PARAMETER DATA
ROUND 3**

Well Number	Gallons	pH (standard units)	Temperature (C°)	Specific Conductivity (ms/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	EH (mv)
MW-8	Initial	5.85	14.5	0.261	4	4.24	23
	20	6.06	14.6	0.305	42	3.70	-15
	40	6.10	14.6	0.302	40	4.08	-11
	60	6.08	14.6	0.294	32	4.21	2
	80	6.09	14.6	0.289	24	4.08	8

Notes:

C° - Celsius

ms/cm - millisiemens/centimeter

NTU - Nephelometric Turbidity Unit

mv - millivolt

mg/l - milligram per liter

TABLE 2
NEW CASSEL INDUSTRIAL AREA
OFF-SITE GROUNDWATER MONITORING AND ASSESSMENT PROGRAM
MONITORING WELL SAMPLE RESULTS
VOLATILE ORGANIC COMPOUNDS

Sample Identification	EW-1B	EW-1B	EW-1B	EW-1C	EW-1C	EW-1C	Contract Required	NYSDEC Class GA
Sample Depth, ft	154-164	154-164	154-164	506-516	506-516	506-516	Detection	Groundwater
Date of Collection	09/25/01	01/28/02	04/25/02	09/25/01	01/28/02	04/25/02	Limit	Standard or
Dilution Factor	1.0	50.0	50.0	1.0	1.0	1.0		Guidance Value
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Dichlorodifluoromethane	U	U	U	U	U	U	0.5	5 ST
Chloromethane	U	U	U	U	U	U	0.5	5 ST
Vinyl Chloride	U	U	U	U	U	U	0.5	2 ST
Bromomethane	U	U	U	U	U	U	0.5	5 ST
Chloroethane	U	U	U	U	U	U	0.5	5 ST
Fluorotrichloromethane	U	U	U	U	U	U	0.5	5 ST
1,1-Dichloroethene	39	45	39	U	U	U	0.5	5 ST
Methylene Chloride	U	26	U	U	U	U	0.5	5 ST
trans-1,2-Dichloroethene	0.6	U	U	U	U	U	0.5	5 ST
1,1-Dichloroethane	3.8	U	10	U	U	U	0.5	5 ST
2,2-Dichloropropane**		U		U	U	U	0.5	5 ST
cis-1,2-Dichloroethene**	58 D	87	64 D	U	U	U	0.5	5 ST
Chloroform	U	U	0.3 J	U	U	U	0.5	7 ST
Bromochloromethane	U	U	U	U	U	U	0.5	5 ST
1,1,1-Trichloroethane	40	59	52 D	U	U	U	0.5	5 ST
1,1-Dichloropropene	U	U	U	U	U	U	0.5	5 ST
Carbon Tetrachloride	U	U	U	U	U	U	0.5	5 ST
1,2-Dichloroethane	U	U	U	U	U	U	0.5	0.6 ST
Trichloroethene	66 D	120	91 D	12	13	15	0.5	5 ST
1,2-Dichloropropane	U	U	U	U	U	U	0.5	1 ST
Bromodichloromethane	U	U	U	U	U	U	0.5	50GV
Dibromomethane	U	U	U	U	U	U	0.5	5 ST
cis-1,3-Dichloropropene	U	U	U	U	U	U	0.5	0.4 ST *
trans-1,3-Dichloropropene	U	U	U	U	U	U	0.5	0.4 ST *
1,1,2-Trichloroethane	U	U	U	U	U	U	0.5	1 ST
1,3-Dichloropropane	U	U	U	U	U	U	0.5	5 ST
Tetrachloroethene	630 D	1000	780 D	U	0.6	5	0.5	5 ST
Dibromochloromethane	U	U	U	U	U	U	0.5	50GV
Chlorobenzene	U	U	U	U	U	U	0.5	5 ST
1,1,1,2-Tetrachloroethane	U	U	U	U	U	U	0.5	5 ST
Bromoform	U	U	U	U	U	U	0.5	50GV
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	0.5	5 ST
1,2,3-Trichloropropane	U	U	U	U	U	U	0.5	0.04 ST
Bromobenzene	U	U	U	U	U	U	0.5	5 ST
1,3-Dichlorobenzene	1.1	U	U	U	U	U	0.5	3 ST
1,4-Dichlorobenzene	0.7	U	0.8	U	U	U	0.5	3 ST
1,2-Dichlorobenzene	U	U	U	U	U	U	0.5	3 ST
1,2,4-Trichlorobenzene	U	U	U	U	U	U	0.5	5 ST
Hexchlorobutadiene	U	U	U	U	U	U	0.5	0.5 ST
1,2,3-Trichlorobenzene	U	U	U	U	U	U	0.5	5 ST
Methyl-tert-butyl ether	U	U	U	U	U	U	0.5	----
Benzene	U	U	U	U	U	U	0.5	1 ST
Toluene	U	U	U	U	U	U	0.5	5 ST
Ethylbenzene	U	U	U	U	U	U	0.5	5 ST
m-Xylene	U	U	U	U	U	U	0.5	5 ST
p-Xylene	U	U	U	U	U	U	0.5	5 ST
o-Xylene	U	U	U	U	U	U	0.5	5 ST
Styrene	U	U	U	U	U	U	0.5	5 ST
Isopropylbenzene (Cumene)	U	U	U	U	U	U	0.5	5 ST
n-Propylbenzene	U	U	U	U	U	U	0.5	5 ST
1,3,5-Trimethylbenzene	U	U	U	U	U	U	0.5	5 ST
2-Chlorotoluene	U	U	U	U	U	U	0.5	5 ST
4-Chlorotoluene	U	U	U	U	U	U	0.5	5 ST
tert-Butylbenzene	U	U	U	U	U	U	0.5	5 ST
1,2,4-Trimethylbenzene	U	U	U	U	U	U	0.5	5 ST
sec-Butylbenzene	U	U	U	U	U	U	0.5	5 ST
p-Isopropyltoluene(p-Cymene)	U	U	U	U	U	U	0.5	5 ST
n-Butylbenzene	U	U	U	U	U	U	0.5	5 ST
Total VOCs	839.2	1337	1037	12.0	13.6	20		----

QUALIFIERS.

U: Compound analyzed for but not detected
J: Compound found at a concentration below the CRDL, value estimated
E: Compound concentration exceeds instrument calibration range, value estimated
D: Result taken from reanalysis at a secondary dilution

NOTES:

*: Value pertains to the sum of the isomers
**: Result reported as a sum of 2,2 -dichloropropane and cis-1,2-dichloroethene
ST: Standard
GV: Guidance Value
----: Not established
 Indicates value exceeds NYSDEC Class GA Groundwater Standard or guidance value

TABLE 2 (continued)
NEW CASSEL INDUSTRIAL AREA
OFF-SITE GROUNDWATER MONITORING AND ASSESSMENT PROGRAM
MONITORING WELL SAMPLE RESULTS
VOLATILE ORGANIC COMPOUNDS

