SUPPLEMENTAL GROUNDWATER INVESTIGATION REPORT
APRIL AND MAY 2007 GROUNDWATER INVESTIGATION

WORK ASSIGNMENT D004433-10

SCM CORTLANDVILLE SITE INVESTIGATION **SITE NO. 7-12-006**
CORTLANDVILLE (T), NY **CORTLAND (C), NY**

Prepared for:
NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
625 Broadway, Albany, New York

Alexander B. Grannis, Commissioner

DIVISION OF ENVIRONMENTAL REMEDIATION

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July 2007

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SITE #7-12-006

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77 GOODELL STREET

BUFFALO, NEW YORK 14203

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1.0 INTRODUCTION

This field investigation report summarizes field activities and presents the data collected as part of a 2007 supplemental groundwater investigation performed at the SCM Cortlandville OU#3 Site. The work has been conducted as part of Work Assignment (WA) # D004433-10.

1.1 Site Description and History

The SCM Cortlandville OU#3 Site is located at 839 Route 13 South in the Town of Cortlandville, Cortland County, New York. The site was formerly occupied by Smith Corona Marchant (SCM) and was used to manufacture typewriters. The site is currently used for commercial and retail activities. Properties immediately north and west of the site consist primarily of residential neighborhoods. Beginning in February 2006, a soil vapor intrusion investigation, which included soil vapor, indoor air and groundwater sampling, was conducted in these neighborhoods.

Previous investigations at the site indicate that the soils and groundwater at the site have been impacted by trichloroethene (TCE) and associated degradation products. The soil and groundwater contamination is the result of leaking underground storage tanks (USTs) and disposal practices at the site. A plume of TCE impacted groundwater extends from the site boundary to approximately 1.5 miles downgradient (northeast), and beneath portions of the adjacent residential areas. SCM implemented a groundwater extraction and treatment system starting in 1989 and continues to operate the system. This system extracts about 820 gallons per minute (gpm) of groundwater. The passively treated groundwater is returned to the aquifer through an onsite infiltration basin.

In March of 2006, six shallow well pairs (DEC-01S/D through DEC-06S/D) were installed in the vicinity of the former SCM Cortlandville facility as part of an extensive soil vapor intrusion investigation of the site. Groundwater quality data from the six shallow wells confirmed the presence of dissolved TCE and other chlorinated solvents in the groundwater north of the former SCM facility. In order to better characterize TCE contamination at the site, an additional 24 shallow monitoring wells (DEC-07 through DEC-30) were installed in August 2006. All 30 DEC wells and four SCM wells were sampled in September 2006. The results from

the sampling event were provided in the *Supplemental Groundwater Investigation Report* submitted to the NYSDEC in November 2006.

1.2 Site Geology

The site is located on a glacial aquifer system consisting of a thick outwash deposit that extends from the Valley Heads moraine, which is located southwest of the site, northeast throughout the City of Cortland and into the Tioughnioga River valley. In the vicinity of the site, an unconfined sand and gravel aquifer 80 to 110 feet thick overlies a lacustrine and glacial till unit 30 to 70 feet thick. The lacustrine and glacial till unit is underlain by a confined sand and gravel aquifer up to 80 feet thick. The two aquifers are connected in some places along the valley walls where the confining layer is absent.

The water table of the surficial aquifer is seasonally variable (by up to 10 feet) and is approximately 35 feet below ground surface (bgs) at the SCM site during the high recharge period (Spring) and 45 feet bgs at the site during the low recharge period (Fall). The depth to the water table becomes shallower downgradient (northeast) of the site and reflects the lower surface elevation of the ground surface.

2.0 FIELD INVESTIGATION ACTIVITIES

The field activities documented in this report consist of the following work tasks:

- Site visit to mark out well locations and notification of underground utility locators
- Installation and development of six new shallow groundwater monitoring wells
- Measurements of groundwater elevations in 51 area wells
- Sampling of the six new DEC wells, 30 existing DEC wells and five existing SCM wells, and
- Surveying the locations and elevations of the six new monitoring wells.

2.1 Monitoring Well Installations, Development, Measurements and Sampling

Monitoring Well Installations and Development

Six shallow monitoring wells (DEC-31 through DEC-36) were installed north of the former SCM facility in order to better define the concentrations of TCE and other chlorinated hydrocarbons in the shallow groundwater. These wells were installed to supplement groundwater data from six shallow monitoring well pairs (DEC-01S/D through DEC-06S/D), and twenty-four shallow monitoring wells (DEC-07 through DEC-30) that had been constructed and sampled in 2006.

Monitoring wells DEC-31 through DEC-36 were screened across the groundwater table. The monitoring wells were installed from April 12 through 26, 2007 by Nothnagle Drilling, Inc. from Scottsville, New York. Well locations are shown on Figure 2-1. All wells were installed using 4-¼ inch inner diameter (ID) hollow-stem auger (HSA) drilling methods. Two-foot long split-spoon samples were obtained continuously or at five-feet intervals. The samples were screened with a photoionization detector (PID) and logged by a URS geologist. All wells were constructed with two-inch outside diameter Schedule 40, PVC pipe with a 15-foot long screened interval. The slot size of the screen is 0.010 inches. The wells were packed with #00 sand to a depth of one to two feet above the screened interval. The remainder of the borehole was filled to the surface with bentonite chips and allowed to hydrate. The wells were completed with at-grade

curb boxes set in concrete. Final well depths ranged from 23 to 27 feet bgs. Monitoring well Boring Logs and Well Construction Diagrams are included in Appendix A.

All of the new wells were developed from April 30 through May 2, 2007 using a stainless steel bailer and a Whale submersible pump connected to dedicated and disposable high-density polyethylene (HDPE) tubing. The bailer and pump were cleaned between each well using Alconox detergent and distilled water. Development logs are included in Appendix B.

Groundwater Elevation Monitoring

Groundwater elevations were measured in the six newly installed wells on May 7, 2007. In addition, groundwater elevations were measured in the thirty-six existing DEC wells (DEC-01S/D through DEC-06S/D and DEC-07 through DEC -30) and nine existing wells on the former SCM property (MW-01S/D, MW-02S, MW-04S/D, MW-05S/D and MW-10S/D. Groundwater elevations are provided in Table 2-1.

Monitoring Well Sampling

Following completion of the drilling and well development, groundwater samples were collected from monitoring wells DEC 01S through DEC-06S, DEC-07 through DEC 30, and the six new wells DEC-31 through DEC-36. Five wells located on the SCM property and constructed in the 1990s were also sampled (MW-01S, MW-02S, MW-04S, MW-05S and MW-10). Groundwater sampling was conducted from May 8 through May 11, 2007.

The monitoring wells were purged using low-flow sampling techniques with a peristaltic pump or submersible Grundfos RediFlo2 pump, dedicated silicone and HDPE tubing. Groundwater quality parameters were measured with a Horiba U-22 water quality meter connected to a flow-through cell. The Grundfos pump and flow-through cell were cleaned between wells. Wells were purged until selected groundwater parameters stabilized. Sampling logs and Chain of Custody forms are included in Appendix C. All samples collected were analyzed for Target Compound List volatile organic compounds (VOCs), and Tentatively Identified Compounds (TICs) using EPA Method 8260B. Samples were placed on ice and picked up daily by a courier from Life Science Laboratories, Inc., East Syracuse, New York.

2.2 Site Survey and Mapping

Monitoring wells DEC-31 through DEC-36 were surveyed on July 18, 2007 by URS for horizontal and vertical location. Horizontal coordinates are based on the New York State Plane Coordinate System, North American Datum of 1983. Surveyed locations and elevations of the monitoring wells are provided in Table 2-2.

2.3 Investigation-Derived Waste Disposal

Investigation-derived waste (IDW) generated as part of this investigation included decontamination fluids, well development and purge water, drilling cuttings, personal protective equipment (PPE), and HDPE tubing. IDW was containerized in 55-gallon drums. The IDW was manifested as non-hazardous waste and disposed by Frank's Vacuum Truck Service, Inc. of Niagara Falls, New York. Waste Manifest forms are provided in Appendix D.

3.0 RESULTS OF THE INVESTIGATION

This section presents the results of the supplemental groundwater investigation of the SCM Cortlandville site conducted in April and May 2007.

3.1 Groundwater Elevation Contours

Groundwater elevation contours were calculated based on water levels measured in 51 area monitoring wells on May 7, 2007. Groundwater elevation contours are shown on Figure 3-1. Groundwater flow is generally towards the northwest, north and northeast of the SCM site.

3.2 Groundwater Analytical Results

Analytical results for groundwater samples collected from the 36 DEC wells and five SCM wells are presented in Table 3-1. Detected concentrations of 1,1,1-trichloroethane (1,1,1-TCA), 1,2-dichloroethene (1,2-DCE) and TCE are shown on Figure 3-2. Complete data validation summary tables can be found in the Data Usability Summary Report (DUSR), submitted under separate cover.

Analytical results show that concentrations of TCE, the most prevalent VOC detected in the groundwater samples, were detected in all of the sampled wells except DEC-6S, DEC-21 and DEC-22. TCE was detected above NYSDEC TOGS (1.1.1.) Groundwater Criteria of 5 µg/L in 14 wells. The highest concentration of TCE was 21.2 µg/L in DEC-09. Analytical results are similar to those reported from a sampling round conducted in September 2006. Concentrations of TCE were generally highest along an axis running from the intersection of Stupke Road and Lime Hollow Road and north-northwest through residential areas north of the SCM site.

3.3 Data Validation and Data Usability Summary Reports

The data packages were prepared by the laboratory in accordance with the NYSDEC's Analytical Services Protocol (ASP) Category B Deliverable requirements and reviewed for compliance with the applicable methods. Qualifications applied to the sample results included 'U' (undetected), 'J' (estimated value due to quality control outliers or concentration below the quantitation limit) and 'UJ' (estimated quantitation limit) following the guidelines presented in United States Environmental Protection Agency (USEPA) Region II *Contract Laboratory*

Program (CLP) Organic Data Review, SOP No. HW-6, Rev. 11, June 1996. A DUSR was prepared following the guidelines provided in NYSDEC Division of Environmental Remediation *Guidance for the Development of Data Usability Summary Reports*, dated 1999. The DUSR will be submitted in a separate report.

4.0 REFERENCE

URS Corporation (URS), 2006. Soil Vapor Intrusion Study, Field Sampling Plan.

TABLES

TABLE 2-1
GROUNDWATER ELEVATION MEASUREMENTS
SCM - CORTLANDVILLE

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
DEC-01D	937860.115	917064.253	1174.30	1174.12	1174.12	S	0						
MNW								8/15/2006 0000	5.77	1168.35	0.00	1,168.35	
MNW								8/24/2006 0000	6.54	1167.58	0.00	1,167.58	
MNW								9/11/2006 0000	7.40	1166.72	0.00	1,166.72	
MNW								5/7/2007 0000	5.68	1168.44	0.00	1,168.44	
DEC-01S	937859.642	917061.449	1174.36	1174.03	1174.03	S	0						
MNW								8/15/2006 0000	5.71	1168.32	0.00	1,168.32	
MNW								8/24/2006 0000	6.38	1167.65	0.00	1,167.65	
MNW								9/11/2006 0000	7.27	1166.76	0.00	1,166.76	
MNW								5/7/2007 0000	5.54	1168.49	0.00	1,168.49	
DEC-02D	937909.215	917753.056	1198.04	1197.75	1197.75	S	0						
MNW								8/15/2006 0000	29.84	1167.91	0.00	1,167.91	
MNW								8/24/2006 0000	30.79	1166.96	0.00	1,166.96	
MNW								9/11/2006 0000	31.57	1166.18	0.00	1,166.18	
MNW								3/21/2007 0000	30.57	1167.18	0.00	1,167.18	
MNW								5/7/2007 0000	29.52	1168.23	0.00	1,168.23	
DEC-02S	937907.162	917756.369	1198.57	1198.24	1198.24	S	0						
MNW								8/15/2006 0000	30.39	1167.85	0.00	1,167.85	
MNW								8/24/2006 0000	31.27	1166.97	0.00	1,166.97	
MNW								9/11/2006 0000	31.83	1166.41	0.00	1,166.41	
MNW								3/21/2007 0000	31.00	1167.24	0.00	1,167.24	
MNW								5/7/2007 0000	29.95	1168.29	0.00	1,168.29	
DEC-03D	938465.473	917083.912	1171.72	1171.52	1171.52	S	0						
MNW								8/15/2006 0000	5.56	1165.96	0.00	1,165.96	
MNW								8/24/2006 0000	6.31	1165.21	0.00	1,165.21	
MNW								9/11/2006 0000	6.85	1164.67	0.00	1,164.67	

NM - No Measurement

Geologic Zone:
S Shallow Aquifer

Type:
MNW Monitoring Well

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

TABLE 2-1
GROUNDWATER ELEVATION MEASUREMENTS
SCM - CORTLANDVILLE

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MNW								5/7/2007 0000	5.52	1166.00	0.00	1,166.00	
DEC-03S	938467.602	917080.864	1171.94	1171.64	1171.64	S	0						
MNW								8/15/2006 0000	5.76	1165.88	0.00	1,165.88	
MNW								8/24/2006 0000	6.49	1165.15	0.00	1,165.15	
MNW								9/11/2006 0000	7.07	1164.57	0.00	1,164.57	
MNW								5/7/2007 0000	6.69	1164.95	0.00	1,164.95	
DEC-04D	939109.969	917915.062	1182.04	1181.87	1181.87	S	0						
MNW								8/15/2006 0000	17.21	1164.66	0.00	1,164.66	
MNW								8/24/2006 0000	17.82	1164.05	0.00	1,164.05	
MNW								9/11/2006 0000	18.25	1163.62	0.00	1,163.62	
MNW								5/7/2007 0000	16.72	1165.15	0.00	1,165.15	
DEC-04S	939109.837	917911.104	1182.11	1181.92	1181.92	S	0						
MNW								8/15/2006 0000	17.21	1164.71	0.00	1,164.71	
MNW								8/24/2006 0000	17.83	1164.09	0.00	1,164.09	
MNW								9/11/2006 0000	18.24	1163.68	0.00	1,163.68	
MNW								3/21/2007 0000	17.00	1164.92	0.00	1,164.92	
MNW								5/7/2007 0000	16.75	1165.17	0.00	1,165.17	
DEC-05D	939062.281	917172.424	1172.45	1172.20	1172.20	S	0						
MNW								8/15/2006 0000	8.72	1163.48	0.00	1,163.48	
MNW								8/24/2006 0000	8.97	1163.23	0.00	1,163.23	
MNW								9/11/2006 0000	9.29	1162.91	0.00	1,162.91	
MNW								3/21/2007 0000	8.98	1163.22	0.00	1,163.22	
MNW								5/7/2007 0000	8.62	1163.58	0.00	1,163.58	
DEC-05S	939066.411	917172.962	1172.34	1172.08	1172.08	S	0						
MNW								8/15/2006 0000	12.14	1159.94	0.00	1,159.94	
MNW								8/24/2006 0000	8.82	1163.26	0.00	1,163.26	

NM - No Measurement

Geologic Zone:
S Shallow Aquifer

Type:
MNW Monitoring Well

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TABLE 2-1
GROUNDWATER ELEVATION MEASUREMENTS
SCM - CORTLANDVILLE

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MNW								9/11/2006 0000	9.15	1162.93	0.00	1,162.93	
MNW								3/21/2007 0000	8.82	1163.26	0.00	1,163.26	
MNW								5/7/2007 0000	8.46	1163.62	0.00	1,163.62	
DEC-06D	940913.662	919626.747	1168.95	1168.56	1168.56	S	0						
MNW								8/15/2006 0000	11.15	1157.41	0.00	1,157.41	
MNW								8/24/2006 0000	11.97	1156.59	0.00	1,156.59	
MNW								9/11/2006 0000	12.34	1156.22	0.00	1,156.22	
MNW								5/7/2007 0000	10.18	1158.38	0.00	1,158.38	
DEC-06S	940912.667	919622.798	1168.68	1168.37	1168.37	S	0						
MNW								8/15/2006 0000	10.99	1157.38	0.00	1,157.38	
MNW								8/24/2006 0000	11.83	1156.54	0.00	1,156.54	
MNW								9/11/2006 0000	12.21	1156.16	0.00	1,156.16	
MNW								5/7/2007 0000	10.77	1157.60	0.00	1,157.60	
DEC-07	939126.410	918240.830	1181.54	1181.54	1181.19	S	0						
MNW								8/15/2006 0000	15.41	1165.78	0.00	1,165.78	
MNW								8/24/2006 0000	17.28	1163.91	0.00	1,163.91	
MNW								9/11/2006 0000	17.90	1163.29	0.00	1,163.29	
MNW								5/7/2007 0000	16.42	1164.77	0.00	1,164.77	
DEC-08	939095.260	917598.230	1177.37	1177.37	1176.99	S	0						
MNW								8/15/2006 0000	12.21	1164.78	0.00	1,164.78	
MNW								8/24/2006 0000	12.95	1164.04	0.00	1,164.04	
MNW								9/11/2006 0000	13.41	1163.58	0.00	1,163.58	
MNW								3/21/2007 0000	12.44	1164.55	0.00	1,164.55	
MNW								5/7/2007 0000	12.03	1164.96	0.00	1,164.96	
DEC-09	939136.990	917348.300	1172.86	1172.86	1172.36	S	0						
MNW								8/15/2006 0000	9.02	1163.34	0.00	1,163.34	

NM - No Measurement

Geologic Zone:
S Shallow Aquifer

Type:
MNW Monitoring Well

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TABLE 2-1
GROUNDWATER ELEVATION MEASUREMENTS
SCM - CORTLANDVILLE

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MNW								8/24/2006 0000	8.43	1163.93	0.00	1,163.93	
MNW								9/11/2006 0000	9.72	1162.64	0.00	1,162.64	
MNW								3/21/2007 0000	9.32	1163.04	0.00	1,163.04	
MNW								5/7/2007 0000	9.02	1163.34	0.00	1,163.34	
DEC-10	938918.700	917153.110	1172.32	1172.32	1171.91	S	0						
MNW								8/15/2006 0000	7.80	1164.11	0.00	1,164.11	
MNW								8/24/2006 0000	8.32	1163.59	0.00	1,163.59	
MNW								9/11/2006 0000	8.70	1163.21	0.00	1,163.21	
MNW								3/21/2007 0000	8.36	1163.55	0.00	1,163.55	
MNW								5/7/2007 0000	7.87	1164.04	0.00	1,164.04	
DEC-11	938832.680	917233.810	1174.22	1174.22	1173.82	S	0						
MNW								8/15/2006 0000	9.06	1164.76	0.00	1,164.76	
MNW								8/24/2006 0000	9.64	1164.18	0.00	1,164.18	
MNW								9/11/2006 0000	10.06	1163.76	0.00	1,163.76	
MNW								3/21/2007 0000	9.60	1164.22	0.00	1,164.22	
MNW								5/7/2007 0000	9.04	1164.78	0.00	1,164.78	
DEC-12	938838.460	917592.700	1180.52	1180.52	1180.05	S	0						
MNW								8/15/2006 0000	14.42	1165.63	0.00	1,165.63	
MNW								8/24/2006 0000	15.23	1164.82	0.00	1,164.82	
MNW								9/11/2006 0000	15.76	1164.29	0.00	1,164.29	
MNW								3/21/2007 0000	14.92	1165.13	0.00	1,165.13	
MNW								5/7/2007 0000	14.31	1165.74	0.00	1,165.74	
DEC-13	938633.750	917807.940	1186.12	1186.12	1185.68	S	0						
MNW								8/15/2006 0000	19.56	1166.12	0.00	1,166.12	
MNW								8/24/2006 0000	20.41	1165.27	0.00	1,165.27	
MNW								9/11/2006 0000	20.98	1164.70	0.00	1,164.70	
MNW								3/21/2007 0000	20.05	1165.63	0.00	1,165.63	

