

SUPPLEMENTAL GROUNDWATER INVESTIGATION REPORT

WORK ASSIGNMENT D004433-10

SCM CORTLANDVILLE SITE INVESTIGATION CORTLANDVILLE (T), NY

SITE NO. 7-12-006 CORTLAND (C), NY

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

Denise M. Sheehan, Commissioner

DIVISION OF ENVIRONMENTAL REMEDIATION

URS Corporation

77 Goodell Street Buffalo, New York 14203

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SCM CORTLANDVILLE SITE SITE #7-12-006 CORTLANDVILLE, NEW YORK

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NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF ENVIRONMENTAL REMEDIATION WORK ASSIGNMENT D004433-10

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77 GOODELL STREET
BUFFALO, NEW YORK 14203

NOVEMBER 2006

SCM CORTLANDVILLE SITE

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1.0 INTRODUCTION

This field investigation report summarizes field activities and presents the data collected as part of a 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.

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 980 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 were constructed and sampled during this investigation.

1.2 <u>Site Geology</u>

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 conducted during this investigation consisted of the following work tasks:

- Site visit to mark out well locations and notification of underground utility locators
- Installation, development and sampling of 24 new shallow groundwater monitoring wells
- Measurements of groundwater elevations in 42 area wells
- Sampling of six existing DEC wells and four existing SCM wells, and
- Surveying the locations and elevations of the new monitoring wells and four SCM wells

2.1 Monitoring Well Installations, Development, Measurements and Sampling

Monitoring Well Installations and Development

Twenty-four shallow monitoring wells (DEC-07 through DEC-30) were installed north and northwest of the former SCM facility in order to quantify levels of TCE and other chlorinated hydrocarbons in the shallow groundwater. These wells were installed to supplement groundwater data from six shallow monitoring wells (DEC-01S through DEC-06S) that were installed and sampled in March 2006, and from monitoring wells installed in the 1990s.

The twenty-four shallow wells were screened across the groundwater table. The monitoring wells were installed from August 7 through August 23, 2006 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 and the samples were screened with a PID and logged by a URS geologist. All wells were constructed with two-inch outside diameter, Schedule 40, PVC pipe with a 10, 11.5, 12 or 15-feet 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 with bentonite chips and allowed to hydrate. The wells were completed with at-grade curb boxes

set in concrete. Final well depths ranged from 12 to 49 feet bgs. Monitoring well Boring Logs and Well Construction Diagrams are included in Appendix A.

All of the new wells were developed from August 15 through August 24, 2006 using a Grundfos RediFlo2 submersible pump and dedicated and disposable high density polyethylene (HDPE) tubing. Development logs are included in Appendix B.

Groundwater Elevation Monitoring Round

Groundwater elevations were measured in all of the newly installed wells on September 11, 2006. In addition, groundwater elevations were measured in the DEC wells installed in March of 2006 (DEC-01S/D through DEC-06S/D) and six existing wells on the former SCM property (MW-02S/D through MW-05S/D). Groundwater elevations are provided on Table2-1.

Monitoring Well Sampling

Following completion of the drilling and well development, groundwater samples were collected from monitoring wells DEC 07 through DEC-30. Groundwater samples were also collected from six of the monitoring wells constructed in March 2006 (DEC-01S, DEC-02S, DEC-03D, DEC-04D, DEC-05D and DEC-06D). Shallow wells DEC-03S through DEC-06S were not sampled because there was insufficient groundwater in the wells. Four wells located on the SCM property and constructed in the 1990s were also sampled (MW-01S, MW-02S, MW-04S and MW-05S). Groundwater sampling was conducted from September 11 through September 14, 2006.

The majority of monitoring wells were purged using low-flow sampling techniques with a peristaltic pump, dedicated silicone and HDPE tubing and a flow-through cell. For wells where groundwater levels were in excess of approximately 27 feet below the surface, wells were purged for sampling with a down-hole Grundfos RediFlo2 pump, dedicated and disposable HDPE tubing and a flow-through cell. The 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 dropped off at Life Science Laboratories, Inc., East Syracuse, New York.

2.2 <u>Site Survey and Mapping</u>

Following the field drilling and sampling activities, the new monitoring wells and four of the SCM wells were surveyed 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 2-1.

2.3 <u>Investigation-Derived Waste Disposal</u>

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 Franks 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.

3.1 Groundwater Elevation Contours

Groundwater elevation contours were calculated based on water levels measured in 42 area monitoring wells on September 11, 2006. 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**

Detected analytical results for groundwater samples collected from 34 new and existing monitoring wells are presented on 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, ranged from not detected in wells DEC-6D, DEC-21 and DEC-22 to 21.8 ug/L in DEC-09. 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 QC 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.

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

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	D	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	
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	
DEC-02D	937909.215	917753.056	1198.04	1197.75	1197.75	D	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	
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	
DEC-03D	938465.473	917083.912	1171.72	1171.52	1171.52	D	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	
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	
DEC-04D	939109.969	917915.062	1182.04	1181.87	1181.87	D	0						
MNW								8/15/2006 0000	17.21	1164.66	0.00	1,164.66	

NM - No Measurement Geologic Zone: Type:

D Deep Aquifer MNW Monitoring Well
S Shallow Aquifer

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

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	17.82	1164.05	0.00	1,164.05	
MNW								9/11/2006 0000	18.25	1163.62	0.00	1,163.62	
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	
DEC-05D	939062.281	917172.424	1172.45	1172.20	1172.20	D	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	
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	
MNW								9/11/2006 0000	9.15	1162.93	0.00	1,162.93	
DEC-06D	940913.662	919626.747	1168.95	1168.56	1168.56	D	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	
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	
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	

NM - No Measurement Geologic Zone: Type:

D Deep Aquifer MNW Monitoring Well
S Shallow Aquifer

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

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-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	
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	
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	
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	
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	
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	
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	
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	

 NM - No Measurement
 Geologic Zone:
 Type:

 D
 Deep Aquifer
 MNW

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

S Shallow Aquifer

Monitoring Well

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	19.11	1165.39	0.00	1,165.39	
MNW								9/11/2006 0000	19.68	1164.82	0.00	1,164.82	
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	
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	
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	
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	
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	
MNW								9/11/2006 0000	3.98	1164.51	0.00	1,164.51	
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	
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	

 NM - No Measurement
 Geologic Zone:
 Type:

 D
 Deep Aquifer
 MNW
 Monitoring Well

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

S Shallow Aquifer

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-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	
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	
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	
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	
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	
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	
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	
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	

 NM - No Measurement
 Geologic Zone:
 Type:

 D
 Deep Aquifer
 MNW
 Monitoring Well

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

S Shallow Aquifer

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-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	
MW-02D	937826.880	917787.230	1208.96	1211.58	1211.14	D	0						
MNW								8/24/2006 0000	NM	-	NM	-	
MNW								9/11/2006 0000	NM	-	NM	-	
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	
MW-04D	937831.530	918097.550	1207.88	1210.08	1209.66	D	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	
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	
MW-05D	937762.630	916973.070	1176.19	1178.56	1178.37	D	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	
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	

Geologic Zone: Type: NM - No Measurement MNW

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

D Deep Aquifer

Shallow Aquifer

Monitoring Well

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	3/6/2006	937860.115	917064.253	1174.30	1174.12	1174.12	18.0	D
DEC-01S	3/6/2006	937859.642	917061.449	1174.36	1174.03	1174.03	13.0	S
DEC-02D	3/7/2006	937909.215	917753.056	1198.04	1197.75	1197.75	43.0	D
DEC-02S	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	D
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	D
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	D
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	D
DEC-06S	3/9/2006	940912.667	919622.798	1168.68	1168.37	1168.37	14.0	S
DEC-07	8/8/2006	939126.410	918240.830	1181.54	1181.54	1181.19	21.5	S
DEC-08	8/8/2006	939095.260	917598.230	1177.37	1177.37	1176.99	19.0	S
DEC-09	8/9/2006	939136.990	917348.300	1172.86	1172.86	1172.36	17.0	S
DEC-10	8/9/2006	938918.700	917153.110	1172.32	1172.32	1171.91	15.0	S
DEC-11	8/9/2006	938832.680	917233.810	1174.22	1174.22	1173.82	16.0	S
DEC-12	8/10/2006	938838.460	917592.700	1180.52	1180.52	1180.05	21.0	S
DEC-13	8/10/2006	938633.750	917807.940	1186.12	1186.12	1185.68	27.0	S
DEC-14	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	8/15/2006	938084.990	917455.370	1181.44	1181.44	1181.15	22.0	S
DEC-18	8/16/2006	938161.450	917328.400	1176.40	1176.40	1175.94	17.0	S
DEC-19	8/16/2006	938623.940	917187.130	1168.90	1168.90	1168.49	12.0	S
DEC-20	8/16/2006	938507.210	916900.950	1173.48	1173.48	1173.02	15.0	S
DEC-21	8/16/2006	938631.290	916776.610	1173.36	1173.36	1172.83	15.0	S

Geologic Zone:

D Deep Aquifer
S Shallow Aquifer

Type: MNW

IW Monitoring Well

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	8/17/2006	938837.550	916667.340	1170.46	1170.46	1170.05	14.0	S
DEC-23	8/22/2006	937831.240	918090.130	1208.04	1208.04	1207.50	47.0	S
DEC-24	8/23/2006	937830.300	917918.580	1208.10	1208.10	1207.56	47.0	S
DEC-25	8/23/2006	937823.150	917793.120	1208.98	1208.98	1208.52	49.0	S
DEC-26	8/21/2006	937813.200	917507.730	1186.22	1188.82	1188.88	25.0	S
DEC-27	8/17/2006	937803.700	917401.260	1180.42	1182.84	1182.84	19.0	S
DEC-28	8/18/2006	937805.870	917288.060	1176.21	1178.58	1178.61	15.0	S
DEC-29	8/17/2006	937793.140	917200.960	1175.84	1175.84	1175.22	15.0	S
DEC-30	8/18/2006	937763.190	916979.590	1176.26	1178.81	1178.81	15.0	S
MW-02D		937826.880	917787.230	1208.96	1211.58	1211.14	NA	D
MW-02S		937829.090	917795.420	1208.96	1210.82	1210.44	70.43	S
MW-04D		937831.530	918097.550	1207.88	1210.08	1209.66	NA	D
MW-04S		937829.990	918106.090	1207.96	1209.90	1209.26	73.41	S
MW-05D		937762.630	916973.070	1176.19	1178.56	1178.37	NA	D
MW-05S		937752.560	916973.790	1176.27	1178.23	1177.91	39.46	S

Geologic Zone:

D Deep Aquifer

S Shallow Aquifer

Type: MNW

Monitoring Well

Location ID		DEC-01S	DEC-02S	DEC-03D	DEC-04D	DEC-05D
Sample ID		DEC-01S	DEC-02S	DEC-03D	DEC-04D	DEC-05D
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/12/06	09/12/06	09/12/06	09/11/06	09/11/06
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L				0.13 J	
1,2-Dichloroethene (cis)	UG/L			0.12 J	0.47 J	0.57
Acetone	UG/L					
Benzene	UG/L					
Carbon disulfide	UG/L					
Chloroform	UG/L					
Toluene	UG/L					
Trichloroethene	UG/L	1.26	3.79	4.56	10.9	15.4
Xylene (total)	UG/L					

U - Not detected above the reported quantitation limit.

UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value.

Location ID		DEC-06D	DEC-07	DEC-08	DEC-09	DEC-10
Sample ID		DEC-6D	DEC-07	DEC-08	DEC-09	DEC-10
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled	_	09/11/06	09/13/06	09/11/06	09/11/06	09/11/06
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L			0.16 J		
1,2-Dichloroethene (cis)	UG/L			0.87	1.10	
Acetone	UG/L		18.8			
Benzene	UG/L		0.31 J			
Carbon disulfide	UG/L		0.17 J			
Chloroform	UG/L		0.17 J	0.22 J		
Toluene	UG/L	0.13 J	0.45 J			
Trichloroethene	UG/L		1.32	16.5	21.8	6.73
Xylene (total)	UG/L		0.23 J		_	

U - Not detected above the reported quantitation limit.

UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value.

Location ID		DEC-11	DEC-11	DEC-12	DEC-13	DEC-14
Sample ID		DEC-31	DEC-11	DEC-12	DEC-13	DEC-14
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/11/06	09/12/06	09/12/06	09/12/06	09/12/06
Parameter	Units	Field Duplicate (1-1)				
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L			0.13 J		
1,2-Dichloroethene (cis)	UG/L	0.23 J	0.23 J	0.89	0.39 J	
Acetone	UG/L					
Benzene	UG/L					
Carbon disulfide	UG/L					
Chloroform	UG/L	0.12 J	0.13 J	0.24 J		0.11 J
Toluene	UG/L					
Trichloroethene	UG/L	11.3	11.5	16.8	10.3	0.22 J
Xylene (total)	UG/L					

U - Not detected above the reported quantitation limit.

UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value.

Location ID		DEC-15	DEC-16	DEC-17	DEC-18	DEC-19
Sample ID		DEC-15	DEC-16	DEC-18	DEC-19	
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled	_	09/12/06	09/12/06	09/12/06	09/12/06	09/12/06
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L		0.75	0.13 J		0.11 J
Acetone	UG/L					
Benzene	UG/L					
Carbon disulfide	UG/L					
Chloroform	UG/L					
Toluene	UG/L					
Trichloroethene	UG/L	3.88	14.1	7.15	2.57	4.16
Xylene (total)	UG/L					

U - Not detected above the reported quantitation limit.

UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value.

Location ID		DEC-20	DEC-21	DEC-22	DEC-23	DEC-24
Sample ID		DEC-20	DEC-21	DEC-22	DEC-23	DEC-24
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/12/06	09/12/06	09/12/06	09/14/06	09/13/06
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L					
Acetone	UG/L					
Benzene	UG/L					
Carbon disulfide	UG/L					
Chloroform	UG/L			0.11 J		
Toluene	UG/L					
Trichloroethene	UG/L	1.67			0.30 J	0.75
Xylene (total)	UG/L		_			

U - Not detected above the reported quantitation limit.

UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value.

Location ID		DEC-25	DEC-26	DEC-27	DEC-28	DEC-28
Sample ID		DEC-25	DEC-26	DEC-27	DEC-28	DEC-32D
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled	_	09/13/06	09/13/06	09/13/06	09/13/06	09/13/06
Parameter	Units					Field Duplicate (1-1)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L		0.27 J		0.16 J	0.16 J
Acetone	UG/L					
Benzene	UG/L					
Carbon disulfide	UG/L					
Chloroform	UG/L					
Toluene	UG/L					
Trichloroethene	UG/L	2.14	9.89	4.79	3.43	3.44
Xylene (total)	UG/L					

U - Not detected above the reported quantitation limit.

UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value.

Location ID		DEC-29	DEC-30	MW-01S	MW-02S	MW-04S
Sample ID		DEC-29	DEC-30	MW-01S	MW-02S	MW-04S
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled	_	09/13/06	09/13/06	09/14/06	09/13/06	09/14/06
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L			0.28 J		
Acetone	UG/L					
Benzene	UG/L					
Carbon disulfide	UG/L	0.13 J				
Chloroform	UG/L					
Toluene	UG/L					
Trichloroethene	UG/L	2.53	1.30	7.86	2.28	0.67
Xylene (total)	UG/L					

U - Not detected above the reported quantitation limit.

UJ - Not detected. The reported quantitation limit is an estimated value.

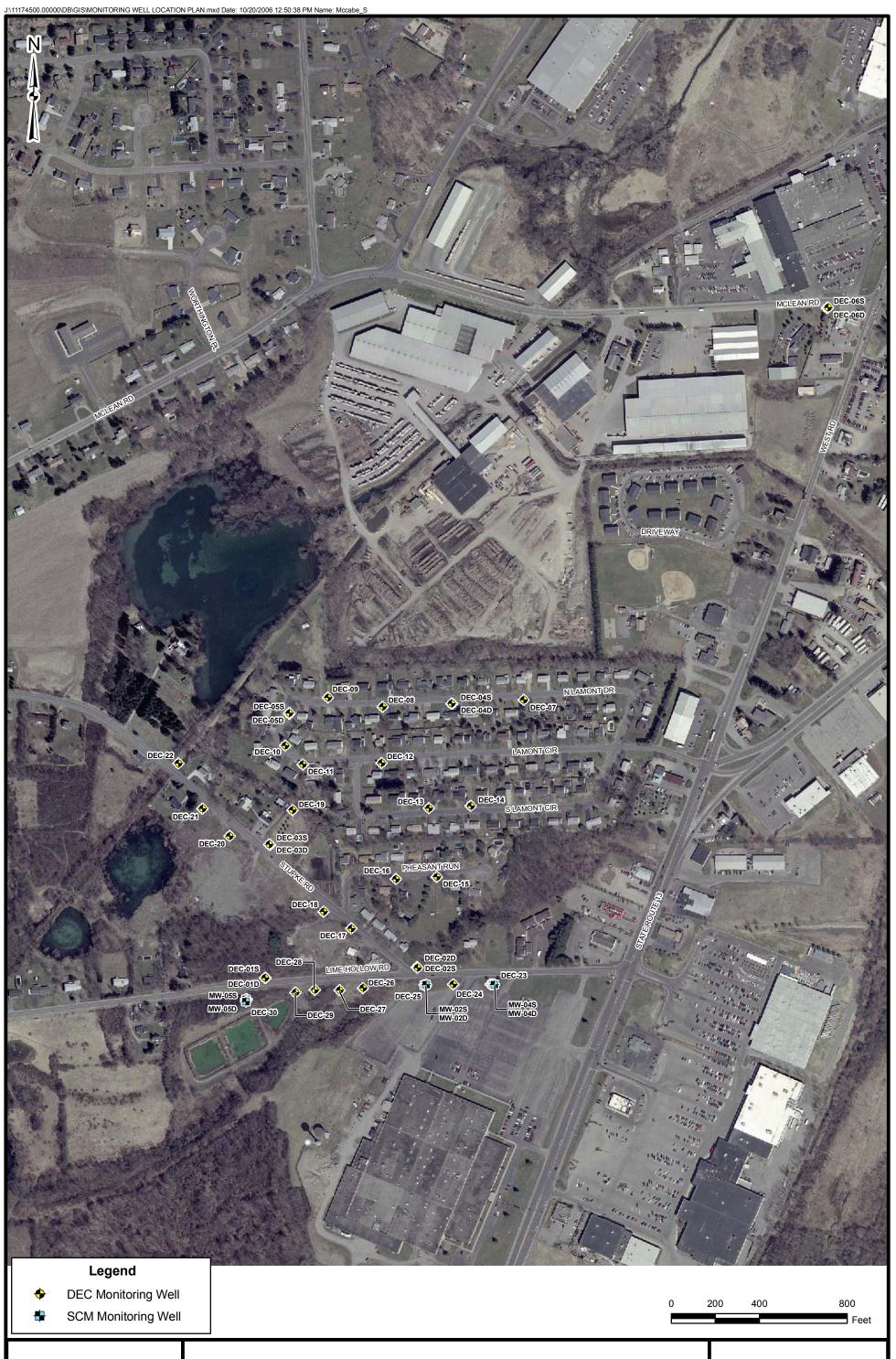
 $[\]ensuremath{\mathsf{J}}$ - The reported concentration is an estimated value.

Location ID		MW-05S
Sample ID		MW-05S
Matrix		Groundwater
Depth Interval (ft)	-	
Date Sampled	09/13/06	
Parameter		
Volatile Organic Compounds		
1,1,1-Trichloroethane	UG/L	
1,2-Dichloroethene (cis)	UG/L	
Acetone	UG/L	
Benzene	UG/L	
Carbon disulfide	UG/L	
Chloroform	UG/L	
Toluene	UG/L	
Trichloroethene	UG/L	1.67
Xylene (total)	UG/L	_

U - Not detected above the reported quantitation limit.

UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value.







APPENDIX A MONITORING WELL BORING LOGS AND WELL CONSTRUCTION DRAWINGS

			ı	URS	Со	rporat		TEST BORING LOG BORING NO: DEC-07						
											BORING NO:		/	
PROJEC			l Cortlar	ndville)						SHEET:	1		
CLIENT			DEC								JOB NO.:		111	174586.00000
	CONTRA		R:	Nothr	nagle			Ι.			BORING LOCATION:			
	DWATER:	_				I	CAS.		CORE	TUBE	GROUND ELEVATION			
DATE	TIME	LI	EVEL	TY	PE		TYPE Split spoon DATE STARTED: 08/0							
						DIA.		2"						
						WT.		140#			DRILLER:	Kevin E	Busch	
						FALL		30"			GEOLOGIST:	Brian V	Veeks	
						* POC	REVIEWED BY:	Tim Bu	rmeie	r				
			SAME	PLE		T		ı	DES	CRIPTIC	ON .			
DEPTH				BLC	ows	REC%		CONSIST		N	MATERIAL			REMARKS
FEET	STRATA	NO.	TYPE	PEF	R 6"	ROD%	COLOR	HARD		DE	SCRIPTION	USCS	PID	
	5.5,5	1	SS	5	8	58%	Dark	Very Stiff	SILT, s	ome fine	e gravel, trace medium	ML	0.0	Dry
	15.5	'		9	6	3070	Brown		to fine	sand				
	• /• /•	2	SS	5	12	33%	Medium	Medium	Fine to	coarse	GRAVEL, some clay	GW-GM		
	4 • 4	_	33	12	8	3376	Brown	Dense	and silt	, trace fi	ne sand			
5	• • • •	,	00	4	10	050/								
	• • \ \	3	SS	14	16	25%	♦	♦						▼
	• • •/ •'			8	19	=00/	Light	Dense	Fine to	medium	GRAVEL, some silt			Moist
	•••	4	SS	14	9	50%	Brown				lium sand			
		_		5	5			Loose			ce medium to coarse	SP		
10		5	SS	2	2	63%				nd fine g				
	•			2	1			lacksquare						
	11011	6	SS	13	19	67%		Hard	CLAY	some fir	ne to coarse gravel	CL		
	666			13	22			Dense			SAND and SILT, trace	SW-SM		
	75757	7	SS	25	28	83%		Delise			•	SW-SW		
15	L • (•			16	25					coarse g	GRAVEL, some silt and	GW-GM		
10	7,7	8	SS	25	7	67%		↓		coarse s		GW-GM		
	///		1					\ \/						Wet
	757	9	SS	55 31	43 29	88%	↓	Very Dense	and silt	e fine to coarse sand		\downarrow	vvei	
	- 			31	29		,	Delise			+ 00 7!		_	
20						1			Ena oi	porenoie	e at 20.7'			
20														
05						-								
25						-								
						-								
						-								
						1								
30														
]								
]								
]								
35]								
Comme	nts:	A tru	ıck mour	nted Bł	<-81 ⊦	ID drill rig	equippe	d with 4.25"	HSA wa	S			-	
used. N	o environn	l sample	s were	colle	cted for la		PROJECT NO.	111745	86.00	000				
											BORING NO.	DEC-0	7	

				URS	Co	rporat	TEST BORING LOG								
											BORING NO:	DEC-08	3		
PROJE			l Cortlar	ndville)						SHEET:	1			
CLIENT			DEC								JOB NO.:		11	174586.00000	
	CONTRA		R:	Nothr	nagle			T =			BORING LOCATION:				
	DWATER:					1	CAS.			TUBE	GROUND ELEVATION:				
DATE	TIME	LI	EVEL	TY	PE	TYPE		Split spoon			DATE STARTED:	08/08	3/06		
						DIA.		2"			DATE FINISHED:				
						WT.		140#			DRILLER:	Kevin E			
						FALL		30"			GEOLOGIST:	Brian V			
						* POC	KET PE	REVIEWED BY:	Tim Bu	rmeie	r				
			SAME			1		1	DES	CRIPTIC					
DEPTH				BLC		REC%		CONSIST			MATERIAL			REMARKS	
FEET	STRATA	NO.	TYPE	PEF	R 6"	ROD%	COLOR				SCRIPTION	USCS	PID		
	5.55	1	SS	1	8	50%	Dark	Very Stiff	SILT, s	ome fine	e gravel, trace fine to	ML	0.0	Dry	
	<u> </u>	·		8	10	0070	Brown		mediun	n sand					
	SSSS	2	SS	5	11	50%			SILT a	nd CLAY	, some fine to coarse	CL-ML		Moist	
	15 1 51		00	6	4	3070		▼	gravel						
5	SXSX	3	SS	2	4	33%	Brown	Stiff							
	′\$ \ \$\	3	33	6	8	33%									
	• • •		00	6	8	200/	1	Medium	GRAVE	EL, some	e fine to coarse sand	GW			
	·<	4	SS	6	7	38%		Dense	and silt						
		_		5	6			Loose							
10	50 50	5	SS	2	15	46%	₩								
				3	4		Dark	1	Mediun	n to coai	se SAND, some clay	SW-SC		Wet	
	/ / / /	6	SS	3	3	71%	Brown	♦			rse gravel	000		""	
		-		7	50/3		l Digwii	Very	and mi	c to oou					
		7	SS	-	30/3	100%		Dense							
15								Delise							
10	\\ \														
							↓	↓			lack				
	< &			-	4.4		Drawa	Medium	CAND		lt trace clay and fine	0144 014			
	15/\	8	SS	6 10	14 10	58%	Brown				It, trace clay and fine	SW-SM	\forall		
20	00000000			10	10			Dense		se grave borehole			•	▼	
20									End of	porenoie	e at 19				
05															
25															
						-									
30															
35]									
Comme	nts:	A tru	ıck mour	nted Bł	<-81 ⊦	ID drill rig	g equippe	d with 4.25"	HSA wa	ıs					
used. N	o environn	l sample	s were	colle	cted for la	PROJECT NO.	111745	86.00	000						
Continuo	ous split sp	oon s	samples	collect	ted do	wn to top	of water	table. One	spoon		BORING NO.	DEC-08	3		
was coll	ected 5' be	low th	he top of	the wa	ater ta	ble.	-								

				URS	Co	rporat	TEST BORING LOG								
												BORING NO:	DEC-0		
PROJE			l Cortlar	ndville	<u> </u>							SHEET:	1		
CLIENT			DEC									JOB NO.:		11	174586.00000
	CONTRA		R:	Nothr	nagle		_				T	BORING LOCATION:	-		
	IDWATER:			1		ſ	C	AS.							
DATE	TIME	LI	EVEL	TY	PE	TYPE		Split spoon DATE STARTED: 08/09/06 2" DATE FINISHED: 08/09/06							
						DIA.			2"			DATE FINISHED:			
						WT.			140#			DRILLER:	Kevin E		
						FALL			30"			GEOLOGIST:	Brian V		
		* POCKET PENETROMETER READING										REVIEWED BY:	Tim Bu	rmeie	r
		1	SAMF			1			T	DES	CRIPTIC				
DEPTH				BLC		REC%			CONSIST			MATERIAL			REMARKS
FEET	STRATA	NO.	TYPE	PEF	₹ 6"	ROD%	СО	LOR				SCRIPTION	USCS		
	5000	1	SS	2	8	63%	D	ark	Very Stiff	SILT, s	ome fine	e gravel, trace fine to	ML	0.0	Dry
	7.7			21	18		Br	own		coarse	sand				
	אלאל	2	SS	12	14	54%									Moist
	7•7			12	12				V						
5	5252	3	SS	5	5	54%	Br	own	Stiff	SILT a	nd CLAY	, some fine to coarse	CL-ML		
	15/5/			7	13					gravel,	trace sa	ınd			
	5\S \ S	4	SS	6	9	50%			Very Stiff						
	• 6 3			18	9	0070			Medium	GRAVI	EL, some	e silt, clay and sand	GW-GM		
	~ . • /•	5	SS	5	9	33%			Dense						
10	*• • **	Ŭ		5	4	0070									▼
	• 🗞• •	6	SS	6	4	42%			Loose						Wet
	e.•^\$5•	Ů		5	11	4270									
	* •/•														
	• 🍫 👌	ł													
15	•,•\ < •								▼						
	•>•<•	7	SS	4	20	58%			Dense						
	• • >• •	,	33	19	18	3076	,	7				▼	•	•	▼
										End of	borehole	e at 17'			
20															
]									
]									
25															
]									
]									
]									
30															
]					1									
						1									
35						1									
						1									
Comme	nts:	A tru	ıck mour	nted Bł	<-81 ⊦	HD drill ric	equ	ippe	d with 4.25"	HSA wa	ıs		•		•
used. N	ised. No environmental samples were collected for laboratory analysis.											PROJECT NO.	111745	86.00	000
									•	spoon		BORING NO.	DEC-0		
	ontinuous split spoon samples collected down to top of water table. One spoon as collected 5' below the top of the water table.														