Sample Identification	EW-2B	EW-2B	EW-2B	EW-2C	EW-2C	EW-2C	Contract Required Detection	NYSDEC Class GA Groundwater Standard or Guidance Value
Sample Depth, ft	132-142	132-142	132-142	504-514	504-514	504-514		
Date of Collection	09/25/01	01/28/02	04/25/02	09/25/01	01/28/02	04/25/02		
Dilution Factor	1.0	5.0	5.0	1.0	1.0	1.0	Limit	
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Dichlorodifluoromethane	U	U	U	U	U	U	0.5	5 ST
Chloromethane	U	U	U	U	U	U	0.5	5 ST
Vinyl Chloride	51 D	32	24	U	U	U	0.5	2 ST
Bromomethane	U	U	U	U	U	U	0.5	5 ST
Chloroethane	2.6	U	24	U	U	U	0.5	5 ST
Fluorotrichloromethane	0.6	U	U	U	U	U	0.5	5 ST
1,1-Dichloroethene	43 D	10	8	U	U	U	0.5	5 ST
Methylene Chloride	1.5	3 J	U	U	U	U	0.5	5 ST
trans-1,2-Dichloroethene	U	U	U	U	U	U	0.5	5 ST
1,1-Dichloroethane	150 D	24	9	U	U	U	0.5	5 ST
2,2-Dichloropropane**		U		U	U	U	0.5	5 ST
cis-1,2-Dichloroethene**	36	25	19	U	U	U	0.5	5 ST
Chloroform	U	U	U	U	U	U	0.5	7 ST
Bromochloromethane	U	U	U	U	U	U	0.5	5 ST
1,1,1-Trichloroethane	85 D	16	8	U	U	U	0.5	5 ST
1,1-Dichloropropene	U	U	U	U	U	U	0.5	5 ST
Carbon Tetrachloride	U	U	U	U	U	U	0.5	5 ST
1,2-Dichloroethane	0.7	U	0.5	U	U	U	0.5	0.6 ST
Trichloroethene	140 D	130	100 D	U	U	U	0.5	5 ST
1,2-Dichloropropane	U	U	U	U	U	U	0.5	1 ST
Bromodichloromethane	U	U	U	U	U	U	0.5	50GV
Dibromomethane	U	U	U	U	U	U	0.5	5 ST
cis-1,3-Dichloropropene	U	U	U	U	U	U	0.5	0.4 ST *
trans-1,3-Dichloropropene	U	U	U	U	U	U	0.5	0.4 ST *
1,1,2-Trichloroethane	U	U	U	U	U	U	0.5	1 ST
1,3-Dichloropropane	U	U	U	U	U	U	0.5	5 ST
Tetrachloroethene	20	21	17	U	U	U	0.5	5 ST
Dibromochloromethane	U	U	U	U	U	U	0.5	50GV
Chlorobenzene	1.3	U	U	U	U	U	0.5	5 ST
1,1,1,2-Tetrachloroethane	U	U	U	U	U	U	0.5	5 ST
Bromoform	U	U	U	U	U	U	0.5	50GV
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	0.5	5 ST
1,2,3-Trichloropropane	0.5	U	U	U	U	U	0.5	0.04 ST
Bromobenzene	U	U	U	U	U	U	0.5	5 ST
1,3-Dichlorobenzene	U	U	U	U	U	U	0.5	3 ST
1,4-Dichlorobenzene	U	U	U	U	U	U	0.5	3 ST
1,2-Dichlorobenzene	U	U	U	U	U	U	0.5	3 ST
1,2,4-Trichlorobenzene	U	U	U	U	U	U	0.5	5 ST
Hexchlorobutadiene	U	U	U	U	U	U	0.5	0.5 ST
1,2,3-Trichlorobenzene	U	U	U	U	U	U	0.5	5 ST
Methyl-tert-butyl ether	U	U	U	U	U	U	0.5	----
Benzene	U	U	U	U	U	U	0.5	1 ST
Toluene	U	U	U	U	U	U	0.5	5 ST
Ethylbenzene	U	U	U	U	U	U	0.5	5 ST
m-Xylene	U	U	U	U	U	U	0.5	5 ST
p-Xylene	U	U	U	U	U	U	0.5	5 ST
o-Xylene	U	U	U	U	U	U	0.5	5 ST
Styrene	U	U	U	U	U	U	0.5	5 ST
Isopropylbenzene (Cumene)	U	U	U	U	U	U	0.5	5 ST
n-Propylbenzene	U	U	U	U	U	U	0.5	5 ST
1,3,5-Trimethylbenzene	U	U	U	U	U	U	0.5	5 ST
2-Chlorotoluene	U	U	U	U	U	U	0.5	5 ST
4-Chlorotoluene	U	U	U	U	U	U	0.5	5 ST
tert-Butylbenzene	U	U	U	U	U	U	0.5	5 ST
1,2,4-Trimethylbenzene	U	U	U	U	U	U	0.5	5 ST
sec-Butylbenzene	U	U	U	U	U	U	0.5	5 ST
p-Isopropyltoluene(p-Cymene)	U	U	U	U	U	U	0.5	5 ST
n-Butylbenzene	U	U	U	U	U	U	0.5	5 ST
Total VOCs	U	U	209.5	0	0.0	0		----

QUALIFIERS:

U: Compound analyzed for but not detected
J: Compound found at a concentration below the CRDL, value estimated
E: Compound concentration exceeds instrument calibration range, value estimated
D: Result taken from reanalysis at a secondary dilution
B: Compound considered to be carryover

NOTES:

*: Value pertains to the sum of the isomers
**: Result reported as a sum of 2,2 -dichloropropane and cis-1,2-dichloroethene
ST: Standard
GV: Guidance Value
----: Not established
Indicates value exceeds NYSDEC Class GA Groundwater Standard
or guidance value

TABLE 2
NEW CASSEL INDUSTRIAL AREA
OFF-SITE GROUNDWATER MONITORING AND ASSESSMENT PROGRAM
MONITORING WELL SAMPLE RESULTS
VOLATILE ORGANIC COMPOUNDS

Sample Identification	MW-1	MW-1	MW-1	MW-2	MW-2	MW-2	Contract Required Detection Limit	NYSDEC Class GA Groundwater Standard or Guidance Value
Sample Depth, ft	90-110	90-110	90-110	110-130	110-130	110-130		
Date of Collection	11/02/01	01/24/02	04/25/02	11/02/01	01/24/02	04/24/02		
Dilution Factor	1.0	1.0	2.0	1.0	1.0	25.0		
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Dichlorodifluoromethane	U	U	U	U	U	U	0.5	5 ST
Chloromethane	U	U	U	U	U	U	0.5	5 ST
Vinyl Chloride	U	U	U	U	U	U	0.5	2 ST
Bromomethane	U	U	U	U	U	U	0.5	5 ST
Chloroethane	U	U	U	U	1	2	0.5	5 ST
Fluorotrichloromethane	U	U	U	U	U	U	0.5	5 ST
1,1-Dichloroethene	16	8	26	540 D	440 D	480 D	0.5	5 ST
Methylene Chloride	U	U	U	1.9	U	U	0.5	5 ST
trans-1,2-Dichloroethene	U	U	U	U	U	U	0.5	5 ST
1,1-Dichloroethane	2.8	2	5	140 D	140 D	140 D	0.5	5 ST
2,2-Dichloropropane**	U	U	U	U	U	U	0.5	5 ST
cis-1,2-Dichloroethene**	1.1	1	3	48 E	35	42 D	0.5	5 ST
Chloroform	0.5	U	U	5.2	2	4	0.5	7 ST
Bromochloromethane	U	U	U	U	U	U	0.5	5 ST
1,1,1-Trichloroethane	7.8	4	10 J	230 D	220 D	210 D	0.5	5 ST
1,1-Dichloropropene	U	U	U	U	U	U	0.5	5 ST
Carbon Tetrachloride	U	U	U	U	U	U	0.5	5 ST
1,2-Dichloroethane	U	U	U	2.2	U	2	0.5	0.6 ST
Trichloroethene	21	16	52 DJ	580 D	500 D	450 D	0.5	5 ST
1,2-Dichloropropane	U	U	U	U	U	U	0.5	1 ST
Bromodichloromethane	U	U	U	U	U	U	0.5	50GV
Dibromomethane	U	U	U	U	U	U	0.5	5 ST
cis-1,3-Dichloropropene	U	U	U	U	U	U	0.5	0.4 ST *
trans-1,3-Dichloropropene	U	U	U	U	U	U	0.5	0.4 ST *
1,1,2-Trichloroethane	U	U	U	1.5	2	U	0.5	1 ST
1,3-Dichloropropane	U	U	U	U	U	U	0.5	5 ST
Tetrachloroethene	4.1	3	9	49 JD	53 D	52 D	0.5	5 ST
Dibromochloromethane	U	U	U	U	U	U	0.5	50GV
Chlorobenzene	U	U	U	U	U	U	0.5	5 ST
1,1,1,2-Tetrachloroethane	U	U	U	U	U	U	0.5	5 ST
Bromoform	U	U	U	U	U	U	0.5	50GV
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	0.5	5 ST
1,2,3-Trichloropropane	U	U	U	U	U	U	0.5	0.04 ST
Bromobenzene	U	U	U	U	U	U	0.5	5 ST
1,3-Dichlorobenzene	U	U	U	U	U	U	0.5	3 ST
1,4-Dichlorobenzene	U	U	U	U	U	U	0.5	3 ST
1,2-Dichlorobenzene	U	U	U	U	U	U	0.5	3 ST
1,2,4-Trichlorobenzene	U	U	U	U	U	U	0.5	5 ST
Hexachlorobutadiene	U	U	U	U	U	U	0.5	0.5 ST
1,2,3-Trichlorobenzene	U	U	U	U	U	U	0.5	5 ST
Methyl-tert-butyl ether	U	U	U	U	U	U	0.5	---
Benzene	U	U	U	U	U	U	0.5	1 ST
Toluene	U	U	U	U	U	U	0.5	5 ST
Ethylbenzene	U	U	U	U	U	U	0.5	5 ST
m-Xylene	U	U	U	U	U	U	0.5	5 ST
p-Xylene	U	U	U	U	U	U	0.5	5 ST
o-Xylene	U	U	U	U	U	U	0.5	5 ST
Styrene	U	U	U	U	U	U	0.5	5 ST
Isopropylbenzene (Cumene)	U	U	U	U	U	U	0.5	5 ST
n-Propylbenzene	U	U	U	U	U	U	0.5	5 ST
1,3,5-Trimethylbenzene	U	U	U	U	U	U	0.5	5 ST
2-Chlorotoluene	U	U	U	U	U	U	0.5	5 ST
4-Chlorotoluene	U	U	U	U	U	U	0.5	5 ST
tert-Butylbenzene	U	U	U	U	U	U	0.5	5 ST
1,2,4-Trimethylbenzene	U	U	U	U	U	U	0.5	5 ST
sec-Butylbenzene	U	U	U	U	U	U	0.5	5 ST
p-Isopropyltoluene(p-Cymene)	U	U	U	U	U	U	0.5	5 ST
n-Butylbenzene	U	U	U	U	U	U	0.5	5 ST
Total VOCs	53.3	34	105.0	1598	1393.0	1382.0		---