NM - No Measurement

Geologic Zone:
S Shallow Aquifer

Type:
MNW Monitoring Well

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

TABLE 2-1
GROUNDWATER ELEVATION MEASUREMENTS
SCM - CORTLANDVILLE

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MNW								5/7/2007 0000	19.38	1166.30	0.00	1,166.30	
DEC-14	938644.020	917998.960	1184.89	1184.89	1184.50	S	0						
MNW								8/15/2006 0000	18.22	1166.28	0.00	1,166.28	
MNW								8/24/2006 0000	19.11	1165.39	0.00	1,165.39	
MNW								9/11/2006 0000	19.68	1164.82	0.00	1,164.82	
MNW								5/7/2007 0000	18	1166.50	0.00	1,166.50	
DEC-15	938320.730	917844.550	1186.54	1186.54	1186.03	S	0						
MNW								8/15/2006 0000	19.23	1166.80	0.00	1,166.80	
MNW								8/24/2006 0000	20.18	1165.85	0.00	1,165.85	
MNW								9/11/2006 0000	20.81	1165.22	0.00	1,165.22	
MNW								5/7/2007 0000	18.98	1167.05	0.00	1,167.05	
DEC-16	938311.030	917657.330	1186.38	1186.38	1185.93	S	0						
MNW								8/15/2006 0000	19.14	1166.79	0.00	1,166.79	
MNW								8/24/2006 0000	20.03	1165.90	0.00	1,165.90	
MNW								9/11/2006 0000	20.69	1165.24	0.00	1,165.24	
MNW								5/7/2007 0000	18.97	1166.96	0.00	1,166.96	
DEC-17	938084.990	917455.370	1181.44	1181.44	1181.15	S	0						
MNW								8/24/2006 0000	14.81	1166.34	0.00	1,166.34	
MNW								9/11/2006 0000	15.51	1165.64	0.00	1,165.64	
MNW								5/7/2007 0000	13.68	1167.47	0.00	1,167.47	
DEC-18	938161.450	917328.400	1176.40	1176.40	1175.94	S	0						
MNW								8/24/2006 0000	9.81	1166.13	0.00	1,166.13	
MNW								9/11/2006 0000	10.48	1165.46	0.00	1,165.46	
MNW								5/7/2007 0000	8.88	1167.06	0.00	1,167.06	
DEC-19	938623.940	917187.130	1168.90	1168.90	1168.49	S	0						
MNW								8/24/2006 0000	3.41	1165.08	0.00	1,165.08	

NM - No Measurement

Geologic Zone:
S Shallow Aquifer

Type:
MNW Monitoring Well

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

TABLE 2-1
GROUNDWATER ELEVATION MEASUREMENTS
SCM - CORTLANDVILLE

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MNW								9/11/2006 0000	3.98	1164.51	0.00	1,164.51	
MNW								5/7/2007 0000	2.64	1165.85	0.00	1,165.85	
DEC-20	938507.210	916900.950	1173.48	1173.48	1173.02	S	0						
MNW								8/24/2006 0000	8.25	1164.77	0.00	1,164.77	
MNW								9/11/2006 0000	8.84	1164.18	0.00	1,164.18	
MNW								5/7/2007 0000	7.61	1165.41	0.00	1,165.41	
DEC-21	938631.290	916776.610	1173.36	1173.36	1172.83	S	0						
MNW								8/24/2006 0000	8.58	1164.25	0.00	1,164.25	
MNW								9/11/2006 0000	9.10	1163.73	0.00	1,163.73	
MNW								5/7/2007 0000	8.11	1164.72	0.00	1,164.72	
DEC-22	938837.550	916667.340	1170.46	1170.46	1170.05	S	0						
MNW								8/24/2006 0000	6.77	1163.28	0.00	1,163.28	
MNW								9/11/2006 0000	7.17	1162.88	0.00	1,162.88	
MNW								5/7/2007 0000	6.45	1163.60	0.00	1,163.60	
DEC-23	937831.240	918090.130	1208.04	1208.04	1207.50	S	0						
MNW								8/24/2006 0000	39.88	1167.62	0.00	1,167.62	
MNW								9/11/2006 0000	40.63	1166.87	0.00	1,166.87	
MNW								5/7/2007 0000	38.29	1169.21	0.00	1,169.21	
DEC-24	937830.300	917918.580	1208.10	1208.10	1207.56	S	0						
MNW								8/24/2006 0000	40.13	1167.43	0.00	1,167.43	
MNW								9/11/2006 0000	40.87	1166.69	0.00	1,166.69	
MNW								5/7/2007 0000	38.64	1168.92	0.00	1,168.92	
DEC-25	937823.150	917793.120	1208.98	1208.98	1208.52	S	0						
MNW								8/24/2006 0000	41.35	1167.17	0.00	1,167.17	
MNW								9/11/2006 0000	42.11	1166.41	0.00	1,166.41	
MNW								5/7/2007 0000	39.99	1168.53	0.00	1,168.53	

NM - No Measurement

Geologic Zone:
S Shallow Aquifer

Type:
MNW Monitoring Well

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

TABLE 2-1
GROUNDWATER ELEVATION MEASUREMENTS
SCM - CORTLANDVILLE

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
DEC-26	937813.200	917507.730	1186.22	1188.82	1188.88	S	0						
MNW								8/24/2006 0000	21.89	1166.99	0.00	1,166.99	
MNW								9/11/2006 0000	22.65	1166.23	0.00	1,166.23	
MNW								5/7/2007 0000	20.68	1168.20	0.00	1,168.20	
DEC-27	937803.700	917401.260	1180.42	1182.84	1182.84	S	0						
MNW								8/24/2006 0000	15.86	1166.98	0.00	1,166.98	
MNW								9/11/2006 0000	16.55	1166.29	0.00	1,166.29	
MNW								5/7/2007 0000	14.64	1168.20	0.00	1,168.20	
DEC-28	937805.870	917288.060	1176.21	1178.58	1178.61	S	0						
MNW								8/24/2006 0000	11.25	1167.36	0.00	1,167.36	
MNW								9/11/2006 0000	12.02	1166.59	0.00	1,166.59	
MNW								5/7/2007 0000	10.18	1168.43	0.00	1,168.43	
DEC-29	937793.140	917200.960	1175.84	1175.84	1175.22	S	0						
MNW								8/24/2006 0000	7.66	1167.56	0.00	1,167.56	
MNW								9/11/2006 0000	8.44	1166.78	0.00	1,166.78	
MNW								5/7/2007 0000	6.63	1168.59	0.00	1,168.59	
DEC-30	937763.190	916979.590	1176.26	1178.81	1178.81	S	0						
MNW								8/24/2006 0000	10.54	1168.27	0.00	1,168.27	
MNW								9/11/2006 0000	11.34	1167.47	0.00	1,167.47	
MNW								5/7/2007 0000	9.71	1169.10	0.00	1,169.10	
DEC-31	938861.79	917955.89	1183.47	1183.26	1183.47	S	0						
MNW								5/7/2007 0000	17.16	1166.31	0.00	1,166.31	
DEC-32	938635.38	917909.32	1185.94	1185.69	1185.94	S	0						
MNW								5/7/2007 0000	19.29	1166.65	0.00	1,166.65	
DEC-33	939121.02	918092.38	1182.02	1182.02	1181.81	S	0						
MNW								5/7/2007 0000	16.81	1165.00	0.00	1,165.00	

NM - No Measurement

Geologic Zone:
S Shallow Aquifer

Type:
MNW Monitoring Well

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

TABLE 2-1
GROUNDWATER ELEVATION MEASUREMENTS
SCM - CORTLANDVILLE

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
DEC-34	939105.95	917776.09	1180.75	1180.75	1180.52	S	0						
MNW								5/7/2007 0000	15.58	1164.94	0.00	1,164.94	
DEC-35	938848.40	917781.02	1182.56	1182.11	1182.56	S	0						
MNW								5/7/2007 0000	16.09	1166.47	0.00	1,166.47	
DEC-36	938304.23	918019.26	1185.05	1184.69	1185.05	S	0						
MNW								5/7/2007 0000	17.09	1167.96	0.00	1,167.96	
MW-02D	937826.880	917787.230	1208.96	1211.58	1211.14	S	0						
MNW								8/24/2006 0000	NM	-	NM	-	Bailer stuck in well
MNW								9/11/2006 0000	NM	-	NM	-	Bailer stuck in well
MNW								3/21/2007 0000	NM	-	NM	-	Bailer stuck in well
MNW								5/7/2007 0000	NM	-	NM	-	Bailer stuck in well
MW-02S	937829.090	917795.420	1208.96	1210.82	1210.44	S	0						
MNW								8/15/2006 0000	42.13	1168.31	0.00	1,168.31	
MNW								8/24/2006 0000	43.32	1167.12	0.00	1,167.12	
MNW								9/11/2006 0000	44.05	1166.39	0.00	1,166.39	
MNW								3/21/2007 0000	42.96	1167.48	0.00	1,167.48	
MNW								5/7/2007 0000	41.94	1168.50	0.00	1,168.50	
MW-04D	937831.530	918097.550	1207.88	1210.08	1209.66	S	0						
MNW								8/15/2006 0000	41.49	1168.17	0.00	1,168.17	
MNW								8/24/2006 0000	42.49	1167.17	0.00	1,167.17	
MNW								9/11/2006 0000	43.31	1166.35	0.00	1,166.35	
MNW								5/7/2007 0000	41.02	1168.64	0.00	1,168.64	
MW-04S	937829.990	918106.090	1207.96	1209.90	1209.26	S	0						
MNW								8/15/2006 0000	40.46	1168.80	0.00	1,168.80	
MNW								8/24/2006 0000	41.02	1168.24	0.00	1,168.24	
MNW								9/11/2006 0000	42.38	1166.88	0.00	1,166.88	

NM - No Measurement

Geologic Zone:
S Shallow Aquifer

Type:
MNW Monitoring Well

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

TABLE 2-1
GROUNDWATER ELEVATION MEASUREMENTS
SCM - CORTLANDVILLE

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MNW								5/7/2007 0000	40.04	1169.22	0.00	1,169.22	
MW-05D	937762.630	916973.070	1176.19	1178.56	1178.37	S	0						
MNW								8/15/2006 0000	10.37	1168.00	0.00	1,168.00	
MNW								8/24/2006 0000	11.18	1167.19	0.00	1,167.19	
MNW								9/11/2006 0000	11.95	1166.42	0.00	1,166.42	
MNW								5/7/2007 0000	10.24	1168.13	0.00	1,168.13	
MW-05S	937752.560	916973.790	1176.27	1178.23	1177.91	S	0						
MNW								8/15/2006 0000	9.27	1168.64	0.00	1,168.64	
MNW								8/24/2006 0000	9.93	1167.98	0.00	1,167.98	
MNW								9/11/2006 0000	10.73	1167.18	0.00	1,167.18	
MNW								5/7/2007 0000	9.05	1168.86	0.00	1,168.86	

NM - No Measurement

Geologic Zone:
S Shallow Aquifer

Type:
MNW Monitoring Well

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

TABLE 2-2
MONITORING WELL SURVEY DATA
SCM - CORTLANDVILLE

Location ID / Type	Inst. Date	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Total Boring Depth (ft)	Geol. Zone
DEC-01D MNW	3/6/2006	937860.115	917064.253	1174.30	1174.12	1174.12	18.0	S
DEC-01S MNW	3/6/2006	937859.642	917061.449	1174.36	1174.03	1174.03	13.0	S
DEC-02D MNW	3/7/2006	937909.215	917753.056	1198.04	1197.75	1197.75	43.0	S
DEC-02S MNW	3/7/2006	937907.162	917756.369	1198.57	1198.24	1198.24	38.0	S
DEC-03D MNW	3/8/2006	938465.473	917083.912	1171.72	1171.52	1171.52	15.0	S
DEC-03S MNW	3/8/2006	938467.602	917080.864	1171.94	1171.64	1171.64	10.0	S
DEC-04D MNW	3/9/2006	939109.969	917915.062	1182.04	1181.87	1181.87	27.0	S
DEC-04S MNW	3/8/2006	939109.837	917911.104	1182.11	1181.92	1181.92	22.0	S
DEC-05D MNW	3/9/2006	939062.281	917172.424	1172.45	1172.20	1172.20	18.0	S
DEC-05S MNW	3/9/2006	939066.411	917172.962	1172.34	1172.08	1172.08	13.0	S
DEC-06D MNW	3/9/2006	940913.662	919626.747	1168.95	1168.56	1168.56	19.0	S
DEC-06S MNW	3/9/2006	940912.667	919622.798	1168.68	1168.37	1168.37	14.0	S
DEC-07 MNW	8/8/2006	939126.410	918240.830	1181.54	1181.54	1181.19	21.5	S
DEC-08 MNW	8/8/2006	939095.260	917598.230	1177.37	1177.37	1176.99	19.0	S
DEC-09 MNW	8/9/2006	939136.990	917348.300	1172.86	1172.86	1172.36	17.0	S
DEC-10 MNW	8/9/2006	938918.700	917153.110	1172.32	1172.32	1171.91	15.0	S
DEC-11 MNW	8/9/2006	938832.680	917233.810	1174.22	1174.22	1173.82	16.0	S
DEC-12 MNW	8/10/2006	938838.460	917592.700	1180.52	1180.52	1180.05	21.0	S
DEC-13 MNW	8/10/2006	938633.750	917807.940	1186.12	1186.12	1185.68	27.0	S
DEC-14 MNW	8/11/2006	938644.020	917998.960	1184.89	1184.89	1184.50	25.0	S
DEC-15 MNW	8/14/2006	938320.730	917844.550	1186.54	1186.54	1186.03	27.0	S
DEC-16 MNW	8/15/2006	938311.030	917657.330	1186.38	1186.38	1185.93	27.0	S
DEC-17 MNW	8/15/2006	938084.990	917455.370	1181.44	1181.44	1181.15	22.0	S
DEC-18 MNW	8/16/2006	938161.450	917328.400	1176.40	1176.40	1175.94	17.0	S
DEC-19 MNW	8/16/2006	938623.940	917187.130	1168.90	1168.90	1168.49	12.0	S
DEC-20 MNW	8/16/2006	938507.210	916900.950	1173.48	1173.48	1173.02	15.0	S
DEC-21 MNW	8/16/2006	938631.290	916776.610	1173.36	1173.36	1172.83	15.0	S

Geologic Zone:
S Shallow Aquifer

Type:
MNW Monitoring Well

Blank Field - Information Not Available

TABLE 2-2
MONITORING WELL SURVEY DATA
SCM - CORTLANDVILLE

Location ID / Type	Inst. Date	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Total Boring Depth (ft)	Geol. Zone
DEC-22 MNW	8/17/2006	938837.550	916667.340	1170.46	1170.46	1170.05	14.0	S
DEC-23 MNW	8/22/2006	937831.240	918090.130	1208.04	1208.04	1207.50	47.0	S
DEC-24 MNW	8/23/2006	937830.300	917918.580	1208.10	1208.10	1207.56	47.0	S
DEC-25 MNW	8/23/2006	937823.150	917793.120	1208.98	1208.98	1208.52	49.0	S
DEC-26 MNW	8/21/2006	937813.200	917507.730	1186.22	1188.82	1188.88	25.0	S
DEC-27 MNW	8/17/2006	937803.700	917401.260	1180.42	1182.84	1182.84	19.0	S
DEC-28 MNW	8/18/2006	937805.870	917288.060	1176.21	1178.58	1178.61	15.0	S
DEC-29 MNW	8/17/2006	937793.140	917200.960	1175.84	1175.84	1175.22	15.0	S
DEC-30 MNW	8/18/2006	937763.190	916979.590	1176.26	1178.81	1178.81	15.0	S
DEC-31 MNW	4/12/2007	938861.79	917955.89	1183.47	1183.26	1183.47	27.0	S
DEC-32 MNW	4/13/2007	938635.38	917909.32	1185.94	1185.69	1185.94	27.0	S
DEC-33 MNW	4/13/2007	939121.02	918092.38	1182.02	1182.02	1181.81	25.0	S
DEC-34 MNW	4/16/2007	939105.95	917776.09	1180.75	1180.75	1180.52	25.0	S
DEC-35 MNW	4/26/2007	938848.40	917781.02	1182.56	1182.11	1182.56	25.0	S
DEC-36 MNW	4/26/2007	938304.23	918019.26	1185.05	1184.69	1185.05	25.0	S
MW-02D MNW		937826.880	917787.230	1208.96	1211.58	1211.14	NA	S
MW-02S MNW		937829.090	917795.420	1208.96	1210.82	1210.44	70.43	S
MW-04D MNW		937831.530	918097.550	1207.88	1210.08	1209.66	NA	S
MW-04S MNW		937829.990	918106.090	1207.96	1209.90	1209.26	73.41	S
MW-05D MNW		937762.630	916973.070	1176.19	1178.56	1178.37	NA	S
MW-05S MNW		937752.560	916973.790	1176.27	1178.23	1177.91	39.46	S

Geologic Zone:
S Shallow Aquifer

Type:
MNW Monitoring Well

Blank Field - Information Not Available

TABLE 3-1
VALIDATED GROUNDWATER DETECTED ANALYTICAL RESULTS
SCM - CORTLANDVILLE
MAY 2007

Location ID			DEC-01S	DEC-02S	DEC-02S	DEC-03S	DEC-04S
Sample ID			DEC-1S	20070510-FD2	DEC-2S	DEC-3S	DEC-4S
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			05/11/07	05/10/07	05/10/07	05/10/07	05/09/07
Parameter	**Units**	*		Field Duplicate (1-1)			
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5					0.15 J
1,2-Dichloroethene (cis)	UG/L	5					0.18 J
Chloroform	UG/L	7					
Ethylbenzene	UG/L	5					
Toluene	UG/L	5					
Trichloroethene	UG/L	5	1.28	3.65	3.73	3.18	5.88
Xylene (total)	UG/L	5					

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds

J - The reported concentration is an estimated value.

Only Detected Results Reported.

TABLE 3-1
VALIDATED GROUNDWATER DETECTED ANALYTICAL RESULTS
SCM - CORTLANDVILLE
MAY 2007

Location ID			DEC-05S	DEC-06S	DEC-07	DEC-08	DEC-09
Sample ID			DEC-5S	DEC-6S	DEC-7	DEC-08	DEC-09
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			05/09/07	05/11/07	05/11/07	05/09/07	05/09/07
Parameter	**Units**	*					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5				0.12 J	0.12 J
1,2-Dichloroethene (cis)	UG/L	5	0.48 J			0.47 J	1.11
Chloroform	UG/L	7				0.12 J	
Ethylbenzene	UG/L	5			0.34 J		
Toluene	UG/L	5			0.26 J		
Trichloroethene	UG/L	5	12.9		0.82	8.69	21.2
Xylene (total)	UG/L	5			1.94		

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds

J - The reported concentration is an estimated value.

Only Detected Results Reported.

TABLE 3-1
VALIDATED GROUNDWATER DETECTED ANALYTICAL RESULTS
SCM - CORTLANDVILLE
MAY 2007

Location ID			DEC-10	DEC-11	DEC-12	DEC-12	DEC-13
Sample ID			DEC-10	DEC-11	20070511-FD1	DEC-12	DEC-13
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			05/09/07	05/11/07	05/11/07	05/11/07	05/10/07
Parameter	**Units**	*****			Field Duplicate (1-1)		
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5			0.11 J	0.13 J	
1,2-Dichloroethene (cis)	UG/L	5	0.19 J	0.42 J	0.90	0.88	0.29 J
Chloroform	UG/L	7		0.40 J			
Ethylbenzene	UG/L	5					
Toluene	UG/L	5					
Trichloroethene	UG/L	5	7.87	11.6	15.5	16.6	10.2
Xylene (total)	UG/L	5					

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds

J - The reported concentration is an estimated value.

Only Detected Results Reported.

TABLE 3-1
VALIDATED GROUNDWATER DETECTED ANALYTICAL RESULTS
SCM - CORTLANDVILLE
MAY 2007

Location ID			DEC-14	DEC-15	DEC-16	DEC-17	DEC-18
Sample ID			DEC-14	DEC-15	DEC-16	DEC-17	DEC-18
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			05/10/07	05/11/07	05/11/07	05/10/07	05/10/07
Parameter	Units	*					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5					
1,2-Dichloroethene (cis)	UG/L	5			0.66	0.27 J	
Chloroform	UG/L	7					
Ethylbenzene	UG/L	5					
Toluene	UG/L	5					
Trichloroethene	UG/L	5	0.23 J	3.91	12.2	8.51	2.26
Xylene (total)	UG/L	5					

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds

J - The reported concentration is an estimated value.

Only Detected Results Reported.

TABLE 3-1
VALIDATED GROUNDWATER DETECTED ANALYTICAL RESULTS
SCM - CORTLANDVILLE
MAY 2007

Location ID			DEC-19	DEC-20	DEC-21	DEC-22	DEC-22
Sample ID			DEC-19	DEC-20	DEC-21	20070510-FD1	DEC-22
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			05/10/07	05/10/07	05/10/07	05/10/07	05/10/07
Parameter	Units	*				Field Duplicate (1-1)	
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5			0.12 J		0.11 J
1,2-Dichloroethene (cis)	UG/L	5	0.13 J				
Chloroform	UG/L	7				0.12 J	0.13 J
Ethylbenzene	UG/L	5					
Toluene	UG/L	5					
Trichloroethene	UG/L	5	3.83	1.45			
Xylene (total)	UG/L	5					

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds

J - The reported concentration is an estimated value.