				URS	Со	rporat	TEST BORING LOG									
												BORING NO:	DEC-10			
PROJE			l Cortlar	ndville	<u> </u>							SHEET:	1			
CLIENT			DEC									JOB NO.: 11174586.00000				
	CONTRA		R:	Noth	nagle		_					BORING LOCATION:				
	DWATER:	_		1		1	C	AS.		CORE	TUBE	GROUND ELEVATION:				
DATE	TIME	LI	EVEL	TY	PE	TYPE		Split spoon DATE STARTED: 08/09/06								
						DIA.		2" DATE FINISHED: 08/09/06								
						WT.			140#			DRILLER:	Kevin E			
						FALL			30"			GEOLOGIST:	Brian V			
						* POC	KE.	T PE	NETROMET			REVIEWED BY:	Tim Bu	rmeie	r	
			SAME			_			T	DES	CRIPTIC					
DEPTH				BLC		REC%			CONSIST			/IATERIAL			REMARKS	
FEET	STRATA	NO.	TYPE	PE	R 6"	ROD%	СО	LOR				SCRIPTION	USCS	PID		
	5,5,5	1	SS	3	11	38%	D	ark	Very Stiff	SILT, s	ome fine	e to coarse gravel	ML	0.0	Moist	
	17.7	·		7	8	0070	Br	own								
	ファフ	2	SS	8	19	33%										
	• •>•	_	00	11	9	0070	G	ray	Med Dense	Fine to	coarse	GRAVEL, some silt	GW-GM			
5	\$.\\$\\\$	3	SS	4	5	29%	D	ark	Stiff	SILT a	nd CLAY	, some fine to coarse	CL-ML			
	188	3	33	6	12	2976	Br	own		gravel						
	6,50 %	4	SS	6	9	38%										
	* **	4	33	6	5	30 /0			▼						▼	
		-	SS	8	9	42%			Medium	Fine to	coarse	GRAVEL, some medium	GW		Wet	
10		5	33	5	5	42%			Dense	to coar	se sand				1	
						1										
				3	4	100/			Loose							
15		6	SS	5	24	46%	,	┢				▼		▼		
										End of	borehole	e at 15'				
						1										
						1										
20						1										
						1										
						1										
						1										
						1										
25						1										
						1										
						1										
						1										
						1										
30						1										
30						1										
						_										
						1										
						1										
35						1										
33						1										
Com	nter	Λ 4	iole == = :	יייי בי	/ 04 ¹	7D 4=:11 =.		iin =	d with 4 OF	⊔С∧ …					l	
	sed. No environmental samples were collected for laboratory analysis.											DDO IEST NO	444745	-00-00	1000	
									•			PROJECT NO.	111745		IUUU	
							ot v	vater	table. One s	spoon		BORING NO.	DEC-10	U		
was coll	ontinuous split spoon samples collected down to top of water table. One spoon as collected 5' below the top of the water table.															

			(URS	Со	rporat	ion				TEST BORIN	IG LO			
DD 0 154		001										BORING NO:			
PROJEC			l Cortlar	naville	!							SHEET:	1		474500 00000
CLIENT		NYS		N1 - 41								JOB NO.:		11	174586.00000
	CONTRA		K:	Nothr	nagie		212					BORING LOCATION:			
	DWATER:	1		ı			CAS.		-	CORE	TUBE	GROUND ELEVATION			
DATE	TIME	LI	EVEL	TY	PE	TYPE		Split sp	oon			DATE STARTED:	08/09		
						DIA.		2"				DATE FINISHED:	08/09	9/06	
						WT.		140#	#			DRILLER:	Kevin E	3usch	
						FALL		30"				GEOLOGIST:	Brian V	Veeks	i
						* POC	KET PEI	NETROM	/IETE	R REA	DING	REVIEWED BY:	Tim Bu	rmeie	er
			SAMF	LE						DESC	CRIPTIO	N			
DEPTH				BLC	ws	REC%		CONSI	IST		N	MATERIAL			REMARKS
FEET	STRATA	NO.	TYPE	PEF	R 6"	ROD%	COLOR	HARI	D		DE	SCRIPTION	uscs	PID	
	444			7	28		Brown	Hard	t	SILT. s	ome fine	to coarse gravel	ML	0.0	Dry
	6066	1	SS	30	24	75%	Gray					GRAVEL, some sand	GW		
	777			18	50		Brown	Hard				to coarse gravel, trace			
	15151	2	SS	10	30	75%	I	sand	OITIC IIIIC	to coarse graver, trace	IVIL				
	YY\			10	-				' como fino to coorea	CL MI		Maint			
5	XXX	3	SS	10	6	33%		id CLAY	, some fine to coarse	CL-ML		Moist I			
	\	-		5	7		↓								
	7 7 7	4	SS	6	6	38%	•								
	• • • •			7	6		Gray	Med De	nse	Fine to	coarse (GRAVEL, some fine	GW		
	• • • 7•	5	SS	14	16	50%		Dens	е	sand ar	nd silt				▼
10	• > •\• •	Ů		19	30	0070	Brown			- clay					Wet
	• • •						1								
	• • > •														
	• • •5•														
	5000														
15	6500			27	12										
10		6	SS	27	18	58%	\downarrow	\downarrow				₩	₩	$ \downarrow $	
	0 0 0/0			21	10		,	*		F . (1.40	•	,	V
										Ena of	borehole	e at 16"			
20															
25															
30															
30															
35															
Comme	nts:	A tru	ck moun	ted Bh	<-81 ⊦	ID drill rig	equippe	d with 4.2	25" H	ISA wa	S				
used. N	lo environn	nenta	sample	s were	colle	cted for la	boratory	analysis				PROJECT NO.	111745	586.00	0000
	ous split sp							•		poon		BORING NO.	DEC-1	1	
	ected 5' be									•					

			(URS	Co	rporat	ion			TEST BORIN	G LO	G		
											BORING NO:	DEC-12	2	
PROJE			l Cortlar	ndville)						SHEET:	1		
CLIENT		NYS									JOB NO.:			11174586.00000
	CONTRA		R:	Noth	nagle			T			BORING LOCATION:			
	DWATER:			I			CAS.			TUBE	GROUND ELEVATION:			
DATE	TIME	LE	EVEL	TY	PE	TYPE		Split spoor	וו		DATE STARTED:	08/10		
						DIA.		2"			DATE FINISHED:	08/10		
						WT.		140#			DRILLER:	Kevin E		
						FALL	VET DI	30" ENETROME	FED DE	ADING	GEOLOGIST:	Brian V		
			SAME			FUC	NEI PI	ENETROWE			REVIEWED BY:	Tim Bu	Ш	elei
DEPTH			SAIVIE		ows	REC%		CONSIST		CRIPTIC	MATERIAL			REMARKS
FEET	STRATA	NO	TYPE	PE		ROD%	COLO				SCRIPTION	USCS	PI	
	222	110.		3	8	KOD /0	Dark	Very Stiff	SILLS		e to coarse gravel	ML	0.	
		1	SS	9	9	50%	Brown				GRAVEL, some sand	GW	J.	l liy
	• • • •			5	9		Gray	l'ille to	coarse	OTAVEE, Some Sand	Ovv			
		2	SS	7	5	38%	Glay	Dense						
5	•.•\•<•			3	4		Brown	Loose	Fine to	coarse	GRAVEL, some silt and	GW-GC		Moist
Ť	5. \	3	SS	6	5	38%	000.00	0. t. 1. 22, 000 0 aa	0 00					
	KKK			6	7			Stiff	clay SII T a	nd CLA\	, some fine to coarse	CL-ML		
	<i>\</i> &\&\	4	SS	6	13	58%		0	gravel	na ob	, como imo to courso	OL IVIL		
				3	9		\ \	Medium		AND. so	me fine to coarse gravel	SP		
10	• •\• •	5	SS	8	14	54%	Light				GRAVEL, some clay	GW-GC		
	4 • 4 •		-00	2	4	2001	Brown	Loose			•			
,	• /• • /•	6	SS	5	2	38%								
	\$. \$.\$		00	5	8	200/		Hard	SILT a	nd CLA	, some fine to coarse	CL-ML		
	188	7	SS	26	14	38%					to coarse sand			▼
15	51595	8	SS	3	1	50%	₩	Soft						Wet
	(0	33	1	WoH	50%	Brown	Very	SAND,	some s	lt	SW-SM		
	7							Loose						
	7													
	5													
20		9	SS	12	12	71%		Dense						_
	• • • •	Ŭ		26	26	, 0	V		Fine to	coarse	GRAVEL, some sand	GW	1	V
									End of	borehol	e at 21'			
25														
20														
30														
35														
- 33														
Comme	nts:	A tru	ck moun	ited Ri	\ {- 81 ⊦	ID drill ric	ı eguinn	ed with 4.25"	HSA wa	as				l
	lo environn										PROJECT NO.	111745	886	.00000
								r table. One	spoon		BORING NO.	DEC-12		
	ected 5' be													

				URS	Co	rporat	tion				TEST BORIN			
											BORING NO:	DEC-1	3	
PROJE			l Cortlar	ndville							SHEET:	1		
CLIENT			DEC								JOB NO.:		1	1174586.00000
	G CONTRA		R:	Nothr	nagle			<u> </u>			BORING LOCATION:			
	IDWATER:	1				I	CAS.			TUBE	GROUND ELEVATION			
DATE	TIME	LI	EVEL	TY	PE	TYPE		Split spoon			DATE STARTED:	08/10)/06	
						DIA.		2"			DATE FINISHED:	08/10	0/06	
						WT.		140#			DRILLER:	Kevin E	Buscl	h
						FALL		30"			GEOLOGIST:	Brian V	Veek	S
						* POC	KET PEI	NETROMET	ER REA	DING	REVIEWED BY:	Tim Bu	rmei	er
			SAME	PLE		T		ı	DES	CRIPTIC	ON .			
DEPTH				BLC	ws	REC%		CONSIST		ľ	MATERIAL			REMARKS
FEET	STRATA	NO.	TYPE	PEF	₹ 6"	ROD%	COLOR	HARD		DE	SCRIPTION	USCS	PID)
	555	1	SS	2	8	58%	Dark	Very Stiff	SILT, s	ome fine	e to coarse gravel	ML	0.0	Dry
	6 6 6 6		00	12	13	0070	Brown	Medium	Fine to	coarse	GRAVEL, some sand	GW		
	• • • •	2	SS	6	8	42%		Dense						
	•/•>/•	_	33	6	7	42 /0			Fine to	coarse	GRAVEL, some clay	GW-GC		Moist
5			00	7	10	400/	Gray		and silt	, trace s	and			
		3	SS	16	14	42%								
				21	18	400/		Dense						
		4	SS	22	30	42%	▼							
				36	25		Light	Very						
10	• • • •	5	SS	33	36	63%	Brown	Dense			lack			
	X • · · · · · ·			13	31			2000	Fine to	coarse	SAND, some fine to	SW		
	X	6	SS	29	18	75%					silt and clay			
	*			15	17		l ↓	Dense	coarse	graver, .	I			
	• 🐧	7	SS	23	24	58%	Dark	Delise						
15	*			16	22		Brown	Very						
13	\ • \	8	SS		22	78%	DIOWII	1						
	\			50/5	40			Dense						
		9	SS	33	40	75%	Gray							
				27	28									
	(\\ \\ \	10	SS	31	34	75%	Brown							10/ /
20	S X			41	50									Wet
	\\.\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	11	SS	21	18	58%		Dense						
	Ş			16	11									
	\ \$													
25														
	4.	12	SS	12	45	63%		Very			\downarrow	11	\perp	
	// / //			45	21		•	Dense			V	V		V
									End of	borehole	e at 27'			
30														
]								
]								
35]								
						<u></u>								
Comme	ents:	A tru	ck mour	nted Bh	<-81 ⊦	HD drill rig	equippe	d with 4.25"	HSA wa	S				
	No environm										PROJECT NO.	111745	86.0	00000
			•					table. One	spoon		BORING NO.	DEC-1		
	lected 5' be								•					

			(URS	Co	rporat	tion				TEST BORIN			
											BORING NO:	DEC-1		
PROJEC			l Cortlar	ndville	!						SHEET:	1		
CLIENT			DEC								JOB NO.:		11	174586.00000
	CONTRA		R:	Nothr	nagle			<u> </u>	I	·	BORING LOCATION:			
	DWATER:			1			CAS.			TUBE	GROUND ELEVATION:			
DATE	TIME	LI	EVEL	TY	PE	TYPE		Split spoon			DATE STARTED:	08/11	1/06	
						DIA.		2"			DATE FINISHED:	08/1	1/06	
						WT.		140#			DRILLER:	Kevin E	3usch	
						FALL		30"			GEOLOGIST:	Brian V	Veeks	i
						* POC	KET PE	NETROMET	ER RE	ADING	REVIEWED BY:	Tim Bu	rmeie	er
			SAMF	LE					DES	CRIPTIC	N			
DEPTH				BLC	ws	REC%		CONSIST		N	MATERIAL			REMARKS
FEET	STRATA	NO.	TYPE	PEF	₹ 6"	ROD%	COLOR	HARD		DE	SCRIPTION	USCS	PID	
	5.5.5	1	SS	3	12	42%	Brown	Very Stiff	SILT, s	ome fine	e to coarse gravel	ML	0.0	Moist
	15/5/	'	55	10	9	42%								
	• • • • •			6	5	2001		Loose	Fine to	coarse	GRAVEL, some silt and	GW-GM		
	50.00	2	SS	3	4	38%			fine sar					
5	• •>• •			3	5			Medium						
	.\• A•	3	SS	12	19	25%		Dense	- some	olov				
							l ↓	Delise	- Some	ciay				
		4	SS	10	10	54%	11.11				OAND IC (0)4/		
				13	25		Light		l		SAND and fine to coarse	SW		
		5	SS	20	20	67%	Brown	Dense	GRAVE	L, trace	silt and clay			
10	•••			24	20									
	^•••	6	SS	19	21	67%	Gray							
	• • •	Ĺ		23	39		Brown	▼						
	• •\• •	7	SS	21	22	75%		Very						
	• • 🐧 •	<i>'</i>	00	50/4		7370		Dense						
15	• • • \•	,	2	29	50/2	750/								
	•••	8	SS			75%								
				30	31		1							
	\$	9	SS	34	50	67%								▼
	~ • •			34	39									Wet
20		10	SS	49	10	67%								
20	_ •\- •			70	10									
25	• • • > •	11	SS	34	46	83%	L	↓			\downarrow	L		↓
				39	40		V	V			V	•	•	V
									End of	borehole	e at 26'			
30														
						1								
						1								
35						1								
33														
Comme	nte:	Λ +	lok marr	tod Di	(01 1	1D 억년: -: -	. oguiss -	d with 4 OF"	LC 4)C		<u> </u>		<u> </u>
								d with 4.25"	HOW WS	15	DDC IECT NO	44474	-00 01	2000
	o environn		•								PROJECT NO.	111745		JUUU
							ot water	table. One s	spoon		BORING NO.	DEC-1	4	
was coll	ected 5' be	low th	ne top of	the wa	ater ta	ible.								

			(URS	Co	rporat	tion			TEST BORIN				
											BORING NO:	DEC-1)	
PROJEC			l Cortlar	ndville)						SHEET:	1		
CLIENT			DEC								JOB NO.:		111	174586.00000
	CONTRA		R:	Nothr	nagle			T		·	BORING LOCATION:			
	DWATER:					ı	CAS.			TUBE	GROUND ELEVATION:			
DATE	TIME	LI	EVEL	TY	PE	TYPE		Split spoon			DATE STARTED:	08/14	1/06	
						DIA.		2"			DATE FINISHED:	08/14	1/06	
						WT.		140#			DRILLER:	Kevin E	Busch	
						FALL		30"			GEOLOGIST:	Brian V	Veeks	
						* POC	KET PE	NETROMET	ER REA	ADING	REVIEWED BY:	Tim Bu	rmeie	ſ
			SAMF	LE					DES	CRIPTIC	N			
DEPTH				BLC)WS	REC%		CONSIST		N	MATERIAL			REMARKS
FEET	STRATA	NO.	TYPE	PEF	R 6"	ROD%	COLOR	HARD		DE	SCRIPTION	USCS	PID	
	5• 5 5	1	SS	4	12	50%	Brown	Very Stiff	SILT, s	ome fine	to coarse gravel	ML	0.0	Dry
	• • • •	'	33	13	22	30 /6		Medium	Fine to	coarse	GRAVEL, some silt	GW-GM		
	• • • • • • •	•	00	10	15	400/		Dense						
	S . •	2	SS	8	5	42%								
5	•(•.•\•			5	6			clay				Moist		
	• \$.	3	SS	4	11	42%								
	• • •			8	14									
	• • • • •	4	SS	50	17	44%		Very Dense						
	5			15	14			Medium	-			₩		
10	7*Y8Y8Y8Y	5	SS	14	27	58%			Fine to	000100	SAND, some gravel	SW		
10	<u> </u>						↓	Dense				-		
	700	6	SS	8	29	67%		Hard			some F-C sand and gravel	CL-ML	.	
	********			49	36		Gray		1		GRAVEL, some sand	GW		
		7	SS	15	18	63%	Brown	Dense	and tra	ce to so	me silt			
				19	30									
15	27°C	8	SS	18	36	58%		Very	Fine to	coarse	SAND, some gravel and	SW		
	7 7			22	21			Dense	silt					
	51515	9	SS	16	37	58%		Hard	SILT a	nd CLAY	, some gravel	CL-ML		
				25	18	00,0		Very	Fine to	coarse	GRAVEL, some sand	GW		V
	• • • •	10	SS	18	29	71%		Dense						Wet
20	• • • •			28	28	, 0								
	• • • •	11	SS	11	25	58%		Dense						
	• • • •	• •	00	22	20	3070								
	• • • •													
	\bullet \bullet \bullet													
25	• • • •										▼	▼		
	• • • •	40	00	4	15	500/			Fine to	coarse	SAND and GRAVEL	SW		
		12	SS	31	30	58%	▼	▼					lacktriangle	▼
									End of	borehole	e at 27'			
30														
						1								
35						-								
აა						-								
Comme	ntc	Λ 4	ok ma:	tod Di	/ 04 !	ال طينا ء: -		d with 4 OF"	ЦСА			<u> </u>		<u> </u>
								ed with 4.25"	noa wa	15	DDO ICOT NO	111715	.06.00	000
	o environm		•								PROJECT NO.	111745		UUU
							of water	table. One	spoon		BORING NO.	DEC-1)	
was colle	ected 5' be	iow th	ne top of	the wa	ater ta	ible.								

			(URS	Co	rporat	io	n				TEST BORIN			
												BORING NO:	DEC-1		
PROJE			l Cortlar	ndville	•							SHEET:	1		
CLIENT			DEC									JOB NO.:		11	174586.00000
	CONTRA		R:	Nothr	nagle		_		T	I		BORING LOCATION:			
	DWATER:			1			С	AS.	SAMPLER	CORE	TUBE	GROUND ELEVATION	N:		
DATE	TIME	LI	EVEL	TY	PE	TYPE			Split spoon			DATE STARTED:	08/1	5/06	
						DIA.			2"			DATE FINISHED:	08/1	5/06	
						WT.			140#			DRILLER:	Kevin I	Busch	1
						FALL			30"			GEOLOGIST:	Brian V	Veeks	3
						* POC	KE	T PE	NETROMET	ER RE	DING	REVIEWED BY:	Tim Bu	rmeie	er
			SAME	PLE					1	DES	CRIPTIC	DN			
DEPTH				BLC)WS	REC%			CONSIST		N	MATERIAL			REMARKS
FEET	STRATA	NO.	TYPE	PEF	R 6"	ROD%	СО	LOR	HARD		DE	SCRIPTION	USCS	PID	
	555	1	SS	5	18	75%	Br	own	Hard	SILT, s	ome fine	e to coarse gravel	ML	0.0	Dry
	. • • • • •	'		13	10	7370			Dense	Fine to	coarse	GRAVEL, some silt	GW-GM		
	~ • • •	2	SS	10	18	50%			Medium						
	• • • •		33	8	46	30%	G	ray	Dense	- some	F-C sar	nd, trace clay			▼
5	5.5.5	•	00	5	13	750/	Br	ome F-0	gravel, trace sand	ML		Moist			
		3	SS	8	6	75%		coarse	GRAVEL, some sand,	GW-GC					
	050/050			4	5	2001		ilt and c							
		4	SS	4	5	33%						ĺ			
	\$			16	12				Dense						
10		5	SS	19	29	58%	1		2000						
	<u> 50\.50</u>			10	50/3		\٨/	hite	Very						
		6	SS	-	-	44%	•	TITLE	Dense						
	Za\ _<_			15	48		Dr	own	Delise						
	70730-XXX	7	SS			79%	ы	I							
15	<u> </u>			43 29	49 45							\downarrow			
15		8	SS			71%			V	OU T	10141/		0, 14		
	3\3\3			37	45				Hard			some gravel, trace sand	_		
	≤ 3	9	SS	43	34	46%			Very		coarse	GRAVEL, some silt and	I GW-GM		
	20020			27	41				Dense	sand					
	> 7	10	SS	39	30	71%						SAND, some gravel,	SW-SC		
20	$\Lambda ullet$			29	46					silt and	ciay				•
	5\5	11	SS	11	16	54%			Medium						Wet
	^• \			14	14				Dense						
	/ X														
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\														
25	` \														
	SN S	12	SS	29	22	58%	١,	╧	Dense		_	L	11		
	``\\`\			23	22			<u> </u>				<u> </u>		•	•
										End of	borehole	e at 27'			
30															
35															
Comme	nts:	A tru	ick moun	nted Bł	<-81 ⊦	ID drill rig	equ	uippe	ed with 4.25"	HSA wa	ıs				
used. N	o environm	nental	sample	s were	colle	cted for la	bor	atory	analysis.			PROJECT NO.	111745	586.0	0000
Continuo	ous split sp	oon s	samples	collect	ted do	wn to top	of v	vater	table. One s	spoon		BORING NO.	DEC-1	6	
	ected 5' be														

			(URS	Co	rporat	tion	•			TEST BORIN	IG LO	G			
													BORING NO:	DEC-1	7	
PROJE		SCM	l Cortlar	ndville	!								SHEET:	1		
CLIENT			DEC										JOB NO.:		11	174586.00000
	CONTRA		R:	Nothr	nagle								BORING LOCATION:			
GROUN	DWATER:						CA	۱S.	SAMPL	LER	CORE	TUBE	GROUND ELEVATION	l:		
DATE	TIME	LI	EVEL	TY	PE	TYPE			Split sp	oon			DATE STARTED:	08/15	5/06	
						DIA.			2"				DATE FINISHED:	08/15	5/06	
						WT.			140#	#			DRILLER:	Kevin E	Busch	l .
						FALL			30"				GEOLOGIST:	Brian V		
						* POC	KET	PEI	NETRO	MET			REVIEWED BY:	Tim Bu	rmeie	er
		1	SAME			1			ı		DES	CRIPTIC				
DEPTH				BLC		REC%			CONS				MATERIAL			REMARKS
FEET	STRATA	NO.	TYPE	PEF		ROD%	_			_			SCRIPTION	USCS		
	אבאבא	1	SS	4	3	38%	Bro	wn	Mediu			ome fine	to coarse gravel and	ML	0.0	Moist
	7.7			4	3				Stiff		sand					
	クララ	2	SS	5	7	50%		,	Very S							
9 9 Med Dense Fine														GW-GM		
5														ML	.	
				8	10		Bro	wn					GRAVEL, some sand	GW		
	72727	4	SS	11	6	46%			Stiff				, some fine to coarse	CL-ML		
	707			8	14				sand a	nd grave	l					
4.0	72727	5	SS	8	10	33%			Hard	d						
10				23	40											
	\$\ " \	6	SS	18	16	58%			Mediu				SAND, some silt, clay	SW-SC		
	• \\			10	36				Dens		and gra	ivei				
		7	SS	19	18	54%			Dens				OD 41/EL			
45	75/200000			20	30								GRAVEL, some sand	GW		1
15		8	SS	12	19	63%			↓		and silt					\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	*****			27	26				\ \ \							Wet
	50 • •	9	SS	19 32	22 36	75%			Very Dens							
	**************************************			32	30				Dens	56						
20	• • •															
20				10	13				Dens	Se .						
	50 . •	10	SS	19	20	50%	1	7	Dono				₩	₩	\forall	▼
											End of	borehole	e at 22'			
25																
						1										
						1										
30																
35																
Comme	nts:	A tru	ck mour	nted B	<-81 F	ID drill rig	g equi	ippe	d with 4.	.25" H	HSA wa	s			_	
used. N	o environm	nental	sample	s were	colle	cted for la	abora	tory	analysis	S.			PROJECT NO.	111745	86.00	0000
	ous split sp						of wa	ater	table. C	One s	poon		BORING NO.	DEC-1	7	
was coll	ected 5' be	low th	ne top of	the wa	ater ta	ıble.										

			(URS	Co	rporat	tion			TEST BORIN	G LO	G		
											BORING NO:	DEC-18	3	
PROJE		SCM	l Cortlar	ndville	!						SHEET:	1		
CLIENT			DEC								JOB NO.:		111	74586.00000
	CONTRA		R:	Noth	nagle		r	1			BORING LOCATION:			
GROUN	DWATER:					П	CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION:	<u> </u>		
DATE	TIME	LI	EVEL	TY	PE	TYPE		Split spoon			DATE STARTED:	08/16	6/06	
						DIA.		2"			DATE FINISHED:	08/16	6/06	
						WT.		140#			DRILLER:	Kevin E	Busch	
						FALL		30"			GEOLOGIST:	Brian V		
						* POC	KET PE	NETROMET			REVIEWED BY:	Tim Bu	rmeier	
		1	SAME			1		1	DES	CRIPTIC				
DEPTH				BLC		REC%		CONSIST			MATERIAL			REMARKS
FEET	STRATA	NO.	TYPE	PE	२ 6"	ROD%	COLOR				SCRIPTION	USCS		
	555	1	SS	17	19	63%	Brown				vel, trace sand	ML	0.0	Moist I
	***			10	8						GRAVEL, some sand	GW	.	
	%	2	SS	13	14	42%	Brown	Very Stiff	SILT a	nd CLAY	', some gravel	CL-ML		
	<u>, }•</u> }			9	10									
5	X	3	SS	7	6	38%		Stiff	- some	sand				
	\Z\\ \.			5	5		l L							
	5 x x	4	SS	10	8	46%			 			····		
				5	6		Black	Medium			RAVEL, some silt and clay	GW-GC		
		5	SS	15	12	54%	Brown	Dense	trace s					\downarrow
10	<u> </u>			9	8		.				, some gravel and sand	CL-ML		
		6	SS	4	7	54%		Medium			GRAVEL, some sand,	GW		Wet
	**************************************			9	7		.	Dense	trace si	ilt and cl	ay			
	101-112 VIII													
15														
	(Security)	8	SS	2	7	25%	↓	↓			—		\downarrow	\downarrow
	. / selde-dilect			4	7		V	V				٧	V	•
						-			End of	borehole	e at 17			
20						-								
20						-								
25						1								
20						1								
						1								
						†								
						†								
30						†								
- 00						-								
						1								
						1								
						1								
35						1								
Comme	nts:	A tru	ck mour	nted Bl	<-81 F	ID drill ric	equippe	ud with 4.25"	HSA wa	ıs		1		
	o environm										PROJECT NO.	111745	86.00	000
							•	table. One	spoon		BORING NO.	DEC-18		
	ected 5' be													
_	_	_	_	_	_				_	_		_	_	

			U	JRS	Co	rporat	ion		TEST BORII					
											BORING NO:	DEC-19	9	
PROJEC			Cortlan	ndville	!						SHEET:	1		
CLIENT		NYS									JOB NO.:		111	174586.00000
	CONTRA	СТО	R:	Nothr	nagle						BORING LOCATION:			
GROUN	DWATER:			•			CAS.		CORE	TUBE	GROUND ELEVATIO	N:		
DATE	TIME	LE	EVEL	TY	PE	TYPE		Split spoon			DATE STARTED:	08/16	6/06	
						DIA.		2"			DATE FINISHED:	08/16	6/06	
						WT.		140#			DRILLER:	Kevin E	Busch	
						FALL		30"			GEOLOGIST:	Brian V	/eeks	
						* POC	KET PE	NETROMET	ER REA	DING	REVIEWED BY:	Tim Bu	rmeier	•
			SAMP	LE					DES	CRIPTIO	N			
DEPTH				BLC	ws	REC%		CONSIST		N	IATERIAL			REMARKS
FEET	STRATA	NO.	TYPE	PEF	२ 6"	ROD%	COLOR	HARD		DE	SCRIPTION	USCS	PID	
	5.55	4	22	6	8	220/	Brown	Stiff	SILT, s	ome gra	vel	ML	0.0	Moist
	6,0'.50	1	SS	6	3	33%	1				GRAVEL, some silt	GW-GM		
	50 0	_		2	3	222/		Dense			,			
	1.1	2	SS	9	17	29%		some fin	e to coarse gravel	CL				
5	• • •			6	13				gravel, some sand	GW				
		3	SS	10	2	38%		Medium Dense						Wet
	• • • •				_									1
	• • • •													
10	******													
10				2	2			Loone						
	******	4	SS	3	2 4	25%	\downarrow	Loose			\downarrow		\downarrow	↓
				3	4		•		F l f	l l l -	-+ 40	+ +		V
									Ena of	borehole	e at 12"			
15														
20														
25														
30														
35														
Comme	nts:	A tru	ck moun	ited Bk	<-81 ⊦	ID drill ria	equippe	d with 4.25" l	HSA wa	S				
	o environm										PROJECT NO.	111745	86.00	000
							•	table. One s	poon		BORING NO.	DEC-19		
	ected 5' bel						J. 114101		P-0011		_5,5 110.	220 10	-	
. ,														

			l	URS	Co	rporat	tion					TEST BORIN				
												BORING NO:	DEC-2			
PROJEC			l Cortlar	idville								SHEET:	1			
CLIENT			DEC	N1 - 41								JOB NO.:			111	174586.00000
	CONTRA		K:	Nothr	nagie		040	٦,	4 14 D.L. E.D.	0005	TUDE	BORING LOCATION:				
	DWATER:						CAS.	_		CORE	TUBE	GROUND ELEVATION:			_	
DATE	TIME	LI	EVEL	TY	PE	TYPE		S	plit spoon			DATE STARTED:	08/1			
						DIA.			2"			DATE FINISHED:	08/1			
						WT.			140#			DRILLER:	Kevin I			
						FALL			30"			GEOLOGIST:	Brian V			
						* POC	KET P	ENE	TROMET			REVIEWED BY:	Tim Bu	ırm	eier	•
			SAMF			1				DES	CRIPTIC					
DEPTH				BLC		REC%			ONSIST			MATERIAL				REMARKS
FEET	STRATA	NO.	TYPE	PEF	₹ 6"	ROD%	COLO	R	HARD			SCRIPTION	USCS	Р	ID	
	555	1	SS	8	8	38%	Brown	۱ 🗀	Stiff	SILT, s	ome gra	vel	ML	0	.0	Moist
	• • • •			2	2	0070			Loose	Fine to	coarse	GRAVEL, some sand	GW			
	• (\	2	SS	3	5	46%			Medium	SAND,	some fi	ne to coarse gravel,	SW-SC			
	∖ 7• ′	_		7	7	4070			Dense	silt and	clay					
5	•	3	SS	7	14	33%		coarse	gravel, some sand, trace	GW						
	• • • •	٦	33	10	9	33/6				silt						
	• • • 7•	4	SS	5	8	220/										
	69 · •	4	33	7	9	33%			lacktriangle							
	• • • •	_	00	4	4	000/			Loose							Wet
10		5	SS	3	3	38%										
	• • • •								\forall							
				14	19				Dense							
15		6	SS	14	13	38%			Delise			\rightarrow	₩	1		↓
					10		'			End of	borehole	at 15'	,		•	V
										LIIU OI	DOIGHOR	acio				
						1										
20																
20																
						-										
25						1										
25						1										
						1										
						-										
						-										
						-										
30																
						1										
35]										
Comme	nts:	A tru	ck moun	ted Br	<-81 ⊦	HD drill rig	equipp	ed w	vith 4.25"	HSA wa	S					
used. N	o environm	nental	sample	s were	colle	cted for la	borator	y an	alysis.			PROJECT NO.	11174	586	.00	000
Continuo	ous split sp	oon s	samples	collect	ed do	wn to top	of wate	er tab	ole. One	spoon		BORING NO.	DEC-2	0		
was coll	ected 5' be	low th	ne top of	the wa	ater ta	able.										