QUALIFIERS:

U: Compound analyzed for but not detected
J: Compound found at a concentration below the CRDL, value estimated
E: Compound concentration exceeds instrument calibration range, value estimated
D: Result taken from reanalysis at a secondary dilution

NOTES:

*: Value pertains to the sum of the isomers
**: Result reported as a sum of 2,2-dichloropropane and cis-1,2-dichloroethene
ST: Standard
GV: Guidance Value
---: Not established
 Indicates value exceeds NYSDEC Class GA Groundwater Standard or Guidance Value

TABLE 2 (continued)
NEW CASSEL INDUSTRIAL AREA
OFF-SITE GROUNDWATER MONITORING AND ASSESSMENT PROGRAM
MONITORING WELL SAMPLE RESULTS
VOLATILE ORGANIC COMPOUNDS

Sample Identification	MW-3	MW-3	MW-3	MW-4	MW-4	MW-4	Contract	NYSDEC Class GA
Sample Depth, ft	130-150	130-150	130-150	180-200	180-200	180-200	Required	Groundwater
Date of Collection	11/02/01	01/24/02	04/24/02	11/02/01	01/24/02	04/24/02	Detection	Standard or
Dilution Factor	1.0	1.0	50.0	1.0	1.0	50.0	Limit	Guidance Value
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Dichlorodifluoromethane	U	U	U	U	U	U	0.5	5 ST
Chloromethane	U	U	U	U	U	U	0.5	5 ST
Vinyl Chloride	U	U	U	U	U	U	0.5	2 ST
Bromomethane	U	U	U	U	U	U	0.5	5 ST
Chloroethane	0.7	1	U	0.7	1	U	0.5	5 ST
Fluorotrichloromethane	U	U	U	U	U	U	0.5	5 ST
1,1-Dichloroethene	900 D	770 D	390 D	1100 D	750 D	530 D	0.5	5 ST
Methylene Chloride	7.1	U	50 D	8.8	U	55 D	0.5	5 ST
trans-1,2-Dichloroethene	0.5	U	U	0.8	U	U	0.5	5 ST
1,1-Dichloroethane	230 D	250 D	130 D	310 D	280 D	180 D	0.5	5 ST
2,2-Dichloropropane**	U	U	U	U	U	U	0.5	5 ST
cis-1,2-Dichloroethene**	54 E	40	25 D	82 E	64 D	43 D	0.5	5 ST
Chloroform	5.7	3	U	2.4	3	U	0.5	7 ST
Bromochloromethane	U	U	U	U	U	U	0.5	5 ST
1,1,1-Trichloroethane	350 D	350 D	160 D	350 D	280 D	180 D	0.5	5 ST
1,1-Dichloropropene	U	U	U	U	U	U	0.5	5 ST
Carbon Tetrachloride	U	U	U	U	U	U	0.5	5 ST
1,2-Dichloroethane	5.1	U	U	7	U	U	0.5	0.6 ST
Trichloroethene	1200 D	1000 D	480 D	1000 D	790 D	550 D	0.5	5 ST
1,2-Dichloropropane	U	U	U	U	U	U	0.5	1 ST
Bromodichloromethane	U	U	U	U	U	U	0.5	50GV
Dibromomethane	U	U	U	U	U	U	0.5	5 ST
cis-1,3-Dichloropropene	U	U	U	U	U	U	0.5	0.4 ST *
trans-1,3-Dichloropropene	U	U	U	U	U	U	0.5	0.4 ST *
1,1,2-Trichloroethane	2.1	2	U	3.6	3	U	0.5	1 ST
1,3-Dichloropropane	U	U	U	U	U	U	0.5	5 ST
Tetrachloroethene	67 E	74 D	28 D	150 D	130 D*	38 D*	0.5	5 ST
Dibromochloromethane	U	U	U	U	U	U	0.5	50GV
Chlorobenzene	U	U	U	U	U	U	0.5	5 ST
1,1,1,2-Tetrachloroethane	U	U	U	U	U	U	0.5	5 ST
Bromoform	U	U	U	U	U	U	0.5	50GV
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	0.5	5 ST
1,2,3-Trichloropropane	U	U	U	U	U	U	0.5	0.04 ST
Bromobenzene	U	U	U	U	U	U	0.5	5 ST
1,3-Dichlorobenzene	U	U	U	U	U	U	0.5	3 ST
1,4-Dichlorobenzene	U	U	U	U	U	U	0.5	3 ST
1,2-Dichlorobenzene	U	U	U	U	U	U	0.5	3 ST
1,2,4-Trichlorobenzene	U	U	U	U	U	U	0.5	5 ST
Hexachlorobutadiene	U	U	U	U	U	U	0.5	0.5 ST
1,2,3-Trichlorobenzene	U	U	U	U	U	U	0.5	5 ST
Methyl-tert-butyl ether	U	U	U	U	U	U	0.5	----
Benzene	U	U	U	U	U	U	0.5	1 ST
Toluene	U	U	U	U	U	U	0.5	5 ST
Ethylbenzene	U	U	U	U	U	U	0.5	5 ST
m-Xylene	U	U	U	U	U	U	0.5	5 ST
p-Xylene	U	U	U	U	U	U	0.5	5 ST
o-Xylene	U	U	U	U	U	U	0.5	5 ST
Styrene	U	U	U	U	U	U	0.5	5 ST
Isopropylbenzene (Cumene)	U	U	U	U	U	U	0.5	5 ST
n-Propylbenzene	U	U	U	U	U	U	0.5	5 ST
1,3,5-Trimethylbenzene	U	U	U	U	U	U	0.5	5 ST
2-Chlorotoluene	U	U	U	U	U	U	0.5	5 ST
4-Chlorotoluene	U	U	U	U	U	U	0.5	5 ST
tert-Butylbenzene	U	U	U	U	U	U	0.5	5 ST
1,2,4-Trimethylbenzene	U	U	U	U	U	U	0.5	5 ST
sec-Butylbenzene	U	U	U	U	U	U	0.5	5 ST
p-Isopropyltoluene(p-Cymene)	U	U	U	U	U	U	0.5	5 ST
n-Butylbenzene	U	U	U	U	U	U	0.5	5 ST
Total VOCs	2822.2	2490	1273.0	3015	2301.0	1576.0		----