Only Detected Results Reported.

TABLE 3-1
VALIDATED GROUNDWATER DETECTED ANALYTICAL RESULTS
SCM - CORTLANDVILLE
MAY 2007

Location ID			DEC-23	DEC-24	DEC-25	DEC-26	DEC-27
Sample ID			DEC-23	DEC-24	DEC-25	DEC-26	DEC-27
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			05/08/07	05/08/07	05/08/07	05/11/07	05/09/07
Parameter	**Units**	*****					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5					
1,2-Dichloroethene (cis)	UG/L	5				0.25 J	
Chloroform	UG/L	7					
Ethylbenzene	UG/L	5					
Toluene	UG/L	5					
Trichloroethene	UG/L	5	0.25 J	0.79	2.33	7.44	3.28
Xylene (total)	UG/L	5					

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds

J - The reported concentration is an estimated value.

Only Detected Results Reported.

TABLE 3-1
VALIDATED GROUNDWATER DETECTED ANALYTICAL RESULTS
SCM - CORTLANDVILLE
MAY 2007

Location ID			DEC-28	DEC-28	DEC-29	DEC-30	DEC-31
Sample ID			20070509-FD1	DEC-28	DEC-29	DEC-30	DEC-31
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			05/09/07	05/09/07	05/09/07	05/09/07	05/11/07
Parameter	Units	*	Field Duplicate (1-1)				
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5					0.11 J
1,2-Dichloroethene (cis)	UG/L	5	0.19 J	0.17 J			
Chloroform	UG/L	7					
Ethylbenzene	UG/L	5					
Toluene	UG/L	5					
Trichloroethene	UG/L	5	2.85	2.83	1.81	1.17	0.78
Xylene (total)	UG/L	5					

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds

J - The reported concentration is an estimated value.

Only Detected Results Reported.

TABLE 3-1
VALIDATED GROUNDWATER DETECTED ANALYTICAL RESULTS
SCM - CORTLANDVILLE
MAY 2007

Location ID			DEC-32	DEC-33	DEC-34	DEC-35	DEC-36
Sample ID			DEC-32	DEC-33	DEC-34	DEC-35	DEC-36
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			05/10/07	05/10/07	05/09/07	05/11/07	05/11/07
Parameter	**Units**	*					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5			0.13 J		
1,2-Dichloroethene (cis)	UG/L	5		0.19 J	0.76	0.31 J	
Chloroform	UG/L	7	0.16 J				
Ethylbenzene	UG/L	5					
Toluene	UG/L	5					
Trichloroethene	UG/L	5	1.04	6.15	13.3	10.2	0.57
Xylene (total)	UG/L	5					

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds

J - The reported concentration is an estimated value.

Only Detected Results Reported.

TABLE 3-1
VALIDATED GROUNDWATER DETECTED ANALYTICAL RESULTS
SCM - CORTLANDVILLE
MAY 2007

Location ID			MW-01S	MW-02S	MW-04S	MW-05S	MW-10S
Sample ID			MW-1S	MW-2S	MW-4S	MW-5S	MW-10S
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			05/09/07	05/08/07	05/08/07	05/09/07	05/08/07
Parameter	**Units**	*					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5					
1,2-Dichloroethene (cis)	UG/L	5					0.30 J
Chloroform	UG/L	7					
Ethylbenzene	UG/L	5					
Toluene	UG/L	5					
Trichloroethene	UG/L	5	3.38	2.35	0.61	1.25	6.44
Xylene (total)	UG/L	5					

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds

J - The reported concentration is an estimated value.

Only Detected Results Reported.

FIGURES

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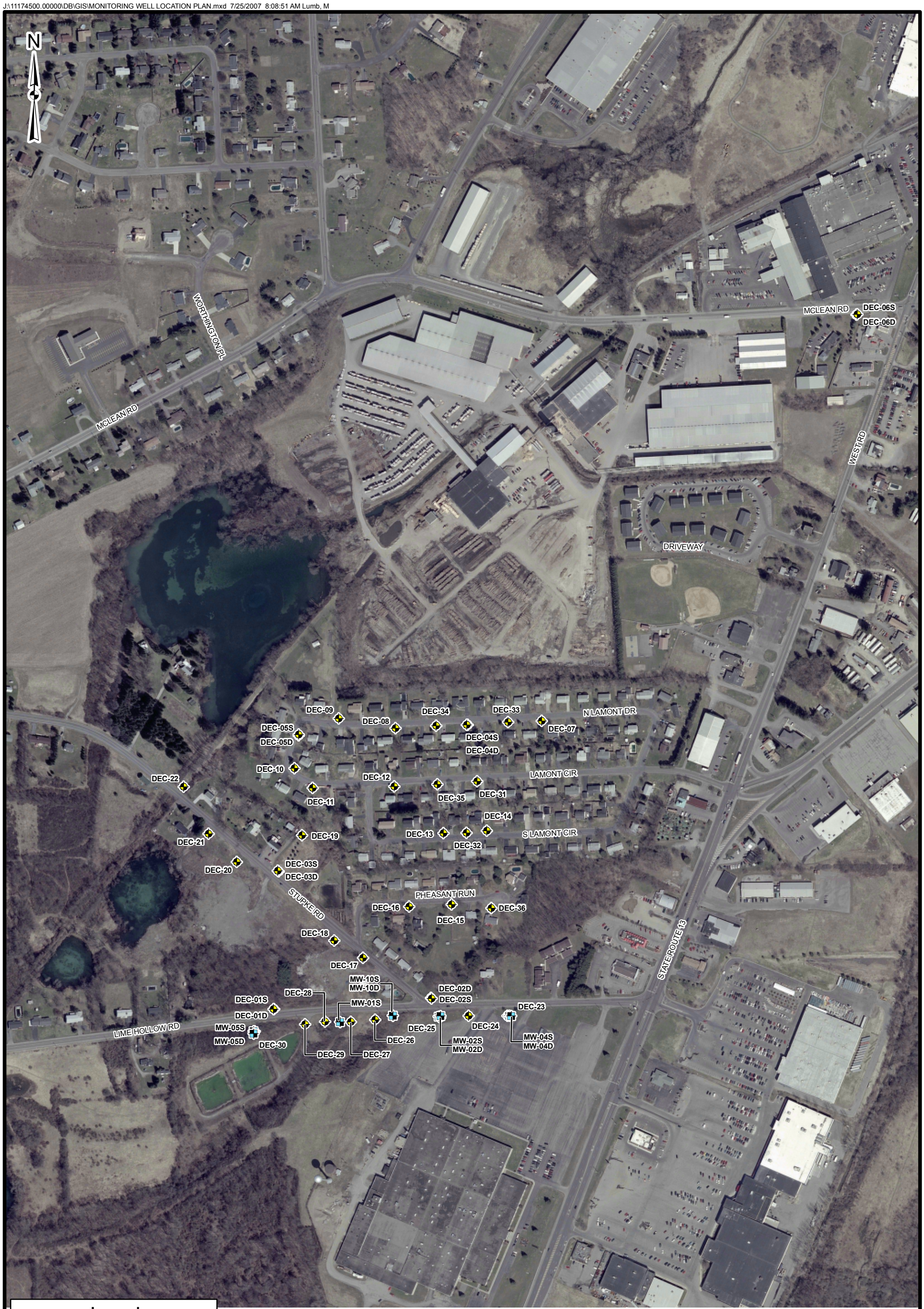

Legend

- DEC Monitoring Well
- SCM Monitoring Well

NOTE:
Location of monitoring wells MW-10S and MW-10D are approximate.

0 200 400 800 Feet

URS

SCM - CORTLANDVILLE
MONITORING WELL LOCATION PLAN

FIGURE 2-1

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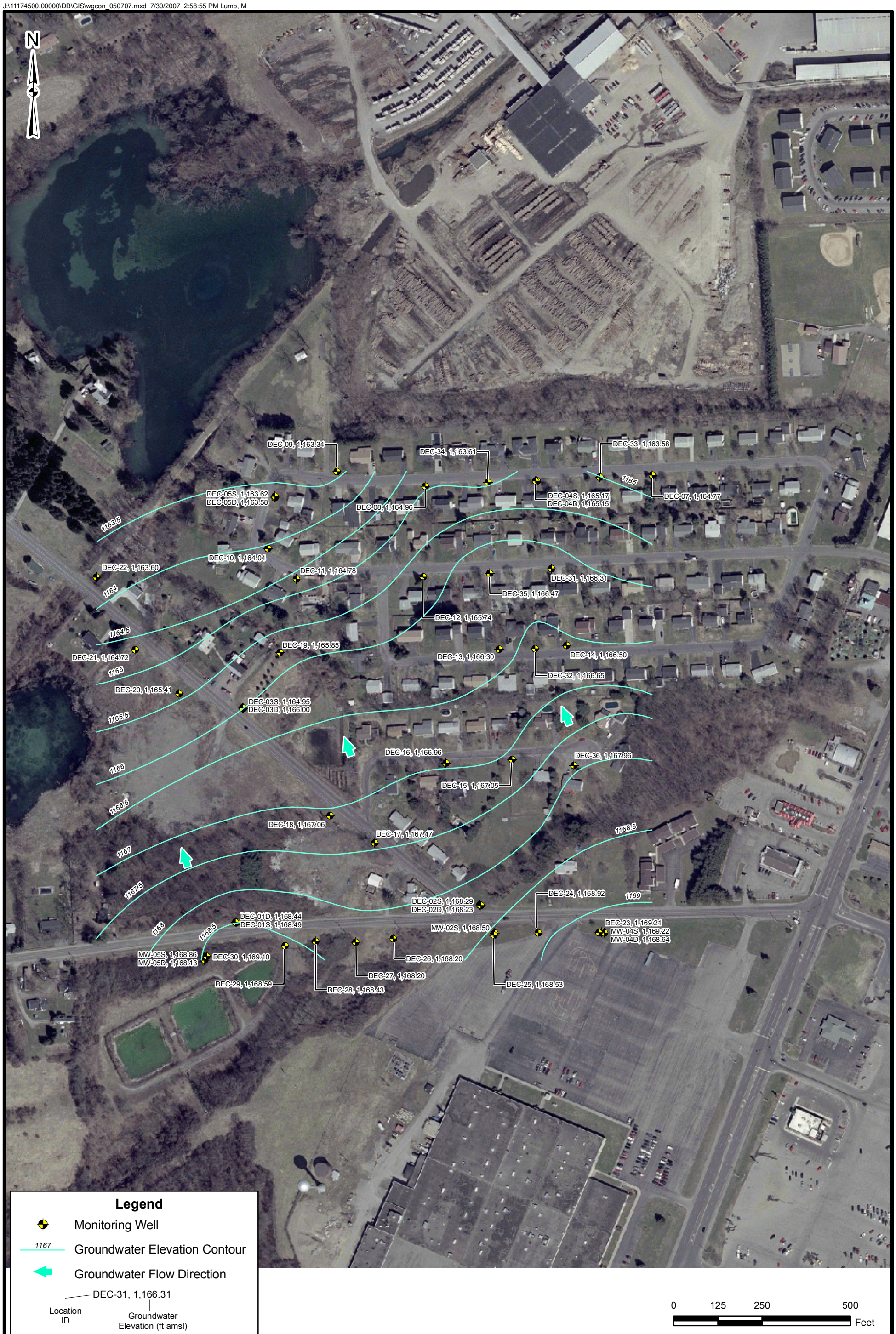

URS

SCM - CORTLANDVILLE
GROUNDWATER ELEVATION CONTOUR MAP
(MAY 7, 2007)

FIGURE 3-1

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NOTE:
Location of monitoring well MW-10S is approximate.

URS

SCM - CORTLANDVILLE
1,1,1-TRICHLOROETHANE, 1,2-DICHLOROETHENE, AND TRICHLOROETHENE
CONCENTRATIONS IN GROUNDWATER - MAY 2007

FIGURE 3-2

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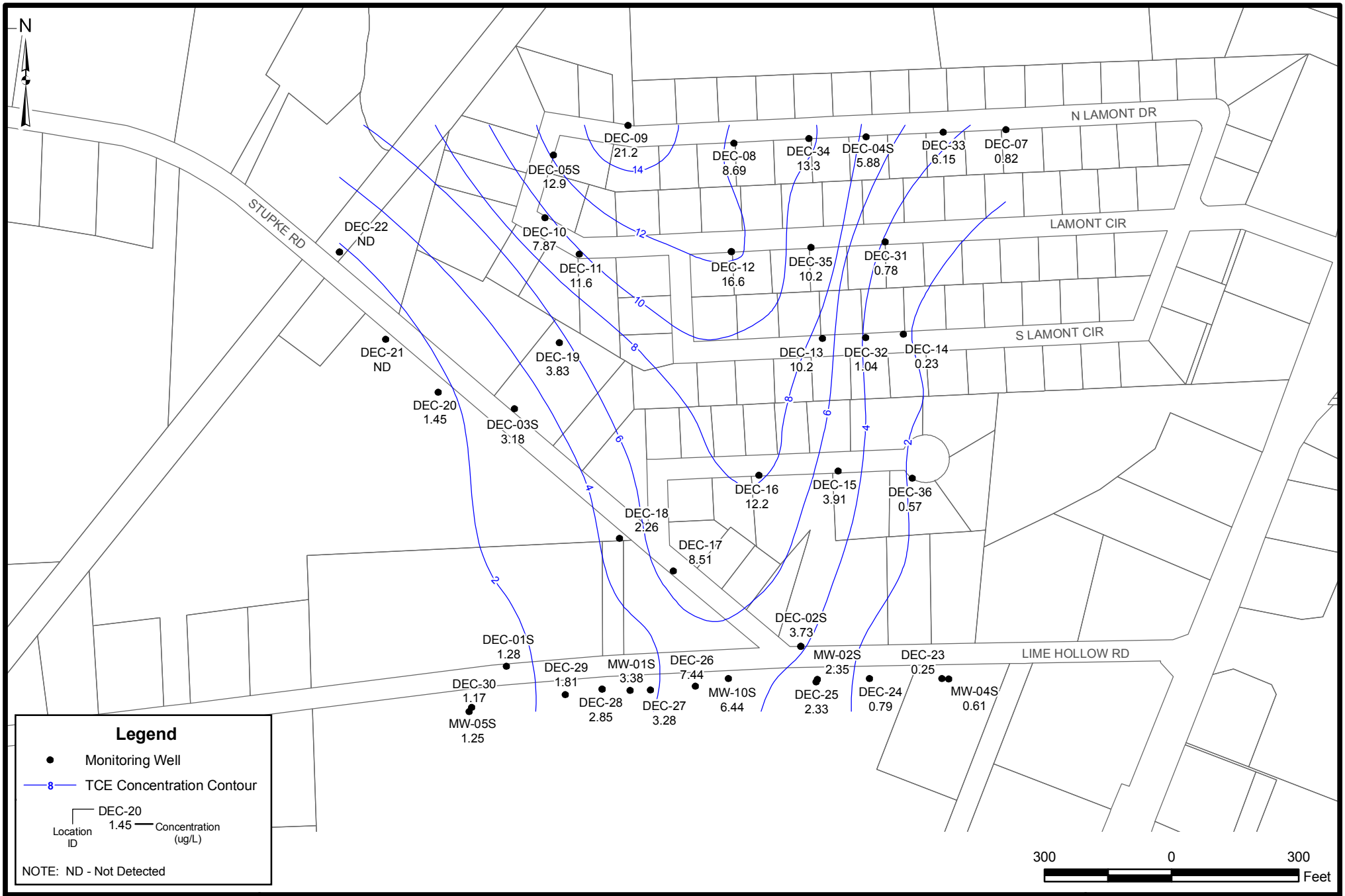


URS

SCM CORTLANDVILLE
TRICHLOROETHENE ISOCONCENTRATION CONTOURS IN GROUNDWATER
MAY 2007

FIGURE 3-3

APPENDIX A

MONITORING WELL BORING LOGS

AND WELL CONSTRUCTION DRAWINGS

LOG OF BORING

URS

Clifton Park, New York

PROJECT:	Cortlandville	**ELEVATION:**	GRD.OOO / TOC.000
BORING NO.:	DEC-31	**BORING LOCATION:**	N / E
DATE:	4/12/07	**METHOD OF DRILLING:**	Hollow Stem Auger
BORING DIAMETER:	4 1/4"	**SAMPLE TYPE:**	2" Split Spoon
BORING DEPTH:	27'	**SURFACE CONDITIONS:**	Grass Surface

Depth / Elevation	Soil Symbols	Soil Description	Sample Depth (ft bg)	Driven/ Recovery (ft.)	Blows per/ (6 in.)	PID (ppm)	Well Construction	Well Description
0 / 0		TOPSOIL. Dark brown, medium dense SILT with clay and medium to fine, sub-rounded to sub-angular gravel, moist.	0-2	24/7	1/1/4/10			Flushmount Casing Grout: 1'-0'
		GM. Light brown sub-angular to rounded, fine to coarse GRAVEL with silt, moist.	2-4	24/8	3/4/5/5			
5 / -5		GM. Light brown sub-angular to rounded, fine to coarse GRAVEL with silt, dry.	4-6	24/7	4/11/5/5			Bentonite: 8'-1'
		CL. Light brown CLAY with some sub-rounded to angular, coarse to fine gravel, moist.	6-8	24/9	6/5/6/11			
		SM. Brown fine to coarse SAND with silt, very moist.	8-10	24/10	1/9/11/32			
10 / -10		GM. Light brown sub-angular to rounded, fine to coarse GRAVEL with silt and sand, dry.	10-12	24/9	10/25/ 62/20			2" Sch. 40 PVC Riser: 12'-0'
		GM. Light grey sub-angular to rounded, fine to coarse GRAVEL with silt and sand, dry.	12-14	24/12	13/17/ 25/41			
15 / -15		SM. Light brown SILT AND fine to coarse SAND with fine to medium gravel, moist.	14-16	24/14	8/10/28/49			
		CH. Brown hard CLAY, dry.	16-18	24/15	20/37/ 50/52			
		GM. Light brown fine to coarse SAND AND GRAVEL with some silt, moist.						
		GP. Light brown fine to coarse SAND AND GRAVEL, moist.	18-20	18/10	35/60/100			
20 / -20		GP. Light brown fine to coarse SAND AND GRAVEL, wet.	20-22	24/6	14/30/ 32/28			#00 Sand: 27'-8'
25 / -25			25-27	24/10	9/155/ 22/31			

LOG OF BORING

URS

Clifton Park, New York

PROJECT:	Cortlandville	**ELEVATION:**	GRD.OOO / TOC.000
BORING NO.:	DEC-32	**BORING LOCATION:**	N / E
DATE:	4/12/07	**METHOD OF DRILLING:**	Hollow Stem Auger
BORING DIAMETER:	4 1/4"	**SAMPLE TYPE:**	2" Split Spoon
BORING DEPTH:	27 ft.	**SURFACE CONDITIONS:**	Grass Surface

Depth / Elevation	Soil Symbols	Soil Description	Sample Depth (ft bg)	Driven/ Recovery (ft.)	Blows per/ (6 in.)	PID (ppm)	Well Construction	Well Description
0 / 0		TOPSOIL. Brown SILT with trace fine to coarse sand, moist.	0-2	24/14	1/3/6/11			Flushmount Casing Grout: 1'-0'
		GM. Light brown SAND AND GRAVEL with some silt, moist.	2-4	24/0	5/7/8/7			
5 / -5		SM. Light brown fine to coarse SAND AND SILT with some sub-rounded to angular, fine to coarse gravel, very moist.	4-6	24/14	5/6/6/8			Bentonite: 8'-1'
		GM. Brown SAND AND GRAVEL with some silt, moist.	6-8	24/18	12/16/16/30			
			8-10	24/7	60/18/18/14			
10 / -10			10-12	19/9	12/25/40/100			2" Sch. 40 PVC Riser: 12'-0'
			12-14	24/10	15/20/28/36			
15 / -15			14-16	24/15	38/35/24/22			
			16-18	12/0	12/59			
		GC. Brown SAND AND GRAVEL with hard clay, wet.	18-20	24/12	16/18/34/30			
20 / -20								#00 Sand: 27'-8'
25 / -25		SP. Brown fine to coarse SAND with gravel, wet.	25-27	24/17	8/10/34/32			