			l	URS	Со	rporat	tion				TEST BORIN				
												BORING NO:	DEC-2	1	
PROJE			l Cortlar	ndville	!							SHEET:	1		
CLIENT			DEC									JOB NO.:		1	1174586.00000
BORING	CONTRA	СТО	R:	Nothr	nagle		1			1		BORING LOCATION:			
	DWATER:	_					CAS				TUBE	GROUND ELEVATION			
DATE	TIME	LE	EVEL	TY	PE	TYPE			Split spoon			DATE STARTED:	08/16	6/06	
						DIA.			2"			DATE FINISHED:	08/16	6/06	
						WT.			140#			DRILLER:	Kevin E	Buscl	h
						FALL			30"			GEOLOGIST:	Brian V	Veek	S
						* POC	KET F	PΕΝ	NETROMET	ER RE	DING	REVIEWED BY:	Tim Bu	rmei	er
			SAME	LE		T				DES	CRIPTIC	ON .			
DEPTH				BLC)WS	REC%			CONSIST		N	MATERIAL			REMARKS
FEET	STRATA	NO.	TYPE	PEF	₹ 6"	ROD%	COLC	R	HARD		DE	SCRIPTION	USCS	PID	
	5.55	1	SS	9	4	79%	Brow	n	Very Stiff	SILT, s	ome gra	vel	ML	0.0	Moist
	6 • '• ¿ •	·	00	14	18	7370			Medium	Fine to	coarse	GRAVEL, some silt	GW-GM		
	• ,• • .>•	2	SS	8	9	46%		nd							
	•>••	_	33	6	6	4076									
5	5)5,15	3	SS	3	2	220/			Medium	SILT a	nd CLAY	', some gravel, trace	CL-ML		
	Y5Y5X	3	33	4	5	33%			Stiff	sand					
	4.5151		00	6	5	000/			Stiff						
	15/5 X	4	SS	5	6	38%							▼		
		_		4	2				Loose	Fine to	coarse	GRAVEL, some sand	GW		Wet
10		5	SS	3	5	38%									
						1			\forall						
		_		4	8				Medium						
15		6	SS	7	4	29%	₩		Dense			\downarrow	★	\forall	
	·			-						End of	borehole	e at 15'			*
										Liid oi	501011011	o at 10			
20															
25						1									
						1									
						†									
						1									
						†									
30						1									
30						1									
						1									
						1									
						1									
25						-									
35						1									
0		<u> </u>				15 1			1 10 405						
Comme									d with 4.25"	HSA wa	S	DDG 1505 110	444-7-	.00 -	2000
	lo environn											PROJECT NO.	111745		JUUUU
							or wat	er	table. One s	spoon		BORING NO.	DEC-2	1	
was coll	ected 5' be	iow th	ne top of	tne wa	ater ta	abie.									

			(URS	Со	rporat	tion			TEST BORIN						
												BORING NO:	DEC-2	2		
PROJE			l Cortlar	ndville								SHEET:	1			
CLIENT			DEC									JOB NO.:			111	74586.00000
	CONTRA		R:	Nothr	nagle			1				BORING LOCATION:				
	DWATER:	1		ı		Т	CAS.			CORE	TUBE	GROUND ELEVATION				
DATE	TIME	LI	EVEL	TY	PE	TYPE			spoon			DATE STARTED:	08/17			
						DIA.			2"			DATE FINISHED:	08/17			
						WT.			40#			DRILLER:	Kevin E			
						FALL			30"			GEOLOGIST:	Brian V			
						* POC	KET PE	NETR	OMET	ER REA	DING	REVIEWED BY:	Tim Bu	rme	eier	
			SAME	LE						DES	CRIPTIC	ON .	1			
DEPTH				BLC	ws	REC%		COI	NSIST		N	MATERIAL				REMARKS
FEET	STRATA	NO.	TYPE	PEF	R 6"	ROD%	COLOR	R H	ARD		DE	SCRIPTION	USCS	Р	ID	
	555	1	SS	16	21	33%	Brown	Н	lard	SILT, s	ome gra	vel	ML	0	.0	Moist
	. • • •	'	33	24	16	3376		De	ense	Fine to	coarse	GRAVEL, some sand,	GW			
	• • • •	2	SS	13	12	E00/				trace si	ilt					
	• • • • • • •	2	33	19	18	58%										
5		_	00	9	9	000/	1	Me	dium							
		3	SS	6	4	33%		De	ense							
	\$9.00			5	12		1									₩
		4	SS	8	10	42%										Wet
				_			1									Ĭ
10	• • •															
	• • • •															
	2000			12	15		1									
		5	SS	8	7	33%	₩	,	₩			₩	\downarrow	1	 	\downarrow
15				0	,				•	End of	borehole	a at 1/1	,			•
15										Elia oi	DOLETION	t at 14				
20																
20																
25																
30																
]										
]										
35																
Comme	nts:	A tru	ck moun	ted B	<-81 F	ID drill rig	equippe	ed with	4.25"	HSA wa	ıs					
used. N	o environn	nental	sample	s were	colle	cted for la	aboratory	analy	sis.			PROJECT NO.	111745	86	.00	000
Continue	ous split sp	oon s	amples	collect	ed do	wn to top	of wate	table.	Ones	spoon		BORING NO.	DEC-2	2		
	ected 5' be															
	_	_		_		_	_	_	_	_	_		_			

				URS	Co	rporat	tion					TEST BORIN	G LO	G			
												BORING NO:	DEC-2	3			
PROJE	CT:	SCM	l Cortlai	ndville)							SHEET:	1 of 2				
CLIENT			DEC									JOB NO.:		•	1117	4586.00000	
	CONTRA		R:	Noth	nagle							BORING LOCATION:					
GROUN	DWATER:						CAS.	SAMI	PLER	CORE	TUBE	GROUND ELEVATION	:				
DATE	TIME	LE	EVEL	TY	PE	TYPE		Split s	spoon			DATE STARTED:	08/22	2/06	i		
						DIA.		2	2"			DATE FINISHED:	08/22	2/06	i		
						WT.		14	0#			DRILLER:	Kevin E	Bus	ch		
						FALL		30	0"			GEOLOGIST:	Brian V	Vee	ks		
						* POC	KET PE	NETRO	OMET	ER REA	DING	REVIEWED BY:	Tim Bu	rme	eier		
			SAMI	PLE						DES	CRIPTIC	N					
DEPTH				BLC	ows	REC%		CON	SIST		N	MATERIAL				REMARKS	
FEET	STRATA	NO.	TYPE	PE	R 6"	ROD%	COLOR	НА	RD		DE	SCRIPTION	USCS	PI	D		
	555	1	SS	2	6	38%	Brown	Very	Stiff	SILT, s	ome fine	e to coarse gravel	ML	0.	0	Moist	
	• • •	'	33	15	16	3076		Med	dium	Fine to	coarse	GRAVEL, some silt and	GW-GM				
	• • •5•							Der	nse	fine to	coarse s	and					
	• • • •																
5	5 • •																
		_	SS	5	5	33%	1	Loc	ose								
	• • • • •	2	33	3	4	33%											
							1										
	50																
10								1	7								
	•\• •5•			5	10	= 40/		Med	dium	- some	clay						
		3	SS	14	14	54%			nse		,						
	50																
15	• • • • •	1							7								
				20	28			Ve	erv								
	50	4	SS	31	29	63%			nse								
	• • • 5•																
20																	
	50	_		23	48												
		5	SS	50/3	-	60%											
	• • • 5•																
25	5000											▼	₩				
	ζ,	_	00	20	21	000/	1			Fine to	coarse	SAND, some fine to	SW-SM				
	•	6	SS	50/4	-	69%				coarse	gravel a	and silt	1 1				
	ζ										J						
	• •																
30	5												▼				
	•/• •/•	_		19	50/4	000/				Fine to	coarse	GRAVEL, some clay	GW-GC				
	<i>S</i> •••	7	SS	_	-	60%					, trace s						
	~• • \•	_		22	49		1				,						
	• • • • • • • • • • • • • • • • • • • •	8	SS	28	48	75%											
35	۰)٠ •(٠			16	41	0651											
	S . \	9	SS	23	30	38%	♦	♦	7			★	₩	₩	,	₩	
Comme	nts:	A tru	ick mour	1		ID drill rig	equippe	ed with	4.25"	HSA wa	S		<u> </u>				
	ronmental											PROJECT NO.	111745	586.	0000	00	
	ent sampli								p of w	ater tab	le.	BORING NO.	DEC-2				
	nple collect				_		· · · · · · · · · · · · · · · · · ·	<u> </u>									

			U	JRS	Coi	rporat	ion)			TEST BORIN	IG LO	G	
											BORING NO:	DEC-2	3	
PROJE	CT:	SCM	l Cortlar	ndville	•						SHEET:	2 of 2		
CLIENT	:	NYS	DEC								JOB NO.:		111	174586.00000
			SAMP						T	DESCRIPTIO				
DEPTH					ows	REC%			CONSIST		MATERIAL			REMARKS
	STRATA		TYPE	PEF		ROD%					SCRIPTION	USCS		
	• • • •	10	SS	36	50/4	80%		wn	Very		GRAVEL, some fine to	GW	0.0	Moist I
	000			39	50/4		Gr Bro	_	Dense Hard	coarse sand	/, some fine to coarse	CL-ML		
40	78787	11	SS	-	-	80%		, vvi i	Tialu	sand and grave		CL-IVIL		
10	• • •			21	26				Very		GRAVEL, some fine to	GW-GM		Wet
	5•••	12	SS	27	35	63%			Dense	coarse sand an				
	• • • •													
	• • • • • • • • • • • • • • • • • • • •													
45	• • •													
	~••	13	SS	11	17	50%		_	Medium	,	_		\perp	
	• • • •			31	40				Dense		<u> </u>		•	V
										End of borehole	e at 47'			
50														
- 00														
55														
60														
65														
70														
					igsqcup									
					\sqcup									
75					$\left - \right $									
Comme	nts:	A tru	ck moun	ited Bl	K-81 F	ID drill ri	g equ	iippe	ed with 4.25"	HSA was				
											PROJECT NO.	111745		0000
											BORING NO.	DEC-2	3	

			(URS	Co	rporat	tion				TEST BORIN	G LO	G		
											BORING NO:	DEC-2	4		
PROJE	CT:	SCM	l Cortlar	ndville	!						SHEET:	1 of 2			
CLIENT			DEC								JOB NO.:		1	1174586.00000	
	CONTRA		R:	Nothr	nagle			T	1		BORING LOCATION:				
GROUN	DWATER:						CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION:				
DATE	TIME	LE	EVEL	TY	PE	TYPE		Split spoon			DATE STARTED:	08/2	2/06		
						DIA.		2"			DATE FINISHED:	08/2	3/06		
						WT.		140#			DRILLER:	Kevin I	Busc	:h	
						FALL		30"			GEOLOGIST:	Brian V	Veek	(S	
						* POC	KET PE	NETROMET	ER REA	DING	REVIEWED BY:	Tim Bu	ırmei	ier	
			SAME	PLE		1		1	DES	CRIPTIC	ON .	1			
DEPTH				BLC		REC%		CONSIST			MATERIAL			REMARKS	
FEET	STRATA	NO.	TYPE	PEF	₹ 6"	ROD%	COLOR	HARD		DE	SCRIPTION	USCS	+	+	
	うつつ	1	SS	8	8	50%	Brown	Very Stiff	SILT, s	ome fine	e to coarse gravel,	ML	0.0	O Moist	
	• 7 9			14	9				asphalt	(3-5"), t	race fine to coarse sand				
	5/5/5														
	7.7.														
5	5,5,5														
	• 7 • 7	2	SS	8	5	0%		Stiff	- No re	covery					
	5,5,5			6	4	0,0									
	7.7 °														
	5.5.5														
10	•5'5'							▼		,	▼	▼		*	
	• •	3	SS	3	3	33%		Loose	Fine to	coarse	SAND, some fine to	SW-SM		Wet	
	55		00	3	9	3370			coarse	gravel a	nd silt				
	•														
	5 5														
15	• •							₩				▼		▼	
	5• • 9	4	SS	12	14	58%		Dense	Fine to	coarse	GRAVEL, some fine to	GW-GM		Moist	
	• • •	7	33	17	12	30 /6			coarse	sand an	d silt				
	5• • 9														
	• • • •														
20	5•• 9							▼							
	• • • •	5	SS	25	26	50%		Very							
	5• • 9	3	33	24	25	30 /8		Dense							
	• • •														
	<u>چ</u> • ج														
25	• • •														
	<u>د</u> . ه	6	SS	24	37	63%									
	•••	٥	33	34	26	0376									
	<u>د</u> . ه]								
	• • • •														
30	<u>د</u> . ه														
	•••	7	SS	45	46	88%									
	•	l '	33	50/4	-	00 /0		▼			▼	▼			
	5,5,5		SS	35	50/4	600/]	Hard	SILT, s	ome fine	e to coarse gravel, trace	ML			
	15151	8	33	-	-	60%			sand		-				
35	5,5,6	0	SS	30	29	670/]								
	15151	9	33	26	21	67%	▼	▼					🔻	▼	
Comme	nts:	A tru	ck mour	nted Bł	<- <u>8</u> 1 ⊦	ID drill rig	g equippe	d with 4.25"	HSA wa	S					
No envir	onmental s										PROJECT NO.	11174	586.0	00000	
Intermitt	ent samplii	ng (ev	/ery 5') t	o 30' b	gs. C	ontinuou	s samplin	g to top of w	ater tab	le.	BORING NO.	DEC-2	4		
One san	nple collect	ted 5'	below w	vater ta	able.										

			U	JRS	Co	rporat	ior	1				TEST BORING	G LO	G	
											E	BORING NO:	DEC-2	4	
PROJE	CT:	SCM	l Cortlar	ndville)						5	SHEET:	2 of 2		
CLIENT	:	NYS									_	IOB NO.:		111	174586.00000
			SAMP			1			I	DESCRIPTIO			1		
DEPTH				BLO		REC%			CONSIST			ATERIAL		-	REMARKS
	STRATA	NO.	TYPE	PER		ROD%		LOR				CRIPTION	USCS		
	~ • \•	10	SS	21	26	71%		own	Very				GW-GC	0.0	Moist I
	30.00			28	24			ray	Dense	clay, fine to coa	ar	se sand			
40	<u> </u>	11	SS	15 20	17 22	58%	Bro	own	Dense						↓
40	()()(Hard	CII T and CI AV	V	some fine to coarse	CL-ML		Wet
,	75858	12	SS	19 25	21 24	71%			пати	gravel, trace sa			CL-IVIL		vvet I
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			19	21				Dense	~	_	RAVEL, some fine to	GW-GC		
	•\•••	13	SS	17	16	67%			Delise	coarse sand an			GW-GC		
45	• • •														
	• • •/•	44	00	19	29	500/			Very						
	• • • •	14	SS	28	18	50%	1	7	Dense		,	₩		\blacksquare	
										End of borehole	le	at 47'			
50															
					<u> </u>										
55															
					<u> </u>										
60															
65															
70					<u> </u>										
75															
Comme	nts:	A tru	ck moun	ited Bł	K-81 F	HD drill ric	g equ	uippe	ed with 4.25"	HSA was	Ī		,		ı
											1	PROJECT NO.	111745	86.00	0000
											1		DEC-2	4	
											1				

				URS	Co	rporat	ion					TEST BORIN			
												BORING NO:	DEC-2	5	
PROJE		SCN	I Cortlar	ndville	<u> </u>							SHEET:	1 of 2		
CLIENT			DEC									JOB NO.:		1	1174586.00000
	G CONTRA		R:	Noth	nagle			-				BORING LOCATION:			
GROUN	IDWATER:						CAS.	_		CORE	TUBE	GROUND ELEVATION	•		
DATE	TIME	LI	EVEL	TY	PE	TYPE		3	Split spoon			DATE STARTED:	08/23	3/06	
						DIA.			2"			DATE FINISHED:	08/23	3/06	
						WT.			140#			DRILLER:	Kevin E	Busch	h
						FALL			30"			GEOLOGIST:	Brian V	/eek	s
						* POC	KET P	EN	ETROMET	ER REA	DING	REVIEWED BY:	Tim Bu	rmei	er
			SAME	PLE						DES	CRIPTIC	N			
DEPTH				BLC	ows	REC%			CONSIST		N	MATERIAL			REMARKS
FEET	STRATA	NO.	TYPE	PE	R 6"	ROD%	COLO	R	HARD		DE	SCRIPTION	USCS	PID)
	555	1	SS	3	7	50%	Brown	۱ _	Stiff	SILT, s	ome fine	e to coarse gravel	ML	0.0	Moist
	• • • •	Ľ.	00	7	7	0070			Medium	Fine to	coarse	GRAVEL, some silt and	GW-GM		Dry
	• • • • • •								Dense	sand					
	\bullet \bullet \bullet														
5	5 •••												▼		
	• •	2	SS	4	5	38%			Loose	Fine to	coarse	SAND, some fine to	SW-SC		Moist
		2	33	5	9	38%				coarse	gravel, t	race silt and clay			
	• •											•			
10	• •								lacktriangle				▼		
	50.0			33	31			-	Very	Fine to	coarse	GRAVEL, some fine to	GW-GM		Dry
		3	SS	49	50	79%			Dense		sand an	·			
	• • • • •			70	- 00					ooarsc	ouria ar				
15	5														
				25	32										
	• • • •	4	SS	46		71%									
	WWW.WW.			40	31										
20	******								\downarrow						
20	SAKONANO			10	24			-	Danas			\	↓		
	2 0000000	5	SS	16	21	54%			Dense I	Fin - 4-		0 A N D	V		
	7			26	24						coarse	SAND, some gravel and	SW-SM		
										silt					
0.5	. 7.								\downarrow						
25															
	7	6	SS	38	39	71%			Very						· · · · ·
				49	50/3				Dense						Moist I
	2														
30	7														
		7	SS	25	43	75%									
	5			50/4	-										
	2	8	SS	28	48	60%									
	7	Ļ		50/3	-										
35	• •/	9	SS	35	50/4	70%	1		\perp			\perp	$ \perp $		
	7			-	-	- 70	■ ▼					▼	▼	▼	▼
Comme No envi	ents: ronmental s								with 4.25"	HSA wa	S	PROJECT NO.	111745	86 O	0000
									to top of w	ater tah	le	BORING NO.	DEC-25		
	nple collect					J. M. IUUU	o oampi	ıy	to top or w	ator tab		DOMING NO.	DLU-23		
J5 501			W	it											

			U	JRS	Coi	rporat	tion				TE	ST BORIN	G LO	G	
										В	ORIN	IG NO:	DEC-2	5	
PROJE	CT:	SCM	Cortlar	ndville)					Sł	HEE.	Γ:	2 of 2		
CLIENT	:	NYS	DEC							JC	OB N	0.:		11	174586.00000
			SAMP	LE					DESCRIPTIO	N					
DEPTH				BLC	ows	REC%		CONSIST	N	MA [°]	TER	IAL			REMARKS
FEET	STRATA	NO.	TYPE	PEF	₹ 6"	ROD%	COLOR	HARD	DE	SC	CRIP	TION	USCS	PID	
	5	10	SS	50/1	-	0%	Brown	Very	Fine to coarse	SA	ND,	some gravel and	SW-SM	0.0	Moist
	• •	10	00	-	-	0 70	1	Dense	silt						
	ς	11	SS	29	50/4	60%									
40	• •		- 00	-	-	0070									
	5	12	SS	39	38	79%		Dense							▼
	• •	12	- 00	10	10	1370			- Some clay an	nd s	silt		SW-SC		Wet
	5														
	• •												SW-SM		
45	5														
	• •														
	5														
	• •	13	SS	39	19	75%		↓					▼		
	• • • •			26	31		•	V	Fine to coarse			L, some sand	GW	•	▼
50									End of borehole	e a	t 49'				
55															
60															
65															
05															
70															
7.0															
75															
Comme	nts:	A tru	ck moun	nted Bl	K-81 F	ID drill ri	g equippe	ed with 4.25"	HSA was						
										1	PF	ROJECT NO.	111745	586.00	0000
										1			DEC-2		
										1					

			(URS	Со	rporat	ion				TEST BORIN			
											BORING NO:	DEC-20	3	
PROJEC			l Cortlar	ndville	!						SHEET:	1		
CLIENT			DEC								JOB NO.:		11	174586.00000
	CONTRA		R:	Nothr	nagle	1		T			BORING LOCATION:			
	DWATER:						CAS.			TUBE	GROUND ELEVATION:			
DATE	TIME	LI	EVEL	TY	PE	TYPE		Split spoon			DATE STARTED:	08/21	/06	
						DIA.		2"			DATE FINISHED:	08/21	/06	
						WT.		140#			DRILLER:	Kevin E	Busch	
						FALL		30"			GEOLOGIST:	Brian V	Veeks	i
						* POC	KET PE	NETROMET	ER REA	DING	REVIEWED BY:	Tim Bu	rmeie	r
			SAMF	LE					DES	CRIPTIC	N			
DEPTH				BLC	ws	REC%		CONSIST		N	MATERIAL			REMARKS
FEET	STRATA	NO.	TYPE	PEF	R 6"	ROD%	COLOR	HARD		DE	SCRIPTION	USCS	PID	
	5 •5 5	1	SS	3	8	50%	Brown	Very Stiff	SILT, s	ome fine	e to coarse gravel	ML	0.0	Moist
	·C'•	'	33	10	8	30 /6		Med Dense	Fine to	coarse	GRAVEL, some silt and	GW-GM		Dry
	•/• • •	_	00	7	18	E00/		Dense	sand					
	• • • • • •	2	SS	25	32	58%								
5		_		17	26									Moist
	50.0	3	SS	21	28	71%				•	y			1
	• 5 •			48	40			Very	F-C SA	ND son	ne silt and gravel	SW-SM		
	• • \•<•	4	SS	43	40	83%		1						
	$\lambda \lambda \lambda$							Dense			some silt and clay	GW-GC		
40	\2\2\2	5	SS	9	25	71%	↓	Hard			, some fine to coarse	CL-ML		
10	W.V.V.			26	27		· ·			and sand			.	
		6	SS	28	50	75%	Gray	Very	Fine to	coarse	GRAVEL, some fine to	GW		
				-	-			Dense	coarse				.	
	55.5	7	SS	24	25	67%	Brown	Hard	SILT, s	ome F-C	gravel and sand	ML		
				36	42			Very	Fine to	coarse	GRAVEL, some sand	GW-GM		
15	• • • • • • •	8	SS	32	46	58%	Gray	Dense	and silt					
	• • • •	Ľ	00	40	31	0070								
	SLSSS	9	SS	31	32	71%		Hard	SILT ar	nd CLAY	, some fine to coarse	CL-ML		
	$\mathcal{L}(\mathcal{X})$	٦		30	36	7 1 70	\ \		sand					▼
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	10	SS	16	28	67%	Brown							Wet
20	% %	10	33	36	31	0770	1							
	563													
	X5/5/													
	< \ < \ \\							♦			▼	♦		
				9	21			Dense	Fine to	coarse	SAND	SW		
25	• • • • •	11	SS	20	25		\forall				some sand and silt	GW-GM	\forall	▼
										borehole				
						1				5. 511510	 -			
						†								
						1								
30						1								
30														
						-								
						-								
						-								
						4								
35						1								
Comme								ed with 4.25"	HSA wa	S		:		
	o environm										PROJECT NO.	111745		0000
							of water	table. One s	spoon		BORING NO.	DEC-26	5	
was colle	ected 5' be	low th	ne top of	the wa	ater ta	able.								