QUALIFIERS

U: Compound analyzed for but not detected
J: Compound found at a concentration below the CRDL, value estimated
E: Compound concentration exceeds instrument calibration range, value estimated
D: Result taken from reanalysis at a secondary dilution
B: Compound considered to be carryover
D*: Sample result highly estimated, based on validation criteria

NOTES:

+: Value pertains to the sum of the isomers
**: Result reported as a sum of 2,2-dichloropropane and cis-1,2-dichloroethene
GV: Guidance Value
----: Not established
 Indicates value exceeds NYSDEC Class GA Groundwater Standard

TABLE 2
NEW CASSEL INDUSTRIAL AREA
OFF-SITE GROUNDWATER MONITORING AND ASSESSMENT PROGRAM
MONITORING WELL SAMPLE RESULTS
VOLATILE ORGANIC COMPOUNDS

Sample Identification	MW-5	MW-5	MW-5	MW-6	MW-6	MW-6	Contract	NYSDEC Class GA
Sample Depth, ft	90-110	90-110	90-110	110-130	110-130	110-130	Required	Groundwater
Date of Collection	11/05/01	01/24/02	04/25/02	11/05/01	01/25/02	04/25/02	Detection	Standard or
Dilution Factor	1.0	1.0	1.0	1.0	1.0	10.0	Limit	Guidance Value
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Dichlorodifluoromethane	U	U	U	U	U	U	0.5	5 ST
Chloromethane	U	U	U	U	U	U	0.5	5 ST
Vinyl Chloride	U	U	U	U	U	U	0.5	2 ST
Bromomethane	U	U	U	U	U	U	0.5	5 ST
Chloroethane	U	U	U	U	U	U	0.5	5 ST
Fluorotrichloromethane	U	U	U	U	U	1	0.5	5 ST
1,1-Dichloroethene	11	10	3	270 D	72 D	100 D	0.5	5 ST
Methylene Chloride	U	U	U	1.3	U	U	0.5	5 ST
trans-1,2-Dichloroethene	U	U	U	U	U	U	0.5	5 ST
1,1-Dichloroethane	1.5	2	0.8	52 D	36	33	0.5	5 ST
2,2-Dichloropropane**	U	U	U		U		0.5	5 ST
cis-1,2-Dichloroethene**	U	0.5	1	22	13	9	0.5	5 ST
Chloroform	U	U	0.3	1.1	U	1	0.5	7 ST
Bromochloromethane	U	U	U	U	U	U	0.5	5 ST
1,1,1-Trichloroethane	15	15	4	240 D	89 D	96 D	0.5	5 ST
1,1-Dichloropropene	U	U	U	U	U	U	0.5	5 ST
Carbon Tetrachloride	U	U	U	U	U	U	0.5	5 ST
1,2-Dichloroethane	U	U	U	0.8	U	U	0.5	0.6 ST
Trichloroethene	2.5	2	2	93 D	54 D	43 D	0.5	5 ST
1,2-Dichloropropane	U	U	U	U	U	U	0.5	1 ST
Bromodichloromethane	U	U	U	U	U	U	0.5	50GV
Dibromomethane	U	U	U	U	U	U	0.5	5 ST
cis-1,3-Dichloropropene	U	U	U	U	U	U	0.5	0.4 ST *
trans-1,3-Dichloropropene	U	U	U	U	U	U	0.5	0.4 ST *
1,1,2-Trichloroethane	U	U	U	U	U	U	0.5	1 ST
1,3-Dichloropropane	U	U	U	U	U	U	0.5	5 ST
Tetrachloroethene	3.7	16	25	80 D	37 D	68 E	0.5	5 ST
Dibromochloromethane	U	U	U	U	U	U	0.5	50GV
Chlorobenzene	U	U	U	U	U	U	0.5	5 ST
1,1,1,2-Tetrachloroethane	U	U	U	U	U	U	0.5	5 ST
Bromoform	U	U	U	U	U	U	0.5	50GV
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	0.5	5 ST
1,2,3-Trichloropropane	U	U	U	U	U	U	0.5	0.04 ST
Bromobenzene	U	U	U	U	U	U	0.5	5 ST
1,3-Dichlorobenzene	U	U	U	U	U	U	0.5	3 ST
1,4-Dichlorobenzene	U	U	U	U	U	U	0.5	3 ST
1,2-Dichlorobenzene	U	U	U	U	U	U	0.5	3 ST
1,2,4-Trichlorobenzene	U	U	U	U	U	U	0.5	5 ST
Hexchlorobutadiene	U	U	U	U	U	U	0.5	0.5 ST
1,2,3-Trichlorobenzene	U	U	U	1 B	U	U	0.5	5 ST
Methyl-tert-butyl ether	U	U	U	U	U	U	0.5	----
Benzene	U	U	U	U	U	U	0.5	1 ST
Toluene	U	U	U	U	U	U	0.5	5 ST
Ethylbenzene	U	U	U	U	U	U	0.5	5 ST
m-Xylene	U	U	U	U	U	U	0.5	5 ST
p-Xylene	U	U	U	U	U	U	0.5	5 ST
o-Xylene	U	U	U	U	U	U	0.5	5 ST
Styrene	U	U	U	U	U	U	0.5	5 ST
Isopropylbenzene (Cumene)	U	U	U	U	U	U	0.5	5 ST
n-Propylbenzene	U	U	U	U	U	U	0.5	5 ST
1,3,5-Trimethylbenzene	U	U	U	U	U	U	0.5	5 ST
2-Chlorotoluene	U	U	U	U	U	U	0.5	5 ST
4-Chlorotoluene	U	U	U	U	U	U	0.5	5 ST
tert-Butylbenzene	U	U	U	U	U	U	0.5	5 ST
1,2,4-Trimethylbenzene	U	U	U	U	U	U	0.5	5 ST
sec-Butylbenzene	U	U	U	U	U	U	0.5	5 ST
p-Isopropyltoluene(p-Cymene)	U	U	U	U	U	U	0.5	5 ST
n-Butylbenzene	U	U	U	U	U	U	0.5	5 ST
Total VOCs	33.7	46	36.1	761	301.0	351.0		----

QUALIFIERS

U Compound analyzed for but not detected
J: Compound found at a concentration below the CRDL, value estimated
E: Compound concentration exceeds instrument calibration range, value estimated
D: Result taken from reanalysis at a secondary dilution

NOTES:

*: Value pertains to the sum of the isomers
**: Result reported as a sum of 2,2 -dichloropropane and cis-1,2-dichloroethene
ST: Standard
GV: Guidance Value
----: Not established
 Indicates value exceeds NYSDEC Class GA groundwater standard or guidance value

TABLE 2 (continued)
NEW CASSEL INDUSTRIAL AREA
OFF-SITE GROUNDWATER MONITORING AND ASSESSMENT PROGRAM
MONITORING WELL SAMPLE RESULTS
VOLATILE ORGANIC COMPOUNDS