LOG OF BORING

URS

Clifton Park, New York

PROJECT:	Cortlandville	**ELEVATION:**	GRD.OOO / TOC.000
BORING NO.:	DEC-33	**BORING LOCATION:**	N / E
DATE:	4/13/07	**METHOD OF DRILLING:**	Hollow Stem Auger
BORING DIAMETER:	4 1/4"	**SAMPLE TYPE:**	2" Split Spoon
BORING DEPTH:	25 ft.	**SURFACE CONDITIONS:**	Grass Surface

Depth / Elevation	Soil Symbols	Soil Description	Sample Depth (ft bg)	Driven/ Recovery (ft.)	Blows per/ (6 in.)	PID (ppm)	Well Construction	Well Description
0 / 0		Brown SILT with trace gravel, wet. TOPSOIL						Flushmount Casing Grout: 1'-0'
		Brown coarse-fine SAND AND GRAVEL with some silt, moist	0-2	24/9	2/5/7/9			
		Brown sub-rounded to angular, coarse-fine GRAVEL with some silt, moist	2-4	24/6	11/6/4/6			
5 / -5			4-6	24/7	6/10/11/14			Bentonite: 8'-1'
		Light brown fine-coarse SAND with some gravel and trace silt, dry	6-8	24/12	8/9/18/36			
		Light brown coarse-fine GRAVEL with sand and trace silt, dry	8-10	24/7	15/11/ 13/12			2" Sch. 40 PVC Riser: 10'-0'
10 / -10		Brown coarse-fine SAND with gravel and trace silt, moist	10-12	24/9	6/9/18/12			
			12-14	7/3	32/100			
		No Recovery	14-16	8/0	32/50			
15 / -15		Light grey coarse-fine, sub-rounded to angular GRAVEL, dry	16-18	4/1	50			
		Brown coarse-fine SAND AND GRAVEL, wet	18-20	24/13	6/7/9/11			
20 / -20								#00 Sand: 25'-8'
			23-25	24/12	12/18/ 21/17			10 slot, 2" Sch. 40 PVC Screen: 25'-10'
25 / -25								

LOG OF BORING

URS

Clifton Park, New York

PROJECT:	Cortlandville	**ELEVATION:**	GRD.000 / TOC.000
BORING NO.:	DEC-34	**BORING LOCATION:**	N / E
DATE:	4/16/07	**METHOD OF DRILLING:**	Hollow Stem Auger
BORING DIAMETER:	4 1/4"	**SAMPLE TYPE:**	2" Split Spoon
BORING DEPTH:	ft.	**SURFACE CONDITIONS:**	Grass Surface

Depth / Elevation	Soil Symbols	Soil Description	Sample Depth (ft bg)	Driven/ Recovery (ft.)	Blows per/ (6 in.)	PID (ppm)	Well Construction	Well Description
0 / 0		Brown SILT, wet						Flushmount Casing Grout: 1'-0'
		Light brown sub-angular to rounded, fine-coarse GRAVEL with some sand and silt,moist	0-2	24/10	4/5/9/10			
			2-4	24/5	2/7/9/11			
5 / -5			4-6	24/9	4/8/11/5			Bentonite: 8'-1'
		Grey sub-angular to rounded, fine-coarse GRAVEL, dry	6-8	24/15	30/24/ 17/22			
		Light brown SAND AND SILT, with some gravel, moist						2" Sch. 40 PVC Riser: 10'-0'
		Grey sub-angular to rounded, fine-coarse GRAVEL, dry	8-10	24/9	6/19/22/30			
10 / -10		Light brown fine-coarse SAND AND GRAVEL, with some silt, slightly moist	10-12	24/10	10/19/ 24/36			
		Light grey fine-coarse SAND AND GRAVEL, dry	12-14	24/8	17/24/ 30/32			
15 / -15		Light brown fine-coarse SAND AND GRAVEL, dry	14-16	24/5	26/30/50			
		Light brown fine-coarse SAND AND GRAVEL with some silt, very moist	16-18	8/4	15/50			
		Light brown fine-coarse SAND AND GRAVEL with some silt, wet	18-20	24/12	4/12/11/13			
20 / -20								#00 Sand: 25'-8'
			23-25	8/6	24/50			10 slot, 2" Sch. 40 PVC Screen: 25'-10'
25 / -25								

LOG OF BORING

URS

Clifton Park, New York

PROJECT:	Cortlandville	**ELEVATION:**	GRD.000 / TOC.000
BORING NO.:	DEC-35	**BORING LOCATION:**	N / E
DATE:	4/26/07	**METHOD OF DRILLING:**	Hollow Stem Auger
BORING DIAMETER:	4 1/4"	**SAMPLE TYPE:**	2" Split Spoon
BORING DEPTH:	23 ft.	**SURFACE CONDITIONS:**	Grass Surface

Depth / Elevation	Soil Symbols	Soil Description	Sample Depth (ft bg)	Driven/ Recovery (ft.)	Blows per/ (6 in.)	PID (ppm)	Well Construction	Well Description
0 / 0		Brown SILT with some gravel and sand, moist	0-2	24/10	2/3/4/6			Flushmount Casing Grout: 1'-0'
			2-4	24/7	4/3/5/6			
5 / -5		Brown fine-coarse SAND AND GRAVEL with some silt, moist	4-6	24/6	4/4/4/3			Bentonite: 6'-1'
			6-8	24/5	3/4/7/7			2" Sch. 40 PVC Riser: 8'-0'
10 / -10			8-10	24/2	10/12/7/3			
		Grey sub-angular to rounded, fine-coarse GRAVEL with some sand, dry	10-12	24/9	7/10/11/10			
			12-14	24/9	15/19/ 19/21			
		Brown fine-coarse SAND AND GRAVEL with some silt, moist						
15 / -15		Grey sub-angular to rounded, fine-coarse GRAVEL with some sand, dry	14-16	24/13	16/36/ 42/40			
			16-18	0				
20 / -20								#00 Sand: 25'-6'
		Brown fine-coarse SAND AND GRAVEL, wet						10 slot, 2" Sch. 40 PVC Screen: 23'-8'
		Black fine-coarse SAND AND GRAVEL with trace clay, very moist	21-23	13/13	36/45/50			

LOG OF BORING

URS

Clifton Park, New York

PROJECT:	Cortlandville	**ELEVATION:**	GRD.000 / TOC.000
BORING NO.:	DEC-36	**BORING LOCATION:**	N / E
DATE:	4/26/07	**METHOD OF DRILLING:**	Hollow Stem Auger
BORING DIAMETER:	4 1/4"	**SAMPLE TYPE:**	2" Split Spoon
BORING DEPTH:	25 ft.	**SURFACE CONDITIONS:**	Grass Surface

Depth / Elevation	Soil Symbols	Soil Description	Sample Depth (ft bg)	Driven/ Recovery (ft.)	Blows per/ (6 in.)	PID (ppm)	Well Construction	Well Description
0 / 0		Brown SILT, moist						Flushmount Casing Grout: 1'-0'
		Brown fine-coarse SAND AND GRAVEL with trace silt, moist	0-2	24/8	4/6/14/5			
			2-4	24/3	7/9/10/7			
5 / -5			4-6	24/11	4/14/12/5			Bentonite: 8'-1'
			6-8	24/3	5/9/4/9			
		Brown fine-coarse SAND AND GRAVEL with trace silt, dry	8-10	24/7	9/7/8/12			2" Sch. 40 PVC Riser: 10'-0'
10 / -10		Brown fine-coarse SAND with some gravel and trace silt, moist	10-12	24/8	12/15/ 17/21			
		Grey sub-angular to rounded, fine-coarse GRAVEL with some sand, dry	12-14	24/11	30/26/ 20/23			
		Brown SILT with some fine-coarse sand and gravel, moist						
15 / -15		Brown sub-angular to rounded, fine-coarse SAND AND GRAVEL, dry	14-16	12/4	24/50			
			16-18	17/8	12/42/40			
		Grey sub-angular to rounded, fine-coarse GRAVEL with some sand, dry	18-20	17/11	42/83/100			
20 / -20		Brown sub-angular to rounded, fine-coarse SAND AND GRAVEL with trace silt, wet	20-22	24/14	26/29/ 32/27			#00 Sand: 25'-8'
								10 slot, 2" Sch. 40 PVC Screen: 25'-10'
25 / -25								

DRILLING SUMMARY

Geologist:
Brian Weeks

Drilling Company:
Nothnagle

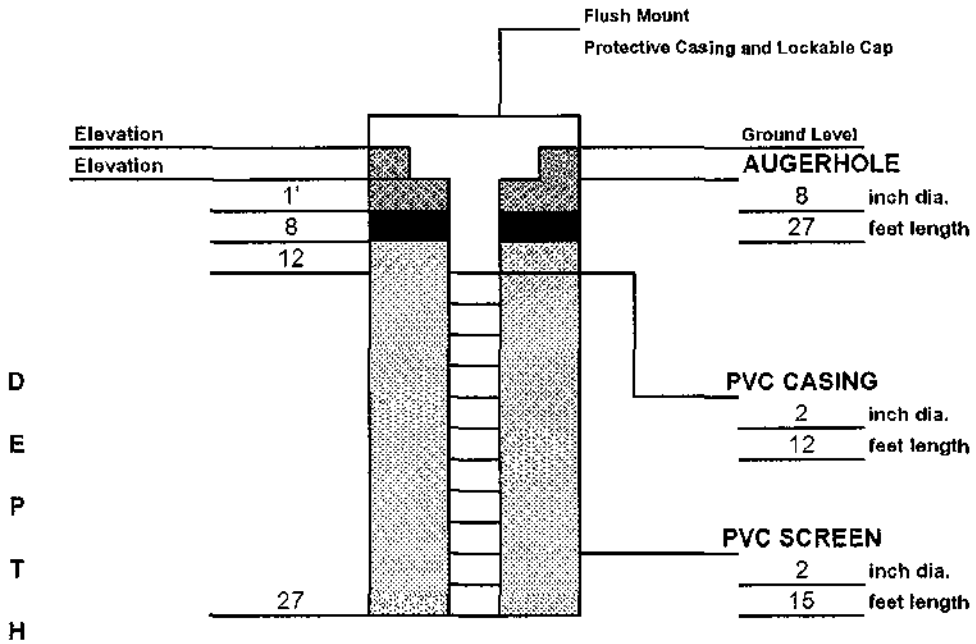
Driller:
Steve Loranty

Rig Make/Model:

Date:
4/12/2007

GEOLOGIC LOG

Depth(ft.)	Description
0-2	Silt and gravel
2-6.5	Gravel, some silt
6.5-8.5	Clay, some gravel.
8.5-10.5	Sand, some silt.
10.5-12.5	Gravel, some silt and sand
12.5-14	Silt and sand, some gravel.
14-15	Clay. Dry
15-18	Sand and gravel. Some silt.
18-20	Sand and gravel.
20-27	Sand and gravel. Wet at 20'



WELL DESIGN

CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel grade box	**Type:** 2" PVC	Type: #00 Sand Setting: 27'-8'
Monitor: 2" PVC	**Slot Size:** 0.010"	**SEAL MATERIAL** Type: Bentonite Setting: 8'-1'

COMMENTS:

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYSDEC	**Location: Cortlandville, NY**	**Project No.: 11174536.00000**
URS Corporation	**MONITORING WELL CONSTRUCTION DETAILS**	**Well Number: DEC-31**

DRILLING SUMMARY

Geologist:
Brian Weeks

Drilling Company:
Nothnagle

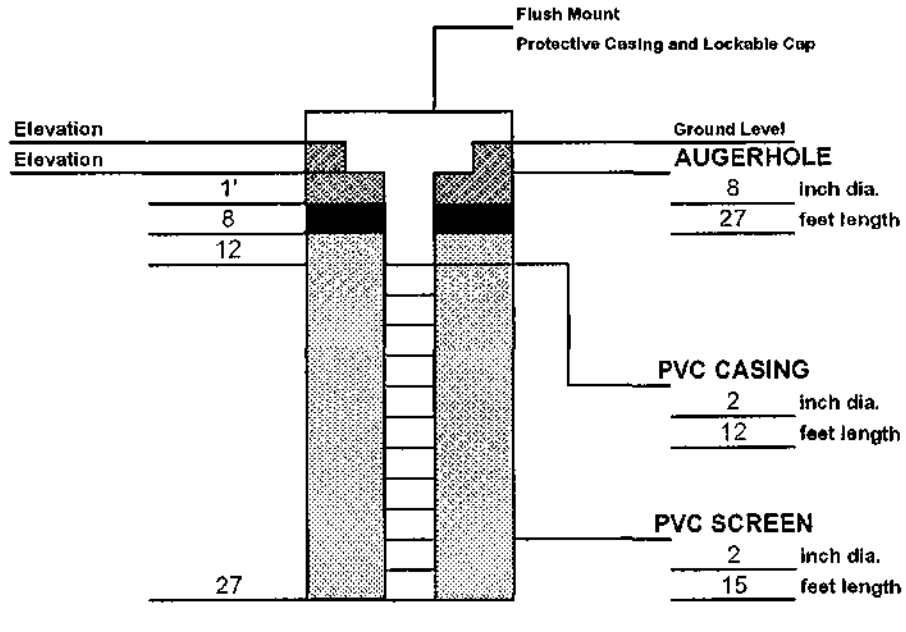
Driller:
Steve Loranty

Rig Make/Model:

Date:
4/13/2007

GEOLOGIC LOG

Depth(ft.)	Description
0-1	Silt and gravel
1-4	Sand and gravel, some silt
4-6	Sand and silt, some gravel
6-18.5	Sand and gravel, some silt
18.5-20	Sand & gravel, some clay.
20-25	Sand & gravel, some clay.Wet
25-27	Sand and gravel.Wet



WELL DESIGN

CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel grade box	**Type:** 2" PVC	Type: #00 Sand Setting: 27'-8'
Monitor: 2" PVC	**Slot Size:** 0.010"	**SEAL MATERIAL** Type: Bentonite Setting: 8'-1'

COMMENTS:

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYSDEC	**Location: Cortlandville, NY**	**Project No.: 11174536.00000**
URS Corporation	**MONITORING WELL CONSTRUCTION DETAILS**	**Well Number: DEC-32**

DRILLING SUMMARY

Geologist: Brian Weeks

Drilling Company: Nothnagle

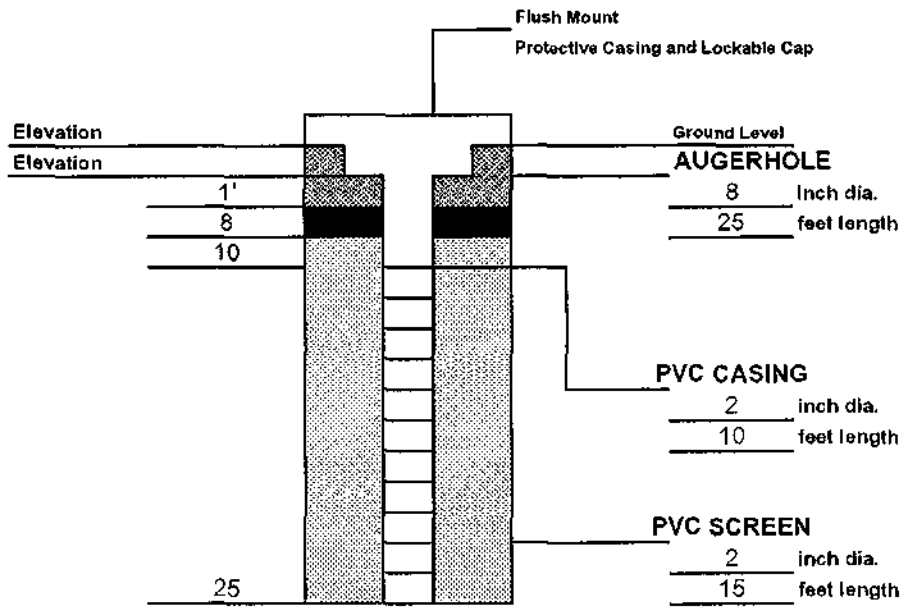
Driller: Steve Loranty

Rig Make/Model:

Date: 4/13/2007

GEOLOGIC LOG

Depth(ft.)	Description
0-1	Silt, trace gravel
1-2	Sand and gravel, some silt
2-6	Gravel, some silt
6-8	Sand, some gravel, trace silt
8-10	Gravel, some sand, trace silt
10-14	Sand, some gravel, trace silt
14-16	No recovery
16-18	Gravel. Wet at 18'
18-25	Sand and gravel



WELL DESIGN

CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel grade box	**Type:** 2" PVC	**Type:** #00 Sand **Setting:** 25'-8'
Monitor: 2" PVC	**Slot Size:** 0.010"	**SEAL MATERIAL** **Type:** Bentonite **Setting:** 8'-1'

COMMENTS:

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYSDEC	**Location: Cortlandville, NY**	**Project No.: 11174536.00000**
URS Corporation	**MONITORING WELL CONSTRUCTION DETAILS**	**Well Number: DEC-33**

DRILLING SUMMARY

Geologist:
Brian Weeks

Drilling Company:
Nothnagle

Driller:
Steve Loranty

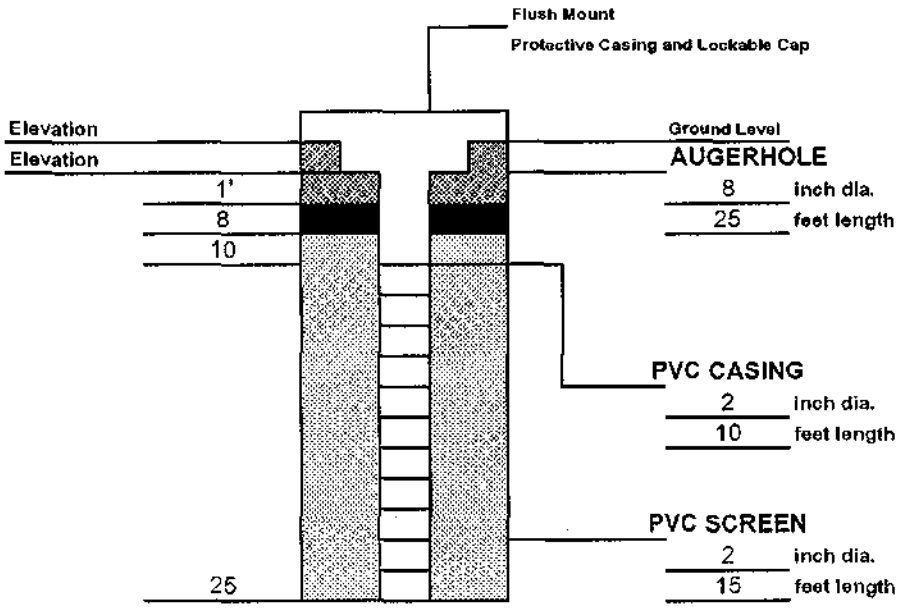
Rig Make/Model:

Date:
4/16/2007

GEOLOGIC LOG

Depth(ft.)	Description
0-0.5	Silt
0-6.5	Gravel, some sand & silt
6.5-7	Sand and silt
7-8	Gravel
8-12.2	Sand & gravel, some silt
12.2-25	Sand and gravel.Wet at 18'

DEPTH



WELL DESIGN

CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel grade box	**Type:** 2" PVC	**Type:** #00 Sand **Setting:** 25'-8'
Monitor: 2" PVC	**Slot Size:** 0.010"	**SEAL MATERIAL** **Type:** Bentonite **Setting:** 8'-1'

COMMENTS:

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYSDEC	**Location: Cortlandville, NY**	**Project No.: 11174536.00000**
URS Corporation	**MONITORING WELL CONSTRUCTION DETAILS**	**Well Number: DEC-34**