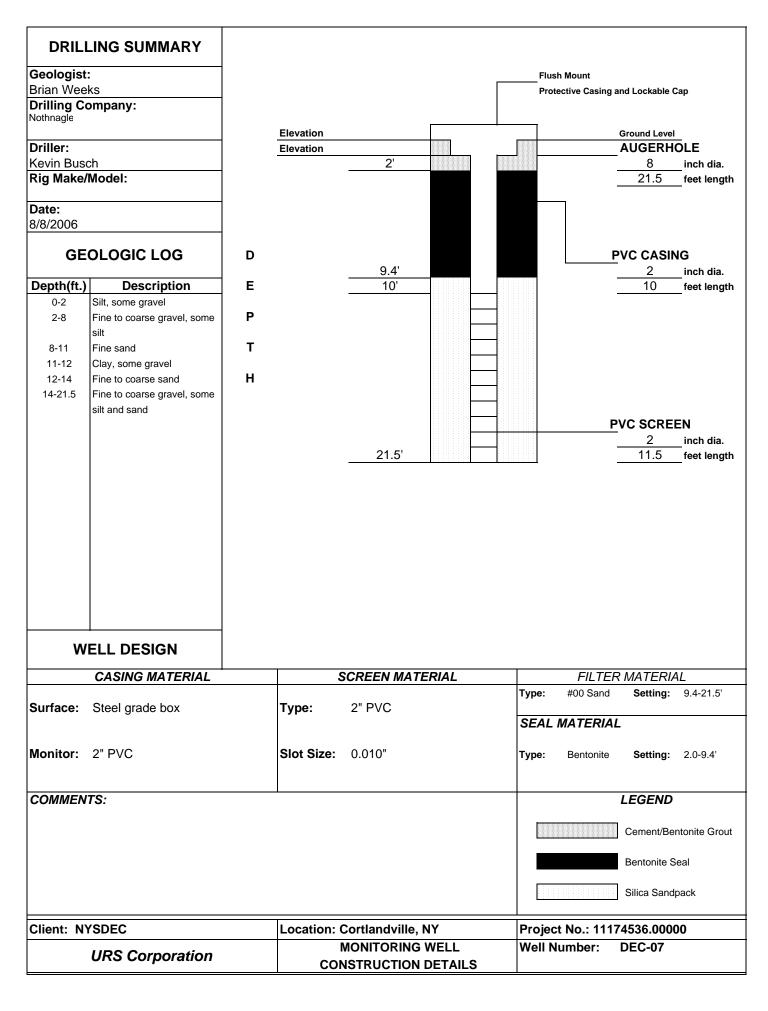
DORING NO. DEC.27				(URS	Co	rporat	tion				TEST BORIN	G LO	G	
OB NO. 11174586.00000 BORNO CONTROL SOUND ELEVATION: SOUND ELEVATION: OBTION CONTROL SOUND ELEVATION: OBTION CONTROL OBTION												BORING NO:	DEC-27	7	
BORNING CONTRACTOR:			SCM	l Cortlar	ndville	!							1		
GROUNDWATER:														11	174586.00000
DATE TIME LEVEL TYPE Spitispoon DATE STARTED: 0041706 0841706				R:	Nothr	nagle		r							
								CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION:			
Martin M	DATE	TIME	LE	EVEL	TY	PE	TYPE		Split spoon			DATE STARTED:	08/17	7/06	
SAMPLE POCKET PENETROMETER READING REVIEWED BY Time Burneler									2"			DATE FINISHED:	08/17	7/06	
SAMPLE S							WT.		140#			DRILLER:	Kevin E	Busch	
SAMPLE DESCRIPTION STATA No. TYPE PER 6* ROD% COLOR HARD DESCRIPTION USCS PID													-		
Depth Feet Strata No. Type BLOWS REC% ROD% COLOR HARD DESCRIPTION USC PID							* POC	KET PE	NETROMET				Tim Bu	rmeie	er
FEET STRATA No. Type PER 6" ROW COLOR HARD HARD DESCRIPTION USCS PID				SAME			1			DES					
1 SS 16 36 83% 45 32 22 80% 50 10 10 10 10 10 10 10															REMARKS
Note	FEET	STRATA	NO.	TYPE			ROD%						-		
		555	1	SS	_		83%	Brown					1	0.0 I	
S									Very			GRAVEL and SAND,	GW		Dry
S			2	SS		22	80%		Dense	trace s	ilt				
S	_														
Fine to coarse SAND, some gravel and sit	5	• • • • • • • • • • • • • • • • • • • •	3	SS			58%				_	L			
S S S S S S S S S S										 		<u> </u>	<u> </u>		
S S S S S S S S S S		7	4	SS	47	50	100%				coarse	SAND, some gravel and	SW-SM		
10		7575757575			-	-									
S	40	******	5	SS	25	50	67%					GRAVEL, some fine to	GW		
7 SS 46 24 50% Black 15	10				-	-		↓		coarse	sand	1			
Trace silt Trace		****	6	SS			46%		Dense						
15										_					\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
8 SS 15 22 67% Brown 20 End of borehole at 19' End of borehole at 19' Comments: A truck mounted BK-81 HD drill rig equipped with 4.25" HSA was used. No environmental samples were collected for laboratory analysis. Continuous split spoon samples collected down to top of water table. One spoon PROJECT NO. BORING NO. DEC-27		*****	7	SS			50%	Black		- Trace	SIIT				VVet
8 SS 15 22 67% Brown 20 20 25 25 27 25 27 27 28 End of borehole at 19' End of borehole at 1	45				22	26									
20 20 20 20 25 26 27 27 28 End of borehole at 19' End	15	******													
20 20 20 20 25 26 27 27 28 End of borehole at 19' End								↓							
20 20 20 20 25 26 27 27 28 End of borehole at 19' End		*****			45	22		Drawa	1						
End of borehole at 19' End of		**************************************	8	SS	_		67%	Brown				₩	$ \ lack$	\downarrow	
25 30 30 35 Comments: A truck mounted BK-81 HD drill rig equipped with 4.25° HSA was used. No environmental samples were collected for laboratory analysis. PROJECT NO. BORING NO. DEC-27	20				21	23				End of	horobole	a at 10'		•	•
30 30 35 Comments: A truck mounted BK-81 HD drill rig equipped with 4.25" HSA was used. No environmental samples were collected for laboratory analysis. Continuous split spoon samples collected down to top of water table. One spoon PROJECT NO. BORING NO. DEC-27										Liid Oi	DOTCTION	o at 15			
30 30 35 Comments: A truck mounted BK-81 HD drill rig equipped with 4.25" HSA was used. No environmental samples were collected for laboratory analysis. Continuous split spoon samples collected down to top of water table. One spoon PROJECT NO. BORING NO. DEC-27															
30 30 35 Comments: A truck mounted BK-81 HD drill rig equipped with 4.25" HSA was used. No environmental samples were collected for laboratory analysis. Continuous split spoon samples collected down to top of water table. One spoon PROJECT NO. BORING NO. DEC-27															
30 30 35 Comments: A truck mounted BK-81 HD drill rig equipped with 4.25" HSA was used. No environmental samples were collected for laboratory analysis. Continuous split spoon samples collected down to top of water table. One spoon PROJECT NO. BORING NO. DEC-27															
30 30 35 Comments: A truck mounted BK-81 HD drill rig equipped with 4.25" HSA was used. No environmental samples were collected for laboratory analysis. Continuous split spoon samples collected down to top of water table. One spoon PROJECT NO. BORING NO. DEC-27	25														
Comments: A truck mounted BK-81 HD drill rig equipped with 4.25" HSA was used. No environmental samples were collected for laboratory analysis. Continuous split spoon samples collected down to top of water table. One spoon PROJECT NO. BORING NO. DEC-27	20														
Comments: A truck mounted BK-81 HD drill rig equipped with 4.25" HSA was used. No environmental samples were collected for laboratory analysis. Continuous split spoon samples collected down to top of water table. One spoon PROJECT NO. BORING NO. DEC-27															
Comments: A truck mounted BK-81 HD drill rig equipped with 4.25" HSA was used. No environmental samples were collected for laboratory analysis. Continuous split spoon samples collected down to top of water table. One spoon PROJECT NO. BORING NO. DEC-27															
Comments: A truck mounted BK-81 HD drill rig equipped with 4.25" HSA was used. No environmental samples were collected for laboratory analysis. Continuous split spoon samples collected down to top of water table. One spoon PROJECT NO. BORING NO. DEC-27							:								
Comments: A truck mounted BK-81 HD drill rig equipped with 4.25" HSA was used. No environmental samples were collected for laboratory analysis. Continuous split spoon samples collected down to top of water table. One spoon PROJECT NO. BORING NO. DEC-27	30						:								
Comments: A truck mounted BK-81 HD drill rig equipped with 4.25" HSA was used. No environmental samples were collected for laboratory analysis. Continuous split spoon samples collected down to top of water table. One spoon PROJECT NO. 11174586.00000 BORING NO. DEC-27															
Comments: A truck mounted BK-81 HD drill rig equipped with 4.25" HSA was used. No environmental samples were collected for laboratory analysis. Continuous split spoon samples collected down to top of water table. One spoon PROJECT NO. 11174586.00000 BORING NO. DEC-27															
Comments: A truck mounted BK-81 HD drill rig equipped with 4.25" HSA was used. No environmental samples were collected for laboratory analysis. Continuous split spoon samples collected down to top of water table. One spoon PROJECT NO. 11174586.00000 BORING NO. DEC-27															
Comments: A truck mounted BK-81 HD drill rig equipped with 4.25" HSA was used. No environmental samples were collected for laboratory analysis. Continuous split spoon samples collected down to top of water table. One spoon PROJECT NO. 11174586.00000 BORING NO. DEC-27															
Comments: A truck mounted BK-81 HD drill rig equipped with 4.25" HSA was used. No environmental samples were collected for laboratory analysis. Continuous split spoon samples collected down to top of water table. One spoon PROJECT NO. 11174586.00000 BORING NO. DEC-27	35														
used. No environmental samples were collected for laboratory analysis. Continuous split spoon samples collected down to top of water table. One spoon PROJECT NO. 11174586.00000 BORING NO. DEC-27							1								
used. No environmental samples were collected for laboratory analysis. Continuous split spoon samples collected down to top of water table. One spoon PROJECT NO. 11174586.00000 BORING NO. DEC-27	Comme	nts:	A tru	ck mour	nted Bk	<-81 F	ID drill ric	equippe	d with 4.25"	HSA wa	ıs				
Continuous split spoon samples collected down to top of water table. One spoon BORING NO. DEC-27												PROJECT NO.	111745	86.00	0000
										spoon			-		

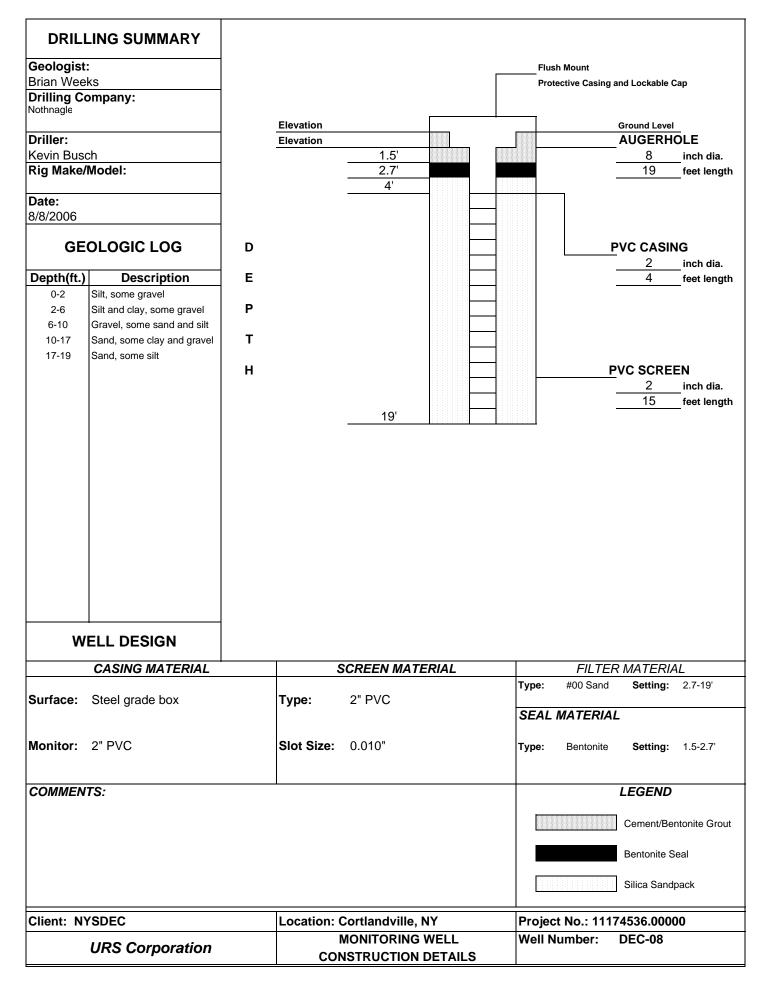
				URS	Co	rporat	ion					_	TEST BORING				
												+		DEC-2	3		
PROJE			l Cortlar	ndville	<u> </u>								EET:	1			
CLIENT			DEC									_	B NO.:		1	1174586.000	000
	CONTRA		K:	Noth	nagie			1					RING LOCATION:				
	DWATER:						CAS	_		CORE	IUBE	1	OUND ELEVATION:				
DATE	TIME	LI	EVEL	TY	PE	TYPE			Split spoon				TE STARTED:	08/17			
						DIA.		-	2"			_	TE FINISHED:	08/17			
						WT.			140#			_	ILLER:	Kevin E			
						FALL			30"				OLOGIST:	Brian V			
						* POC	KEIP	ΈN	ETROMET			•	VIEWED BY:	Tim Bu	rmei	ier	
			SAMF			T		1		DES	CRIPTIC			1			
DEPTH				BLC		REC%			CONSIST				ERIAL			REMAI	RKS
FEET	STRATA	NO.	TYPE	PE		ROD%		_	HARD				RIPTION	USCS		_	
	אבר ל	1	SS	8	25	67%	Brow	n	Hard				coarse sand	ML	0.0		Noist
				19	12				Dense			GRA	AVEL some sand	GW-GM			Dry
	27.00.00	2	SS	12	22	33%				and silt							\perp
	9 7 • •			18	7			-									<u> </u>
5	• • •	3	SS	5	3	42%			Medium	- Some	silt and	clay	/ ⊥	GW-GC		N	Noist
	• • • • • • •			8	11				Dense				V				
		4	SS	11	9	29%				Fine to	coarse	SAN	ID, some silt and	SW-SC			\perp
	7 \			7	11					clay, tra	ace grav	el ု					<u> </u>
		5	SS	2	2	25%			Loose							'	Vet I
10	\ \$			5	5												
	ラ \																
	λ_{λ}	6	SS	46	33	63%			Very Dense			▼		▼			1
15	2/2/	U	33	29	28	0376	▼		Hard	SILT a	nd CLAY	/, soı	me sand and gravel	CL-ML	▼		V
										End of	borehole	e at 1	15'				
20																	
]											
25																	
]											
						1											
						1											
						1											
30																	
						1											
						1											
35						1											
						1											
Comme	nts:	A tru	ıck mour	nted R	√- 81 F	HD drill ric	eguinr	ped	with 4.25"	HSA wa	s			1			
	lo environn											1	PROJECT NO.	111745	88 (00000	
								_	able. One s	spoon		1	•	DEC-2			
	ected 5' be						J. 11 all	J. 0		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1		2-0 2	-		
						-											

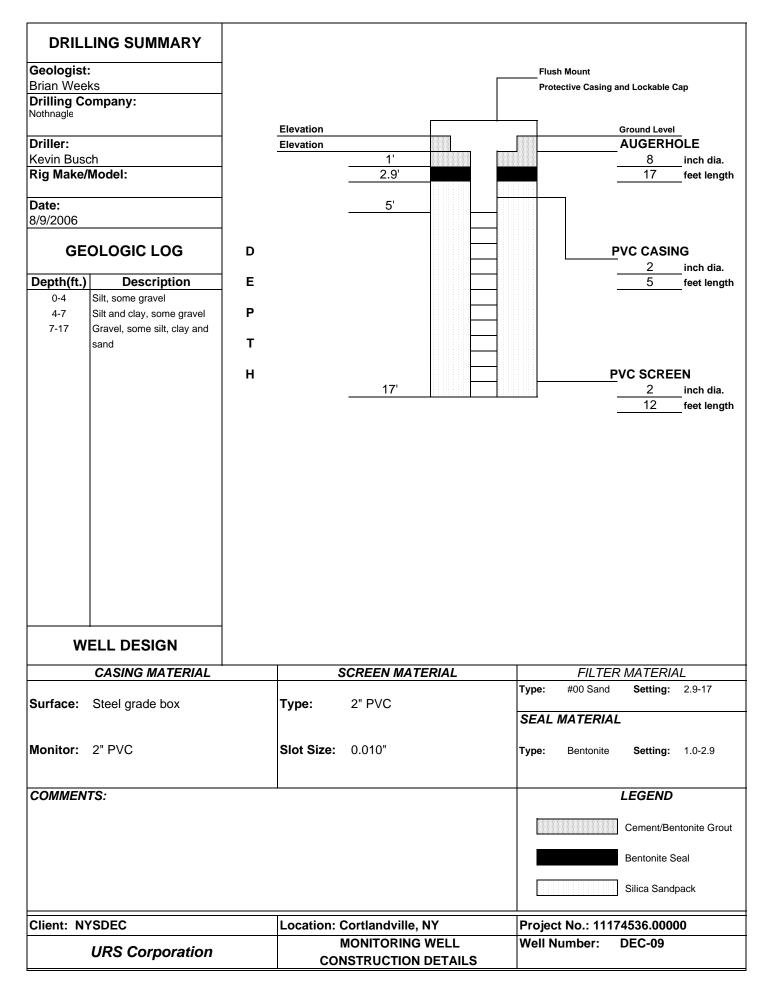
				URS	Со	rporat	tion				TEST BORIN			
											BORING NO:	DEC-29	9	
PROJE			l Cortlar	ndville	!						SHEET:	1		
CLIENT			DEC								JOB NO.:		11	174586.00000
	CONTRA		R:	Nothr	nagle			<u> </u>			BORING LOCATION:			
	DWATER:			1		ı	CAS.			TUBE	GROUND ELEVATION			
DATE	TIME	Li	EVEL	TY	PE	TYPE		Split spoon			DATE STARTED:	08/17		
						DIA.		2"			DATE FINISHED:	08/17		
						WT.		140#			DRILLER:	Kevin E		
						FALL		30"			GEOLOGIST:	Brian V		
						* POC	KET PEI	NETROMET			REVIEWED BY:	Tim Bu	rmeie	r
		1	SAME			1		1	DES	CRIPTIC		1		
DEPTH				BLC		REC%		CONSIST			MATERIAL			REMARKS
FEET	STRATA	NO.	TYPE	PEF	₹ 6"	ROD%	COLOR				SCRIPTION	USCS		
	5.55	1	SS	2	14	42%	Brown	Very Stiff	SILT, s	ome fine	e to coarse gravel	ML	0.0	Moist
	••• <u>•••••</u>			13	13			Medium	Fine to	coarse	GRAVEL some sand	GW-GM		
	• •/• •	2	SS	10	8	33%	▼	Dense	and silt					
	• •			10	36		Gray		Fine to	coarse	SAND, some gravel	SW		
5		3	SS	50/4	-	8%		Very						
	•			-	-		▼	Dense						
	5,5,5	4	SS	2	8	50%	Brown	Very Stiff	SILT, ti	ace gra	vel	ML		↓
	77			9	7				 					V
	5>\$>	5	SS	4	7	29%		Stiff	SILT a	nd CLAY	, some sand, trace	CL-ML		Wet
10	/ <i>S</i> /S//			5	4				gravel					
	SSSS													
	\\	l												
	5\5\5							▼				•		
		6	SS	7	11	29%		Medium	Fine to	coarse	SAND, some gravel,	SW		l L
15	•	Ŭ	00	13	42	2370	▼	Dense	trace s	lt			•	V
									End of	borehole	e at 15'			
20														
]								
						1								
25]								
						1								
]								
30														
]								
]								
35]								
						<u> </u>								
Comme	nts:	A tru	ck mour	nted Bł	<-81 F	ID drill rig	equippe	d with 4.25"	HSA wa	ıs				
used. N	o environn	nental	l sample	s were	colle	cted for la	aboratory	analysis.			PROJECT NO.	111745	86.00	000
							of water	table. One	spoon		BORING NO.	DEC-29	9	
was coll	ected 5' be	low th	ne top of	the wa	ater ta	able.								

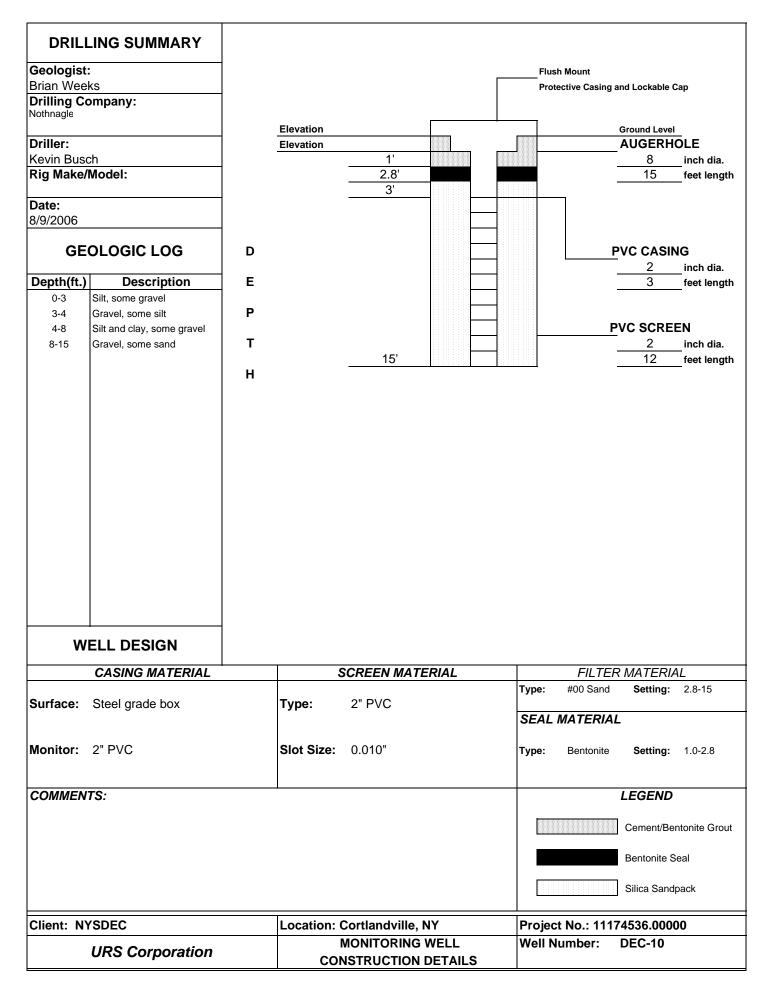
			ι	JRS	Col	rporat	ion				TEST BORIN	G LO	G	
											BORING NO:	DEC-30)	
PROJEC	CT:	SCM	Cortlan	dville							SHEET:	1		
CLIENT		NYS									JOB NO.:		111	174586.00000
	CONTRA	СТО	R:	Nothr	nagle						BORING LOCATION:			
GROUN	DWATER:		1				CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION:	<u> </u>		
DATE	TIME	LE	VEL	TY	PE	TYPE		Split spoon			DATE STARTED:	08/18	3/06	
						DIA.		2"			DATE FINISHED:	08/18	3/06	
						WT.		140#			DRILLER:	Kevin E	Busch	
						FALL		30"			GEOLOGIST:	Brian V		
						* POC	KET PEN	NETROMETI			REVIEWED BY:	Tim Bu	rmeier	-
			SAMP						DES	CRIPTIO				
DEPTH				BLC		REC%		CONSIST			MATERIAL			REMARKS
FEET	STRATA	NO.	TYPE	PEF		ROD%	COLOR	HARD			SCRIPTION	USCS		
	525	1	SS	2	5	46%	Brown	Stiff	SILT, s	ome fine	to coarse gravel	ML	0.0	Moist
	7•7			6	6									
	<u> </u>	2	SS	7	14	42%					GRAVEL, some sand	GW-GM		Dry
	• • • • • • • • • • • • • • • • • • • •			10	6			Dense	and silt		1			
5	27//2//	3	SS	4	4	29%		Loose	- trace	sand				
				3	5									
	2000000	4	ss	5	10	42%		Medium						
	*********			10	7			Dense						
- 10	2.4.4.4	5	SS	4	8	33%								Wet I
10	*******			8	12									

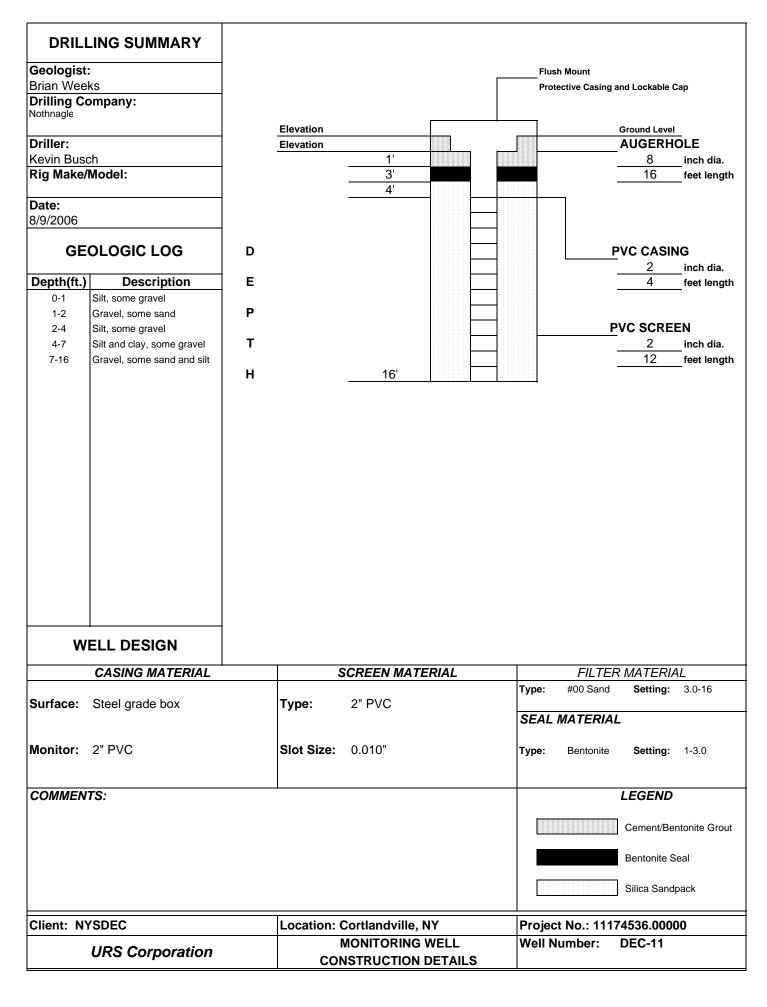
	State Albert							_						
45	*******	6	SS	8	12	42%	↓	Dense	-some	sand	\downarrow	↓	\downarrow	
15				21	25				Cod of	امطمعمط	• • • • • • • • • • • • • • • • • • •	•	_	•
									End of	borehole	alio			
20														
20														
			ŀ											
			ŀ											
25														
			ŀ											
			ŀ											
30														
			•											
35														
Comme	nts:	A tru	ck moun	ted Bh	<-81 ⊢	ID drill rig	equipped	d with 4.25" I	ISA wa	ıs				
used. N	o environm										PROJECT NO.	111745	86.00	000
							•	table. One s	poon		BORING NO.	DEC-30)	
was colle	ected 5' bel	ow th	ne top of	the wa	ater ta	ble.						_		