Sample Identification	MW-7	MW-7	MW-7	MW-8	MW-8	MW-8	Contract	NYSDEC Class GA
Sample Depth, ft	90-110	90-110	90-110	120-140	120-140	120-140	Required	Groundwater
Date of Collection	11/05/01	01/25/02	04/24/02	11/05/01	01/25/02	04/24/02	Detection	Standard or
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	Limit	Guidance Value
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Dichlorodifluoromethane	U	U	U	U	U	U	0.5	5 ST
Chloromethane	U	U	U	U	U	U	0.5	5 ST
Vinyl Chloride	U	U	U	U	U	U	0.5	2 ST
Bromomethane	U	U	U	U	U	U	0.5	5 ST
Chloroethane	U	U	U	U	U	U	0.5	5 ST
Fluorotrichloromethane	U	U	U	U	U	U	0.5	5 ST
1,1-Dichloroethene	U	0.5	0.7	U	0.8	U	0.5	5 ST
Methylene Chloride	U	U	U	U	0.6	U	0.5	5 ST
trans-1,2-Dichloroethene	U	U	U	U	U	0.9	0.5	5 ST
1,1-Dichloroethane	0.7	1	1	1.3	2	2	0.5	5 ST
2,2-Dichloropropane**		U			U		0.5	5 ST
cis-1,2-Dichloroethene**	23	18	15	1.7	2	2	0.5	5 ST
Chloroform	U	U	U	U	U	U	0.5	7 ST
Bromochloromethane	U	U	U	U	U	U	0.5	5 ST
1,1,1-Trichloroethane	U	0.5	0.6	0.7	0.7	0.8	0.5	5 ST
1,1-Dichloropropene	U	U	U	U	U	U	0.5	5 ST
Carbon Tetrachloride	U	U	U	U	U	U	0.5	5 ST
1,2-Dichloroethane	U	U	U	U	U	U	0.5	0.6 ST
Trichloroethene	2	3	3	1.1	2	U*	0.5	5 ST
1,2-Dichloropropane	U	U	U	U	U	U	0.5	1 ST
Bromodichloromethane	U	U	U	U	U	U	0.5	50GV
Dibromomethane	U	U	U	U	U	U	0.5	5 ST
cis-1,3-Dichloropropene	U	U	U	U	U	U	0.5	0.4 ST *
trans-1,3-Dichloropropene	U	U	U	U	U	U	0.5	0.4 ST *
1,1,2-Trichloroethane	U	U	U	U	U	U	0.5	1 ST
1,3-Dichloropropane	U	U	U	U	U	U	0.5	5 ST
Tetrachloroethene	5.2	6	4	1.1	1	1	0.5	5 ST
Dibromochloromethane	U	U	U	U	U	U	0.5	50GV
Chlorobenzene	U	U	U	U	U	U	0.5	5 ST
1,1,1,2-Tetrachloroethane	U	U	U	U	U	U	0.5	5 ST
Bromoform	U	U	U	U	U	U	0.5	50GV
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	0.5	5 ST
1,2,3-Trichloropropane	U	U	U	U	U	U	0.5	0.04 ST
Bromobenzene	U	U	U	U	U	U	0.5	5 ST
1,3-Dichlorobenzene	U	U	U	U	U	U	0.5	3 ST
1,4-Dichlorobenzene	U	U	U	U	U	U	0.5	3 ST
1,2-Dichlorobenzene	U	U	U	U	U	U	0.5	3 ST
1,2,4-Trichlorobenzene	U	U	U	U	U	U	0.5	5 ST
Hexchlorobutadiene	U	U	U	U	U	U	0.5	0.5 ST
1,2,3-Trichlorobenzene	U	U	U	U	U	U	0.5	5 ST
Methyl-tert-butyl ether	U	U	U	U	U	U	0.5	----
Benzene	U	U	U	U	U	U	0.5	1 ST
Toluene	U	U	U	U	U	U	0.5	5 ST
Ethylbenzene	U	U	U	U	U	U	0.5	5 ST
m-Xylene	U	U	U	U	U	U	0.5	5 ST
p-Xylene	U	U	U	U	U	U	0.5	5 ST
o-Xylene	U	U	U	U	U	U	0.5	5 ST
Styrene	U	U	U	U	U	U	0.5	5 ST
Isopropylbenzene (Cumene)	U	U	U	U	U	U	0.5	5 ST
n-Propylbenzene	U	U	U	U	U	U	0.5	5 ST
1,3,5-Trimethylbenzene	U	U	U	U	U	U	0.5	5 ST
2-Chlorotoluene	U	U	U	U	U	U	0.5	5 ST
4-Chlorotoluene	U	U	U	U	U	U	0.5	5 ST
tert-Butylbenzene	U	U	U	U	U	U	0.5	5 ST
1,2,4-Trimethylbenzene	U	U	U	U	U	U	0.5	5 ST
sec-Butylbenzene	U	U	U	U	U	U	0.5	5 ST
p-Isopropyltoluene(p-Cymene)	U	U	U	U	U	U	0.5	5 ST
n-Butylbenzene	U	U	U	U	U	U	0.5	5 ST
Total VOCs	30.9	29	24.3	6	9.1	6.7		----

QUALIFIERS:

U: Compound analyzed for but not detected
J: Compound found at a concentration below the CRDL, value estimated
E: Compound concentration exceeds instrument calibration range, value estimated
D: Result taken from reanalysis at a secondary dilution
B: Compound considered to be carryover
U*: Result qualifies as non-detect based on validation criteria

NOTES:

*: Value pertains to the sum of the isomers
**: Result reported as a sum of 2,2- dichloropropane and cis-1,2-dichloroethene
ST: Standard
GV: Guidance Value
----: Not established
☒ Indicates value exceeds NYSDEC Class GA groundwater standard or guidance value

TABLE 3
NEW CASSEL INDUSTRIAL AREA
OFF-SITE GROUNDWATER MONITORING AND ASSESSMENT PROGRAM
MONITORING WELL SAMPLE RESULTS
INORGANIC PARAMETERS

Sample Identification	EW-1B	EW-1B	EW-1B	EW-1C	EW-1C	EW-1C	EW-2B	EW-2B	EW-2B	EW-2B	Contract Required Detection Limit	NYSDEC Class GA Groundwater Standard or Guidance Value
Sample Depth, ft	154-164	154-164	154-164	506-516	506-516	506-516	132-142	132-142	132-142	132-142		
Date of Collection	09/25/01	01/28/02	01/28/02	09/25/01	01/28/02	01/28/02	09/25/01	01/28/02	01/28/02	04/25/02		
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Units	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)		
Ferrous Iron*	U	0.445	U	0.157	U	0.248	U	U	U	U	0.05	0.3 ST**
	20.6	1.1	2	10.2	U	12	U	1.000	1.2	1.2	5	---
	26.9	18	20	9.81	10	13.6	15	14.0	14	14	10	---
	6.071	31.9	33.5	5.591	13.3	6	30.3	35.8	35.9	35.9	3	250 ST
	21.9	6.3	6	U	6	14	2.194	2.2	2.1	2.1	0.05	10 ST
Carbon Dioxide	79.8	23.5	23.1	72.9	2.3	1.4	17.1	12.400	9.7	9.7	5	250 ST
Methane	0.005	60	U	0.009	13	U	60.6	60	56	NA	NA	---
							0.11	12.4	0.004	J	0.002	---