DRILLING SUMMARY

Geologist:
Brian Weeks

Drilling Company:
Nothnagle

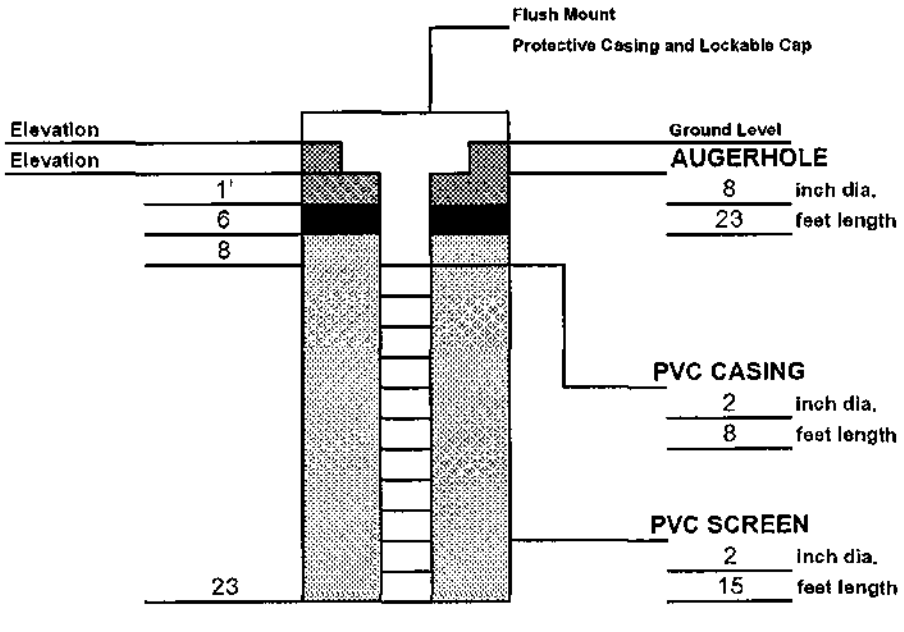
Driller:
Kevin Busch

Rig Make/Model:

Date:
4/26/2007

GEOLOGIC LOG

Depth(ft.)	Description
0-4	Silt, some sand and gravel
4-10.7	Sand and gravel, some silt
10.7-14	Gravel, some sand
14-14.8	Sand and gravel, some silt
14.8-21	Gravel, some sand. Wet at 16'
21-22	Sand and gravel
22-23	Sand and gravel, trace clay



WELL DESIGN

CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel grade box	**Type:** 2" PVC	**Type:** #00 Sand **Setting:** 23'-6'
Monitor: 2" PVC	**Slot Size:** 0.010"	**SEAL MATERIAL** **Type:** Bentonite **Setting:** 6'-1'

COMMENTS:

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYSDEC	**Location: Cortlandville, NY**	**Project No.: 11174536.00000**
URS Corporation	**MONITORING WELL CONSTRUCTION DETAILS**	**Well Number: DEC-35**

DRILLING SUMMARY

Geologist: Brian Weeks

Drilling Company: Nothnagle

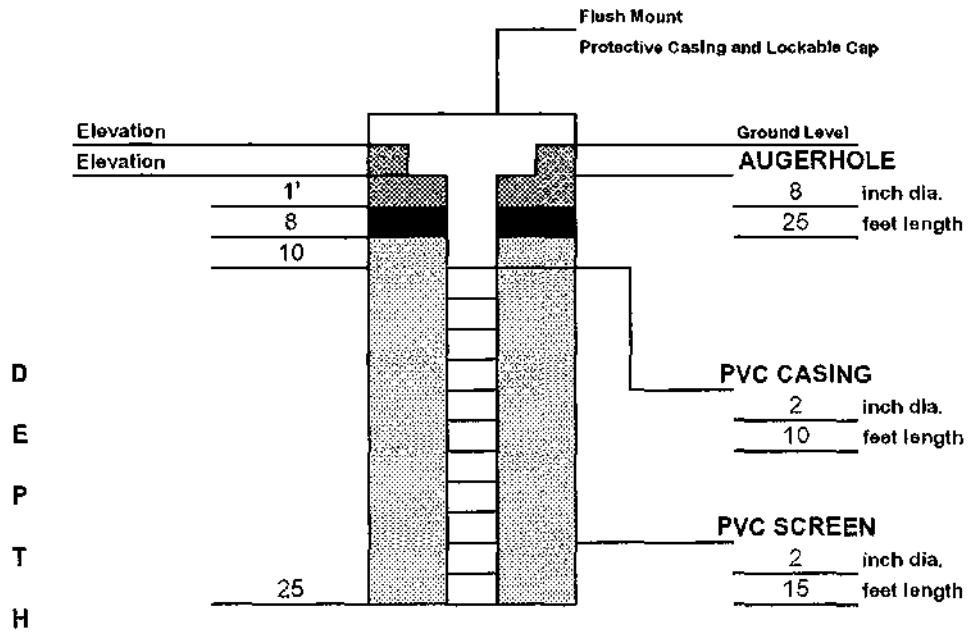
Driller: Kevin Busch

Rig Make/Model:

Date: 4/26/2007

GEOLOGIC LOG

Depth(ft.)	Description
0-0.2	Silt
0.2-10	Sand and gravel, trace silt
10-12	Gravel, some gravel, trace silt
12.-12.5	Gravel, some sand
12.5-14	Silt, some sand & gravel
14-18	Sand and gravel. Wet at 18'
18-20	Gravel, some sand
20-25	Sand and gravel, trace silt



WELL DESIGN

CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel grade box	**Type:** 2" PVC	Type: #00 Sand **Setting:** 25'-8'
Monitor: 2" PVC	**Slot Size:** 0.010"	**SEAL MATERIAL** Type: Bentonite **Setting:** 8'-1'

COMMENTS:

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYSDEC	**Location: Cortlandville, NY**	**Project No.: 11174536.00000**
URS Corporation	**MONITORING WELL CONSTRUCTION DETAILS**	**Well Number: DEC-36**

APPENDIX B

MONITORING WELL DEVELOPMENT LOGS

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: SCM-Cortlandville WELL NO.: DEC-31 Page 1/2

PROJECT NO.: 1174586.00000

STAFF: Bob Fabian

DATE(S): 4/30/2007

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	25.40	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	16.58	[2"]	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	8.82	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	1.50	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	4.50	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	68	8"	2.60

OR
$V=0.0408 \times (\text{CASING DIAMETER})^2$

	ACCUMULATED VOLUME PURGED (GALLONS)										
PARAMETERS	Initial	4	8	12	16	20	Initial	24	28	32	36
pH	7.68	7.86	8.12	7.42	7.34	7.38	7.29	7.41	7.46	7.52	7.51
SPEC. COND. (mS/cm)	1.15	0.79	0.80	0.79	0.74	0.74	0.69	0.68	0.68	0.68	0.68
APPEARANCE	Brown/ Turbid	→	→	→	→	→	→	→	→	→	→
TEMPERATURE (°C)	10.7	9.5	11.1	10.2	10.1	9.9	10.1	9.7	9.5	9.9	9.6
TURBIDITY (NTU)	>1000	→	→	→	→	→	→	→	→	→	→
WATER LEVEL	16.58	17.10	17.10	17.00	16.90	16.89	16.68	16.90	16.90	16.90	16.90
TIME	1330	1340	1350	1400	1407	1415	1235	1238	1240	1243	1245
Purge Method	Bailer	→	→	→	→	→	Whale pump	→	→	→	→
Date Developed	4/30/07	→	→	→	→	→	5/1/07	→	→	→	→

Comments:
Initial PID = 0.3 ppm
No NAPL or DNAPL
PID on 5/1/07 = 0 ppm

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: SCM-Cortlandville WELL NO.: DEC-31

PROJECT NO.: 1174586.00000

STAFF: Bob Fabian

DATE(S): 5/1/2007

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	26.62	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	16.68	[2"]	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	9.94	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	1.7	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	5.07	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	68	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

	ACCUMULATED VOLUME PURGED (GALLONS)										
PARAMETERS	40	44	48	52	56	60	64	68			
pH	7.53	7.25	7.44	7.49	7.13	7.41	7.48	7.50			
SPEC. COND. (mS/cm)	0.68	0.69	0.67	0.69	0.69	0.67	0.69	0.68			
APPEARANCE	Slightly turbid	→	→	→	→	→	Clear	Clear			
TEMPERATURE (°C)	9.5	9.7	10	10	9.8	9.7	9.6	9.7			
TURBIDITY (NTU)	75.8	NA	157	115	81.4	81.2	49	43.5			
WATER LEVEL	16.90	16.90	16.90	16.90	16.90	16.90	16.90	16.90			
TIME	1248	1258	1301	1303	1305	1307	1310	1312			
Purge Method	Whale pump	→	→	→	→	→	→	→			
Date Developed	5/1/07	→	→	→	→	→	→	→			

Comments:

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: SCM-Cortlandville WELL NO.: DEC-32 Page 1/2

PROJECT NO.: 1174586.00000

STAFF: Bob Fabian

DATE(S): 4/30/2007

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	25.20	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	18.80	[2"]	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	6.40	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	1.09	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	3.26	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	60	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

	ACCUMULATED VOLUME PURGED (GALLONS)										
PARAMETERS	Initial	3	8	12	16	20	Initial	24	28	32	36
pH	7.00	7.26	7.16	7.13	7.12	7.15	7.40	7.45	7.51	7.53	7.55
SPEC. COND. (mS/cm)	1.49	0.90	1.05	1.05	1.03	1.02	0.84	0.89	0.88	0.89	0.87
APPEARANCE	Brown/ Turbid	→	→	→	→	→	→	→	→	Slightly turbid	→
TEMPERATURE (°C)	10.3	10.1	10.0	9.5	9.6	9.6	10.1	10.0	9.6	9.5	9.5
TURBIDITY (NTU)	>1000	→	→	→	→	→	→	→	→	→	218
WATER LEVEL	18.80	23.50	18.85	18.86	18.85	18.85	18.82	19.21	19.20	19.20	19.20
TIME	1610	1622	1635	1645	1655	1705	1513	1515	1518	1521	1524
Purge Method	Bailer	→	→	→	→	→	Whale pump	→	→	→	→
Date Developed	4/30/07	→	→	→	→	→	5/1/07	→	→	→	→

Comments:
Initial PID = 0.1 ppm
No NAPL or DNAPL
PID on 5/1/07 = 0 ppm

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: SCM-Cortlandville WELL NO.: DEC-32

PROJECT NO.: 1174586.00000

STAFF: Bob Fabian

DATE(S): 5/1/2007

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	26.10	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	18.82	[2"]	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	7.28	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	1.24	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	3.71	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	60	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

	ACCUMULATED VOLUME PURGED (GALLONS)										
PARAMETERS	40	44	48	52	56	60					
pH	7.56	7.57	7.58	7.58	7.59	7.58					
SPEC. COND. (mS/cm)	0.88	0.88	0.87	0.87	0.88	0.87					
APPEARANCE	Slightly turbid	Slightly turbid	Clear	→	→	→					
TEMPERATURE (°C)	9.8	9.7	9.5	9.7	9.6	9.7					
TURBIDITY (NTU)	131	116	77.2	63.3	46.2	28.4					
WATER LEVEL	19.21	19.21	19.21	19.21	19.21	19.21					
TIME	1526	1528	1531	1534	1536	1539					
Purge Method	Whale pump	→	→	→	→	→					
Date Developed	5/1/07	→	→	→	→	→					

Comments:

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: SCM-Cortlandville WELL NO.: DEC-33 Page 1/2

PROJECT NO.: 1174586.00000

STAFF: Bob Fabian

DATE(S): 5/1/2007

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	24.00	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	16.25	[2"]	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	7.75	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	1.32	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	3.95	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	40	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

	ACCUMULATED VOLUME PURGED (GALLONS)										
PARAMETERS	Initial	4	8	12	16	20	Initial	24	28	32	36
pH	7.23	7.23	7.21	7.24	7.23	7.23	7.72	7.49	7.49	7.50	7.52
SPEC. COND. (mS/cm)	0.83	0.82	0.80	0.80	0.81	0.81	0.82	0.81	0.82	0.82	0.82
APPEARANCE	Brown/ Turbid	→	→	→	→	→	→	→	→	Slightly turbid	clear
TEMPERATURE (°C)	8.4	8.3	8.4	8.4	8.4	8.5	8.8	8.7	8.7	8.7	8.7
TURBIDITY (NTU)	>1000	→	→	→	→	→	→	→	→	75.1	43.5
WATER LEVEL	16.25	16.28	16.28	16.26	16.27	16.27	16.27	16.30	16.30	16.30	16.31
TIME	812	822	832	840	847	857	813	815	817	819	821
Purge Method	Bailer	→	→	→	→	→	Whale pump	→	→	→	→
Date Developed	5/1/07	→	→	→	→	→	5/2/07	→	→	→	→

Comments:
Initial PID = 0.1 ppm
No NAPL or DNAPL
PID on 5/2/07 = 0 ppm

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE SCM-Cortlandville WELL NO.: DEC-33 Page 2/2

PROJECT NO.: 1174586.00000

STAFF: Bob Fabian

DATE(S): 5/2/2007

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	24.60	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	16.27	[2"]	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	8.33	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	1.42	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	4.25	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	40	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)										
	40	44	48	52	56	60	64	68			
pH	7.52										
SPEC. COND. (mS/cm)	0.81										
APPEARANCE	Clear										
TEMPERATURE (°C)	8.7										
TURBIDITY (NTU)	21.6										
WATER LEVEL	16.31										
TIME	823										
Purge Method	Whale pump										
Date Developed	5/2/07										

Comments:

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: SCM-Cortlandville WELL NO.: DEC-34 Page 1/2

PROJECT NO.: 1174586.00000

STAFF: Bob Fabian

DATE(S): 5/1/2007

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	24.00	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	15.09	**[2"]**	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	8.91	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	1.51	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	4.54	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	44	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

	ACCUMULATED VOLUME PURGED (GALLONS)										
PARAMETERS	Initial	4	8	12	16	20	Initial	24	28	32	36
pH	7.25	7.25	7.25	7.25	7.25	7.25	7.37	7.48	7.52	7.54	7.56
SPEC. COND. (mS/cm)	1.03	1.19	1.15	1.03	1.03	1.03	1.18	0.88	0.86	0.84	0.85
APPEARANCE	Brown/ Turbid	→	→	→	→	→	→	→	Slighty turbid	Slighty turbid	Clear
TEMPERATURE (°C)	8.7	8.5	8.5	8.7	8.8	8.9	9.1	9.1	9.2	9.2	9.1
TURBIDITY (NTU)	>1000	→	→	→	→	→	→	→	270	96.4	51.1
WATER LEVEL	15.09	15.23	15.17	15.16	15.13	15.13	15.11	15.17	15.17	15.17	15.17
TIME	923	930	940	951	1001	1013	906	908	910	912	914
Purge Method	Bailer	→	→	→	→	→	Whale pump	→	→	→	→
Date Developed	5/1/07	→	→	→	→	→	5/2/07	→	→	→	→

Comments:
Initial PID = 8.0 ppm
No NAPL or DNAPL
PID on 5/2/07 = 9.0 ppm

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: SCM-Cortlandville WELL NO.: DEC-34

PROJECT NO.: 1174586.00000

STAFF: Bob Fabian

DATE(S): 5/2/2007

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	24.17	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	15.11	[2"]	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	9.06	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	1.54	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	4.62	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	44	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

	ACCUMULATED VOLUME PURGED (GALLONS)										
PARAMETERS	40	44									
pH	7.57	7.57									
SPEC. COND. (mS/cm)	0.85	0.83									
APPEARANCE	Clear	→									
TEMPERATURE (°C)	9.1	9.1									
TURBIDITY (NTU)	44.2	30									
WATER LEVEL	15.17	15.17									
TIME	916	918									
Purge Method	Whale pump	Whale pump									
Date Developed	5/2/07	→									

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: SCM-Cortlandville WELL NO.: DEC-35 Page 1/2

PROJECT NO.: 1174586.00000

STAFF: Bob Fabian

DATE(S): 4/30/2007

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	22.66	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	15.60	[2"]	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	7.06	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	1.20	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	3.60	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	60	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

	ACCUMULATED VOLUME PURGED (GALLONS)										
PARAMETERS	Initial	4	8	12	16	20	Initial	24	28	32	36
pH	6.97	6.88	6.94	7.06	7.09	7.07	7.28	7.43	7.49	7.50	7.55
SPEC. COND. (mS/cm)	0.90	0.93	0.88	0.79	0.77	0.77	0.77	0.76	0.75	0.76	0.76
APPEARANCE	Brown/ Turbid	→	→	→	→	→	→	→	→	→	→
TEMPERATURE (°C)	10.9	10.5	10.1	10.3	10.2	10.2	10.4	10.2	10.1	10.0	10.1
TURBIDITY (NTU)	>1000	→	→	→	→	→	→	→	→	→	→
WATER LEVEL	15.60	15.81	15.75	15.71	15.70	15.70	15.64	16.25	16.25	16.25	16.21
TIME	1500	1510	1520	1532	1540	1550	1400	1402	1404	1406	1408
Purge Method	Bailer	→	→	→	→	→	Whale pump	→	→	→	→
Date Developed	4/30/07	→	→	→	→	→	5/1/07	→	→	→	→

Comments:
Initial PID = 1.0 ppm
No NAPL or DNAPL
PID on 5/1/07 = 0 ppm

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: SCM-Cortlandville WELL NO.: DEC-35

PROJECT NO.: 1174586.00000

STAFF: Bob Fabian

DATE(S): 5/1/2007

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	22.70	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	15.64	[2"]	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	7.06	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	1.20	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	3.60	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	60	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

	ACCUMULATED VOLUME PURGED (GALLONS)										
PARAMETERS	40	44	48	52	56	60					
pH	7.53	7.56	7.56	7.61	7.57	7.56					
SPEC. COND. (mS/cm)	0.75	0.74	0.74	0.76	0.75	0.75					
APPEARANCE	Slightly Turbid	Clear	→	→	→	→					
TEMPERATURE (°C)	10.2	10.1	10.2	10.2	10.1	10.0					
TURBIDITY (NTU)	150	66	105.5	74.2	25.4	15.6					
WATER LEVEL	16.21	16.22	16.22	16.2	16.22	16.24					
TIME	1410	1412	1415	1417	1419	1421					
Purge Method	Whale pump	→	→	→	→	→					
Date Developed	5/1/07	→	→	→	→	→					

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: SCM-Cortlandville WELL NO.: DEC-36 Page 1/2

PROJECT NO.: 1174586.00000

STAFF: Bob Fabian

DATE(S): 5/1/2007

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	23.60	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	16.54	[2"]	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	7.06	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	1.20	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	3.60	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	76	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

	ACCUMULATED VOLUME PURGED (GALLONS)										
PARAMETERS	Initial	4	8	12	16	20	Initial	24	28	32	36
pH	6.79	6.95	6.94	7.00	7.19	7.06	7.25	7.50	7.56	7.58	7.62
SPEC. COND. (mS/cm)	2.23	0.99	1.04	0.95	0.79	0.73	0.99	0.64	0.62	0.62	0.63
APPEARANCE	Brown/ Turbid	→	→	→	→	→	→	→	→	Slightly turbid	→
TEMPERATURE (°C)	9.6	9.5	9.1	9.3	9.9	9.3	9.9	9.3	9.2	9.3	9.3
TURBIDITY (NTU)	>1000	→	→	→	→	→	→	→	→	243	114
WATER LEVEL	16.54	16.87	16.73	16.69	16.65	16.64	16.62	16.71	16.71	16.71	16.71
TIME	1052	1100	1110	1120	1129	1140	955	957	959	1001	1003
Purge Method	Bailer	→	→	→	→	→	Whale pump	→	→	→	→
Date Developed	5/1/07	→	→	→	→	→	5/2/07	→	→	→	→

Comments:
Initial PID = 6.8 ppm
No NAPL or DNAPL
PID on 5/2/07 = 0.4 ppm

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE SCM-Cortlandville WELL NO.: DEC-36

PROJECT NO.: 1174586.00000

STAFF: Bob Fabian

DATE(S): 5/2/2007

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	23.60	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	16.62	[2"]	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	6.98	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	1.19	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	3.56	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	76	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

	ACCUMULATED VOLUME PURGED (GALLONS)										
PARAMETERS	40	44	48	52	56	60	64	68	72	76	
pH	7.61	7.64	7.63	7.65	7.63	7.66	7.64	7.64	7.65	7.65	
SPEC. COND. (mS/cm)	0.61	0.62	0.61	0.61	0.60	0.60	0.60	0.60	0.60	0.60	
APPEARANCE	Slightly turbid	→	→	→	Clear	→	→	→	→	→	
TEMPERATURE (°C)	9.3	9.4	9.2	9.3	9.3	9.3	9.3	9.3	9.3	9.2	
TURBIDITY (NTU)	128	118	123	99.1	53.6	32.5	44.2	98.2	32.5	29.1	
WATER LEVEL	16.71	16.71	16.71	16.71	16.71	16.71	16.71	16.71	16.71	16.71	
TIME	1005	1007	1010	1013	1015	1017	1020	1023	1025	1027	
Purge Method	Whale pump	→	→	→	→	→	→	→	→	→	
Date Developed	5/2/07	→	→	→	→	→	→	→	→	→	

APPENDIX C

MONITORING WELL SAMPLING LOGS AND CHAIN OF CUSTODY FORMS

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11174586.00000 Site: SCM Cortlandville Well I.D.: MW-15