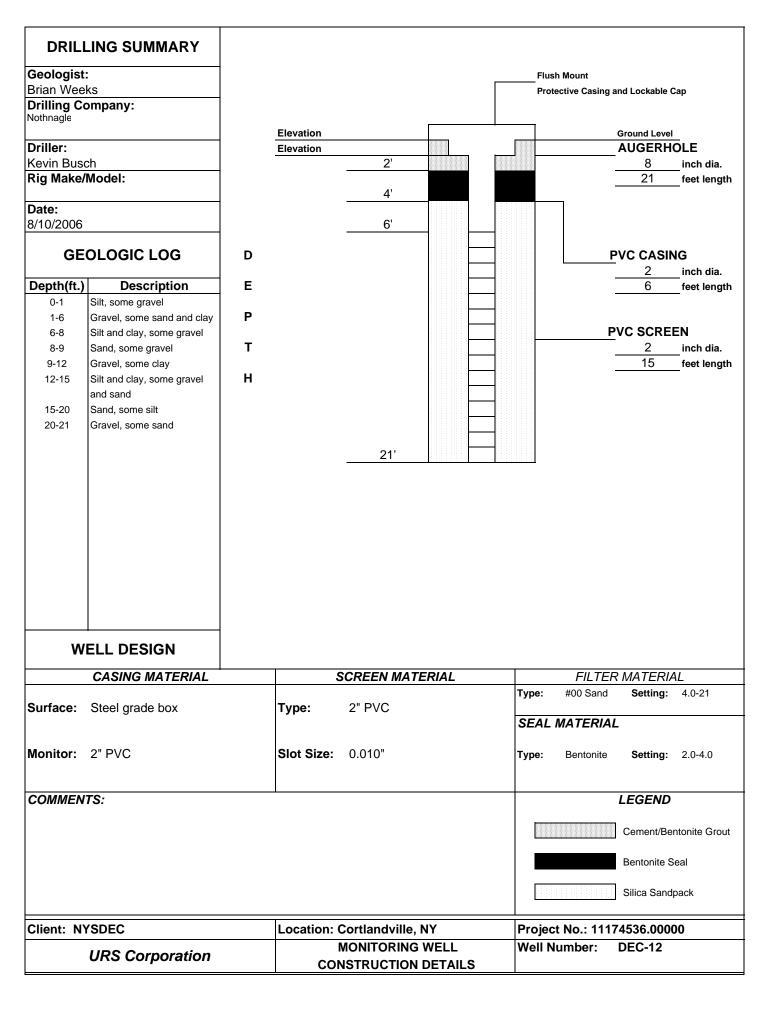


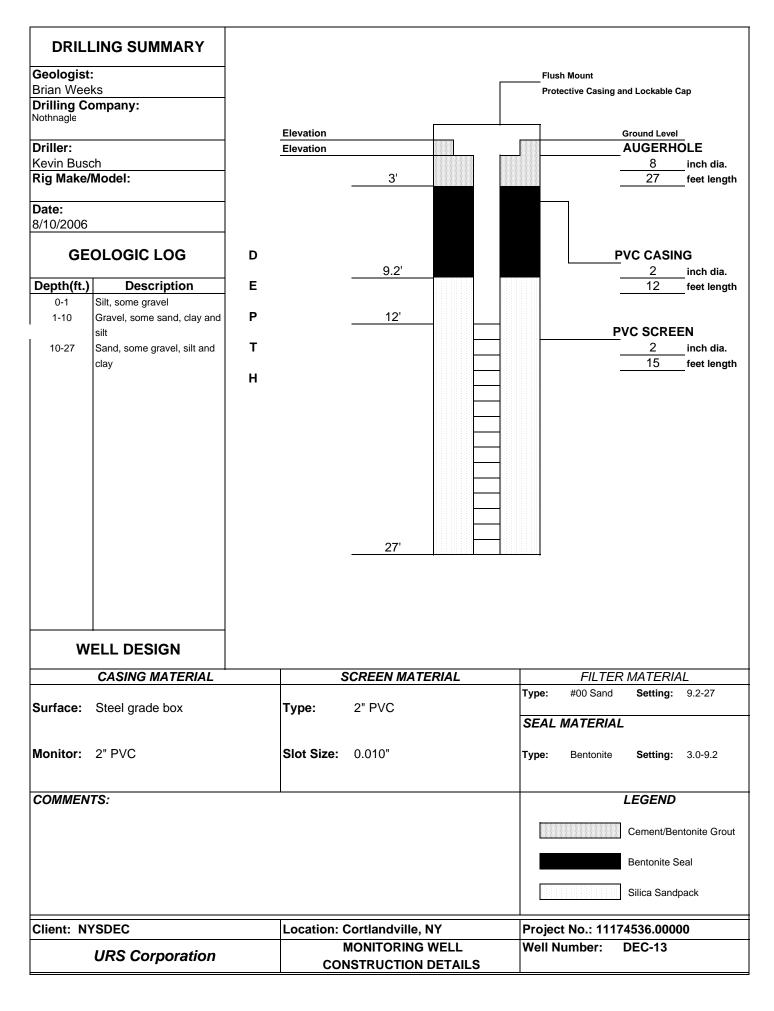


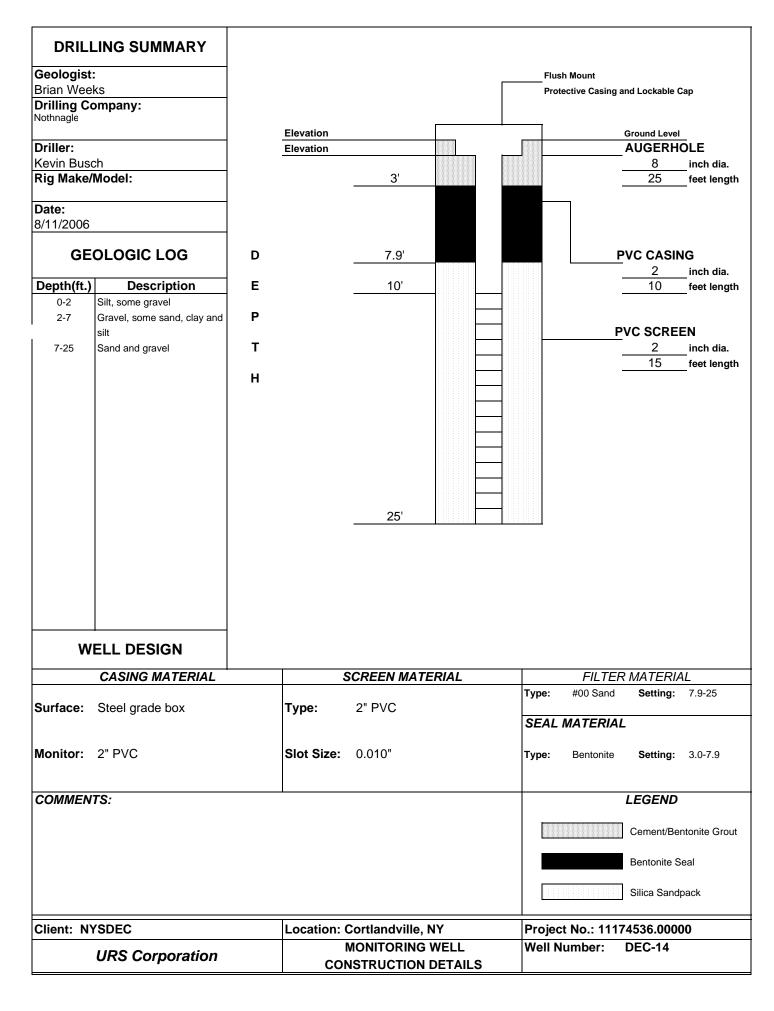


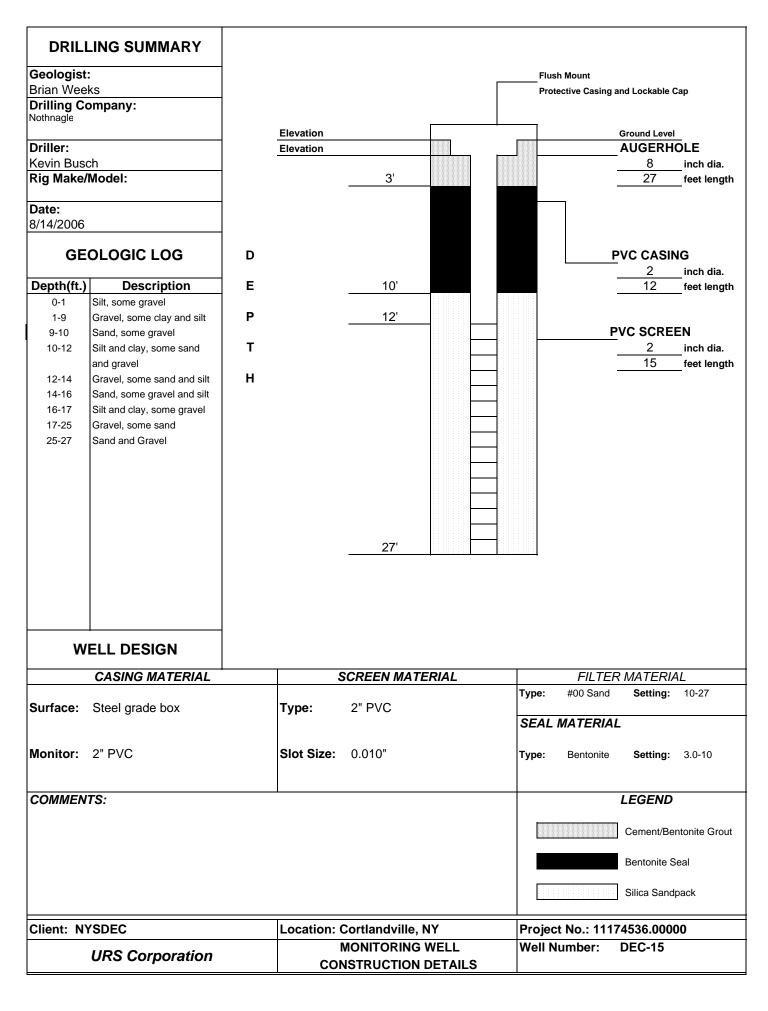


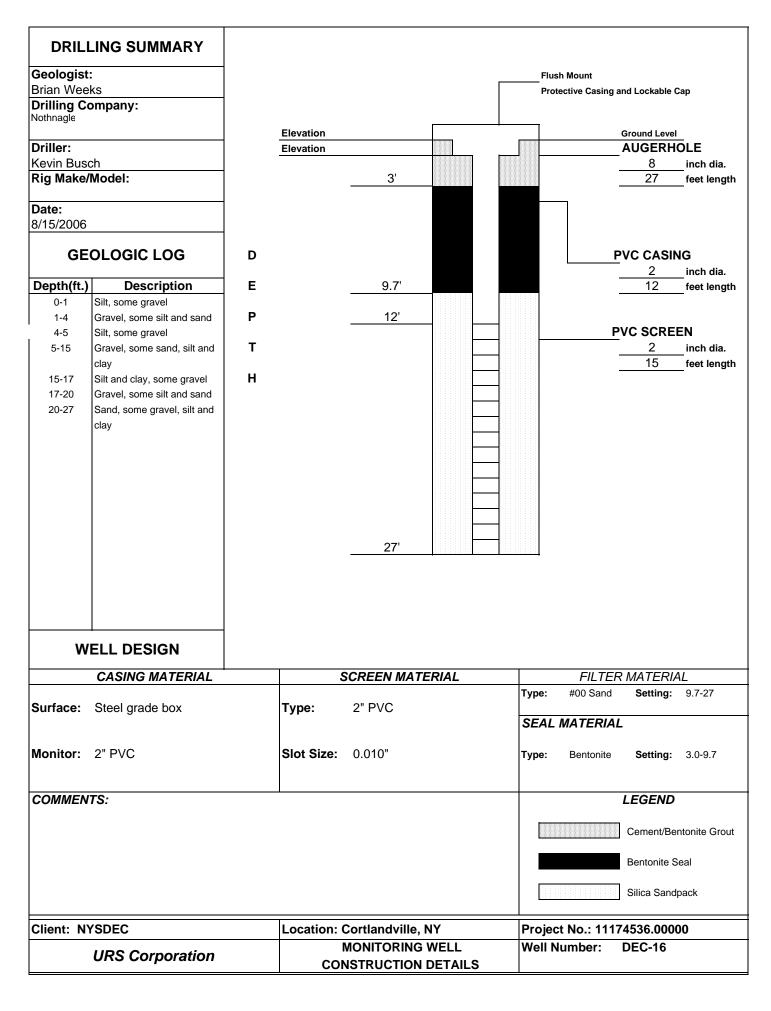


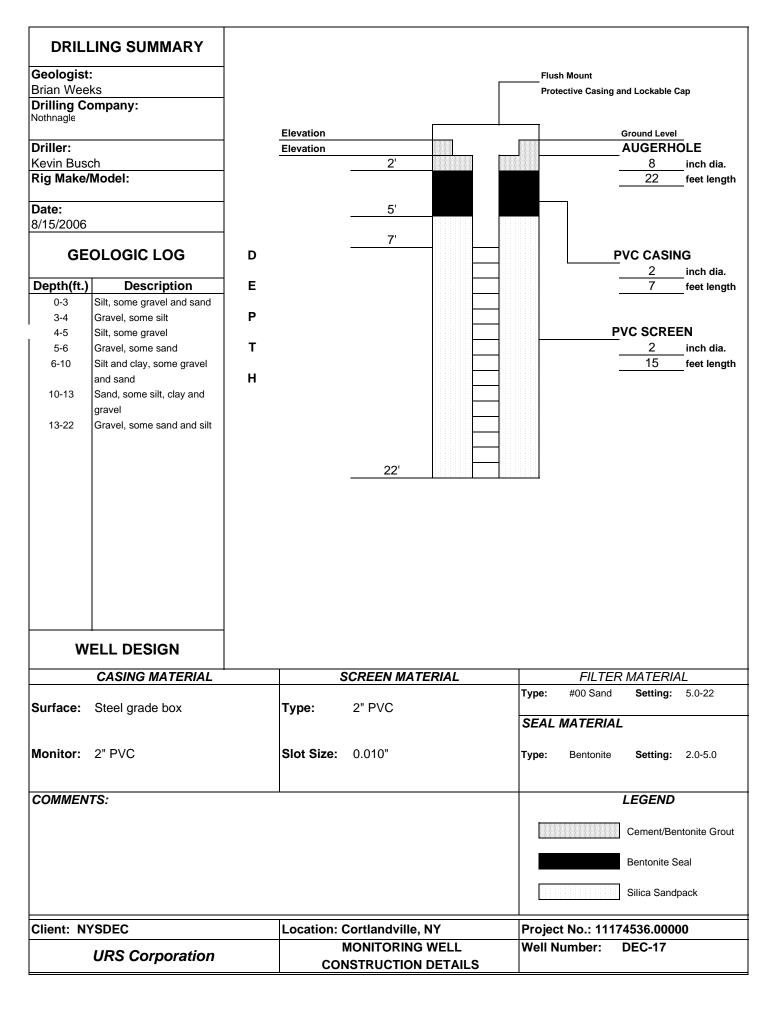


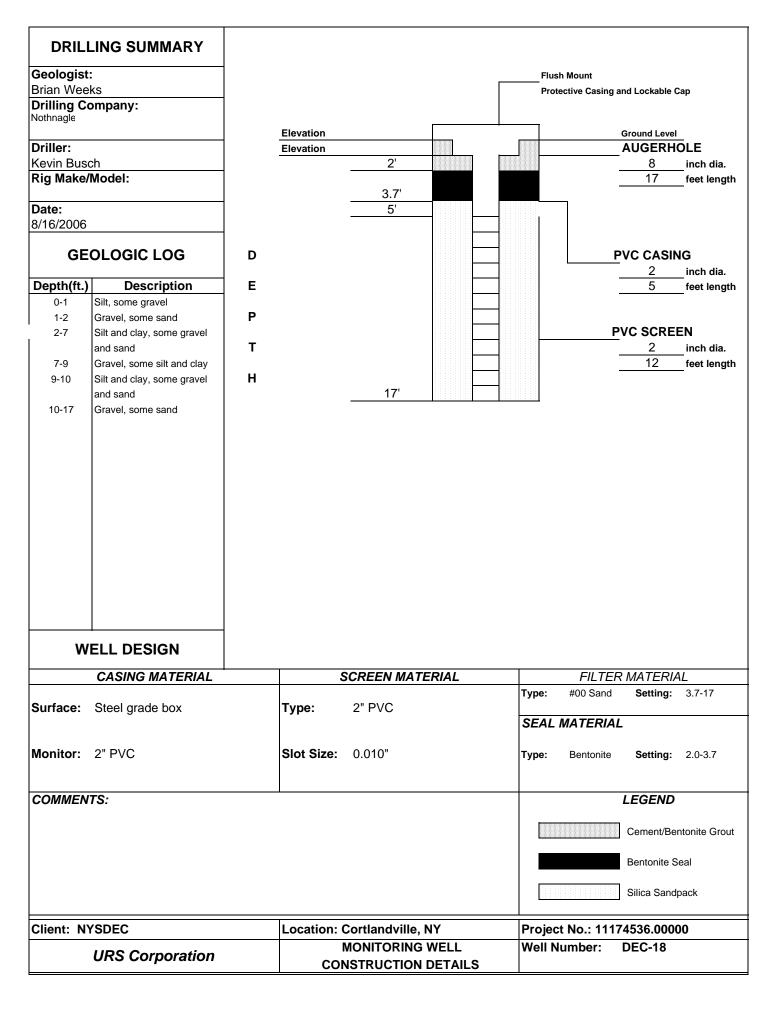


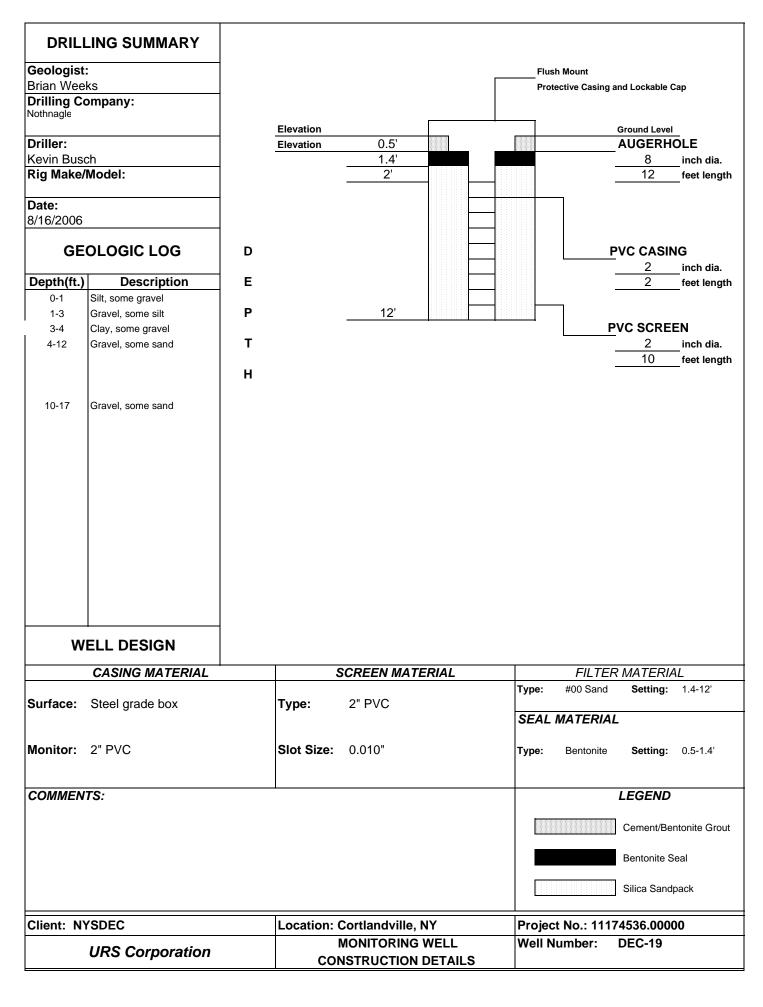


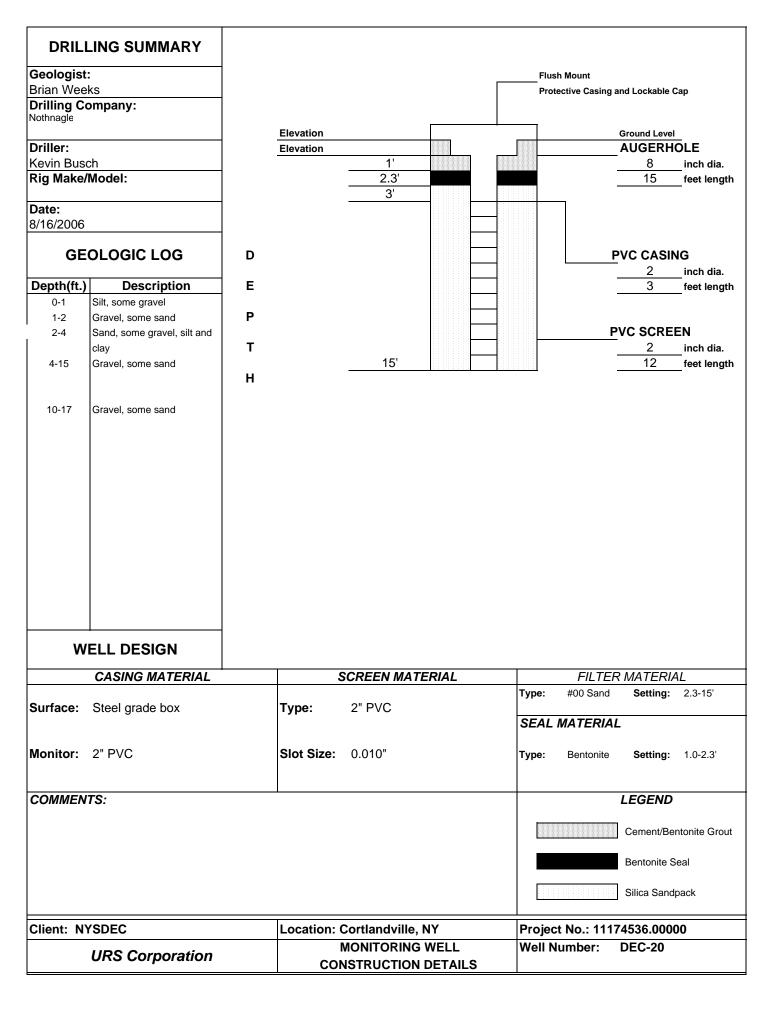


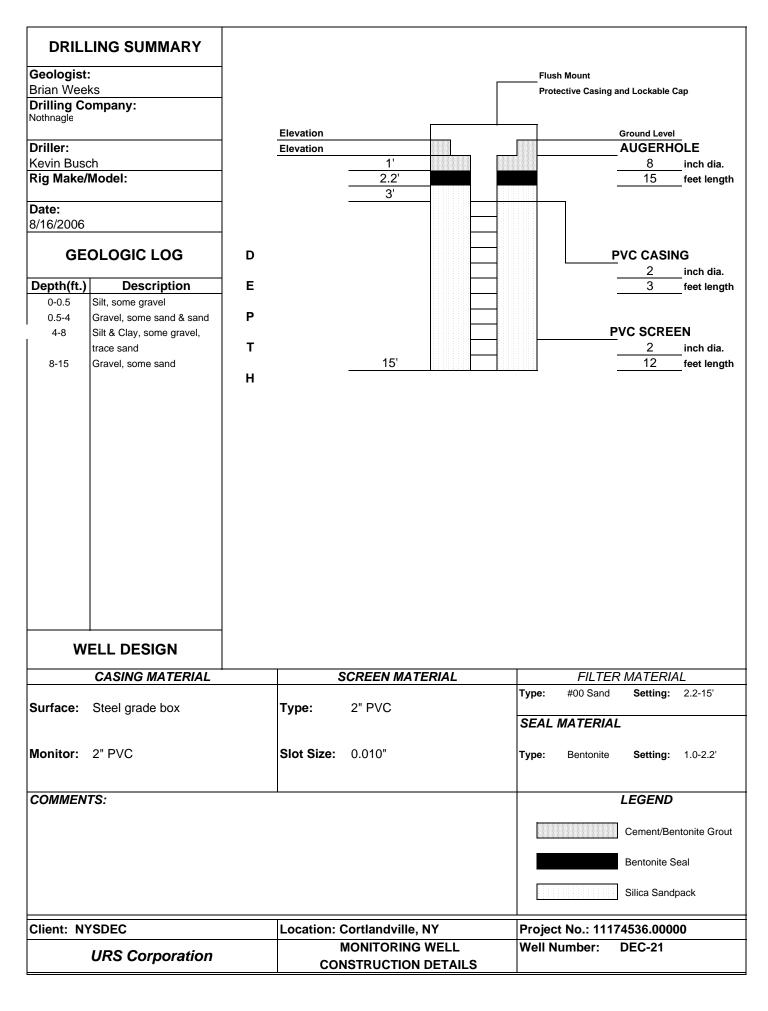


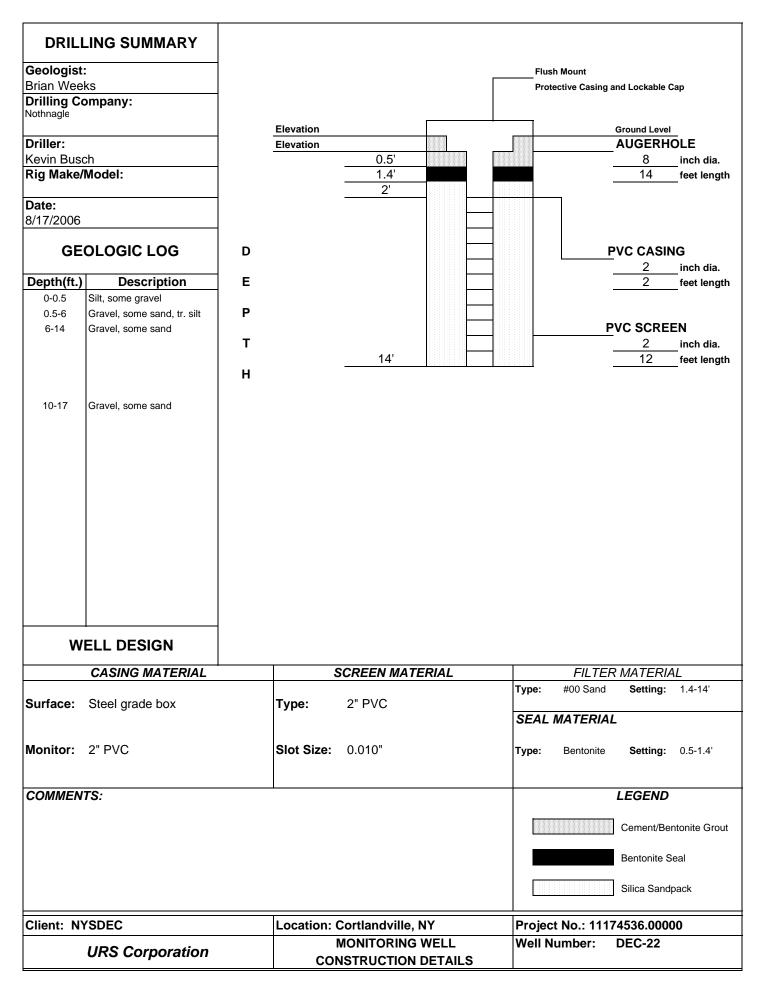


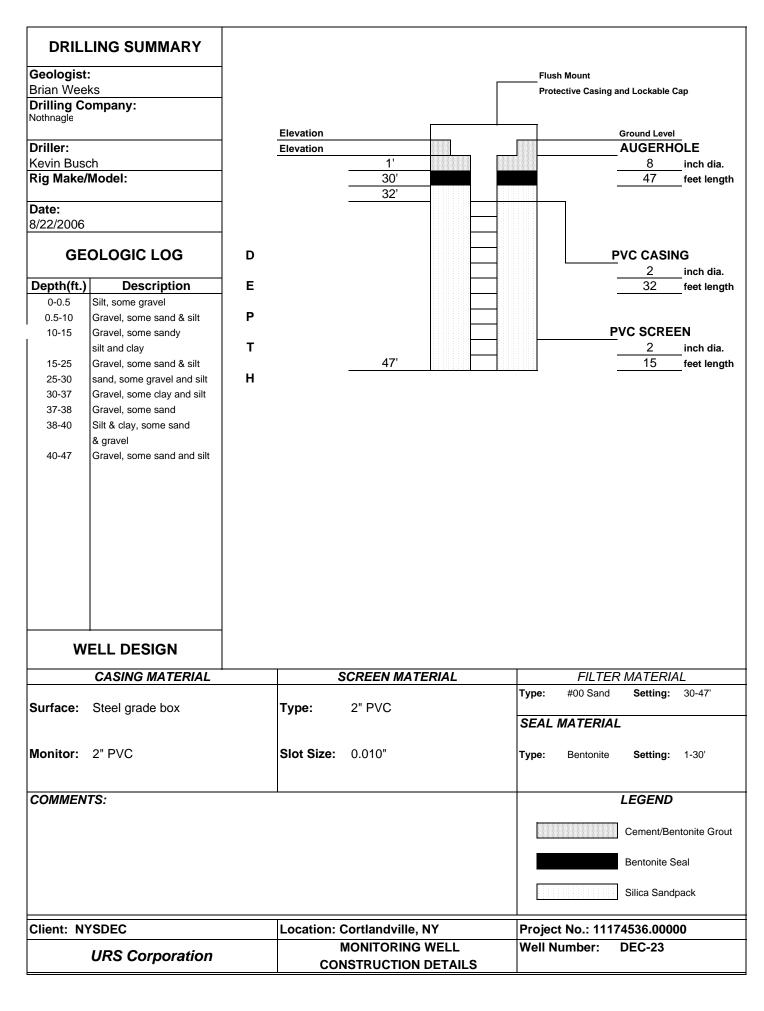


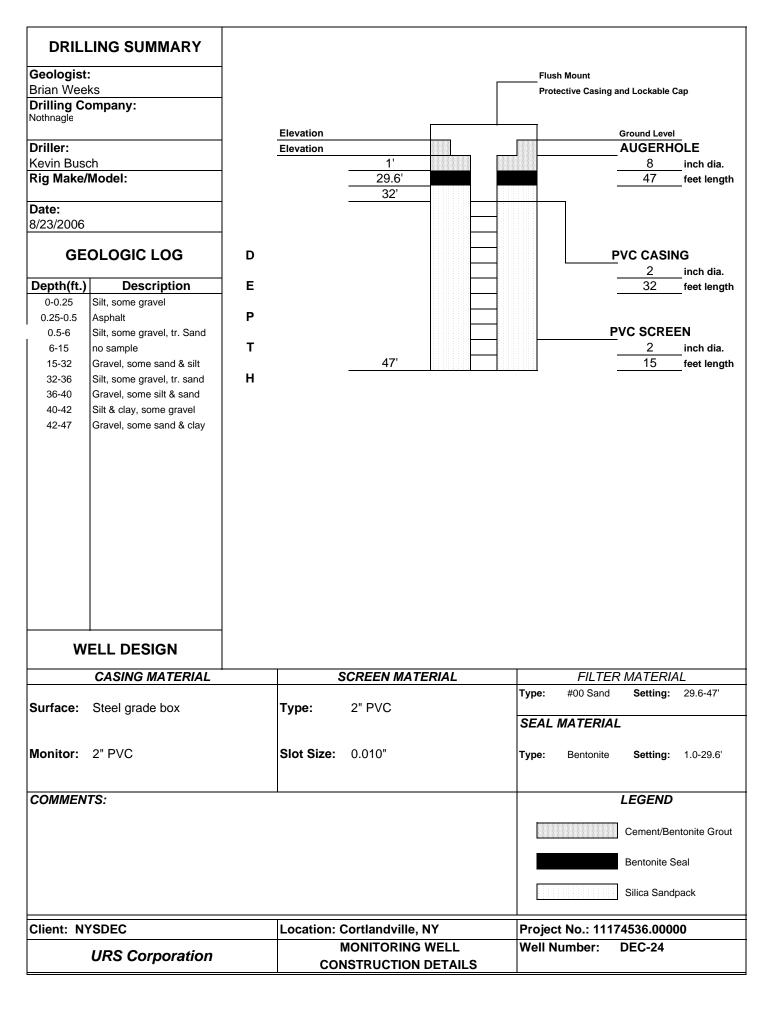


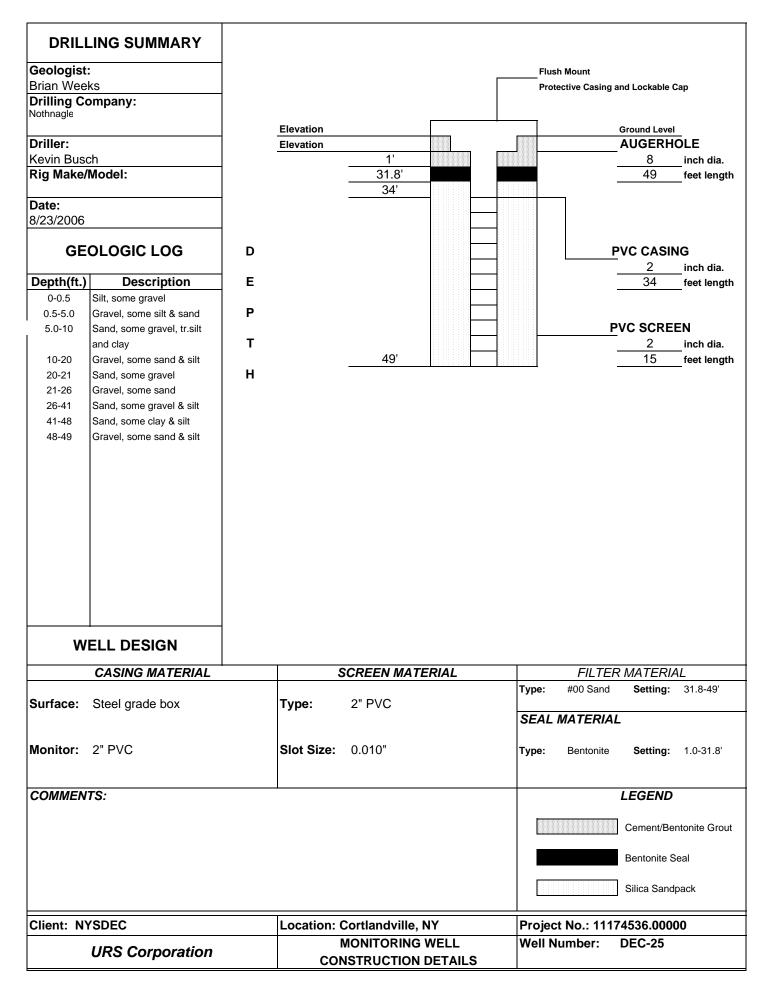


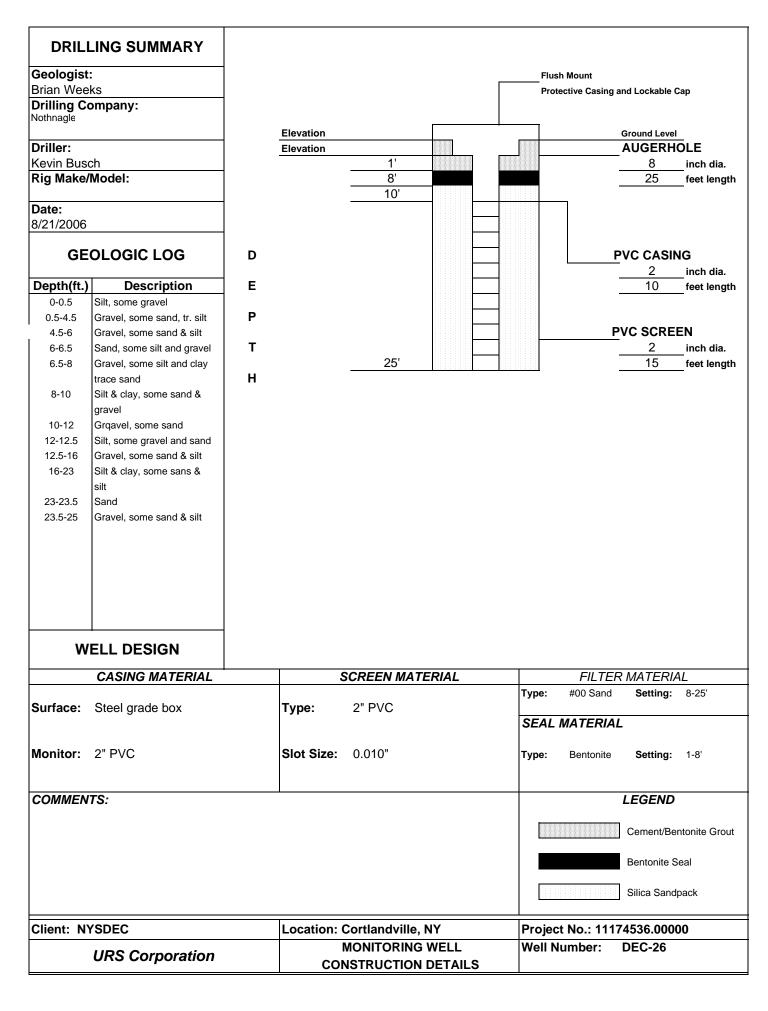


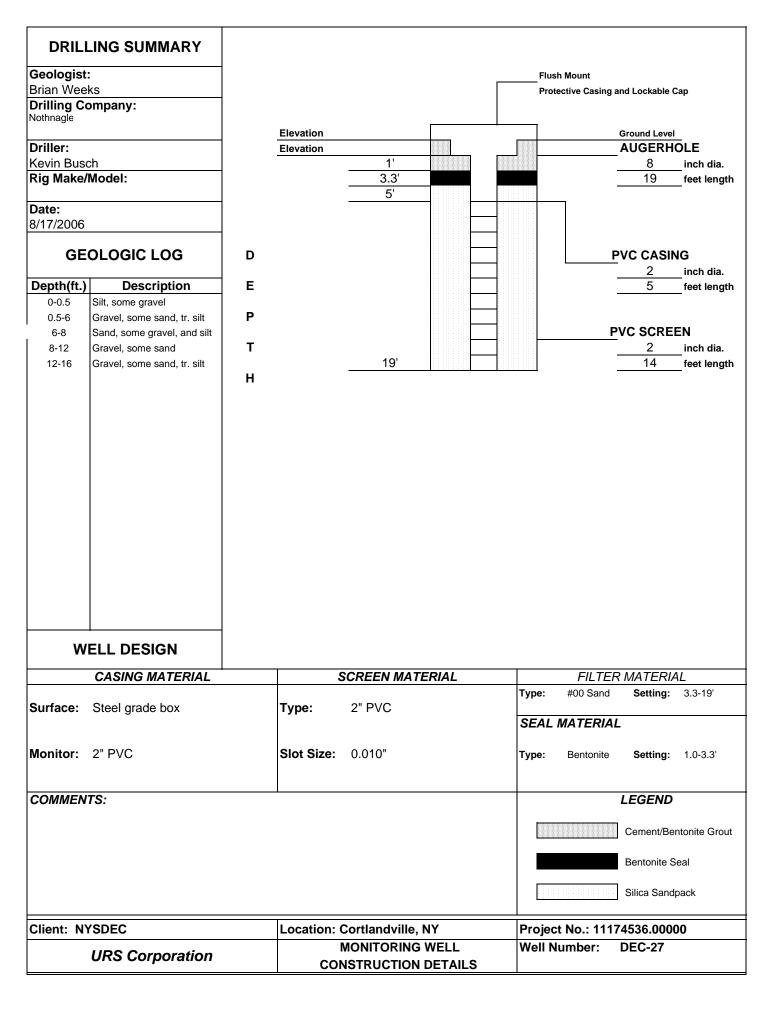


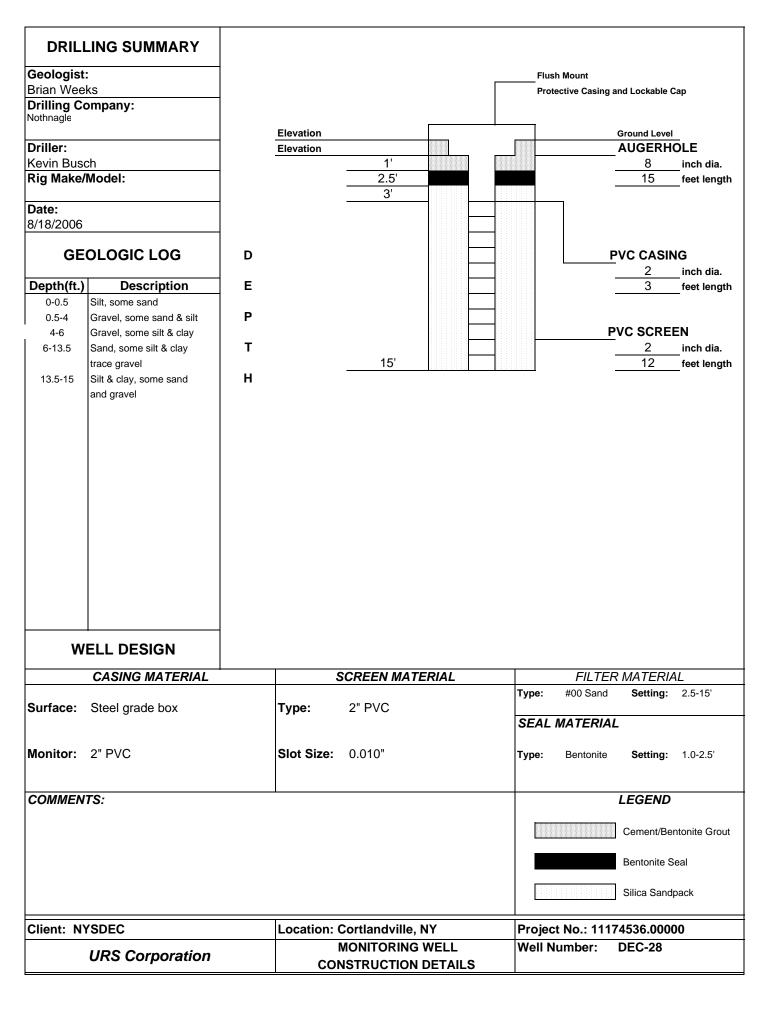


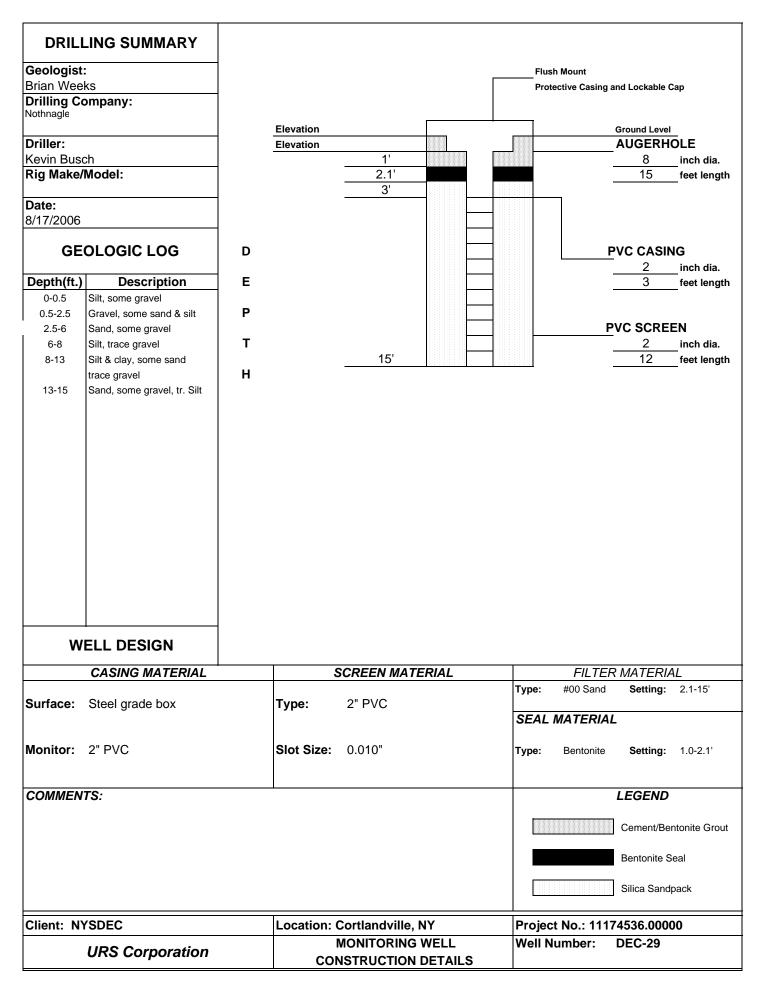


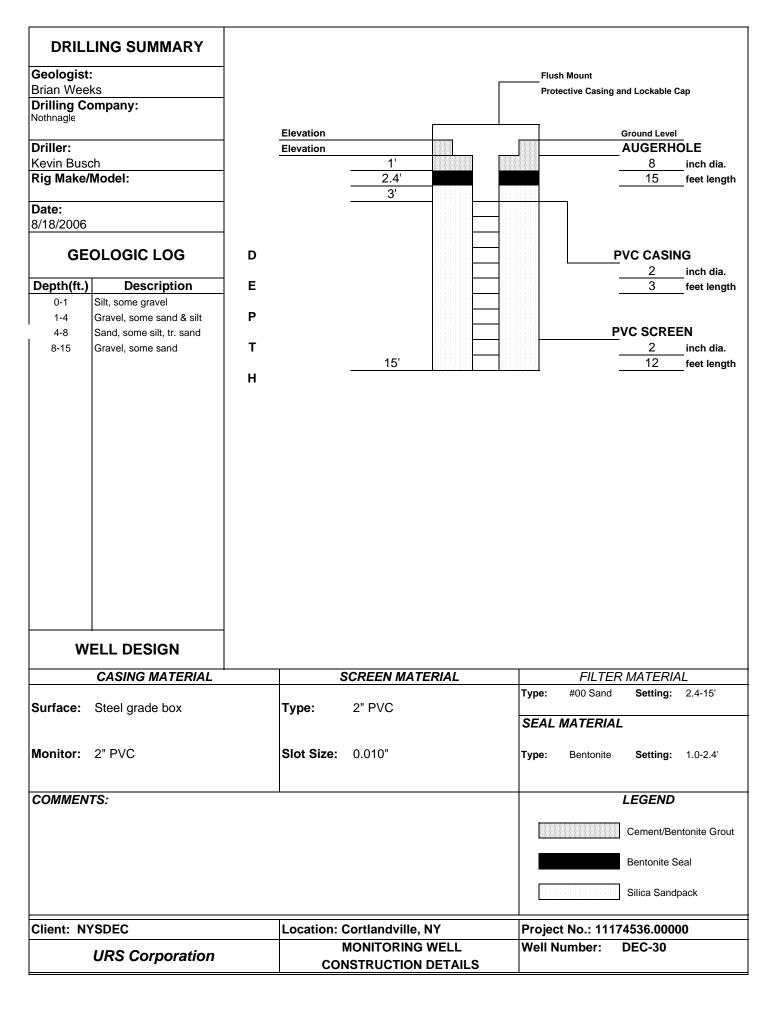












APPENDIX B MONITORING WELL DEVELOPMENT LOGS

PROJECT TITLE:	SCM Co	rtlandville					WELL NO).: DEC-0	- <u>-</u> :1S		
PROJECT NO.: 111745							•	9:39			
STAFF: Andy Brayman							Stop:	11:25			
DATE(S): 8/24/2006	3						отор.	11.20			
<i>S</i> /11/2000											
								WF	ELLID. V	OL. (GAL/I	 FT)
1. TOTAL CASING AND SO	CREEN LEI	NGTH (FT.)		=	12	.78		1"	0.04	.,
2. WATER LEVEL BELOW	TOP OF C	ASING (FT	T.)		=	6.	38	•	2"	0.17	
3. NUMBER OF FEET STA	NDING WA	TER (#1 -	#2)		=	6.	40		3"	0.38	
4. VOLUME OF WATER/FO	OOT OF CA	SING (GA	L.)		=	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	O REMOVE	(GAL.)(#5	x _5_)		=	5.	44		6"	1.50	
7. VOLUME OF WATER AC	CTUALLY F	REMOVED	(GAL.)		=	7	'6		8"	2.60	
								V=0.04		OR ING DIAM	ETER)2
				ACCLIMI	II ATED V	OLUME P	URGED (C	SALLONS)			
PARAMETERS	0	10	20	30	40	50	60	70	75		
pH	7.81	7.50	7.45	7.44	7.44	7.41	7.93	7.54	7.51		
Pil	7.01	7.00	7.10	7			7.00	7.01	7.01		
SPEC. COND. (umhos)	573	565	564	563	564	564	563	561	562		
TURBIDITY (NTU)	>1000	>1000	>1000	>1000	>1000	>1000	562	73	47.4		
TEMPERATURE (°C)	16.4	16.3	16.4	16.3	16.3	16.3	16.1	16.6	16.4		
ORP (mV)	115	113	110	99	98	109	124	127	131		
TIME	9:39	9:46	9:51	9:58	10:05	10:12	11:16	11:22	11:24		
COMMENTS: Well De	veloped w	ith subme	rsible pun	np using o	dedicated	/disposab	le HDPE	tubing.			

PROJECT TITLE:	SCM Co	rtlandville					WELL NO	.: <u>DEC-02</u> D)		
PROJECT NO.: 111745	86.00000						Start:	12:25			
STAFF: Andy Brayman							Stop:	14:28			
DATE(S): 8/24/06											
. ===::										OL. (GAL/F	-T)
1. TOTAL CASING AND SC		,	,		=		.66	1"		0.04	
2. WATER LEVEL BELOW					=	30	.79	2"		0.17	
3. NUMBER OF FEET STAN	NDING WA	TER (#1 -	#2)		=	12	.87	3"		0.38	
4. VOLUME OF WATER/FO	OT OF CA	SING (GA	.L.)		=	0.	17	4"		0.66	
5. VOLUME OF WATER IN	CASING (GAL.)(#3 x	#4)		=	2.	19	5"		1.04	
6. VOLUME OF WATER TO	REMOVE	(GAL.)(#5	5 x _5_)		=	10	.94	6"		1.50	
7. VOLUME OF WATER AC	TUALLY F	REMOVED	(GAL.)		=	6	61	8"		2.60	
								V=0.0408		OR ING DIAM	ETER)²
		ı	ı	ACCUM	JLATED V	OLUME P	URGED (G	ALLONS)			1
PARAMETERS	0	10	20	30	40	50	60				
рН	7.94	7.92	7.79	7.78	7.81	7.75	7.92				
SPEC. COND. (umhos)	608	644	655	638	638	646	649				
TURBIDITY (NTU)	>1000	>1000	>1000	213	570	591	17				
TEMPERATURE (°C)	12.9	13.4	12.5	14.1	13.6	13.7	12.1				
ORP (mV)	177	122	109	111	116	118	129				
TIME	12:25	12:38	12:50	13:07	13:22	13:37	14:28				
	eloped w			•	•	•	le HDPE t	ubing.			

URS Corporation

PROJECT TITLE:	SCM Co	rtlandville				WELL NO.:	DEC-07		
PROJECT NO.: 111745						Start:	15:51		
STAFF: Andy Brayman						Stop:			
DATE(S): 8/15/06,	8/16/06 8	3/21/06				3.15			
27.1.2(0):	o, . o, o o, c	,,_,,,							
							WELLID	VOL. (GAL/F1	Γ)
1. TOTAL CASING AND SC	REEN LEI	NGTH (FT.)		=	20.50	1"	0.04	,
2. WATER LEVEL BELOW	TOP OF C	ASING (FT	T.)		=	15.59	2"	0.17	
3. NUMBER OF FEET STAN	NDING WA	TER (#1 -	#2)		=	4.91	3"	0.38	
4. VOLUME OF WATER/FO	OT OF CA	SING (GA	L.)		=	0.17	4"	0.66	
5. VOLUME OF WATER IN	CASING (GAL.)(#3 x	#4)		=	0.83	5"	1.04	
6. VOLUME OF WATER TO	REMOVE	(GAL.)(#5	x _5_)		=	4.17	6"	1.50	
7. VOLUME OF WATER AC	TUALLY F	REMOVED	(GAL.)		=	2	8"	2.60	
							V=0.0408 x (C	OR CASING DIAME	TER)²
PARAMETERS	0	1.5	2	ACCUMU	JLATED \	OLUME PURGED (GA	LLONS)		
TAUVUNLTERO		1.0							
pH	6.96	7.03	8.09						
SPEC. COND. (umhos)	924	841	842						
TURBIDITY (NTU)	>1000	>1000	>1000						
TEMPERATURE (°C)	14.7	15.6	15.0						
ODD ()()	45	22	246						
ORP (mV)	-15	-23	-316						
TIME	15:51	17:05	10:21						
	-					l/disposable HDPE tul	-	Cupperalad	
Well dry after removing one development at 17:20. Will						ea, but well was not re	echarging well.	Suspenaea	
9/16/06 DTW at 15:16 was	-		-		_	ont dry again			

8/16/06 DTW at 15:16 was 17.94'. Pumped about 1/4 gallon before well went dry again.

8/21/06 DTW was 16.98'. Removed about 1/4 gallon before well went dry.

DDO IFOT TITLE	SCM 0 ==	طامه طريناا -					WELL NO). DEC 1	0		
	PROJECT TITLE: SCM Cortlandvill€ WELL NO.: DEC-08 PROJECT NO.: 11174586.00000 Start: 17:53										
PROJECT NO.: 111745	86.00000						Start:	17:53			
STAFF: Andy Brayman							Stop:	18:31			
DATE(S): 8/15/06											
4 TOTAL CACING AND CO	DEENLEN	IOTIL (ET	`			40	00			OL. (GAL/F	T)
1. TOTAL CASING AND SC		,	•		=		.66	•	1"	0.04	
2. WATER LEVEL BELOW 1	FOP OF C	ASING (F1	Г.)		=	12	.29	•	2"	0.17	
3. NUMBER OF FEET STAN	IDING WA	TER (#1 -	#2)		=	6.	37		3"	0.38	
4. VOLUME OF WATER/FO	OT OF CA	SING (GA	L.)		=	0.	17	•	4"	0.66	
5. VOLUME OF WATER IN	CASING (GAL.)(#3 x	#4)		=	1.	08		5"	1.04	
6. VOLUME OF WATER TO	REMOVE	(GAL.)(#5	5 x _5_)		=	5.	41		6"	1.50	
7. VOLUME OF WATER AC	TUALLY R	EMOVED	(GAL.)		=	4	1		8"	2.60	
								V=0.04		OR ING DIAMI	ETER)²
				A C C L IMI	JLATED V	OLLIME D	UDCED (C	CALLONC)			
PARAMETERS	0	1	2	3	4	5	10	15	25	35	40