Sample Identification	EW-2C	EW-2C	EW-2C	MW-1	MW-1	MW-1	MW-2	MW-2	MW-2	MW-2	Contract Required Detection Limit	NYSDEC Class GA Groundwater Standard or Guidance Value
Sample Depth, ft	504-514	504-514	504-514	90-110	90-110	90-110	110-130	110-130	110-130	110-130		
Date of Collection	09/25/01	01/28/02	01/28/02	01/28/02	01/28/02	04/24/02	11/02/01	01/24/02	01/24/02	04/24/02		
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Units	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)		
Ferrous Iron*	0.339	0.858	0.551	U	U	U	U	0.474	0.265	0.265	0.05	0.3 ST**
	10.6	1.4	10	4.100	1.9	11	22.0	3.5	2.7	2.7	5	---
	4.11	10.0	10	48.9	11	50	33.5	25.0	27	27	10	---
	1.773	7	6.8	26.000	4.1	4.5	6.813	37.5	37	37	3	250 ST
	U	1.9	1.9	78	27.3	66	20.900	6.7	7	7	0.05	10 ST
Carbon Dioxide	17.4	2.700	1.5	66.3	U	U	408	22.800	22.5	22.5	5	250 ST
Methane	0.007	13	10	0.004	U	U	0.013	62	62	U	NA	---
			0.074					U			0.002	---

QUALIFIERS:

U: Compound analyzed for but not detected

NA: Not Available

B: Concentration was above IDL but less than CRDL

NOTES:

ST: Standard

---: Not established

*: Sample analyzed for Total Iron instead of Ferrous Iron

** Standard applies to Total Iron

[]: Indicates value exceeds NYSDEC Class GA Groundwater Standard or Guidance Value

TABLE 3
NEW CASSEL INDUSTRIAL AREA
OFF-SITE GROUNDWATER MONITORING AND ASSESSMENT PROGRAM
MONITORING WELL SAMPLE RESULTS
INORGANIC PARAMETERS

Sample Identification	MW-3	MW-3	MW-3	MW-4	MW-4	MW-4	MW-5	MW-5	MW-5	Contract	NYSDEC Class GA
Sample Depth, ft	130-150	130-150	130-150	180-200	180-200	180-200	90-110	90-110	90-110	Required	Groundwater
Date of Collection	11/02/01	01/24/02	04/24/02	11/02/01	01/24/02	04/24/02	11/05/01	01/25/02	04/26/02	Detection	Standard or
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	Limit	Guidance Value
Units	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
Ferrous Iron*	U	7.58	5.03	U	0.5	U	U	0.518	U	0.05	0.3 ST**
Total Organic Carbon	5.505	4.3	2.7	6.309	2.800	2.9	U	4.100	1	5	---
Alkalinity	18.0	27	18	22.0	20.0	22	16.0	13.0	15	10	---
Chloride	36.0	39.9	35.7	45.7	47.4	46.8	43.6	53.1	62.7	3	250 ST
Nitrate	6.505	4.4	4.9	8.177	9.1	8.9	3.744	3.7	3.9	0.05	10 ST
Sulfate	21.100	12.4	17.2	U	2.000	2.3	29.200	25.700	26.6	5	250 ST
Carbon Dioxide	369	71	72	466	68	73	53.1	44	31	NA	---
Methane	1.2	0.097	0.11	0.013	U	U	0.009	U	U	0.002	---

Sample Identification	MW-6	MW-6	MW-6	MW-7	MW-7	MW-7	MW-8	MW-8	MW-8	Contract	NYSDEC Class GA
Sample Depth, ft	110-130	110-130	110-130	90-110	90-110	90-110	120-140	120-140	120-140	Required	Groundwater
Date of Collection	11/05/01	01/25/02	04/26/02	11/05/01	01/25/02	04/24/02	11/05/01	01/25/02	04/24/02	Detection	Standard or
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	Limit	Guidance Value
Units	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
Ferrous Iron*	U	U	0.0457 B	U	0.0693 B	U	U	10.7	18.2	0.05	0.3 ST**
Total Organic Carbon	U	4.4	2	U	3.400	1.1	12.2	6.9	4.4	5	---
Alkalinity	32.0	27.0	27	U	U	U	14.0	38.0	53	10	---
Chloride	117	102	99	18.8	21.8	21.5	22.9	26.1	25.9	3	250 ST
Nitrate	4.885	5.1	4.7	5.913	6	5.6	5.049	2.8	3.4	0.05	10 ST
Sulfate	29.100	30.900	26.4	31.000	33.800	28.4	32.700	27.900	22.8	5	250 ST
Carbon Dioxide	392	57	53	158	81	U	56.2	U	48	NA	---
Methane	0.007	U	U	0.007	U	U	0.007	U	0.22	0.002	---

QUALIFIERS:

U: Compound analyzed for but not detected

NA: Not Available

B: Concentration was above IDL but less than CRDL

NOTES:

ST: Standard

---: Not established

*: Sample analyzed for Total Iron instead of Ferrous Iron

**: Standard applies to Total Iron

 : Indicates Value exceeds NYSDEC Class GA Groundwater Standard or Guidance Value



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SAMPLE INFORMATION RECORD

SITE New Cassel Industrial Area SAMPLE CREW Keith Robins/Tim Milligan

SAMPLE LOCATION/WELL NO. NC MW-1 (110)

FIELD SAMPLE ID. NUMBER MW-1 DATE 4/24/02

TIME 1:30 pm WEATHER Sunny/clear TEMPERATURE 66° F

SAMPLE TYPE:

GROUNDWATER X SEDIMENT _____

SURFACE WATER/STREAM _____ AIR _____

SOIL _____ OTHER (Describe, i.e., septage, leachate) _____

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER 53.11 FT MEASUREMENT METHOD water level meter

DEPTH OF WELL 110 FT MEASUREMENT METHOD water level meter

VOLUME REMOVED 60 gallons REMOVAL METHOD 2 inch submersible pump

FIELD TEST RESULTS:

COLOR clear pH 5.24 ODOR none

TEMPERATURE (°C) 16.8 SPECIFIC CONDUCTANCE (µmhos/cm) 0.298 ms/cm

OTHER (OVA, Methane meter, etc.) _____ TURBIDITY (NTUs) 9.6

DO = 4.69 mg/l, Eh = 268(mV)

CONSTITUENTS SAMPLED:

VOCS, TOC Sulfate, CO₂ Ferrous Iron
methane, chloride Nitrate/nitrite chloride Alkalinity

REMARKS: Groundwater sample collected off discharge hose < 1 gpm.

WELL CASING VOLUMES

GAL/FT	1-1/4" = 0.977	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46



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SAMPLE INFORMATION RECORD

SITE New Cassel Industrial Area SAMPLE CREW Keith Robins / Jim Milligan

SAMPLE LOCATION/WELL NO. NC mw-2 (130)

FIELD SAMPLE ID. NUMBER MW-2 DATE 4/24/02

TIME 12:55 pm WEATHER Sunny / clear TEMPERATURE 60°

SAMPLE TYPE:

GROUNDWATER ☒ SEDIMENT ☐

SURFACE WATER/STREAM ☐ AIR ☐

SOIL ☐ OTHER (Describe, i.e., seepage, leachate) ☐

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER 53.18 FT MEASUREMENT METHOD Water level meter

DEPTH OF WELL 130 FT MEASUREMENT METHOD water level meter

VOLUME REMOVED 60 gallons REMOVAL METHOD 2 inch submersible pump

FIELD TEST RESULTS:

COLOR clear pH 5.53 ODOR none

TEMPERATURE (°C) 16.7 SPECIFIC CONDUCTANCE (umhos/cm) 0.294 ms/cm

OTHER (OVA, Methane meter, etc.) ☐ TURBIDITY (NTUs) 5

DO = 3.70 mg/l EH = 135 (mv)

CONSTITUENTS SAMPLED:

VOCs, TOC nitrate/nitrite Ferrous Iron
Alkalinity, CO₂ Sulfate, methane chloride

REMARKS:

Groundwater sample collected off discharge hose < 1 gpm

WELL CASING VOLUMES

GAL/FT	1-1/4" = 0.977	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46



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SAMPLE INFORMATION RECORD

SITE New Cassel Industrial Area SAMPLE CREW Keith Robins / Jim Milligan
SAMPLE LOCATION/WELLNO. Nc mw-3 (150')
FIELD SAMPLE ID. NUMBER MW-3 DATE 4/24/02
TIME 1150 am WEATHER Sunny/clear TEMPERATURE 60's