Date: 5/9/07 Sampling Personnel: Brian Weeks, Tim Ifkovich Company: URS Corporation

Purging/Sampling Device: Peristaltic Pump Tubing Type: LDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 17.18 Depth to Well Bottom: 44.28 Well Diameter: 2" Screen Length:

Casing Type: PVC Volume in 1 Well Casing ~~(liters)~~ gal: 4.4 Estimated Purge Volume ~~(liters)~~ gal: 2.9

Sample ID: MW-15 Sample Time: 11:27 QA/QC:

Sample Parameters: VOCs 8260B

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1108	7.03	8.63	.409	14.53	5	112	600	17.20
1111	6.59	7.56	.389	13.45	3	128	600	17.19
1114	6.39	7.44	.388	13.21	2	138	600	17.20
1117	6.32	7.36	.385	12.98	3	144	600	17.21
1120	6.29	7.36	.384	12.82	1	147	600	17.21
1123	6.31	7.29	.384	12.74	1	148	600	17.22
1126	6.34	7.32	.383	12.87	2	148	600	17.22
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11174586.00000 Site: SCM Cortlandville Well I.D.: MW-02S

Date: 5/8/07 Sampling Personnel: Brian Weeks, Tim Ifkovich Company: URS Corporation

Purging/Sampling Device: peristaltic pump Tubing Type: LDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 41.91 Depth to Well Bottom: 70.50 Well Diameter: 2" Screen Length:

Casing Type: PVC Volume in 1 Well Casing (~~liters~~) gal: 4.7 Estimated Purge Volume (~~liters~~) gal: 4.0

Sample ID: MW-2S Sample Time: 16:22 QA/QC:

Sample Parameters: VOCs, 8260B

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1603	6.73	14.25	.634	13.73	3	173	800	42.02
1606	6.45	12.40	.606	12.16	3	138	800	42.02
1609	6.48	12.43	.605	12.00	2	136	800	42.01
1612	6.56	12.46	.606	11.87	2	135	800	42.03
1615	6.52	11.54	.608	12.04	2	137	800	42.04
1618	6.55	11.50	.606	11.95	1	138	800	42.04
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11174586.00000 Site: SFM Cortlandville Well I.D.: MW-04S

Date: 5/18/07 Sampling Personnel: Brian Weeks, Jim Istrovich Company: URS Corporation

Purging/ Sampling Device: Grundfos Tubing Type: LDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 40.04 Depth to Well Bottom: Well Diameter: 2" Screen Length:

Casing Type: PVC Volume in 1 Well Casing (liters): Estimated Purge Volume ~~(liters)~~ gal: 9.22

Sample ID: MW-4S Sample Time: 9:32 QA/QC:

Sample Parameters: VOCs, 8260B

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0916	5.97	11.50	.707	14.64	12.9	175	700	40.05
0919	6.11	11.38	.700	13.73	1.5	166	700	40.12
0922	6.21	11.36	.698	13.46	4.4	158	700	40.19
0925	6.23	11.49	.696	13.25	8.2	157		40.15
0928	6.41	11.91	.696	13.01	0.0	152		40.18
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11174586.00000 Site: SEM Cortlandville Well I.D.: MW-55

Date: 5/9/07 Sampling Personnel: Brian Weeks, Tim Iskovich Company: URS Corporation

Purging/ Sampling Device: Peristaltic Pump Tubing Type: LDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 9.20 Depth to Well Bottom: 39.38 Well Diameter: 2" Screen Length:

Casing Type: PVC Volume in 1 Well Casing ~~(liters)~~ gal: 4.9 Estimated Purge Volume ~~(liters)~~ gal: 4.8

Sample ID: MW-55 Sample Time: 8:56 QA/QC:

Sample Parameters: VOCs, 8260B

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0828	6.74	13.26	[illegible]	13.62	2	158	600	9.21
0831	6.43	12.84	.514	13.65	1	169	600	9.20
0834	6.48	12.85	.514	13.58	1	166	600	9.20
0837	6.53	12.84	.514	13.57	1	163	600	9.20
0840	6.60	12.85	.513	13.53	1	164	600	9.21
0843	6.64	12.85	.513	13.54	1	159	600	9.20
0846	6.66	12.87	.513	13.50	1	159	600	9.20
0849	6.68	12.85	.513	13.49	1	158	600	9.21
0852	6.74	12.87	.513	13.48	1	158	600	9.21
0855	6.74	12.90	.513	13.49	1	158	600	9.21
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11174586.00000 Site: SCM Cortlandville Well I.D.: MW-10S

Date: 5/8/07 Sampling Personnel: Brian Weeks, Tim Ifkovitch Company: URS Corporation

Purging/ Sampling Device: Grundfos Tubing Type: LDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 38.52 Depth to Well Bottom: 64.55 Well Diameter: 2" Screen Length:

Casing Type: PVC Volume in 1 Well Casing ~~(liters)~~ gal: 4.3 Estimated Purge Volume ~~(liters)~~ gal: 5.3

Sample ID: MW-10S Sample Time: 17:19 QA/QC:

Sample Parameters: VOCs, 8260B

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1700	6.33	11.11	.589	12.22	0	153	1000	39.60
1703	6.16	10.96	.587	11.57	3	151	1000	38.58
1706	6.18	11.09	.587	11.21	2	151	1000	38.58
1709	6.24	11.18	.586	11.10	2	149	1000	38.58
1712	6.31	11.15	.586	11.05	1	146	1000	38.58
1715	6.41	11.12	.586	11.01	2	139	1000	38.58
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11174586.00000 Site: SCM Cortlandville Well I.D.: DEC 15

Date: 5/11/07 Sampling Personnel: Brian Weeks, Tim Ifkovich Company: URS Corporation

Purging/Sampling Device: Grundfos Tubing Type: LDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 5.80 Depth to Well Bottom: 12.75 Well Diameter: 2" Screen Length: 7'

Casing Type: PVC Volume in 1 Well Casing ~~(liters)~~ gal: 1.1 Estimated Purge Volume ~~(liters)~~ gal: 3.6

Sample ID: DEC-15 Sample Time: 8:07 QA/QC:

Sample Parameters: VOCs, 8260B

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0751	6.88	12.46	.532	12.92	71,000	129	1000	5.82
0754	6.97	13.01	.525	13.11	143	117	850	5.82
0757	7.18	13.43	.525	13.01	89	108	850	5.82
0800	7.24	13.45	.524	13.09	44	106	850	5.82
0803	7.23	13.43	.523	13.19	24	108	850	5.82
0806	7.21	13.43	.522	13.22	18	111	850	5.82
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11174586.00000 Site: SCM Cortlandville Well I.D.: DEC 25

Date: 5/10/07 Sampling Personnel: Brian Weeks, Tim Ifkovich Company: URS Corporation

Purging/Sampling Device: Grundfos Tubing Type: LDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 30.78 Depth to Well Bottom: 38.70 Well Diameter: 2" Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing ~~(liters)~~ gal: 1.3 Estimated Purge Volume ~~(liters)~~ gal: 7.2

Sample ID: DEC-25 Sample Time: 12:13 QA/QC: 2007 05 10 - F02

Sample Parameters: VOCs, 8260B

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1134	7.10	12.22	1.09	11.74	>1000	113	700	32.26
1137	7.34	13.06	1.07	11.88	>1000	98	700	32.28
1140	7.58	12.96	1.10	11.99	580	79	700	31.61
1143	7.63	13.42	1.05	11.71	472	77	700	31.16
1146	7.65	12.87	1.09	12.18	344	74	700	32.49
1149	7.60	12.55	1.09	12.19	338	77	700	32.50
1152	7.56	12.47	1.08	12.20	224	78	700	32.47
1155	7.56	12.42	1.06	12.16	140	78	700	32.48
1158	7.57	12.42	1.04	12.16	109	77	700	32.48
1201	7.58	12.39	1.03	12.18	84	77	700	32.50
1204	7.58	12.40	1.02	12.18	73	77	700	32.50
1207	7.59	12.41	1.00	12.14	68	78	700	32.50
1210	7.57	12.39	.99	12.20	54	79	700	32.50
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES–0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

Flow Rate through Grundfos could not remain constant

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11174586.00000 Site: SCM Cortlandville Well I.D.: DEC 35

Date: 5/10/07 Sampling Personnel: Brian Weeks, Tim Ifkovich Company: URS Corporation

Purging/ Sampling Device: Grundfos Tubing Type: LDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 5.88 Depth to Well Bottom: 10.03 Well Diameter: 2" Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing ~~(liters)~~ gal: .68 Estimated Purge Volume ~~(liters)~~ gal: 2.85

Sample ID: DEC-35 Sample Time: 9:36 QA/QC:

Sample Parameters: VOCs, 8260B

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0918	6.43	9.62	.541	14.03	403	175	600	5.92
0921	6.11	8.61	.529	13.07	227	151	600	5.96
0924	6.09	8.55	.528	12.89	122	151	600	5.98
0927	6.11	8.67	.527	12.83	89	150	600	5.98
0930	6.22	8.68	.527	12.77	49	145	600	5.98
0933	6.31	8.63	.528	12.75	38	141	600	5.98
0936	6.38	8.67	.528	12.72	27	138	600	5.98
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11174586.00000 Site: SCM Cortlandville Well I.D.: DEC 045

Date: 5/9/07 Sampling Personnel: Brian Weeks, Tim Ifkovich Company: URS Corporation

Purging/ Sampling Device: Grundfos Tubing Type: LDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 16.57 Depth to Well Bottom: 21.90 Well Diameter: 2" Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing ~~(liters)~~ gal: .82 Estimated Purge Volume ~~(liters)~~ gal: 2.97

Sample ID: DEC-45 Sample Time: 19.12 QA/QC:

Sample Parameters: VOCs, 8260B

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1857	6.16	9.71	1.54	15.72	48	182	750	17.13
1900	5.72	9.38	1.63	14.44	19	194	750	17.17
1903	5.53	9.33	1.62	13.94	10	194	750	17.17
1906	5.55	9.30	1.61	13.84	10	193	750	17.16
1909	5.65	9.30	1.60	13.77	8	189	750	17.16
1912	5.74	9.27	1.59	13.63	7	187	750	17.16
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11174586.00000 Site: SCM Cortlandville Well I.D.: DEC-55

Date: 5/9/07 Sampling Personnel: Brian Weeks, Tim Iskovich Company: URS Corporation

Purging/ Sampling Device: Peristaltic Pump Tubing Type: LDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 8.55 Depth to Well Bottom: 12.85 Well Diameter: 2" Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing ~~(liters)~~ gal: .71 Estimated Purge Volume ~~(liters)~~ gal: 2.69

Sample ID: DEC-55 Sample Time: 16:26 QA/QC:

Sample Parameters: VOCs, 8260B

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1609	7.50	11.10	.680	11.08	151	50	600	8.58
1612	6.91	10.30	.665	10.43	81	93	600	8.59
1615	6.51	10.00	.662	10.28	28	111	600	8.60
1618	6.37	9.92	.661	10.13	13	119	600	8.61
1621	6.32	9.91	.660	10.04	6	123	600	8.58
1624	6.39	9.85	.660	9.95	4	122	600	
~~1627~~							~~600~~	
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11174586.00000 Site: SCM Cortlandville Well I.D.: DEC 65

Date: 5/11/07 Sampling Personnel: Brian Weeks, Tim Ifkovich Company: URS Corporation

Purging/Sampling Device: Grundfos Tubing Type: LDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 11.14 Depth to Well Bottom: 14.05 Well Diameter: 2" Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing ~~(liters)~~ gal: .47 Estimated Purge Volume ~~(liters)~~ gal: 3.17

Sample ID: DEC-65 Sample Time: 635 QA/QC:

Sample Parameters: VOCs, 8260B

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0620	6.40	9.04	.750	13.16	392	137	800	11.22
0623	6.28	8.73	.661	12.53	82	140	800	11.28
0626	6.22	9.02	.654	12.29	79	143	800	11.29
0629	6.17	9.08	.647	12.36	34	145	800	11.29
0632	6.14	9.12	.640	12.50	15	148	800	11.29
0635	6.11	9.12	.636	12.50	12	150	800	11.29
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES–0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11174586.00000 ~~Groundfos~~ Site: SCM Cortlandville Well I.D.: DEC 7

Date: 5/11/07 Sampling Personnel: Brian Weeks, Tim Iskovich Company: URS Corporation

Purging/ Sampling Device: Groundfos Tubing Type: LDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 17.76 Depth to Well Bottom: 21.02 Well Diameter: 2" Screen Length: 11.51

Casing Type: PVC Volume in 1 Well Casing ~~(liters)~~: gal .53 Estimated Purge Volume ~~(liters)~~: gal .53

Sample ID: DEC-7 Sample Time: 5/11/07 1350 QA/QC:

Sample Parameters: VOCs, 8260B

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1819	7.12	11.51	1.03	9.82	21000	88		19.34
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

Well went dry @ 1821

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11174586.00000 Site: SCM Cortlandville Well I.D.: DEC 08

Date: 5/9/07 Sampling Personnel: Brian Weeks, Jim Jakovich Company: URS Corporation

Purging/ Sampling Device: Peristaltic Pump Tubing Type: LDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 12.19 Depth to Well Bottom: 18.57 Well Diameter: 2" Screen Length: 15

Casing Type: PVC Volume in 1 Well Casing ~~(liters)~~ gal: 1 Estimated Purge Volume ~~(liters)~~ gal: 3.8

Sample ID: DEC-8 Sample Time: 1724 QA/QC:

Sample Parameters: VOCs, 8260B

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1707	6.24	11.15	.86	13.90	40	161	850	12.24
1710	5.95	9.56	.871	13.38	54	175	850	12.25
1713	5.76	9.44	.875	13.21	35	184	850	12.27
1716	5.71	9.39	.875	13.19	17	185	850	12.28
1719	5.76	9.33	.884	13.18	10	185	850	12.29
1722	5.82	9.34	.884	13.17	8	182	850	12.28
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cy} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11174586.00000 Site: SCM Cortlandville Well I.D.: DEC-9

Date: 5/9/07 Sampling Personnel: Brian Weeks, Tim Iskovich Company: URS Corporation

Purging/ Sampling Device: Peristaltic Pump Tubing Type: LDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 9.07 Depth to Well Bottom: 16.80 ~~18.00~~ Well Diameter: 2" Screen Length: 12'

Casing Type: PVC Volume in 1 Well Casing ~~(liters)~~ gal: 1.3 Estimated Purge Volume ~~(liters)~~ gal: 3.1

Sample ID: DEC-9 Sample Time: 16:56 QA/QC:

Sample Parameters: VOCs, 8260B

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1639	6.21	11.33	.814	12.87	18	151	700	9.10
1642	6.00	11.23	.808	12.03	25	156	700	9.11
1645	5.91	10.99	.811	11.85	14	162	700	9.12
1648	5.92	10.89	.814	11.78	18	162	700	9.13
1651	6.00	10.84	.815	11.69	5	161	700	9.13
1654	6.05	10.84	.814	11.61	4	160	700	9.13
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11174586.00000 Site: SCM Cortlandville Well I.D.: DEC-10

Date: 5/9/07 Sampling Personnel: Brian Weeks, Tim Ifkovich Company: URS Corporation

Purging/Sampling Device: Peristaltic Pump Tubing Type: LDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 7.94 Depth to Well Bottom: 14.42 Well Diameter: 2" Screen Length: 12'

Casing Type: PVC Volume in 1 Well Casing ~~(liters)~~ gal: 1.1 Estimated Purge Volume ~~(liters)~~ gal: 3.3

Sample ID: DEC-10 Sample Time: 15:53 QA/QC:

Sample Parameters: VOCs, 8260B

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1535	6.05	10.12	1.11	11.27	323	188	700	8.02
1538	5.19	9.70	.793	12.09	[illegible]	201	700	8.02
1541	4.94	9.49	.677	12.60	18	201	700	8.02
1544	4.95	9.46	.657	12.25	12	198	700	8.02
1547	5.03	9.49	.654	12.05	9	193	700	8.02
1550	5.22	9.47	.652	11.51	7	184	700	8.02
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11174586.00000 Site: SCM Cortlandville Well I.D.: DEC 11

Date: 5/11/07 Sampling Personnel: Brian Weeks, Tim Isgrovich Company: URS Corporation

Purging/Sampling Device: Grundfos Tubing Type: LDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 9.22 Depth to Well Bottom: 15.35 Well Diameter: 2" Screen Length: 12'

Casing Type: PVC Volume in 1 Well Casing ~~(liters)~~ gal: 1 Estimated Purge Volume ~~(liters)~~ gal: 5

Sample ID: DEC-11 Sample Time: 11:33 QA/QC:

Sample Parameters: VOCs, 8260B

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1108	6.75	9.80	.645	12.87	>1000	118	750	9.30
1111	6.65	9.87	.646	12.13	>1000	120	750	9.33
1114	6.51	9.87	.646	11.92	698	122	750	9.34
1117	6.56	9.80	.645	11.84	337	128	750	9.34
1120	6.57	9.78	.644	11.82	147	128	750	9.35
1123	6.58	9.77	.643	11.81	99	129	750	9.35
1126	6.61	9.75	.643	11.76	42	129	750	9.35
1129	6.60	9.76	.644	11.75	33	128	750	9.35
1132	6.55	9.76	.643	11.72	31	128	750	9.35
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11174586.00000 Site: SCM Cortlandville Well I.D.: DEC 12

Date: 5/11/07 Sampling Personnel: Brian Waeks, Tim Iffkovich Company: URS Corporation

Purging/ Sampling Device: Grundfos Tubing Type: LDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 14.57 Depth to Well Bottom: 20.65 Well Diameter: 2" Screen Length: 15'

Casing Type: PVC Volume in 1 Well Casing ~~(liters)~~ gal: .99 Estimated Purge Volume ~~(liters)~~ gal: 4.8

Sample ID: DEC-12 Sample Time: 12:25 QA/QC: 2007 05 11 FD-1

Sample Parameters: VOCs, 8260B

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1201	6.55	11.02	.835	13.14	>1000	131	750	14.61
1204	6.57	11.15	.815	12.65	>1000	129	750	14.63
1207	6.69	10.68	.793	12.33	284	120	750	14.64
1210	6.69	10.70	.790	12.20	123	121	750	14.64
1213	6.71	10.72	.787	12.12	[illegible]	122	750	14.64
1216	6.73	10.77	.784	12.03	[illegible]	122	750	14.64
1219	6.76	10.76	.783	12.00	25	122	750	
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11174586.00000 Site: SCM Cortlandville Well I.D.: DEC 13

Date: 5/10/07 Sampling Personnel: Brian Weeks, Tim Ifkovitch Company: URS Corporation

Purging/Sampling Device: Grundfos Tubing Type: LDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 19.60 Depth to Well Bottom: 26.29 Well Diameter: 2" Screen Length: 15'

Casing Type: PVC Volume in 1 Well Casing ~~(liters)~~ gal: 1.1 Estimated Purge Volume ~~(liters)~~ gal: 6.5

Sample ID: DEC-13 Sample Time: 2100 QA/QC:

Sample Parameters: VOCs, 8260B

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
2031	7.09	10.54	.781	13.66	>1000	103	850	19.78
2034	7.12	10.69	.781	13.45	>1000	100	850	19.78
2037	7.11	11.10	.781	13.22	899	101	850	19.79
2040	7.19	11.00	.790	13.18	265	99	850	19.79
2043	7.21	11.00	.796	13.15	180	97	850	19.79
2046	7.22	10.99	.803	13.14	101	97	850	19.79
2049	7.23	11.01	.807	13.15	77	96	850	19.79
2052	7.24	11.10	.815	13.11	43	97	850	19.79
2055	7.23	11.00	.819	13.15	42	98	850	19.79
2058	7.24	11.00	.819	13.11	31	99	850	19.79
~~2101~~							~~850~~	
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: ~~CT~~ 11174586.00000 Site: SCM Cortlandville Well I.D.: DEC 14

Date: 5/10/07 Sampling Personnel: Brian Weeks, Tim Istrovich Company: URS Corporation

Purging/ Sampling Device: Grundfos Tubing Type: LDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 18.31 Depth to Well Bottom: 24.23 Well Diameter: 2" Screen Length: 15'

Casing Type: PVC Volume in 1 Well Casing ~~(liters)~~ gal: 1.97 Estimated Purge Volume ~~(liters)~~ gal: 7.7

Sample ID: DEC-14 Sample Time: 19:30 QA/QC:

Sample Parameters: VOCs, 8260B

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)	
1845	7.38	11.11	.679	14.28	1000	79	1250	18.39	
1848	7.11	11.39	.687	13.13	750	96	650	18.39	
1851	7.18	11.45	.713	13.11	419	99	650	18.37	← *
1854	7.20	11.64	.714	13.18	387	92	650	18.37	
1857	7.22	11.59	.724	13.08	265	94	650	18.39	
1900	7.26	11.64	.726	13.10	214	93	650	18.39	← *
1903	7.35	11.84	.725	13.24	241	88	650	18.37	
1906	7.34	11.64	.731	13.07	193	90	650	18.38	
1909	7.34	11.62	.731	13.03	150	91	650	18.39	
1912	7.36	11.67	.731	13.02	114	90	650	18.39	← *
1915	7.47	11.84	.727	13.16	240	89	650	18.39	
1918	7.42	11.79	.732	12.99	235	88	650	18.39	← *
1929	7.32	11.70	.733	13.19	227	91	650	18.39	
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---		

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

* Generator shut down several times during purge

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11174586.00000 Site: SCM Cortlandville Well I.D.: DEC 15

Date: 5/11/07 Sampling Personnel: Brian Weeks, Tim Istrovich Company: URS Corporation

Purging/ Sampling Device: Grundfos Tubing Type: LDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 14.35 Depth to Well Bottom: 26.35 Well Diameter: 2" Screen Length: 15'

Casing Type: PVC Volume in 1 Well Casing ~~(liters)~~ gal 1.14 Estimated Purge Volume ~~(liters)~~ gal 6.66

Sample ID: DEC-15 Sample Time: 9:47 QA/QC:

Sample Parameters: VOCs, 8260B

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0911	6.66	10.85	.741	14.37	>1000	127	200	19.44
0914	6.63	11.19	.700	13.77	>1000	135	200	19.47
0917	6.61	10.99	.705	13.84	>1000	133	200	19.47
0920	6.52	10.86	.691	13.97	>1000	130	200	19.48
0923	6.68	11.08	.687	13.80	>1000	134	200	19.45
0926	6.60	11.48	.681	13.46	>1000	126	200	19.39
0929	6.92	12.27	.690	13.48	>1000	116	200	19.51
0932	6.91	11.39	.692	13.81	>1000	119	200	19.55
0935	6.84	10.74	.685	13.99	>1000	122	200	19.56
0938	6.85	10.68	.684	13.92	291	112	200	19.57
0941	6.96	10.70	.683	13.89	80	111	200	19.59
0944	7.00	10.71	.683	13.87	54	110	200	19.58
0947	6.98	10.66	.683	13.84	44	110	200	19.58
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11174586.00000 Site: SGM Cortlandville Well I.D.: DEC-16

Date: 5/11/07 Sampling Personnel: Brian Weeks, Tim Ifkovich Company: URS Corporation

Purging/ Sampling Device: Grundfos Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 19.21 Depth to Well Bottom: 26.62 Well Diameter: 2" Screen Length: 15'

Casing Type: PVC Volume in 1 Well Casing ~~(liters)~~ gal: 1.21 Estimated Purge Volume ~~(liters)~~ gal: 5.15

Sample ID: DEC-16 Sample Time: 8:55 QA/QC:

Sample Parameters: VOCs, 8260B

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0825	7.19	11.02	.888	12.51	>1000	138	500	19.22
0828	6.65	11.88	.805	11.87	>1000	121	650	19.24
0831	6.74	11.82	.778	11.79	>1000	116	650	19.22
0834	6.94	12.17	.759	11.83	>1000	102	650	19.22
0837	6.95	11.39	.762	11.88	308	107	650	19.28
0840	6.91	11.29	.760	11.81	190	110	650	19.29
0843	6.94	11.29	.753	11.76	118	115	650	19.29
0846	6.91	11.29	.747	11.77	79	115	650	19.29
0849	6.85	11.40	.744	11.65	47	114	650	19.29
0852	6.98	11.61	.736	11.62	40	113	650	19.29
0855	6.99	11.80	.734	11.57	38	110	650	19.29
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11174586.00000 Site: SCM Gortlandville Well I.D.: DEC 17

Date: 5/10/07 Sampling Personnel: Brian Weeks, Tim Ifkovich Company: URS Corporation

Purging/Sampling Device: Grundfos Tubing Type: LDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 8.98 Depth to Well Bottom: 24.31 Well Diameter: 2" Screen Length: 15'

Casing Type: PVC Volume in 1 Well Casing ~~(liters)~~ gal: 1.7 Estimated Purge Volume ~~(liters)~~ gal: 6.9

Sample ID: DEC-17 Sample Time: 11:10 QA/QC:

Sample Parameters: VOCs, 8260B

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1030	6.69	10.16	.649	12.27	358	112	400	13.99
1033	6.73	10.18	.646	11.19	>1000	116	500	13.98
1036	6.68	10.74	.636	10.72	>1000	127	650	13.94
1039								
1042								
1045	6.77	9.84	.635	11.47	>1000	119	650	14.02
1048	6.58	9.69	.623	11.24	>1000	133	650	14.06
1051	6.56	9.66	.619	11.16	>1000	134	650	14.08
1054	6.68	9.66	.620	11.08	636	128	650	14.11
1057	6.75	9.58	.623	11.07	256	123	650	14.11
1100	6.77	9.65	.622	11.05	151	123	650	14.11
1103	6.78	9.65	.629	10.93	99	123	650	14.11
1106	6.79	9.62	.627	10.99	67	123	650	14.11
1109	6.79	9.61	.628	11.01	48	123	650	14.07
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

1039 - Grundfos lost power
1044 - Grundfos back up to speed

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11174586.00000 Site: SCM Cortlandville Well I.D.: DEC 18

Date: 5/10/07 Sampling Personnel: Brian Weeks, Tim Istorich Company: URS Corporation

Purging/ Sampling Device: Grundfos Tubing Type: LDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 9.05 Depth to Well Bottom: 16.59 Well Diameter: 2" Screen Length: 12'

Casing Type: PVC Volume in 1 Well Casing ~~(liters)~~ gal 1.23 Estimated Purge Volume ~~(liters)~~ gal 3.26

Sample ID: DEC-18 Sample Time: 10:17 QA/QC:

Sample Parameters: VOCs, 8260B

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0958	6.08	8.79	.628	11.23	932	150	650	9.13
1001	5.92	8.71	.590	10.61	737	152	650	9.12
1004	5.88	8.68	.579	10.36	354	154	650	9.12
1007	5.87	8.82	.573	10.54	97	157	650	9.12
1010	5.91	8.78	.571	10.73	33	157	650	9.12
1013	5.98	8.76	.570	10.78	23	155	650	9.13
1016	6.09	8.79	.569	10.81	16	150	650	9.13
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11174586.00000 Site: SCM Cortlandville Well I.D.: DEC 19

Date: 5/10/07 Sampling Personnel: Brian Weeks, Tim Iskovich Company: URS Corporation

Purging/ Sampling Device: Grundfos Tubing Type: LDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 2.81 Depth to Well Bottom: 11.54 Well Diameter: 2" Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing ~~(liters)~~ gal: 1.42 Estimated Purge Volume ~~(liters)~~ gal: 2.58

Sample ID: DEC-19 Sample Time: 902 QA/QC:

Sample Parameters: VOCs, 8260B

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0847	6.26	10.54	.537	11.37	327	148	650	2.83
0850	6.17	9.74	.542	10.75	140	144	650	2.84
0853	6.07	9.49	.543	10.73	31	149	650	2.84
0856	6.09	9.44	.543	10.63	16	149	650	2.84
0859	6.13	9.41	.544	10.55	13	147	650	2.84
0902	6.20	9.41	.544	10.52	10	144	650	2.84
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11174586.00000 Site: SCM Cortlandville Well I.D.: DEC 20

Date: 5/10/07 Sampling Personnel: Brian Weeks, Tim Eftovich Company: URS Corporation

Purging/ Sampling Device: Grundfos Tubing Type: LDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 7.79 Depth to Well Bottom: 14.33 Well Diameter: 2" Screen Length: 12'

Casing Type: PVC Volume in 1 Well Casing ~~(liters)~~ gal: 1.07 Estimated Purge Volume ~~(liters)~~ gal: 2.75

Sample ID: DEC-20 Sample Time: 8:32 QA/QC:

Sample Parameters: VOCs, 8260B

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0813	6.60	11.20	.527	12.55	150	114	650	7.79
0816	6.68	10.25	.530	12.40	121	115	650	7.80
0819	6.54	10.00	.528	12.27	102	124	650	7.81
0822	6.46	9.89	.526	12.17	74	129	650	7.81
0825	6.51	9.87	.525	12.10	44	130	650	7.82
0828	6.55	9.87	.526	12.08	31	128	650	7.82
0831	6.56	9.88	.525	12.06	28	128	650	7.82
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11174586.00000 Site: SCM Cortlandville Well I.D.: DEC 21

Date: 5/10/07 Sampling Personnel: Brian Weeks, Tim Iskovich Company: URS Corporation

Purging/ Sampling Device: Grundfos Tubing Type: LDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 8.20 Depth to Well Bottom: 14.44 Well Diameter: 2" Screen Length: 12'

Casing Type: PVC Volume in 1 Well Casing ~~(liters)~~ gal: 1.02 Estimated Purge Volume ~~(liters)~~ gal: 3.88

Sample ID: DEC-21 Sample Time: 7:59 QA/QC:

Sample Parameters: VOCs, 8260B

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0738	6.21	10.43	.505	12.48	1000	142	700	8.24
0741	5.94	9.78	.498	11.80	266	149	700	8.26
0744	5.90	9.67	.492	11.67	153	151	700	8.27
0747	5.90	9.63	.492	11.62	151	82	700	8.28
0750	5.96	9.61	.491	11.61	148	57	700	8.29
0753	6.04	9.59	.492	11.59	139	42	700	8.29
0756	6.05	9.61	.492	11.56	134	36	700	8.29
0759	6.14	9.62	.493	11.54	130	26	700	
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11174586.00000 Site: SCM Cortlandville Well I.D.: DEC 22

Date: 5/10/07 Sampling Personnel: Brian Weeks, Tim Istvanich Company: URS Corporation

Purging/ Sampling Device: Peristaltic Pump Tubing Type: LDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 7.66 Depth to Well Bottom: 13.43 Well Diameter: 2" Screen Length: 12'

Casing Type: PVC Volume in 1 Well Casing ~~(liters)~~ gal: .94 Estimated Purge Volume ~~(liters)~~ gal: 3.17

Sample ID: DEC-22 Sample Time: 705 QA/QC: 2007 05 10-1501

Sample Parameters: VOCs, 8260B

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0650	6.18	10.77	.476	12.62	53	167	800	6.59
0653	5.41	9.86	.470	11.46	25	191	800	6.61
0656	5.36	9.86	.470	11.31	13	193	800	6.60
0659	5.37	9.85	.470	11.24	10	194	800	6.61
0702	5.38	9.81	.470	11.19	7	194	800	6.61
0705	5.40	9.82	.470	11.12	7	192	800	6.61
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11174586.00000 Site: SCM Cortlandville Well I.D.: DEC-23

Date: 5/8/07 Sampling Personnel: Brian Weeks, Tim Ishovich Company: URS Corporation

Purging/Sampling Device: Grundfos Tubing Type: LDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 38.38 Depth to Well Bottom: 46.41 Well Diameter: 2" Screen Length: 15'

Casing Type: PVC Volume in 1 Well Casing ~~(liters)~~ gal: 1.31 Estimated Purge Volume ~~(liters)~~ gal: 10.3

Sample ID: DEC-23 Sample Time: 11:00 QA/QC: ~~DUP~~

Sample Parameters: VOCs, 8260B

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0953	6.68	12.99	.774	14.16	71000	143	600	38.35
0958	6.91	14.48	.757	13.40	71000	130	600	38.42
1003	7.29	14.29	.777	13.96	71000	109	600	38.44
1008	7.27	15.22	.773	13.33	1000	115	600	38.37
1013	7.26	14.03	.767	13.89	71000	113	600	38.43
1018	7.41	14.50	.783	13.82	71000	96	600	38.34
1023	7.31	13.30	.774	13.82	71000	112	600	38.52
1028	7.21	13.37	.779	14.30	1000	114	600	38.45
1033	7.22	12.92	.773	14.40	742	113	600	38.46
1038	7.27	12.89	.771	14.32	237	109	600	38.40
1043	7.44	13.25	.774	14.37	165	99	600	38.45
1048	7.42	13.63	.770	13.90	20	103	600	38.41
1053	7.44	13.71	.769	13.77	11	103	600	38.41
1058	7.43	13.77	.768	13.89	7	104	600	38.42
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11174586.00000 Site: SGM Cortlandville Well I.D.: DEC-24

Date: 5/8/07 Sampling Personnel: Brian Weeks, Tim Ishovich Company: URS Corporation

Purging/ Sampling Device: Grundfos Tubing Type: LDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 38.71 Depth to Well Bottom: 46.50 Well Diameter: 2" Screen Length: 15'

Casing Type: PVC Volume in 1 Well Casing ~~(liters)~~ gal: 1.27 Estimated Purge Volume ~~(liters)~~ gal: 15.85

Sample ID: DEC-24 Sample Time: 13:42 QA/QC:

Sample Parameters: VOCs, 8260B

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)	
1225	5.68	13.49	.654	13.87	71000	211	800	38.95	
1230	5.91	13.01	.649	12.82	71000	196	800	39.01	
1235	6.41	12.88	.643	12.53	710[illegible]	157	800	39.00	
1240	6.92	12.89	.642	12.35	130	121	800	39.02	
1245	7.49	13.10	.644	12.05	322	98	800	39.06	
1250	7.45	12.90	.646	12.00	57	100	800	39.08	
1255	7.50	12.89	.647	12.00	27	100	800	39.08	← Generator turned off
1300	7.79	16.36	.664	13.26	7[illegible]000	100	800	39.01	
1305	7.57	14.27	.653	12.69	71000	102	800	39.06	
1310	7.50	13.80	.645	12.32	575	100	800	39.08	
1315	7.53	13.63	.643	12.09	227	96	800	38.96	
1320	7.57	13.39	.641	12.07	78	94	800	39.06	
1325	7.59	13.29	.642	11.98	41	95	800	39.08	
1330	7.62	13.29	.641	11.92	41	95	800	39.09	
1335	7.62	13.27	.639	11.88	29	94	800	39.11	
1340	7.65	13.22	.638	11.90	18	96	800	39.09	
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---		

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

Generator died at 1302, causing major fluctuations in parameters. Once turbidity below 50, will sample

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11174586.00000 Site: SCM Cortlandville Well I.D.: DEC-25

Date: 5/8/07 Sampling Personnel: Brian Weeks, Tim Ifkovich Company: URS Corporation

Purging/ Sampling Device: ~~[illegible]~~ Grundfos Tubing Type: LDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 40.08 Depth to Well Bottom: 45.38 Well Diameter: 2" Screen Length: 15'

Casing Type: PVC Volume in 1 Well Casing ~~(liters)~~ gal: 1.35 Estimated Purge Volume ~~(liters)~~ gal: 9.51

Sample ID: DEC-25 Sample Time: 15:28 QA/QC:

Sample Parameters: VOCs 8260B

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1426	5.47	13.75	.616	14.00	>1000	228	600	40.09
1431	6.28	15.28	.595	11.47	>1000	154	600	40.06 ← Generator turned off again
1436							600	
1441							600	
1446	6.82	13.94	.597	11.62	>1000	126	600	40.11
1451	6.94	12.05	.603	12.13	>1000	122	600	40.23
1456	7.20	12.16	.601	11.95	625	113	600	40.19
1501	7.51	12.27	.602	11.47	212	97	600	40.19
1506	7.56	12.23	.602	11.44	116	90	600	40.19
1511	7.58	12.30	.598	11.40	68	90	600	40.19
1516	7.57	12.33	.595	11.37	41	93	600	40.18
1521	7.58	12.36	.596	11.41	23	93	600	40.18
1526	7.57	12.38	.598	11.36	14	95	600	40.18
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11174586.00000 Site: SLM Cortlandville Well I.D.: DEC 26

Date: 5/11/07 Sampling Personnel: Brian Weeks, Tim Ishovich Company: URS Corporation

Purging/ Sampling Device: Grundfos Tubing Type: LDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 20.84 Depth to Well Bottom: 27.79 Well Diameter: 2" Screen Length: 15'

Casing Type: PVC Volume in 1 Well Casing ~~(liters)~~ gal: 1.13 Estimated Purge Volume ~~(liters)~~ gal: 6.66

Sample ID: DEC-26 Sample Time: 7:33 QA/QC:

Sample Parameters: VOCs, 8260B

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0657	6.71	9.02	.462	13.91	370	145	700	21.10
0700	6.49	9.30	.442	12.88	[redacted]	129	700	21.09
0703	6.72	9.66	.439	12.77		118	700	21.04
0706	6.77	9.72	.439	12.70		118	700	21.01
0709	6.76	9.89	.439	12.24		123	700	21.01
0712	6.77	10.24	.430	12.60		127	700	21.01
0715	6.90	10.12	.437	12.99	589	111	700	21.01
0718	6.92	9.70	.433	12.97	615	110	700	21.11
0721	6.92	9.57	.431	12.92	332	109	700	21.12
0724	6.94	9.37	.431	12.95	146	107	700	21.11
0727	6.95	9.28	.429	12.96	91	106	700	21.11
0730	6.96	9.25	.428	12.92	64	106	700	21.11
0733	6.94	9.23	.425	12.93	44	106	700	21.11
Tolerance:	0.1	—	3%	10%	10%	+ or - 10	—	

*

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

* Turbidimeter went dead

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11174586.00000 Site: SCM Cortlandville Well I.D.: DEC 27

Date: 5/9/07 Sampling Personnel: Brian Weeks, Tim Iffrovich Company: URS Corporation

Purging/ Sampling Device: Grundfos Tubing Type: LDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 14.79 Depth to Well Bottom: 21.41 Well Diameter: 2" Screen Length: 14'

Casing Type: PVC Volume in 1 Well Casing ~~(liters)~~ gal: 1.08 Estimated Purge Volume ~~(liters)~~ gal: 3.17

Sample ID: DEC-27 Sample Time: 10:50 QA/QC:

Sample Parameters: VOCs, 8260B

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1035	6.50	10.73	.490	14.40	9	173	800	14.84
1038	5.87	8.12	.477	12.87	8	194	800	14.86
1041	5.53	8.06	.478	12.52	4	203	800	14.87
1044	5.48	8.12	.477	12.33	4	204	800	14.87
1047	5.51	8.13	.477	12.24	2	203	800	14.88
1050	5.55	8.01	.477	12.19	2	200	800	14.88
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11174586.00000 Site: SCM Cortlandville Well I.D.: DEC 28

Date: 5/9/07 Sampling Personnel: Brian Weeks, Tim Ishaych Company: URS Corporation

Purging/ Sampling Device: Peristaltic Pump Tubing Type: LDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 10.28 Depth to Well Bottom: 17.15 Well Diameter: 2" Screen Length: 12'

Casing Type: PVC Volume in 1 Well Casing ~~(liters)~~ gal: 1.12 Estimated Purge Volume ~~(liters)~~ gal: 3.8

Sample ID: DEC-28 Sample Time: 10:21 QA/QC: 2007 0509-FD1

Sample Parameters: VOCs, 8260B

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1000	6.21	10.88	.554	13.22	0	187	800	10.41
1003	5.42	9.57	.528	11.57	10	213	800	10.42
1006	5.37	9.46	.526	11.22	7	212	800	10.41
1009	5.43	9.41	.526	11.17	6	208	800	10.42
1012	5.49	9.36	.524	11.06	6	204	800	10.41
1015	5.57	9.48	.522	11.18	4	196	800	10.41
1018	5.63	9.60	.520	11.23	4	187	800	10.42
1021							800	
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11174586.00000 Site: SCM Cortlandville Well I.D.: DEC 29

Date: 5/9/07 Sampling Personnel: Brian Weeks, Tim Eftovich Company: URS Corporation

Purging/ Sampling Device: Peristaltic Pump Tubing Type: LDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 6.79 Depth to Well Bottom: 14.16 Well Diameter: 2" Screen Length: 12'

Casing Type: PVC Volume in 1 Well Casing ~~(liters)~~ gal: 1.2 Estimated Purge Volume ~~(liters)~~ gal: 3.3

Sample ID: DEC-29 Sample Time: 9:39 QA/QC:

Sample Parameters: VOCs, 8260B

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0920	6.32	11.45	.526	13.45	57	177	700	6.86
0923	5.71	10.45	.522	11.88	51	194	700	9.10
0926	5.53	10.43	.521	11.42	29	202	700	9.40
0929	5.56	10.40	.521	11.34	20	200	700	9.50
0932	5.56	10.37	.520	11.32	13	199	700	9.90
0935	5.73	10.40	.521	11.36	8	191	700	9.61
0938	5.79	10.37	.521	11.25	6	185	700	9.62
~~0941~~							~~700~~	
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11174586.00000 Site: SCM Cortlandville Well I.D.: DEC-30

Date: 5/9/07 Sampling Personnel: Brian Weeks, Tim Iskovich Company: URS Corporation

Purging/ Sampling Device: Peristaltic Pump Tubing Type: LDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 9.84 Depth to Well Bottom: 17.49 Well Diameter: 2" Screen Length: 12

Casing Type: PVC Volume in 1 Well Casing ~~(liters)~~ gal: 1.25 Estimated Purge Volume ~~(liters)~~ gal: 3.33

Sample ID: DEC-30 Sample Time: 8:13 QA/QC:

Sample Parameters: VOCs, 8260B

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0752	6.63	12.95	.529	13.21	7	161	700	9.86
0755	6.32	12.81	.524	12.71	4	172	700	9.85
0758	6.36	12.80	.524	12.66	6	171	700	9.84
0801	6.41	12.81	.523	12.63	3	167	700	9.84
0804	6.54	12.56	.523	12.85	2	162	700	9.85
0807	6.61	12.85	.523	12.85	2	159	700	9.86
0810	6.64	12.88	.523	12.75	1	157	700	9.86
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11174586.00000 Site: SCM Cortlandville Well I.D.: DEC 31

Date: 5/11/07 Sampling Personnel: Brian Weeks, Tim Dikovich Company: URS Corporation

Purging/ Sampling Device: Grundfos Tubing Type: LDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 17.44 Depth to Well Bottom: 26.42 Well Diameter: 2" Screen Length: 15'

Casing Type: PVC Volume in 1 Well Casing ~~(liters)~~ gal: 1.46 Estimated Purge Volume ~~(liters)~~ gal: 5.55

Sample ID: DEC-31 Sample Time: 13:42 QA/QC:

Sample Parameters: VOCs, 8260B

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1311	7.08	11.08	.784	14.07	606	75	700	17.51
1314	7.21	10.79	.770	13.78	627	89	700	17.53
1317	7.16	10.47	.768	13.60	368	92	700	17.54
1320	7.17	10.45	.766	13.51	288	92	700	17.55
1323	7.19	10.50	.768	13.45	230	91	700	17.55
1326	7.24	10.52	.768	13.39	242	89	700	17.55
1329	7.26	10.46	.769	13.40	206	89	700	17.55
1332	7.33	10.58	.770	13.33	153	87	700	17.55
1335	7.35	10.57	.770	13.33	133	86	700	17.55
1338	7.37	10.61	.770	13.28	100	86	700	17.55
1341	7.39	10.53	.764	13.36	96	84	700	17.55
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11174586.00000 Site: SCM Cortlandville Well I.D.: DEC 32

Date: 5/10/07 Sampling Personnel: Brian Weeks, Tim Dikovich Company: URS Corporation

Purging/ Sampling Device: Grund Fos Tubing Type: LDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 14.55 Depth to Well Bottom: 25.96 Well Diameter: 2" Screen Length: 15'

Casing Type: PVC Volume in 1 Well Casing ~~(liters)~~ gal: 1.05 Estimated Purge Volume ~~(liters)~~ gal: 6.34

Sample ID: DEC-32 Sample Time: 20:19 QA/QC:

Sample Parameters: VOCs, 8260B

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1948	6.94	11.29	.699	12.89	>1000	127	1000	19.69
1951	6.90	11.31	.702	12.75	>1000	135	1000	19.69
1954	6.76	11.29	.716	12.18	>1000	132	1000	19.68
1957	6.91	11.50	.728	12.19	>1000	121	800	19.70
2000	7.08	11.42	.730	12.37	>1000	108	800	19.70
2003	7.15	11.42	.728	12.43	1000	102	800	19.69 ← *
2006	7.20	11.37	.715	12.44	>1000	105	800	19.68
2009	7.30	11.43	.726	12.31	>1000	93	800	19.68
2012	7.30	11.40	.724	12.24	>1000	95	800	19.68 ← *
2015	7.33	11.73	.717	12.34	>1000	95	800	19.68
2018	7.28	11.39	.728	12.52	>1000	97	800	19.68
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

* Generator shut off

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11174586.00000 Site: SCM Cortlandville Well I.D.: DEC 33

Date: 5/10/07 Sampling Personnel: Brian Weeks, Tim Iffkovich Company: URS Corporation

Purging/ Sampling Device: Grundfos Tubing Type: LDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 17.00 Depth to Well Bottom: 25.42 Well Diameter: 2" Screen Length: 15'

Casing Type: PVC Volume in 1 Well Casing ~~(liters)~~ gal: 1.37 Estimated Purge Volume ~~(liters)~~ gal: 2.97

Sample ID: DEC-33 Sample Time: 15:11 QA/QC:

Sample Parameters: VOCs, 8260B

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1455	6.75	10.25	.851	16.13	1000	119	750	17.12
1458	6.72	10.52	.841	14.93	536	114	750	17.13
1501	6.69	10.62	.840	14.59	135	116	750	17.13
1504	6.64	10.63	.841	14.40	41	120	750	17.12
1507	6.62	10.62	.841	14.39	25	122	750	17.13
1510	6.68	10.65	.840	14.23	12	120	750	17.13
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11174586.00000 Site: SCM Cortlandville Well I.D.: DEC 34

Date: 5/9/07 Sampling Personnel: Brian Weeks, Tim Ifkovich Company: URS Corporation

Purging/Sampling Device: Grundfos Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 15.75 Depth to Well Bottom: 24.00 Well Diameter: 2" Screen Length: 15'

Casing Type: PVC Volume in 1 Well Casing ~~(liters)~~ gal: 1.35 Estimated Purge Volume ~~(liters)~~ gal: 3.09

Sample ID: DEC-34 Sample Time: 18:02 QA/QC:

Sample Parameters: VOCs, 8260B

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1743	6.34	10.36	.847	14.01	64	165	650	15.75
1746	5.89	10.12	.831	13.11	68	185	650	15.77
1749	5.75	10.13	.829	12.78	63	188	650	15.75
1752	5.75	10.18	.832	12.57	51	188	650	15.77
1755	5.77	10.18	.833	12.50	40	186	650	15.77
1758	5.87	10.19	.827	12.48	33	181	650	15.77
1801	5.96	10.14	.820	12.45	28	177	650	15.77
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11174586.00000 Site: SCM Cortlandville Well I.D.: DEC 35

Date: 5/11/07 Sampling Personnel: Brian Weeks, Tim Iskovich Company: URS Corporation

Purging/ Sampling Device: Grundfos Tubing Type: LDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 16.33 Depth to Well Bottom: 22.53 Well Diameter: 2" Screen Length: 15'

Casing Type: PVC Volume in 1 Well Casing ~~(liters)~~: gal 1.01 Estimated Purge Volume ~~(liters)~~: gal 5.71

Sample ID: DEC-35 Sample Time: 1300 QA/QC:

Sample Parameters: VOCs, 8260B

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1230	7.21	11.27	.812	13.74	21000	88	800	16.48
1233	7.20	11.51	.807	13.35	21000	93	800	16.50
1236	7.25	11.32	.807	13.32	793	91	800	16.52
1239	7.27	11.37	.805	13.21	452	91	800	16.54
1242	7.30	11.30	.805	13.20	270	90	800	16.58
1245	7.32	11.32	.803	13.15	124	91	800	16.57
1248	7.33	11.31	.802	13.11	75	92	800	16.55
1251	7.30	11.41	.802	13.03	47	94	800	16.55
1254	7.30	11.40	.801	13.05	28	95	800	16.55
1257	7.29	11.42	.800	13.05	20	96	800	16.55
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

949-0972
923-1115

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11174586.00000 Site: SCM Cortlandville Well I.D.: DEC-36

Date: 5/11/07 Sampling Personnel: Brian Weeks, Tim Ishovich Company: URS Corporation

Purging/ Sampling Device: Grundfos Tubing Type: LDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 17.40 Depth to Well Bottom: 24.38 Well Diameter: 2" Screen Length: 15'

Casing Type: PVC Volume in 1 Well Casing ~~(liters)~~ gal: 1.14 Estimated Purge Volume ~~(liters)~~ gal: 5.55

Sample ID: DEC-36 Sample Time: 10:47 QA/QC:

Sample Parameters: VOCs, 8260B

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1015	6.67	10.88	.688	13.51	>1000	128	700	17.42
1018	6.62	11.04	.680	13.34	>1000	126	700	17.48
1021	6.71	11.20	.679	13.27	>1000	127	700	17.48
1024	6.74	11.15	.665	13.31	>1000	131	700	17.48
1027	6.72	11.09	.657	13.41	>1000	129	700	17.48
1030	6.58	10.83	.659	13.09	>1000	133	700	17.48
1033	6.63	10.71	.656	13.01	>1000	135	700	17.50
1036	6.63	10.65	.653	13.00	867	122	700	17.49
1039	6.88	10.67	.648	13.06	601	112	700	17.50
1042	6.89	10.69	.647	13.09	884	109	700	17.50
1045	6.93	10.73	.645	13.06		106	700	17.50
Tolerance:	0.1	—	3%	10%	10%	+ or - 10	—	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11174586.00000

SITE NAME SCM, Cortlandville

SAMPLERS (PRINT/SIGNATURE) Brian Watts / [illegible] Tim Jakovich / [illegible]

LAB _____

COOLER _____ of _____

PAGE 1 of 2

DELIVERY SERVICE: _____ AIRBILL NO.: _____

TESTS: VOCs 8260B

BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS								REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
MW-4S	5/8	9:32	G	MW-4S	WG	3	3											
DEC 23	5/8	11:00		DEC 23		3	3											
DEC 24	5/8	13:42		DEC 24		3	3											
DEC 25	5/8	15:20		DEC 25		3	3											
MW-2S	5/8	16:22		MW-2S		3	3											
MW-10S	5/8	17:19		MW-10S		3	3											
DEC-30	5/9	8:13		DEC-30		3	3											
MW-5S	5/9	8:56		MW-5S		3	3											
DEC 29	5/9	9:39		DEC 29		3	3											
DEC 28	5/9	10:[illegible]		DEC 28		3	3											
DEC-27	5/9	10:50		DEC-27		3	3											
MW-15	5/9			MW-15		3	3											
—	[illegible]	—		20070507-FD1		3	3											

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE
(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[illegible]	5/9	1446			
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11174586.00000

SITE NAME SCM Cortlandville

SAMPLERS (PRINT/SIGNATURE) Brian Weeks [signature] | Tim Jekovich [signature]

LAB _____

COOLER _____ of _____

PAGE 2 of 2

DELIVERY SERVICE: _____ AIRBILL NO.: _____

TESTS: VOCs 8260B

BOTTLE TYPE AND PRESERVATIVE: 40ml VOAs HCL

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	40ml VOAs HCL								REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
—	5/8	—		20070508-TB1	WQ	1	1												
—	5/9	—		20070509-TB1	WQ	1	1												

MATRIX CODES						
	AA - AMBIENT AIR	SL - SLUDGE	WG - GROUND WATER	WL - LEACHATE	WO - OCEAN WATER	LH - HAZARDOUS LIQUID WASTE
	SE - SEDIMENT	WP - DRINKING WATER	SO - SOIL	GS - SOIL GAS	WS - SURFACE WATER	LF - FLOATING/FREE PRODUCT ON GW TABLE.
	SH - HAZARDOUS SOLID WASTE	WW - WASTE WATER	DC - DRILL CUTTINGS	WC - DRILLING WATER	WQ - WATER FIELD QC	

SAMPLE TYPE CODES				
	TB# - TRIP BLANK	RB# - RINSE BLANK	N# - NORMAL ENVIRONMENTAL SAMPLE	(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)
	SD# - MATRIX SPIKE DUPLICATE	FR# - FIELD REPLICATE	MS# - MATRIX SPIKE	

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	5/9	1446			
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11174586.00000

SITE NAME SCM Cortlandville

SAMPLERS (PRINT/SIGNATURE) Brian Weeks / [signature] Tim Tikovich / [signature]

LAB _____

COOLER _____ of _____

PAGE 1 of 2

DELIVERY SERVICE: _____ AIRBILL NO.: _____

TESTS: VOCs - 8260B

BOTTLE TYPE AND PRESERVATIVE: 40 ml VOA vial

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	40 ml VOA vial							REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
DEC-10	5/9	1553	G	DEC 10	WG	3	3								N			
DEC-10	5/9	1554		20070509-MS1	WQ	3	3								MS			
DEC-10	5/9	1554		20070509-MSD1	WQ	3	3								SD			
DEC-55	5/9	1626		DEC-55	WG	3	3								N			
DEC-09	5/9	1656		DEC-09	WG	3	3								N			
DEC-08	5/9	1724		DEC-08		3	3								N			
DEC-34	5/9	1802		DEC-34		3	3								N			
DEC-45	5/9	1912		DEC-45		3	3								N			
DEC-22	5/10	7:05		DEC-22		3	3								N			
DEC-21	5/10	7:59		DEC-21		3	3								N			
DEC-20	5/10	8:32		DEC-20		3	3								N			
DEC-19	5/10	9:02		DEC-19		3	3								N			
—	5/10	—		20070510-FD1	WQ	3	3								FR			

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE.

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE
(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	5/10	1345			
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
			[signature]	5/10/07	1345

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment, copy to coordinator field files

3°C ON ICE

URSF-075C/1 OF 1/CofCR/GCM

CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11174586.00000

SITE NAME SCM Cortlandville

SAMPLERS (PRINT/SIGNATURE) Brian Weeks / [illegible] Tim Ifkovich / Tim Ifkovich

LAB _____

COOLER _____ of _____

PAGE 2 of 2

DELIVERY SERVICE: _____ AIRBILL NO.: _____

TESTS: VOCs-8260B

BOTTLE TYPE AND PRESERVATIVE: 40ml VOA 4°C

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	40ml VOA 4°C								REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOG NO.# (ERPIMS)
DEC-35	5/10	955	G	DEC-35	WG	3	3									N			
DEC-18	5/10	1017	↓	DEC-18	↓	3	3									N			
DEC-17	5/10	1110	↓	DEC-17	↓	3	3									N			
DEC-25	5/10	12:13	↓	DEC-25	↓	3	3									N			
—	5/10	—	↓	20070510-FD2	WQ	3	3									FR			
—	5/9	—		20070509-TB1	WQ	1	1									TB			
—	5/10	—		20070510-TB1	WQ	1	1									TB			

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE
(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	5/10	1345			
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
			[signature]	5/10/07	1345

SPECIAL INSTRUCTIONS

3°C ON ICE

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11174586.00000

SITE NAME SCM Cortlandville

SAMPLERS (PRINT/SIGNATURE) Brian Vecchio / [illegible] Tim Stewart / Tim Stewart

LAB _____

COOLER _____ of _____

PAGE 1 of 2

DELIVERY SERVICE: _____ AIRBILL NO.: _____

TESTS: VOC-8260B

BOTTLE TYPE AND PRESERVATIVE: 40 ml VOA 4°C

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	40 ml VOA 4°C								REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
DEC33	5/10	1511	G	DEC-33	WG	3	3									N			
DEC-14	5/10	1930		DEC-14	↓	3	3									N			
DEC-32	5/10	20:14		DEC-32	↓	3	3									N			
DEC-13	5/10	2100		DEC-13	↓	3	3									N			
—	5/10			20070510-TB1	WQ	2	2									TB			
DEC-65	5/11	635		DEC-65	WG	3	3									N			
DEC-26	5/11	7:33		DEC-26	WG	3	3									N			
DEC-26	5/11	7:34		20070511-MS	WQ	3	3									MS			
DEC-26	5/11	7:35		20070511-MSD	WQ	3	3									SD			
DEC-15	5/11	8:07		DEC-15	WG	3	3												
DEC-16	5/11	8:55		DEC-16	↓	3	3												
DEC-15	5/11	9:47		DEC-15	↓	3	3												
DEC-36	5/11	10:47		DEC-36	↓	3	3												

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE.

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	5/11	15:52			
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
			[signature]	5/11/07	1552

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment, copy to coordinator field files

2°C DRY ICE

URSF-075C/1 OF 1/CofCR/GCM

CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11174958600000

SITE NAME SCM Cortlandville

SAMPLERS (PRINT/SIGNATURE) Brian Weeks / [illegible] Tim Ifkovich / [illegible]

LAB _____

COOLER _____ of _____

PAGE 2 of 2

DELIVERY SERVICE: _____ AIRBILL NO.: _____

TESTS: VOC-8260B

BOTTLE TYPE AND PRESERVATIVE: 40ml VOA 4°C

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	VOC-8260B								REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (BRPIMS)
DEC-11	5/11	11:33	G	DEC-11	WG	3	3												
DEC-12	5/11	12:25		DEC-12	WG	3	3												
DEC-35	5/11	1300		DEC-35	WG	3	3												
DE-31	5/11	1342		DEC-31	WG	3	3												
—	5/11	—		20070511-EB1	WQ	3	3												
—	5/11	—		20070511-FD1	WQ	3	3												
—	5/11	—		20070511-TB1	WQ	3	3												
DEC-7	5/11	1350		DEC-7	WG	3	3												

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE.

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE
(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[illegible]	5/11	15:52			
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
			[illegible]	5/11/07	1552

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment, copy to coordinator field files

2°C ON ICE

URSF-075C/1 OF 1/CofCR/GCM

APPENDIX D

INVESTIGATION DERIVED WASTE MANIFEST

FRANK'S VACUUM TRUCK SERVICE, INC.
4500 Royal Avenue • Niagara Falls, New York 14303
(716) 284-2132

102074

DATE 07/16/2007

NYDEC #9A-332
EPA ID # NYD982792814

PICK UP		DELIVERY	
SHIPPER	NAME: NYSDEC	CONSIGNEE	NAME: VEXOR
	STREET: 50 ROUTE 11 STATE		STREET: 90 WEST BADTNER RD
	CITY: CORTLANDVILLE, NY STATE ZIP CODE		CITY: [illegible] CA STATE ZIP CODE
	CONTACT NAME: JON SURGUIST [illegible]		CONTACT NAME: [illegible]
	SCHEDULED TIME: [illegible]		SCHEDULED TIME: [illegible]

ADDITIONAL INFORMATION

CUSTOMER P.O. NO.	WORK ORDER NUMBER	[redacted]	BILLING REFERENCE
LOAD NUMBER: [illegible]	TRACTOR NUMBER: [illegible]	TRAILER NUMBER: [illegible]	DRIVER'S NAME: POEHL

NUMBER & TYPES	WEIGHT OR VOLUME	HAZ. MAT.	[redacted]	CUSTOMER CODE
1			NON HAZ	

TYPE (CIRCLE ONE)	PLACARDS PROVIDED OR AFFIXED		WHEN "RQ" QUANTITY RELEASED INTO ENVIRONMENT, IMMEDIATELY NOTIFY NAT. RESPONSE CENTER - 800-424-8802 AND 911 EMERGENCY SYSTEM OR LOCAL OPERATOR	EMERGENCY RESPONSE PHONE NUMBER:
TANK (S/S) (R/L)				
VAC				
DUMP	SHIPPER'S CHECK LIST			
VAN	DOT LABELS APPLIED AND SECURE	DOT AUTHORIZED CONTAINERS		
ROLL-OFF				
FLATBED	PROPER DOT NAME ON ALL PACKAGES	CHECKED FOR PROPER SEALING		

PICK UP	DELIVERY
ARRIVAL DATE: 7/16/07	DRIVER: _____ DATE: _____
ARRIVAL TIME: [illegible] AM PM RELEASE TIME: [illegible] AM PM	ARRIVAL TIME: _____ AM PM RELEASE TIME: _____ AM PM
TRAILER EMPTY UPON ARRIVAL ☐ YES ☐ NO (If not, explain below)	TRAILER EMPTY UPON DEPARTURE ☐ YES ☐ NO (If not, explain below)
DIP MEASUREMENT (Tankers Only) _____ INCHES	COMMENTS: (EXPLAIN ALL DELAYS)
COMMENTS: (EXPLAIN ALL DELAYS)	
[illegible]	
[illegible]	
SHIPPERS CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.	I, THE UNDERSIGNED, CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND COMPLETE.
X _____ TITLE _____ SHIPPER'S SIGNATURE	X _____ CONSIGNEE'S SIGNATURE

GENERATOR