pH	6.79	7.22	7.58	7.81	7.76	7.72	7.72	7.62	7.59	7.47	7.57
SPEC. COND. (umhos)	823	852	861	851	847	822	830	826	822	821	819
TURBIDITY (NTU)	>1000	>1000	>1000	>1000	>1000	>1000	>1000	>1000	500	70	22
(7.000	7 .000	7 .000	7.000	7 .000	7.000	7.000	7 .000	333		
TEMPERATURE (°C)	16.5	14.7	14.2	14.5	13.9	13.5	13.6	13.7	13.8	13.5	13.4
ORP (mV)	1	-42	-83	-94	-81	-72	-70	-67	-62	-53	-64
TIME COMMENTS: Well Dev	17:53 eloped wi	17:56 th subme	17:57	17:59 np using (18:02 dedicated	18:04 /disposab	18:08 le HDPE 1	18:12 tubina.	18:19	18:25	18:30
				, 5		,		J			

PROJECT TITLE:	SCM Co	rtlandville					WELL NO.	: <u>DEC-09</u>)		
PROJECT NO.: 111745	86.00000						Start:	7:40			
STAFF: Andy Brayman							Stop:	8:15			
DATE(S): 8/16/06											
TOTAL CASING AND SC	REENIEN	NGTH (FT)		=	16	.89		.L ID. V	OL. (GAL/F 0.04	T)
2. WATER LEVEL BELOW 1		,	,		=		06		2"	0.17	
3. NUMBER OF FEET STAN					=		83		3"	0.38	
4. VOLUME OF WATER/FO					=		17		1"	0.66	
							33		" 5"	1.04	
5. VOLUME OF WATER TO					=						
6. VOLUME OF WATER AC					=		66		5"	1.50	
7. VOLUME OF WATER AC	TUALLY R	REMOVED	(GAL.)		=	3	6			2.60 OR	
								V=0.040	8 x (CAS	ING DIAMI	ETER)²
		ı	T	ACCUMU	JLATED V	OLUME P	URGED (G	ALLONS)		1	
PARAMETERS	0	3	5	10	20	30	35				
рН	6.98	7.37	7.37	7.47	7.38	7.30	7.34				
SPEC. COND. (umhos)	938	932	918	928	926	924	923				
TURBIDITY (NTU)	>1000	>1000	>1000	>1000	360	75	31				
TEMPERATURE (°C)	12.5	12.7	12.3	12.1	12.0	12.0	11.9				
ORP (mV)	-14	-44	-50	-54	-46	-40	-46				
<u></u> ()											
TIME Well Day	7:40	7:47	7:51	7:55	8:03	8:10	8:14	·hina			
COMMENTS: Well Dev	еюреа w	iin subme	rsible pun	np using c	iedicated/	disposabl	le HDPE to	ubing.			

URS Corporation

PROJECT TITLE:	SCM Co	rtlandville					WELL NO).: <u>DEC-1</u>	0		
PROJECT NO.: 11174	586.00000						Start:	9:27			
STAFF: Andy Brayman							Stop:	11:26			
DATE(S): 8/16/0	6										
								WE	LL ID. V	OL. (GAL/F	·T)
1. TOTAL CASING AND S	CREEN LEI	NGTH (FT.)		=	14	.49		1"	0.04	
2. WATER LEVEL BELOW	TOP OF C	ASING (FT	- .)		=	7.	87	•	2"	0.17	
3. NUMBER OF FEET STA	ANDING WA	TER (#1 -	#2)		=	6.	62		3"	0.38	
4. VOLUME OF WATER/F	OOT OF CA	SING (GA	L.)		=	0.	17		4"	0.66	
5. VOLUME OF WATER IN	CASING (GAL.)(#3 x	#4)		=	1.	13	•	5"	1.04	
6. VOLUME OF WATER T	O REMOVE	(GAL.)(#5	x _5_)		=	5.	63	•	6"	1.50	
7. VOLUME OF WATER A	CTUALLY F	REMOVED	(GAL.)		=	1	00		8"	2.60	
								V=0.04		OR ING DIAM	ETER)²
				ACCUMI	JLATED V	OLUME P	URGED (C	SALLONS)			
PARAMETERS	0	2	5	10	15	20	30	40	50	70	90
pH	7.05	7.11	7.22	7.23	7.34	7.53	7.08	7.25	7.53	6.90	6.78
SPEC. COND. (umhos)	924	887	698	674	659	680	652	651	651	642	649
or zer eertz. (annies)	02.	007	- 000	07.	000	000	562	001	001	0.12	0.10
TURBIDITY (NTU)	>1000	>1000	>1000	>1000	>1000	>1000	>1000	>1000	>1000	>1000	>1000
TEMPERATURE (°C)	16.6	14.3	13.9	13.9	13.8	14.1	14.3	14.1	14.0	15.0	14.0
ORP (mV)	-21	-21	-34	-35	-37	-55	-21	-28	-55	-12	79
OIG (IIIV)	-21	-21	-54	-55	-31	-55	-21	-20	-55	-12	13
TIME	9:27	9:29	9:32	9:38	9:43	9:48	9:55	10:02	10:10	11:07	11:20

COMMENTS: Well Developed with submersible pump using dedicated/disposable HDPE tubing.

Turbidity was decreasing toward end of development. Stopped development due to high purge volume. Turbidity should clear up under low flow conditions.

PROJECT TITLE:	SCM Cor	tlandville					WELL NO.	: <u>DEC-10</u>			
PROJECT NO.: 1117458	36.00000						Start:	9:27			
STAFF: Andy Brayman							Stop:	11:26			
DATE(S): 8/16/06											
TOTAL CASING AND SCI	REEN LEN	GTH (FT.)			=	14	.49	WELL 1'		OL. (GAL/F 0.04	·T)
2. WATER LEVEL BELOW T		, ,			=		87	2'	,	0.17	
3. NUMBER OF FEET STAN	IDING WA	TER (#1 - #	#2)		=	6.	62	3'	,	0.38	
4. VOLUME OF WATER/FO	OT OF CA	SING (GAL)		=	0.	17	4'	'	0.66	
5. VOLUME OF WATER IN 0	CASING (G	GAL.)(#3 x	#4)		=	1.	13	5'	,	1.04	
6. VOLUME OF WATER TO	REMOVE	(GAL.)(#5	x _5_)		=	5.	63	6'	'	1.50	
7. VOLUME OF WATER AC	TUALLY R	EMOVED	(GAL.)		=	1(00	8'	'	2.60	
								V=0.0408	x (CAS	OR SING DIAME	∃TER)²
		1		ACCUM	JLATED V	OLUME P	URGED (G	ALLONS)			
PARAMETERS	100										
рН	7.00										
SPEC. COND. (umhos)	644										
TURBIDITY (NTU)	450										
TEMPERATURE (°C)	14.3										
ORP (mV)	114										
TIME	11:26										
COMMENTS: Well Devi Turbidity was decreasing too under low flow conditions.							le HDPE ti high purge		urbidity	should cle	ear up

PROJECT TITLE: SCM Cortlandville WELL NO.: DEC-11											
PROJECT NO.: 11174	586.00000						Start:	12:24			
STAFF: Andy Brayman							Stop:	14:05			
DATE(S): 8/16/0	6										
1. TOTAL CASING AND S	CREEN LEI	NGTH (FT.)		=	15	.43	WE	LL ID. VO	OL. (GAL/F 0.04	·T)
2. WATER LEVEL BELOW	TOP OF C	ASING (F1	Г.)		=	9.	14	•	2"	0.17	
3. NUMBER OF FEET STA	ANDING WA	ATER (#1 -	#2)		=	6.	29	•	3"	0.38	
4. VOLUME OF WATER/F	OOT OF CA	ASING (GA	L.)		=	0.	17	•	4"	0.66	
5. VOLUME OF WATER IN	CASING (GAL.)(#3 x	: #4)		=	1.	07	•	5"	1.04	
6. VOLUME OF WATER TO	O REMOVE	(GAL.)(#5	5 x _5_)		=	5.	35	•	6"	1.50	
7. VOLUME OF WATER A	CTUALLY F	REMOVED	(GAL.)		=	9)1		8"	2.60	
								V=0.04	08 x (CAS	OR ING DIAM	ETER)²
		ı	ı	ACCUM	JLATED V	OLUME P	URGED (G	SALLONS)	ı	ı	1
PARAMETERS	0	5	10	20	30	40	50	60	70	80	90
рН	7.39	7.44	7.48	7.73	7.86	7.62	7.70	8.01	7.70	7.57	7.56
SPEC. COND. (umhos)	709	695	703	708	710	710	706	707	712	709	714
TURBIDITY (NTU)	>1000	>1000	>1000	>1000	>1000	>1000	>1000	1000	>1000	1100	36
TEMPERATURE (°C)	15.3	14.7	15.3	13.8	14.2	13.8	14.6	15.5	13.9	14.0	13.8
ORP (mV)	186	107	110	103	101	109	105	147	147	142	141
TIME	12:24	12:28	12:33	12:41	12:50	12:58	13:04	13:46	13:53	13:59	14:05
COMMENTS: Well De	eveloped w	ith subme	rsible pun	np using o	dedicated	/disposab	le HDPE 1	tubing.			