SAMPLE TYPE:

GROUNDWATER X SEDIMENT _____
SURFACE WATER/STREAM _____ AIR _____
SOIL _____ OTHER (Describe, i.e., seepage,
leachate) _____

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER 53.20 FT MEASUREMENT METHOD water level meter
DEPTH OF WELL 150.0 FT MEASUREMENT METHOD water level meter
VOLUME REMOVED 90 gallons REMOVAL METHOD 2 inch submersible pump

FIELD TEST RESULTS:

COLOR clear pH 5.08 ODOR none
TEMPERATURE (°C) 16.7° SPECIFIC CONDUCTANCE (umhos/cm) 0.230 ms/cm
OTHER (OVA, Methane meter, etc.) _____ TURBIDITY (NTUs) 10.5
Do = 3.45 mg/l, Eh = 100 mv

CONSTITUENTS SAMPLED:

VOCs, TDCs Nitrate/nitrite Ferrons Iron
Alkalinity, CO₂ sulfate, methane chloride

REMARKS: Groundwater sample collected off discharge hose < 1 gpm

WELL CASING VOLUMES

GAL/FT	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46

SAMPLE INFORMATION RECORD

SITE New Cassel Industrial Area SAMPLE CREW Keith Robins / Jim Mulligan
 SAMPLE LOCATION/WELL NO. NC MW-4 (200')
 FIELD SAMPLE ID. NUMBER MW-4 DATE 4/24/02
 TIME 1045 am WEATHER Sunny clear TEMPERATURE 60's

SAMPLE TYPE:

GROUNDWATER X SEDIMENT _____
 SURFACE WATER/STREAM _____ AIR _____
 SOIL _____ OTHER (Describe, i.e., seepage, leachate) _____

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER 53.51 FT MEASUREMENT METHOD water level meter
 DEPTH OF WELL 200 FT MEASUREMENT METHOD water level meter
 VOLUME REMOVED 350 gallons REMOVAL METHOD 2 inch submersible pump

FIELD TEST RESULTS:

COLOR clear pH 4.85 ODOR none
 TEMPERATURE (^{°C}) 16.3 SPECIFIC CONDUCTANCE (umhos/cm) 0.294 ms/cm
 OTHER (OVA, Methane meter, etc.) _____ TURBIDITY (NTUs) 4.9
Do = 3.12 mg/l, Eh = 304 (mv)

CONSTITUENTS SAMPLED:

VOCs, TOC Co2, methane Ferrous Iron
Alkalinity / Nitrate / Nitrite Sulfate Chloride

REMARKS:

Groundwater sample collected off discharge hose < 1 gpm
(Collect ms/MSD at location MW-4)

WELL CASTING VOLUMES

GAL/FT	1-1/4" = 0.077	2" = 0.14	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46



SAMPLE INFORMATION RECORD

SITE New Cassel Industrial Area SAMPLE CREW Keith Robins / Jim Mulligan
SAMPLE LOCATION/WELL NO. NC-MW-5 (110)
FIELD SAMPLE ID. NUMBER MW-5 DATE 4/26/02
TIME 10²⁰ am WEATHER Sunny, clear, cold TEMPERATURE Low 40's

SAMPLE TYPE:

GROUNDWATER X SEDIMENT _____
SURFACE WATER/STREAM _____ AIR _____
SOIL _____ OTHER (Describe, i.e., seepage, leachate) _____

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER 54.71 FT MEASUREMENT METHOD water level meter
DEPTH OF WELL 110 FT MEASUREMENT METHOD water level meter
VOLUME REMOVED 50 gallons REMOVAL METHOD 2 inch submersible pump

FIELD TEST RESULTS:

COLOR clear pH 5.28 ODOR none
TEMPERATURE (°F) 50 SPECIFIC CONDUCTANCE (umhos/cm) 0.350 ms/cm
OTHER (OVA, Methane meter, etc.) _____ TURBIDITY (NTUs) 0.8 ntus
Do = 7.59 mg/l, Eh = 260 (mv)

CONSTITUENTS SAMPLED:

VOCs, TOC, Alkalinity, sulfate Ferrous Iron
methane, Co₂ Nitrite/Nitrate Chloride

REMARKS: Groundwater sample collected off-discharge hose < 1 gpm

WELL CASING VOLUMES

GAL/FT	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46



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SAMPLE INFORMATION RECORD

SITE New Cassel Industrial Area SAMPLE CREW Keith Robins / Jim Milligan
SAMPLE LOCATION/WELL NO. NC MW-6 (130)
FIELD SAMPLE ID. NUMBER MW-6 DATE 4/26/02
TIME 9:50 am WEATHER Sunny / clear, cold TEMPERATURE Low 40's

SAMPLE TYPE:

GROUNDWATER X SEDIMENT _____
SURFACE WATER/STREAM _____ AIR _____
SOIL _____ OTHER (Describe, i.e., seepage, leachate) _____

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER 54.71 FT MEASUREMENT METHOD Water level meter
DEPTH OF WELL 130 FT MEASUREMENT METHOD water level meter
VOLUME REMOVED 70 gallons REMOVAL METHOD 2 inch submersible pump.

FIELD TEST RESULTS:

COLOR clear pH 5.38 ODOR none
TEMPERATURE (°F) 15.1 SPECIFIC CONDUCTANCE (microhm/cm) 0.495 ms/cm
OTHER (OVA, Methane meter, etc.) _____ TURBIDITY (NTUs) 1.3
DO = 2.91 mg/l, Eh = 244 (mv)

CONSTITUENTS SAMPLED:

VOCs, TOC Alkalinity, sulfate Ferrous Iron
Methane, Co₂ Nitrate/Nitrite Chloride

REMARKS: Groundwater sample collected off-discharge hose < 1 gpm

WELL CASING VOLUMES

GAL/FT	1-1/4" = 0.977	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46



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SAMPLE INFORMATION RECORD

SITE New Casse (Industrial Area) SAMPLE CREW Keith Roberts / Jim Milligan
SAMPLE LOCATION/WELL NO. NC MW-7 (110)
FIELD SAMPLE ID. NUMBER MW-7 DATE 4/24/02
TIME 2:40 PM WEATHER sunny / mild TEMPERATURE ~50's

SAMPLE TYPE:

GROUNDWATER X SEDIMENT _____
SURFACE WATER/STREAM _____ AIR _____
SOIL _____ OTHER (Describe, i.e., seepage,
leachate) _____

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER 47.30 FT MEASUREMENT METHOD water level meter
DEPTH OF WELL 110 FT MEASUREMENT METHOD water level meter
VOLUME REMOVED 60 gallons REMOVAL METHOD 2 inch submersible pump

FIELD TEST RESULTS:

COLOR clear pH 5-10 ODOR none
TEMPERATURE (°F) 145 SPECIFIC CONDUCTANCE (umhos/cm) 0.207 ms/cm
OTHER (OVA, Methane meter, etc.) _____ TURBIDITY (NTUs) 6.9 ntus
DO = 6-10 mg/l EH = 321 (mv)

CONSTITUENTS SAMPLED:

VOCs, TOC Sulfate, CO₂ Ferrous Iron
methane, chloride nitrate/nitrite Alkalinity

REMARKS: Groundwater sample collected off discharge hose < 1 gpm

WELL CASING VOLUMES

GAL/FT	1-1/4" = 0.977	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46

SAMPLE INFORMATION RECORD

SITE New Cassel Industrial Area SAMPLE CREW Keith Roberts / Jim milligan

SAMPLE LOCATION/WELL NO. NC-MW-8 (140)

FIELD SAMPLE ID. NUMBER MW-8 DATE 4/24/02

TIME 4:15 pm WEATHER Sunny - Partly cloudy TEMPERATURE ≈ 50°F

SAMPLE TYPE:

GROUNDWATER X SEDIMENT _____

SURFACE WATER/STREAM _____ AIR _____

SOIL _____ OTHER (Describe, i.e., seepage, leachate) _____

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER 47.47 Ft MEASUREMENT METHOD water level meter

DEPTH OF WELL 140 Ft MEASUREMENT METHOD water level meter

VOLUME REMOVED 80 gallons REMOVAL METHOD 2 inch submersible pump

FIELD TEST RESULTS:

COLOR clear pH 6.09 ODOR none

TEMPERATURE 14.6°C SPECIFIC CONDUCTANCE 0.289 ms/cm

OTHER (OVA, Methane meter, etc.) _____ TURBIDITY (NTUs) 23.8

Do = 4.08 mg/l, Eh = 8(mv)

CONSTITUENTS SAMPLED:

VOG, TOC Sulfate, Col Ferrous Iron
Methane, chloride Nitrate/nitrite Alkalinity

REMARKS: Groundwater sample collected off discharge hose < 1 gpm

WELL CASING VOLUMES

GAL/FT	1-1/4" = 0.877	2" = 0.46	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46



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SAMPLE INFORMATION RECORD

SITE New Cassel Industrial Area SAMPLE CREW Keith Robins / Jim milligan
SAMPLE LOCATION/WELL NO. NC-MW-EW-1B (164) (Flower)
FIELD SAMPLE ID. NUMBER EW-1B DATE 4/25/02
TIME 10⁰⁰ am WEATHER Sunny / LT showers TEMPERATURE 60°F

SAMPLE TYPE:

GROUNDWATER X SEDIMENT _____
SURFACE WATER/STREAM _____ AIR _____
SOIL _____ OTHER (Describe, i.e., seepage, leachate) _____

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER ≈ 45.77 FT MEASUREMENT METHOD LMS RI/FS Report Volume III
DEPTH OF WELL 164 FT MEASUREMENT METHOD LMS RI/FS Report Volume III
VOLUME REMOVED 100 gallons REMOVAL METHOD dedicated 2 inch pump

FIELD TEST RESULTS:

COLOR clear pH 5.30 ODOR none
TEMPERATURE 15.5°C SPECIFIC CONDUCTANCE (umhos/cm) 0.267 ms/cm
OTHER (OVA, Methane meter, etc.) _____ TURBIDITY (NTUs) 6 ntus
DO = 3.01 mg/l, Eh = 220 (mv)

CONSTITUENTS SAMPLED:

VOCs, TOC chloride, sulfate Ferrous Iron
Alkalinity Nitrate/nitrite CO₂, methane

REMARKS: Groundwater sample collected off discharge hose at < 1 gpm

WELL CASING VOLUMES

GAL/FT	1-1/4" = 0.977	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46



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SAMPLE INFORMATION RECORD

SITE New Cassel Industrial Area SAMPLE CREW Keith Robins/Jim Milligan
SAMPLE LOCATION/WELL NO. NC-MW-EW-2B(142) "ASTER"
FIELD SAMPLE ID. NUMBER EW-2B(142) DATE 4/25/02
TIME 12:15pm WEATHER Light Showers/rain TEMPERATURE ≈ 50°F

SAMPLE TYPE:

GROUNDWATER X SEDIMENT _____
SURFACE WATER/STREAM _____ AIR _____
SOIL _____ OTHER (Describe, i.e., seepage, leachate) _____

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER 46.7 FT MEASUREMENT METHOD LMS RI/FS Report Volume III
DEPTH OF WELL 142 FT MEASUREMENT METHOD LMS RI/FS Report Volume III
VOLUME REMOVED 120 gallons REMOVAL METHOD 2 inch dedicated submersible pump

FIELD TEST RESULTS:

COLOR Clear pH 5.19 ODOR none
TEMPERATURE (°F) 14.8°C SPECIFIC CONDUCTANCE (µmhos/cm) 0.204 ms/cm
OTHER (OVA, Methane meter, etc.) _____ TURBIDITY (NTUs) 0.1 NTU
DO = 2.95 mg/l, Eh = 240 mv

CONSTITUENTS SAMPLED:

VOCs, TOC, Sulfate, chloride, Ferrous Iron, Co2
Alkalinity, Nitrite/nitrate, methane

REMARKS: Groundwater sample collected from discharge hose at (less than) 1 GPM

WELL CASING VOLUMES

GAL/FT	1-1/4" = 0.977	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46



DVIRKA
AND
BARTILUCCI

SAMPLE INFORMATION RECORD

SITE NEW Cassel Industrial Area SAMPLE CREW Keith Robins / Jim Milligan
SAMPLE LOCATION/WELL NO. NC-MW-EW-1C (516) (Flower)
FIELD SAMPLE I.D. NUMBER EW-1C DATE 4/25/02
TIME 11:00 am WEATHER Sunny / LT showers TEMPERATURE ~ 60°F

SAMPLE TYPE:

GROUNDWATER X SEDIMENT _____
SURFACE WATER/STREAM _____ AIR _____
SOIL _____ OTHER (Describe, i.e., septage, leachate) _____

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER ~ 47.77 FT MEASUREMENT METHOD LMS RI/FS Report Volume III
DEPTH OF WELL 516 FT MEASUREMENT METHOD LMS RI/FS Report Volume III
VOLUME REMOVED 1,500 gallons REMOVAL METHOD dedicated 3 inch submersible pump

FIELD TEST RESULTS:

COLOR clear pH 5.61 ODOR none
TEMPERATURE (°F) 12.5°C SPECIFIC CONDUCTANCE (umhos/cm) 0.127 ms/cm
OTHER (OVA, Methane meter, etc.) _____ TURBIDITY (NTUs) 2.5 ntus
DO = 7.80 mg/l, Eh = 194 (mv)

CONSTITUENTS SAMPLED:

VOCs, TDC Chloride Sulfate, Ferrous Iron
Methane, CO2 Alkalinity Methane, Nitrite/nitrate

REMARKS: Groundwater sample collected from discharge hose at
approximately 1 GPM,

WELL CASING VOLUMES

GAL/FT	1-1/4" = 0.977	2" = 0.16	3" = 0.37
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50

4" = 0.65
6" = 1.44



DVIRKA
AND
BARTELUCCI

SAMPLE INFORMATION RECORD

SITE New Cassel Industrial Area SAMPLE CREW Keith Robins / Jim Milligan
SAMPLE LOCATION/WELL NO. NC-mw-EW-2C (514) "ASTER"
FIELD SAMPLE I.D. NUMBER EW-2C DATE 4/25/02
TIME 1:30 pm WEATHER Light Rain / Drizzle TEMPERATURE ~50 °F

SAMPLE TYPE:

GROUNDWATER ☒ SEDIMENT _____
SURFACE WATER/STREAM _____ AIR _____
SOIL _____ OTHER (Describe, i.e., septage, leachate) _____

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER ~ 45 FT MEASUREMENT METHOD Lms RI/FS Report Volume III
DEPTH OF WELL 514 FT MEASUREMENT METHOD Lms RI/FS Report Volume III
VOLUME REMOVED 2600 gallons REMOVAL METHOD dedicated 3-inch submersible pump

FIELD TEST RESULTS:

COLOR clear pH 5.71 ODOR none
TEMPERATURE (°F) 12.7 °C SPECIFIC CONDUCTANCE (µmhos/cm) 0.063 mS/cm
OTHER (OVA, Methane meter, etc.) _____ TURBIDITY (NTUs) 7 ntus
Do = 7.11 mg/l , Eh = 164 (mv)

CONSTITUENTS SAMPLED:

VOCs, TVC, Sulfate, Co2 Ferric Iron,
methane, chloride nitrate/nitrite Alkalinity

REMARKS: Groundwater sample collected from discharge hose at
approximately 1 GPM

WELL CASING VOLUMES

GAL/FT	1-1/4" = 0.977	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46