PROJECT TITLE:	SCM Co	rtlandville					WELL NO).: <u>DEC-1</u>	2		
PROJECT NO.: 11174	586.00000	ı					Start:	16:10			
STAFF: Andy Brayman							Stop:	16:45			
DATE(S): 8/16/0											
1. TOTAL CASING AND S	CREEN LEI	NGTH (FT.)		=	20	.74		LL ID. VO	OL. (GAL/F 0.04	- T)
2. WATER LEVEL BELOW	TOP OF C	ASING (F1	́Г.)		=		.62	_'	2"	0.17	
3. NUMBER OF FEET STA	NDING WA	ATER (#1 -	#2)		=	6.	12	•	3"	0.38	
4. VOLUME OF WATER/FO	OOT OF CA	ASING (GA	.L.)		=	0.	17	_	4"	0.66	
5. VOLUME OF WATER IN	I CASING (GAL.)(#3 x	: #4)		=	1.	04	_	5"	1.04	
6. VOLUME OF WATER TO	O REMOVE	E (GAL.)(#5	5 x _5_)		=	5.:	20	_	6"	1.50	
7. VOLUME OF WATER A	CTUALLY F	REMOVED	(GAL.)		=	5	1		8"	2.60	
								V=0.04		OR ING DIAM	ETER)²
				ACCUM	JLATED V	OLUME P	URGED (C	SALLONS)			
PARAMETERS	0	5	10	20	30	40	45	47	50		-
рН	7.63	7.49	7.46	7.43	7.92	7.87	7.94	7.92	7.91		
SPEC. COND. (umhos)	909	873	874	869	869	866	867	870	866		
TURBIDITY (NTU)	>1000	>1000	>1000	>1000	1100	190	50	55	25		
TEMPERATURE (°C)	14.5	12.2	12.1	12.3	12.6	12.0	11.9	11.4	11.8		
ORP (mV)	207	182	187	193	157	157	148	150	144		
TIME	16:10	16:13	16:17	16:24	16:31	16:38	16:41	16:43	16:45		
COMMENTS: Well De	veloped w	ith subme	rsible pur	np using o	dedicated	/disposab	le HDPE	tubing.			

PROJECT TITLE: SCM Cortlandville WELL NO.: DEC-13												
PROJECT NO.: 11174	586.00000	ı					Start:	17:53				
STAFF: Andy Brayman							Stop:	19:49				
DATE(S): 8/16/06	6											
1. TOTAL CASING AND SO	CREEN LEI	NGTH (FT.	.)		=	26	.36		1" VC	OL. (GAL/F 0.04	·1)	
2. WATER LEVEL BELOW	TOP OF C	ASING (F1	Γ.)		=	19	.76		2"	0.17		
3. NUMBER OF FEET STA	NDING WA	ATER (#1 -	#2)		=	6.	60		3"	0.38		
4. VOLUME OF WATER/FO	OOT OF CA	ASING (GA	L.)		=	0.	17		4"	0.66		
5. VOLUME OF WATER IN	CASING (GAL.)(#3 x	: #4)		=	1.	12		5"	1.04		
6. VOLUME OF WATER TO	O REMOVE	(GAL.)(#5	5 x _5_)		=	5.	61		6"	1.50		
7. VOLUME OF WATER A	CTUALLY F	REMOVED	(GAL.)		=	818"				2.60 OR		
								V=0.04		OR ING DIAM	ETER)²	
		1	1	ACCUM	JLATED V	OLUME P	URGED (C	SALLONS)	T	Т		
PARAMETERS	0	5	10	15	20	30	40	50	60	70	75	
pH	7.68	7.56	7.54	7.55	7.56	7.56	7.55	7.57	7.58	7.86	7.71	
SPEC. COND. (umhos)	1,641	1,012	1,087	1,074	1,034	988	960	967	961	996	1,005	
TURBIDITY (NTU)	>1000	>1000	>1000	>1000	>1000	1100	560	130	75	400	55	
TEMPERATURE (°C)	15.2	13.3	12.6	13.2	13.0	12.4	12.2	11.6	11.9	12.7	12.1	
ORP (mV)	-39	-152	-96	-56	-22	-7	9	5	7	41	-2	
TIME	17:53	17:59	18:07	18:14	18:25	18:32	18:55	19:02	19:07	19:34	19:43	
COMMENTS: Well De	veloped w	ith subme	rsible pur	np using o	dedicated/	/disposab	le HDPE t	ubing.				
1												

PROJECT TITLE:	SCM Cor	tlandville				WELL NO	.: <u>DEC-13</u>		
PROJECT NO.: 111745	86.00000					Start:	17:53		
STAFF: Andy Brayman						Stop:	19:49		
DATE(S): 8/16/06									
1. TOTAL CASING AND SC	REEN LEN	IGTH (FT.)		=	26.36	WELL ID. 1"	VOL. (GAL/F 0.04	T)
2. WATER LEVEL BELOW 1	TOP OF CA	ASING (FT	T.)		=	19.76	2"	0.17	
3. NUMBER OF FEET STAN	IDING WA	TER (#1 -	#2)		=	6.60	3"	0.38	
4. VOLUME OF WATER/FO	OT OF CA	SING (GA	L.)		=	0.17	4"	0.66	
5. VOLUME OF WATER IN	CASING (3AL.)(#3 x	#4)		=	1.12	5"	1.04	
6. VOLUME OF WATER TO	REMOVE	(GAL.)(#5	x _5_)		=	5.61	6"	1.50	
7. VOLUME OF WATER AC	TUALLY R	EMOVED	(GAL.)		=	81	8"	2.60 OR	
							V=0.0408 x (C		ETER)²
			Т	ACCUMU	JLATED V	OLUME PURGED (G	GALLONS)		
PARAMETERS	80								
рН	7.73								
SPEC. COND. (umhos)	1,012								
TURBIDITY (NTU)	40								
TEMPERATURE (°C)	11.6								
ORP (mV)	-2								
TIME	19:48								
COMMENTS: Well Dev	eloped wi	th subme	rsible pu	mp using o	dedicated	/disposable HDPE t	ubing.		

PROJECT TITLE: SCM Cortlandville WELL NO.: DEC-14												
PROJECT NO.: 111745	86.00000						Start:	7:17				
STAFF: Andy Brayman							Stop:	8:53				
DATE(S): 8/17/06	3											
								\ \ /E	אר שו זיי	OL. (GAL/F		
1. TOTAL CASING AND SO	REEN LEI	NGTH (FT.)		=	24	.31	. VVL	1"	0.04	1)	
2. WATER LEVEL BELOW	TOP OF C	ASING (FT	Г.)		=	18	.38	•	2"	0.17		
3. NUMBER OF FEET STA	NDING WA	TER (#1 -	#2)		=	5.	93		3"	0.38		
4. VOLUME OF WATER/FO	OT OF CA	SING (GA	L.)		=	0.	17		4"	0.66		
5. VOLUME OF WATER IN	CASING (GAL.)(#3 x	#4)		=	1.	01		5"	1.04		
6. VOLUME OF WATER TO	REMOVE	(GAL.)(#5	5 x _5_)		=	5.	04		6"	1.50		
7. VOLUME OF WATER AC	CTUALLY F	REMOVED	(GAL.)		=	96 8"				2.60 OR		
								V=0.04		OR ING DIAM	ETER)²	
		1	1	ACCUM	JLATED V	OLUME P	URGED (C	SALLONS)	1	1		
PARAMETERS	0	5	10	20	30	40	50	60	70	80	85	
рН	7.74	7.66	7.64	7.65	7.68	7.69	7.74	7.98	7.92	7.92	7.90	
SPEC. COND. (umhos)	1,346	871	826	809	809	803	802	801	799	800	799	
TURBIDITY (NTU)	>1000	>1000	>1000	>1000	>1000	>1000	1000	400	650	500	190	
TEMPERATURE (°C)	11.4	10.9	10.8	10.8	10.9	10.9	10.9	11.3	11.2	11.2	11.1	
ORP (mV)	-8	-47	-34	-8	-5	-1	17	100	108	115	124	
TIME	7:17	7:20	7:24	7:32	7:39	7:45	7:51	8:28	8:34	8:41	8:45	
COMMENTS: Well De	veloped w	ith subme	rsible pun	np using o	dedicated	disposab	le HDPE 1	tubing.				

PROJECT TITLE: SCM Cortlandville WELL NO.: DEC-14											
PROJECT NO.: 1117458	36.00000				Start:	7:17					
STAFF: Andy Brayman						Stop:	8:53				
DATE(S): 8/17/06											
1. TOTAL CASING AND SCI	REEN LEN	NGTH (FT.)		=	24.31	WELL ID. 1"	VOL. (GAL/F 0.04	·T)		
2. WATER LEVEL BELOW T	OP OF C	ASING (FT	- .)		=	18.38	2"	0.17			
3. NUMBER OF FEET STAN	IDING WA	TER (#1 -	#2)		=	5.93	3"	0.38			
4. VOLUME OF WATER/FO	OT OF CA	SING (GA	L.)		=	0.17	4"	0.66			
5. VOLUME OF WATER IN (CASING (GAL.)(#3 x	#4)		=	1.01	5"	1.04			
6. VOLUME OF WATER TO	REMOVE	(GAL.)(#5	x _5_)		=	5.04	6"	1.50			
7. VOLUME OF WATER AC	TUALLY R	REMOVED	(GAL.)		=	96	8"	2.60 OR			
							V=0.0408 x (C		ETER)²		
				ACCUM	JLATED V	OLUME PURGED (G	ALLONS)	- -			
PARAMETERS	90	95									
рН	7.86	7.90									
SPEC. COND. (umhos)	798	797									
TURBIDITY (NTU)	75	32									
TEMPERATURE (°C)	11.2	11.2									
ORP (mV)	132	139									
TIME	8:49	8:52									
COMMENTS: Well Devi	eioped wi	ui subine	isible pui	np using t	dedicated.	/disposable HDPE t	ubing.				

PROJECT TITLE: SCM Cortlandville WELL NO.: DEC-15											
PROJECT NO.: 11174	586.00000	ı					Start:	9:59			
STAFF: Andy Brayman							Stop:	11:38			
DATE(S): 8/17/06	6										
								\ \ /E	ELL ID. VO		
1. TOTAL CASING AND SO	CREEN LEI	NGTH (FT.	.)		=	26	.28		1"	0.04	')
2. WATER LEVEL BELOW	TOP OF C	ASING (F1	Γ.)		=	19	.50		2"	0.17	
3. NUMBER OF FEET STA	NDING WA	ATER (#1 -	#2)		=	6.	78		3"	0.38	
4. VOLUME OF WATER/FO	OOT OF CA	ASING (GA	L.)		=	0.	17		4"	0.66	
5. VOLUME OF WATER IN	CASING (GAL.)(#3 x	: #4)		=	1.	15		5"	1.04	
6. VOLUME OF WATER TO	O REMOVE	(GAL.)(#5	5 x _5_)		=	5.	76		6"	1.50	
7. VOLUME OF WATER A	CTUALLY F	REMOVED	(GAL.)		=	9	0		8"	2.60	
OR V=0.0408 x (CASING DIAMETER) ²										ETER)²	
		Ī	1	ACCUM	JLATED V	OLUME P	URGED (G	SALLONS)	ı	I	1
PARAMETERS	0	5	10	20	30	40	50	60	70	80	85
рН	7.70	7.78	7.67	7.62	7.55	7.54	7.56	7.70	7.66	7.71	7.67
SPEC. COND. (umhos)	925	787	772	745	737	737	732	726	726	725	726
TURBIDITY (NTU)	>1000	>1000	>1000	>1000	>1000	800	850	550	>1000	130	55
TEMPERATURE (°C)	14.2	12.1	11.3	11.7	12.0	10.9	11.1	11.6	11.5	11.6	11.3
ORP (mV)	117	115	114	118	153	182	174	127	161	135	159
TIME	9:59	10:09	10:14	10:21	10:28	10:35	10:42	11:17	11:24	11:31	11:35
COMMENTS: Well De	veloped w	ith subme	rsible pur	np using (dedicated/	/disposab	le HDPE 1	ubing.			
1											

PROJECT TITLE: SCM Cortlandville WELL NO.: DEC-15										
PROJECT NO.: 111745	86.00000				Start:	9:59				
STAFF: Andy Brayman						Stop:	11:38			
DATE(S): 8/17/06										
1. TOTAL CASING AND SC	REEN LEN	GTH (FT.))		=	26.28	WELL ID. 1"	VOL. (GAL/F 0.04	T)	
2. WATER LEVEL BELOW 1	TOP OF CA	SING (FT	·.)		=	19.50	_ 2"	0.17		
3. NUMBER OF FEET STAN	IDING WA	ΓER (#1 -	#2)		=	6.78	3"	0.38		
4. VOLUME OF WATER/FO	OT OF CAS	SING (GA	L.)		=	0.17	4"	0.66		
5. VOLUME OF WATER IN (CASING (G	6AL.)(#3 x	#4)		=	1.15	5"	1.04		
6. VOLUME OF WATER TO	REMOVE	(GAL.)(#5	x _5_)		=	5.76	6"	1.50		
7. VOLUME OF WATER AC	TUALLY RI	EMOVED	(GAL.)		=	90	8"	2.60		
							V=0.0408 x (C	OR CASING DIAME	ETER)²	
				ACCUMU	JLATED V	OLUME PURGED (GALLONS)			
PARAMETERS	90									
рН	7.66									
SPEC. COND. (umhos)	721									
TURBIDITY (NTU)	40									
TEMPERATURE (°C)	11.2									
ORP (mV)	159									
TIME	11:38									
COMMENTS: Well Dev	eloped wit	h subme	rsible pu	mp using o	dedicated	disposable HDPE	tubing.			

PROJECT TITLE:	SCM Cor	rtlandville					WELL NO	.: <u>DEC-1</u>	6		
PROJECT NO.: 111745	86.00000						Start:	12:47			
STAFF: Andy Brayman							Stop:	14:05			
DATE(S): 8/17/06											
TOTAL CASING AND SC	REEN LEN	NGTH (FT.)		=	26	.71	WE	LL ID. VO	OL. (GAL/F 0.04	- T)
2. WATER LEVEL BELOW					=	19	.42	•	2"	0.17	
3. NUMBER OF FEET STAN	NDING WA	TER (#1 -	#2)		=	7.	29		3"	0.38	
4. VOLUME OF WATER/FO	OT OF CA	SING (GA	L.)		=	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 _5_)		=	6.	20		6"	1.50	
7. VOLUME OF WATER AC	TUALLY R	REMOVED	(GAL.)		=	7	'1		8"	2.60 OR	
								V=0.04		ING DIAM	ETER)²
				ACCUM	JLATED V	OLUME P	URGED (G	SALLONS)			
PARAMETERS	0	5	10	20	30	40	50	60	70		-
рН	7.69	7.49	7.44	7.48	7.52	7.54	7.72	7.69	7.51		
SPEC. COND. (umhos)	1,600	888	820	793	776	769	755	754	754		
TURBIDITY (NTU)	>1000	>1000	>1000	>1000	>1000	950	340	360	40		
TEMPERATURE (°C)	14.4	12.9	11.9	12.3	11.9	11.9	12.2	13.3	12.6		
ORP (mV)	117	117	156	149	145	141	115	116	137		
TIME	12:47	12:51	12:54	13:01	13:08	13:16	13:23	13:58	14:05		
COMMENTS: Well Dev	eloped wi	th subme	rsible pur	•	dedicated		le HDPE t	ubing.			

URS Corporation

PROJECT TITLE: SCM Cortlandville WELL NO.: DEC-17 PROJECT NO.: 11174586.00000 Start: 14:49 STAFF: Andy Brayman Stop: 9:10 DATE(S): 8/17/06, 8/18/06 1. TOTAL CASING AND SCREEN LENGTH (FT.) = 21.40 1" 0.04 2. WATER LEVEL BELOW TOP OF CASING (FT.) = 14.19 2" 0.17 3. NUMBER OF FEET STANDING WATER (#1 - #2) = 7.21 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) = 1.23 5" 1.04 6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x _5_) = 6.13 6" 1.50 7. VOLUME OF WATER ACTUALLY REMOVED (GAL.) = 91 8" 2.60 OR V=0.0408 x (CASING DIAMETER) ²												
STAFF: Andy Brayman Stop: 9:10 DATE(S): 8/17/06, 8/18/06 1. TOTAL CASING AND SCREEN LENGTH (FT.) = 21.40 1" 0.04 2. WATER LEVEL BELOW TOP OF CASING (FT.) = 14.19 2" 0.17 3. NUMBER OF FEET STANDING WATER (#1 - #2) = 7.21 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) = 1.23 5" 1.04 6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x _5_) = 6.13 6" 1.50 7. VOLUME OF WATER ACTUALLY REMOVED (GAL.) = 91 8" 2.60 OR V=0.0408 x (CASING DIAMETER) ²	PROJECT TITLE:	SCM Cor	rtlandville					WELL NC).: <u>DEC-1</u>	7		
DATE(S): 8/17/06, 8/18/06 1. TOTAL CASING AND SCREEN LENGTH (FT.) = 21.40 1" 0.04 2. WATER LEVEL BELOW TOP OF CASING (FT.) = 14.19 2" 0.17 3. NUMBER OF FEET STANDING WATER (#1 - #2) = 7.21 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) = 1.23 5" 1.04 6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x _5_) = 6.13 6" 1.50 7. VOLUME OF WATER ACTUALLY REMOVED (GAL.) = 91 8" 2.60 OR V=0.0408 x (CASING DIAMETER) ²	PROJECT NO.: 1117458	86.00000						Start:	14:49			
1. TOTAL CASING AND SCREEN LENGTH (FT.) = 21.40 1" 0.04 2. WATER LEVEL BELOW TOP OF CASING (FT.) = 14.19 2" 0.17 3. NUMBER OF FEET STANDING WATER (#1 - #2) = 7.21 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) = 1.23 5" 1.04 6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x _5_) = 6.13 6" 1.50 7. VOLUME OF WATER ACTUALLY REMOVED (GAL.) = 91 8" 2.60 OR V=0.0408 x (CASING DIAMETER) ²	STAFF: Andy Brayman							Stop:	9:10			
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3. NUMBER OF FEET STANDING WATER (#1 - #2) = 7.21 3" 0.38 4. VOLUME OF WATER/FOOT OF CASING (GAL.) 5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4) = 1.23 5" 1.04 6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x _5_) = 6.13 6" 1.50 7. VOLUME OF WATER ACTUALLY REMOVED (GAL.) 8" 2.60 OR V=0.0408 x (CASING DIAMETER) ²	1. TOTAL CASING AND SCI	REEN LEN	NGTH (FT.)		=	.40			•	',	
4. VOLUME OF WATER/FOOT OF CASING (GAL.) = 0.17	2. WATER LEVEL BELOW T	TOP OF C	ASING (F1	T.)		=	14.	.19	=	2"	0.17	
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4) = 1.23 5" 1.04 6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x _5_) = 6.13 6" 1.50 7. VOLUME OF WATER ACTUALLY REMOVED (GAL.) = 91 8" 2.60 OR V=0.0408 x (CASING DIAMETER) ²	3. NUMBER OF FEET STAN	IDING WA	TER (#1 -	#2)		=	7.:	21	_	3"	0.38	
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x _5_) = 6.13 6" 1.50 7. VOLUME OF WATER ACTUALLY REMOVED (GAL.) = 91 8" 2.60 OR V=0.0408 x (CASING DIAMETER) ²	4. VOLUME OF WATER/FO	OT OF CA	SING (GA	L.)		=	0.	17	_	4"	0.66	
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.) = 91 8" 2.60 OR V=0.0408 x (CASING DIAMETER) ²	5. VOLUME OF WATER IN (CASING (GAL.)(#3 x	#4)		=	1.23 5"			5"	1.04	
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.) = 91 8" 2.60 OR V=0.0408 x (CASING DIAMETER) ²	6. VOLUME OF WATER TO	REMOVE	(GAL.)(#5	x _5_)		=	6.13 6"			6"	1.50	
OR V=0.0408 x (CASING DIAMETER) ²			, ,,	,		=	9	1	-		2.60	
ACCUMULATED VOLUME PURCED (CALLONS)				(0, 1_1)				•			OR	ETER)²
ACCUMULATED VOLUME PURGED (GALLONS)		ACCUMULATED VOLUME PURGED (GALLONS)										
PARAMETERS 0 5 10 30 40 50 60 70 80 85 90	PARAMETERS	0	5	10	30	40	50	60	70	80	85	90
pH 7.69 7.67 7.64 7.59 7.62 7.65 7.67 7.66 7.60 7.57	рН	7.69 7.67 7.67 7.64						7.65	7.67	7.66	7.60	7.57

		ACCUMULATED VOLUME PURGED (GALLONS)											
PARAMETERS	0	5	10	30	40	50	60	70	80	85	90		
рН	7.69	7.67	7.67	7.64	7.59	7.62	7.65	7.67	7.66	7.60	7.57		
SPEC. COND. (umhos)	921	620	636	596	611	592	611	592	587	587	592		
TURBIDITY (NTU)	>1000	>1000	>1000	>1000	>1000	360	70	650	140	70	32		
TEMPERATURE (°C)	14.7	12.1	11.8	12.6	12.4	11.8	12.2	11.9	11.5	11.4	11.6		
ORP (mV)	97	101	125	80	109	97	96	94	79	81	86		
						•							
TIME	14:49	15:08	15:13	7:47	7:55	8:06	8:18	8:29	9:03	9:06	9:10		

COMMENTS: Well Developed with submersible pump using dedicated/disposable HDPE tubing. Had problems with pump.

PROJECT TITLE: SCM Cortlandville WELL NO.: DEC-18											
PROJECT NO.: 11174	586.00000	ı					Start:	10:03			
STAFF: Andy Brayman							Stop:	11:29			
DATE(S): 8/18/00	6										
								\A/E		OL /OAL/E	
1. TOTAL CASING AND SO	CREEN LEI	NGTH (FT.	.)		=	16	.66	. VVE	1" VC	OL. (GAL/F 0.04	.1)
2. WATER LEVEL BELOW	TOP OF C	ASING (F7	Γ.)		=	9.	28	-	2"	0.17	
3. NUMBER OF FEET STA	NDING WA	ATER (#1 -	#2)		=	7.	38	-	3"	0.38	
4. VOLUME OF WATER/FO	OOT OF CA	ASING (GA	L.)		=	0.	17	-	4"	0.66	
5. VOLUME OF WATER IN	CASING (GAL.)(#3 x	: #4)		=	1.	25	-	5"	1.04	
6. VOLUME OF WATER TO	O REMOVE	(GAL.)(#5	5 x _5_)		=	6.	27	-	6"	1.50	
7. VOLUME OF WATER A	CTUALLY F	REMOVED	(GAL.)		=	9	5		8"	2.60	
OR V=0.0408 x (CASING DIAMETER) ²											ETER)²
		1	1	ACCUM	JLATED V	OLUME P	URGED (C	SALLONS)	1	Γ	
PARAMETERS	0	5	10	20	30	40	50	60	70	80	90
рН	7.66	7.53	7.52	7.55	7.58	7.68	7.39	7.71	7.29	7.23	7.17
SPEC. COND. (umhos)	791	690	656	631	619	616	616	611	609	606	605
TURBIDITY (NTU)	>1000	>1000	>1000	>1000	850	>1000	210	>1000	>1000	180	80
TEMPERATURE (°C)	16.2	15.7	15.5	15.4	15.7	14.9	14.6	15.4	15.2	15.4	14.7
ORP (mV)	80	116	106	101	99	95	31	113	34	40	44
TIME	10:03	10:08	10:12	10:20	10:27	10:34	10:41	11:09	11:14	11:19	11:24
COMMENTS: Well De	veloped w	ith subme	rsible pur	np using o	dedicated	/disposabl	le HDPE	tubing.			

PROJECT TITLE: SCM Cortlandville WELL NO.: DEC-18											
PROJECT NO.: 111745	86.00000					Start:	10:03				
STAFF: Andy Brayman						Stop:	11:29				
DATE(S): 8/18/06											
TOTAL CASING AND SC	REEN LEN	GTH (FT.)			=	16.66	WELL ID. 1"	VOL. (GAL/F 0.04	T)		
2. WATER LEVEL BELOW 1					=	9.28	 2"	0.17			
3. NUMBER OF FEET STAN					=	7.38	3"	0.38			
4. VOLUME OF WATER/FO	OT OF CAS	SING (GAL)		=	0.17	4"	0.66			
5. VOLUME OF WATER IN	CASING (G	GAL.)(#3 x #	#4)		=	1.25	5"	1.04			
6. VOLUME OF WATER TO	REMOVE	(GAL.)(#5 >	x _5_)		=	6.27	6"	1.50			
7. VOLUME OF WATER AC	TUALLY R	EMOVED (GAL.)		=	95	8"	2.60			
							V=0.0408 x (0	OR CASING DIAME	ETER)²		
				ACCUML	JLATED V	OLUME PURGE	D (GALLONS)				
PARAMETERS	95										
рН	7.17										
SPEC. COND. (umhos)	606										
TURBIDITY (NTU)	40										
TEMPERATURE (°C)	14.8										
ORP (mV)	45										
TIME	11:29										
COMMENTS: Well Dev	eloped wit	h submers	sible pun	np using c	ledicated	disposable HDF	PE tubing.				

PROJECT TITLE:	SCM Co	rtlandville					WELL NO).: <u>DEC-1</u>	9		
PROJECT NO.: 111745	86.00000						Start:	12:15			
STAFF: Andy Brayman							Stop:	13:25			
DATE(S): 8/18/06											
										OL. (GAL/F	T)
1. TOTAL CASING AND SC	REEN LEI	NGTH (FT.)		=	11		•	1"	0.04	
2. WATER LEVEL BELOW	TOP OF C	ASING (F1	Γ.)		=	2.	99	•	2"	0.17	
3. NUMBER OF FEET STAN	NDING WA	TER (#1 -	#2)		=	8.	58		3"	0.38	
4. VOLUME OF WATER/FO	OT OF CA	SING (GA	L.)		=	0.	17		4"	0.66	
5. VOLUME OF WATER IN	CASING (GAL.)(#3 x	#4)		=	1.	46	•	5"	1.04	
6. VOLUME OF WATER TO	REMOVE	(GAL.)(#5	5 x _5_)		=	7.	29	·	6"	1.50	
7. VOLUME OF WATER AC	TUALLY F	REMOVED	(GAL.)		=	8	3		8"	2.60	
								V=0.04		OR ING DIAMI	ETER)²
				ACCUM	JLATED V	OLUME P	URGED (C	GALLONS)			
PARAMETERS	0	5	10	20	30	40	50	60	70	80	
рН	7.45	7.36	7.38	7.37	7.37	7.35	7.32	7.75	7.47	7.47	
SPEC. COND. (umhos)	708	571	574	573	573	574	576	573	578	577	<u> </u>
TURBIDITY (NTU)	>1000	>1000	>1000	>1000	>1000	>1000	>1000	>1000	251	33.5	
TEMPERATURE (°C)	15.4	14.5	14.4	14.4	14.4	14.3	14.3	15.2	14.9	15.4	İ
ORP (mV)	255	213	212	207	204	198	192	194	189	185	
TIME	12:15	12:17	12:19	12:24	12:28	12:33	12:38	13:14	13:20	13:24	
					dedicated/					ı	

URS Corporation

PROJECT TITLE: SCM Cortlandville		WELL NO.	: <u>DEC-20</u>	
PROJECT NO.: 11174586.00000		Start:	14:24	
STAFF: Andy Brayman		Stop:	12:10	
DATE(S): 8/18/06, 8/21/06				
			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	14.39	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	7.89	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	6.50	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)	=	1.11	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x _5_)	=	5.53	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	100	8"	2.60 OR
			V=0.0408 x (C	ASING DIAMETER) ²

		ACCUMULATED VOLUME PURGED (GALLONS)										
PARAMETERS	0	5	10	20	30	40	50	60	70	80	90	
рН	7.55	7.34	7.33	7.43	7.49	7.87	7.64	7.58	7.55	7.52	7.50	
SPEC. COND. (umhos)	735	628	592	570	589	564	562	562	561	561	560	
TURBIDITY (NTU)	>1000	>1000	>1000	>1000	>1000	>1000	>1000	>1000	1100	100	120	
TEMPERATURE (°C)	16.8	15.3	15.4	15.8	18.4	15.4	14.5	14.5	14.4	14.2	14.5	
ORP (mV)	167	-7	3	8	51	79	111	119	126	119	118	
											_	
TIME	14:24	14:28	14:34	14:47	15:27	11:13	11:18	11:23	11:27	11:32	11:37	

COMMENTS: Well Developed with submersible pump using dedicated/disposable HDPE tubing. Water level dropped too low for effective pumping after removing about 20 gallons.

8/21/06 DTW wsa 7.99'

PROJECT TITLE:	SCM Cort	landville		WELL NO	.: DEC-20		
PROJECT NO.: 111745	86.00000			Start:	14:24		
STAFF: Andy Brayman				Stop:	12:10		
DATE(S): 8/18/06,	8/21/06						
TOTAL CASING AND SC	DEEN I EN	CTH (FT)	=	14.39	WELL ID. 1"	VOL. (GAL/F 0.04	·T)
2. WATER LEVEL BELOW		, ,	=	7.89	2"	0.17	
3. NUMBER OF FEET STAI			=	6.50	3"	0.38	
4. VOLUME OF WATER/FC			=	0.17	4"	0.66	
5. VOLUME OF WATER IN	CASING (G	AL.)(#3 x #4)	=	1.11	5"	1.04	
6. VOLUME OF WATER TO	REMOVE	(GAL.)(#5 x _5_)	=	5.53	6"	1.50	
7. VOLUME OF WATER AC	TUALLY RE	EMOVED (GAL.)	=	100	8"	2.60 OR	
					V=0.0408 x (C	•	ETER)²
		AC	CUMULATED V	OLUME PURGED (G	ALLONS)		
PARAMETERS	100						
рН	7.68						
SPEC. COND. (umhos)	559						
TURBIDITY (NTU)	24						
TEMPERATURE (°C)	14.8						
ORP (mV)	147						
TIME	12:10						
COMMENTS: Well Dev Water level dropped too low 8/21/06 DTW wsa 7.99'		h submersible pump us ve pumping after remo			ubing.		

PROJECT TITLE:		WELL NO.: DEC-21									
PROJECT NO.: 111745	Start: 12:53										
STAFF: Andy Brayman	Stop: 14:08										
DATE(S): 8/21/06											
										OL. (GAL/F 0.04	·T)
TOTAL CASING AND SCREEN LENGTH (FT.)						14.51		•	1"		
2. WATER LEVEL BELOW TOP OF CASING (FT.)						8.37		2"		0.17	
3. NUMBER OF FEET STANDING WATER (#1 - #2)						6.14		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)						1.04		5"		1.04	
6. VOLUME OF WATER TO	6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x _5_)						5.22		6"		
7. VOLUME OF WATER AC	7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)						77				
								V=0.04		OR ING DIAMI	ETER)²
	ACCUMULATED VOLUME PURGED (GALLONS)										
PARAMETERS	0	5	10	20	30	40	50	60	70	75	
рН	7.82	7.52	7.46	7.40	7.40	7.37	7.37	7.62	7.45	7.42	
SPEC. COND. (umhos)	498	502	500	497	494	493	495	494	491	491	
TURBIDITY (NTU)	>1000	>1000	>1000	>1000	>1000	>1000	>1000	>1000	70	30	
TEMPERATURE (°C)	15.1	14.5	14.5	14.8	15.6	15.4	15.1	14.9	15.3	15.3	
ORP (mV)	169	176	175	173	168	169	169	191	183	176	
TIME	12:53	12:56	12:58	13:04	13:09	13:13	13:18	14:02	14:06	14:08	
COMMENTS: Well Dev	eloped wi	ith subme	rsible pun	np using (dedicated/	/disposab	le HDPE 1	tubing.			

PROJECT TITLE: SCM Cortlandville							WELL NO.: DEC-22					
PROJECT NO.: 11174586.00000							Start: 15:30					
STAFF: Andy Brayman		Stop: 16:50										
DATE(S): 8/21/06												
TOTAL CASING AND SCREEN LENGTH (FT.)						13	.47		LL ID. VO	OL. (GAL/F 0.04	·T)	
2. WATER LEVEL BELOW TOP OF CASING (FT.)						6.59		2"		0.17		
3. NUMBER OF FEET STANDING WATER (#1 - #2)						6.88		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)						1.17		5"		1.04		
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x _5_)						5.85		6"		1.50		
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)						77		8" 2.6 OR		2.60		
								V=0.04		ING DIAMI	ETER)²	
	ACCUMULATED VOLUME PURGED (GALLONS)											
PARAMETERS	0	5	10	20	30	40	50	60	70	75		
рН	7.89	7.69	7.60	7.54	7.49	7.48	7.44	7.64	7.52	7.49		
SPEC. COND. (umhos)	560	498	494	492	494	489	493	483	483	483		
TURBIDITY (NTU)	>1000	>1000	>1000	>1000	>1000	>1000	>1000	350	110	45		
TEMPERATURE (°C)	15.5	14.6	14.5	14.4	15.0	15.1	15.4	16.6	15.5	15.4		
ORP (mV)	97	84	106	120	142	151	155	169	173	173		
TIME	15:30	15:32	15:34	15:39	15:47	15:52	15:56	16:43	16:47	16:49		
COMMENTS: Well Dev	•	ith subme	•	np using o	dedicated	•	le HDPE 1	tubing.				

PROJECT TITLE: SC PROJECT NO.: 11174586.0 STAFF: Andy Brayman DATE(S): 8/23/06	00000						WELL NO	.: <u>DEC-2</u>			
STAFF: Andy Brayman							Stort:				
							Start.	16:28			
DATE(S): 8/23/06							Stop:	18:08			
I										VOL. (GAL/F	T)
TOTAL CASING AND SCREE	EN LEN	IGTH (FT.)		=	47.	.58		1"	0.04	
2. WATER LEVEL BELOW TOP	OF CA	ASING (FT	·.)		=	40	.77		2"	0.17	
3. NUMBER OF FEET STANDIN	NG WA	TER (#1 -	#2)		=	6.8	81		3"	0.38	
4. VOLUME OF WATER/FOOT	OF CAS	SING (GA	L.)		=	0.	17		4"	0.66	
5. VOLUME OF WATER IN CAS	SING (G	GAL.)(#3 x	#4)		=	1.16			5"	1.04	
6. VOLUME OF WATER TO REI	MOVE	(GAL.)(#5	x _5_)		=	5.	79		6"	1.50	
7. VOLUME OF WATER ACTUA	ALLY RI	EMOVED	(GAL.)		=	7	1		8"	2.60	
		V=0.04	08 x (C	OR ASING DIAM	ETER)2						
				ACCUMI	II ATED V	OLUME PI	JRGED (G	ALLONS)			
PARAMETERS	0	10	20	30	40	50	60	70			
8 Hq	3.02	7.63	7.56	7.57	7.60	7.58	7.61	7.62			
p11 C	J.UZ	7.00	7.00	7.07	7.00	7.00	7.01	7.02			
SPEC. COND. (umhos)	755	810	791	787	782	787	784	788			
TURBIDITY (NTU) >1	1000	>1000	>1000	>1000	>1000	>1000	606	34.2			
, , , , ,			40.0								
TEMPERATURE (°C) 1	14.9	12.5	12.2	12.2	12.9	11.8	12.5	12.2			
ORP (mV)	203	75	42	57	67	61	75	86			
	16:34	16:44	16:51	17:19	17:26	18:00	18:07				
TIME 10	6:28	TIME 16:28 16:34 16:44 16:51 17:19 17:26 18:0 COMMENTS: Well Developed with submersible pump using dedicated/disposable HDF									

PROJECT TITLE: S PROJECT NO.: 11174586 STAFF: Andy Brayman	SCM Cor	Hondella								
		uanuville					WELL NO	.: <u>DEC-24</u>		
STAFF: Andy Brayman	6.00000						Start:	18:42		
							Stop:	7:23		
DATE(S): 8/23/06, 8/	/24/06									
4. TOTAL CACING AND CODE		IOTIL (ET				47	70		D. VOL. (GAL/F	T)
1. TOTAL CASING AND SCRI		` '			=		.76	1"	0.04	
2. WATER LEVEL BELOW TO					=		.12	2"	0.17	
3. NUMBER OF FEET STAND	DING WA	.TER (#1 -	#2)		=	6.	64	3"	0.38	
4. VOLUME OF WATER/FOO	T OF CA	SING (GA	L.)		=	0.	17	4"	0.66	
5. VOLUME OF WATER IN CA	ASING (C	3AL.)(#3 x	#4)		=	1.	13	5"	1.04	
6. VOLUME OF WATER TO R	REMOVE	(GAL.)(#5	x _5_)		=	5.	64	6"	1.50	
7. VOLUME OF WATER ACTU	UALLY R	EMOVED	(GAL.)		=	52	2.5	8"	2.60 OR	
						V=0.0408 x	(CASING DIAME	TER)2		
				ACCUMU	JLATED V	OLUME P	URGED (G	ALLONS)		
PARAMETERS	0	10	20	30	40	50	52.5			
рН	7.40	7.59	7.58	7.63	7.63	8.20	7.72			
F11										
SPEC. COND. (umhos)	1,122	770	774	757	748	750	748			
TURBIDITY (NTU)	>1000	>1000	1014	>1000	155	371	46.3			
TEMPERATURE (90)	474	12.0	40.0	40.0	42.6	40.0	111			
TEMPERATURE (°C)	17.1	13.0	12.3	12.2	13.6	12.3	14.4			
ORP (mV)	128	39	15	19	26	106	68			
	18:42	19:31	19:52	20:21	20:55	7:09	7:22			
TIME	TIME 18:42 19:31 19:52 20:21 20:55 7:09 COMMENTS: Well Developed with submersible pump using dedicated/disposable									

Start: 7:45	PROJECT TITLE: SCM Cortlandville WELL NO.: DEC-25 PROJECT NO.: 11174586.00000 Start: 7:45													
DATE(S): 8/24/06 1. TOTAL CASING AND SCREEN LENGTH (FT.) = 50.41 1" 0.04 2. WATER LEVEL BELOW TOP OF CASING (FT.) = 43.39 2" 0.17 3. NUMBER OF FEET STANDING WATER (#1 - #2) = 7.02 3" 0.38 4. VOLUME OF WATER/FOOT OF CASING (GAL.) 5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4) = 1.19 5" 1.04 6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x _5_) = 5.97 6" 1.50 7. VOLUME OF WATER ACTUALLY REMOVED (GAL.) ACCUMULATED VOLUME PURGED (GALLONS) PARAMETERS 0 10 20 30 40 50 60 61 0 PH 7.72 7.51 7.56 7.62 7.66 7.69 7.77 7.73 SPEC. COND. (umhos) 885 755 689 676 668 662 654 661 1 TURBIDITY (NTU) >1000 >1000 >1000 >1000 >1000 67.8 49.6	PROJECT NO.: 111745	86.00000						Start:	7:45					
1. TOTAL CASING AND SCREEN LENGTH (FT.) 2. WATER LEVEL BELOW TOP OF CASING (FT.) 3. NUMBER OF FEET STANDING WATER (#1 - #2) 4. VOLUME OF WATER/FOOT OF CASING (GAL.) 5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4) 6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x _5_) 7. VOLUME OF WATER ACTUALLY REMOVED (GAL.) ACCUMULATED VOLUME PURGED (GALLONS) PARAMETERS 0 10 20 30 40 50 60 61 DH 7.72 7.51 7.56 7.62 7.66 7.69 7.77 7.73 SPEC. COND. (umhos) 885 755 689 676 668 662 654 661 TURBIDITY (NTU) >1000 >1000 >1000 >1000 >1000 >1000 67.8 49.6	STAFF: Andy Brayman							Stop:	9:03					
1. TOTAL CASING AND SCREEN LENGTH (FT.) = 50.41 1" 0.04 2. WATER LEVEL BELOW TOP OF CASING (FT.) = 43.39 2" 0.17 3. NUMBER OF FEET STANDING WATER (#1 - #2) = 7.02 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 _5_) = 5.97 6" 1.50 7. VOLUME OF WATER ACTUALLY REMOVED (GAL.) = 61 8" 2.60 OR V=0.0408 x (CASING DIAM ACCUMULATED VOLUME PURGED (GALLONS) PARAMETERS 0 10 20 30 40 50 60 61 PH 7.72 7.51 7.56 7.62 7.66 7.69 7.77 7.73 SPEC. COND. (umhos) 885 755 689 676 668 662 654 661 TURBIDITY (NTU) >1000 >1000 >1000 >1000 >1000 67.8 49.6	DATE(S): 8/24/06													
1. TOTAL CASING AND SCREEN LENGTH (FT.) = 50.41 1" 0.04 2. WATER LEVEL BELOW TOP OF CASING (FT.) = 43.39 2" 0.17 3. NUMBER OF FEET STANDING WATER (#1 - #2) = 7.02 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 _5_) = 5.97 6" 1.50 7. VOLUME OF WATER ACTUALLY REMOVED (GAL.) = 61 8" 2.60 OR V=0.0408 x (CASING DIAM ACCUMULATED VOLUME PURGED (GALLONS) PARAMETERS 0 10 20 30 40 50 60 61 PH 7.72 7.51 7.56 7.62 7.66 7.69 7.77 7.73 SPEC. COND. (umhos) 885 755 689 676 668 662 654 661 TURBIDITY (NTU) >1000 >1000 >1000 >1000 >1000 67.8 49.6														
3. NUMBER OF FEET STANDING WATER (#1 - #2) = 7.02 3" 0.38 4. VOLUME OF WATER/FOOT OF CASING (GAL.) 5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4) = 1.19 5" 1.04 6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x _5_) = 5.97 6" 1.50 7. VOLUME OF WATER ACTUALLY REMOVED (GAL.) = 61 8" 2.60 OR V=0.0408 x (CASING DIAN ACCUMULATED VOLUME PURGED (GALLONS) PARAMETERS 0 10 20 30 40 50 60 61 PH 7.72 7.51 7.56 7.62 7.66 7.69 7.77 7.73 SPEC. COND. (umhos) 885 755 689 676 668 662 654 661 TURBIDITY (NTU) >1000 >1000 >1000 >1000 >1000 >1000 67.8 49.6	1. TOTAL CASING AND SC	REEN LEN	NGTH (FT.)		=	50.	.41				-T)		
4. VOLUME OF WATER/FOOT OF CASING (GAL.) = 0.17	2. WATER LEVEL BELOW 7	TOP OF C	ASING (FT	T.)		=	43.	39	2'	"	0.17			
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4) = 1.19 5" 1.04 6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x _5_) = 5.97 6" 1.50 7. VOLUME OF WATER ACTUALLY REMOVED (GAL.) = 61 8" 2.60 OR V=0.0408 x (CASING DIAN ACCUMULATED VOLUME PURGED (GALLONS) PARAMETERS 0 10 20 30 40 50 60 61 PH 7.72 7.51 7.56 7.62 7.66 7.69 7.77 7.73 SPEC. COND. (umhos) 885 755 689 676 668 662 654 661 TURBIDITY (NTU) >1000 >1000 >1000 >1000 >1000 >1000 67.8 49.6	3. NUMBER OF FEET STAN	NDING WA	TER (#1 -	#2)		=	7.0	02	3'	"	0.38			
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x _5_) = 5.97 6" 1.50 7. VOLUME OF WATER ACTUALLY REMOVED (GAL.) = 61 8" 2.60 OR V=0.0408 x (CASING DIAN ACCUMULATED VOLUME PURGED (GALLONS) PARAMETERS 0 10 20 30 40 50 60 61 PH 7.72 7.51 7.56 7.62 7.66 7.69 7.77 7.73 SPEC. COND. (umhos) 885 755 689 676 668 662 654 661 TURBIDITY (NTU) >1000 >1000 >1000 >1000 >1000 >1000 67.8 49.6	4. VOLUME OF WATER/FO	OT OF CA	SING (GA	L.)		=	0.	17	4'	"	0.66			
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.) = 61 8" 2.60 OR V=0.0408 x (CASING DIAM V=0.0408 x (CASING	5. VOLUME OF WATER IN	CASING (GAL.)(#3 x	#4)		=	1.	19	5'	"	1.04			
ACCUMULATED VOLUME PURGED (GALLONS) PARAMETERS 0 10 20 30 40 50 60 61 pH 7.72 7.51 7.56 7.62 7.66 7.69 7.77 7.73 SPEC. COND. (umhos) 885 755 689 676 668 662 654 661 TURBIDITY (NTU) >1000 >1000 >1000 >1000 >1000 67.8 49.6	6. VOLUME OF WATER TO	REMOVE	(GAL.)(#5	x _5_)		=	5.9	97	6'	"	1.50			
Name	7. VOLUME OF WATER AC	TUALLY R	6	1	8'	"								
PARAMETERS 0 10 20 30 40 50 60 61 pH 7.72 7.51 7.56 7.62 7.66 7.69 7.77 7.73 SPEC. COND. (umhos) 885 755 689 676 668 662 654 661 TURBIDITY (NTU) >1000 >1000 >1000 >1000 >1000 49.6			V=0.0408	3 x (CA		ETER)								
pH 7.72 7.51 7.56 7.62 7.66 7.69 7.77 7.73 SPEC. COND. (umhos) 885 755 689 676 668 662 654 661 TURBIDITY (NTU) >1000 >1000 >1000 >1000 >1000 67.8 49.6					ACCUM	JLATED V	OLUME PI	JRGED (G	GALLONS)					
SPEC. COND. (umhos) 885 755 689 676 668 662 654 661 TURBIDITY (NTU) >1000 >1000 >1000 >1000 >1000 67.8 49.6	PARAMETERS	0	10	20	30	40	50	60	61					
TURBIDITY (NTU) >1000 >1000 >1000 >1000 >1000 67.8 49.6	рН	7.72	7.51	7.56	7.62	7.66	7.69	7.77	7.73					
	SPEC. COND. (umhos)	885	755	689	676	668	662	654	661					
TEMPERATURE (°C) 12.5 11.4 11.2 11.5 11.6 12.3 12.5 11.7	TURBIDITY (NTU)	>1000	>1000	>1000	>1000	>1000	>1000	67.8	49.6					
	TEMPERATURE (°C)	12.5	11.4	11.2	11.5	11.6	12.3	12.5	11.7					
ORP (mV) -149 -31 -28 -32 -15 3 73 76	ORP (mV)	-149	-31	-28	-32	-15	3	73	76					
TIME 7:45 7:55 8:02 8:11 8:20 8:30 8:58 9:02	TIME	7:45	7:55	8:02	8:11	8:20	8:30	8:58	9:02					
COMMENTS: Well Developed with submersible pump using dedicated/disposable HDPE tubing.			•									1		

PROJECT TITLE:	SCM Co	rtlandville					WELL NO	.: <u>DEC-26</u>		
PROJECT NO.: 11174	586.00000						Start:	15:12		
STAFF: Andy Brayman							Stop:	9:18		
DATE(S): 8/22/06	, 8/23/06									
								\//ELI	.ID. VOL. (GAL/FT	-\
1. TOTAL CASING AND S	CREEN LEN	NGTH (FT.)		=	27	.11	1"	,)
2. WATER LEVEL BELOW	TOP OF C	ASING (FT	·.)		=	20	.87	2"	0.17	
3. NUMBER OF FEET STA	ANDING WA	TER (#1 -	#2)		=	6.	24	3"	0.38	
4. VOLUME OF WATER/FO	OOT OF CA	SING (GA	L.)		=	0.	17	4"	0.66	
5. VOLUME OF WATER IN	CASING (GAL.)(#3 x	#4)		=	1.	06	5"	1.04	
6. VOLUME OF WATER TO	30	6"	1.50							
7. VOLUME OF WATER A	' 0	8"								
								V=0.0408	OR x (CASING DIAME ⁻	TER)²
				ACCUMU	JLATED V	OLUME P	URGED (G	GALLONS)		
PARAMETERS	0	10	20	30	40	50	60	70		
рН	7.33	8.14	7.76	7.70	7.71	7.71	7.79	7.74		
SPEC. COND. (umhos)	1,097	470	457	447	455	441	431	431		
	>1000	>1000	>1000	>1000	778	323	219	45.8		
TURBIDITY (NTU)										
TURBIDITY (NTU) TEMPERATURE (°C)	17.5	14.4	13.9	13.8	13.8	13.9	14.2	14.2		
TURBIDITY (NTU) TEMPERATURE (°C) ORP (mV)	17.5	14.4	13.9	13.8 -15	13.8 -3	13.9 12	14.2 40	14.2		

PROJECT TITLE: SCM Cortlandville WELL NO.: DEC-27 PROJECT NO.: 11174586.00000 Start: 14:31												
PROJECT NO.: 11174	586.00000						Start:	14:31				
STAFF: Andy Brayman							Stop:	17:48				
DATE(S): 8/22/0	6											
								WE		OL. (GAL/F	T)	
1. TOTAL CASING AND S	CREEN LEI	NGTH (FT.)		=	21	.98		1"	0.04		
2. WATER LEVEL BELOW	TOP OF C	ASING (FT	.)		=	16	.11		2"	0.17		
3. NUMBER OF FEET STA	ANDING WA	TER (#1 -	#2)		=	5.	87		3"	0.38		
4. VOLUME OF WATER/F	OOT OF CA	SING (GA	L.)		=	0.	17		4"	0.66		
5. VOLUME OF WATER IN	N CASING (GAL.)(#3 x	#4)		=	1.00		5"		1.04		
6. VOLUME OF WATER T	O REMOVE	(GAL.)(#5	x _5_)		=	4.99			6"	1.50		
7. VOLUME OF WATER A	CTUALLY F	REMOVED	8	88		8"	2.60					
				V=0.04		OR Ing Diame	ETER)²					
ACCUMULATED VOLUME PURGED (GALLONS) PARAMETERS 0 10 20 30 40 50 60 70 80 87.5												
TATOWNETERO		10		- 00	10	- 00	00		- 00	07.0		
рН	7.80	7.78	7.66	7.83	7.69	7.66	7.83	7.68	7.67	7.77		
SPEC. COND. (umhos)	505	500	482	480	503	507	506	495	504	504		
TURBIDITY (NTU)	>1000	>1000	>1000	>1000	>1000	>1000	>1000	248	234	32.5		
. ,												
TEMPERATURE (°C)	17.5	17.1	18.2	16.0	14.9	14.2	15.5	14.8	14.7	14.3		
ORP (mV)	70	76	77	101	78	80	136	98	94	102		
TIME	14:31	15:48	16:12	16:30	16:42	16:47	17:21	17:29	17:39	17:47		
	eveloped w	th subme	rsible pur	np using	dedicated	/disposab	le HDPE t	ubing.				
Dry after removing about 7	gallons.											

PROJECT TITLE: SCM Cortlandville WELL NO.: DEC-28												
PROJECT NO.: 1117458	86.00000						Start:					
STAFF: Andy Brayman							Stop:	14:02				
DATE(S): 8/22/06												
1. TOTAL CASING AND SCI	REEN LEN	NGTH (FT.)		=	17	.84		LL ID. 1"	VOL. (GAL/I 0.04	- T)	
2. WATER LEVEL BELOW T	TOP OF C	ASING (FT	T.)		=	11	.67	•	2"	0.17		
3. NUMBER OF FEET STAN	NDING WA	TER (#1 -	#2)		=	6.	17	•	3"	0.38		
4. VOLUME OF WATER/FO	OT OF CA	SING (GA	L.)		=	0.	17		4"	0.66		
5. VOLUME OF WATER IN (CASING (GAL.)(#3 x	#4)		=	1.	05		5"	1.04		
6. VOLUME OF WATER TO	REMOVE	(GAL.)(#5	x _5_)		=	5.	24		6"	1.50		
7. VOLUME OF WATER AC	TUALLY R	REMOVED	(GAL.)		=	7	1		8"	2.60		
		V=0.04	08 x (C	OR ASING DIAM	ETER)2							
·				ACCUM	JLATED V	OLUME P	URGED (C	SALLONS)				
PARAMETERS	0	10	20	35	40	50	60	70				
pН	7.93	7.62	7.61	7.67	7.62	7.60	7.92	7.73				
		500		550	504	500	550	554				
SPEC. COND. (umhos)	555	568	559	558	561	562	552	554				
TURBIDITY (NTU)	>1000	>1000	>1000	>1000	>1000	>1000	210	34				
TEMPERATURE (°C)	14.0	13.0	13.2	13.3	12.8	12.5	15.2	14.0				
ORP (mV)	102	54	77	88	83	79	122	105				
TIME	12:25	12:31	12:36	12:44	12:46	12:51	13:56	14:01				
COMMENTS: Well Dev	eloped wi	th subme	rsible pun	np using o	dedicated/	disposabl	le HDPE 1	tubing.				

URS Corporation

PROJECT TITLE: SCM Cortlandville		WELL NO.:	DEC-29	
PROJECT NO.: 11174586.00000		Start:	7:21	
STAFF: Andy Brayman		Stop:	11:49	
DATE(S): 8/22/06				
			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	14.19	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	7.47	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	6.72	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)	=	1.14	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x _5_)	=	5.71	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	100	8"	2.60
			V=0.0408 x (C	OR ASING DIAMETER) ²

ACCUMULATED VOLUME PURGED (GALLONS) **PARAMETERS** 0 5 10 20 30 50 60 70 75 85 8.33 7.85 7.64 7.55 7.60 7.53 7.50 7.65 7.57 7.48 7.46 рΗ 605 599 584 587 595 SPEC. COND. (umhos) 1,012 810 631 615 597 592 TURBIDITY (NTU) >1000 >1000 >1000 800 >1000 >1000 600 >1000 450 110 210 TEMPERATURE (°C) 15.2 15.4 15.1 15.3 16.5 17.5 16.5 17.5 17.5 17.0 17.2 ORP (mV) 86 71 114 134 137 140 151 146 142 144 137 TIME 7:57 8:31 9:00 9:56 10:43 10:58 11:08 11:29 7:21 7:34 9:30

COMMENTS: Well Developed with submersible pump using dedicated/disposable HDPE tubing.

Water level dropped to a point where the pump would get air locked. Had to continuously turn pump on and off.

This significantly slowed down development.

Turbidity should clear up under low flow conditions.

PROJECT TITLE:	SCM Cor	tlandville		WELL NO	: <u>DEC-29</u>		
PROJECT NO.: 111745	86.00000			Start:	7:21		
STAFF: Andy Brayman				Stop:	11:49		
DATE(S): 8/22/06	i						
					WELL ID. \	VOL. (GAL/F	T)
1. TOTAL CASING AND SC	REEN LEN	GTH (FT.)	=	14.19	1"	0.04	-,
2. WATER LEVEL BELOW	TOP OF CA	ASING (FT.)	=	7.47	2"	0.17	
3. NUMBER OF FEET STAN	NDING WA	TER (#1 - #2)	=	6.72	3"	0.38	
4. VOLUME OF WATER/FO	OT OF CA	SING (GAL.)	=	0.17	4"	0.66	
5. VOLUME OF WATER IN	CASING (G	GAL.)(#3 x #4)	=	1.14	5"	1.04	
6. VOLUME OF WATER TO	REMOVE	(GAL.)(#5 x _5_)	=	5.71	6"	1.50	
7. VOLUME OF WATER AC	TUALLY R	EMOVED (GAL.)	=	100	8"	2.60	
					V=0.0408 x (CA	OR SING DIAME	ETER)²
			COLIMIN ATED V	OLUME DUDGED (O	ALL ONC)		
PARAMETERS	100	A	CCUMULATED V	OLUME PURGED (G	ALLONS)		
рН	7.49						
SPEC. COND. (umhos)	588						
TURBIDITY (NTU)	180						
TORBIBITT (NTC)	100						
TEMPERATURE (°C)	18.2						
ORP (mV)	119						
TIME	11:49						
		th submersible pump	using dedicated		l ubina.		
Water level dropped to a po	int where	the pump would get a					
This significantly slowed do Turbidity should clear up un							
Turbidity should clear up un	idel low lic	w conditions.					

PROJECT TITLE:	SCM Co	WELL NO).: <u>DEC-3</u>	0							
PROJECT NO.: 111745	86.00000						Start:	17:38			
STAFF: Andy Brayman							Stop:	18:37			
DATE(S): 8/21/06											
1. TOTAL CASING AND SC	REENIEN	JGTH (FT	١		=	18	.15		LL ID. VO	OL. (GAL/F 0.04	- T)
2. WATER LEVEL BELOW					=		.16	•	2"	0.17	
3. NUMBER OF FEET STAN					=		99	•	3"	0.38	
4. VOLUME OF WATER/FO					=		17	•	4"	0.66	
5. VOLUME OF WATER IN					=		19	•	5"	1.04	
6. VOLUME OF WATER TO					=		94	•	6"	1.50	
7. VOLUME OF WATER AC			2		8"	2.60					
	V=0.04		OR ING DIAM	ETER)²							
				ACCUMI	II ATED V	OLUME P	URGED (G	SALLONS)			
PARAMETERS	0	5	10	20	30	40	50	60	70		
рН	7.66	7.56	7.56	7.62	7.64	7.64	7.60	7.84	7.68		
SPEC. COND. (umhos)	754	619	589	581	575	572	571	567	568		
TURBIDITY (NTU)	>1000	>1000	>1000	>1000	>1000	>1000	>1000	330	31		
TEMPERATURE (°C)	16.2	15.0	14.8	14.8	14.9	14.7	14.6	15.3	14.5		
ORP (mV)	89	52	67	98	102	96	82	131	105		
TIME	17:38	17:41	17:43	17:48	17:53	17:57	18:02	18:32	18:37		
COMMENTS: Well Dev	eloped w	th subme	rsible pur	np using o	dedicated	/disposab	le HDPE 1	tubing.			

APPENDIX C MONITORING WELL SAMPLING LOGS AND CHAIN OF CUSTODY FORMS

PROJECT TITLE: SCM C	ortlandville	<u> </u>					_WELL NO	o.: <u>MW-</u>	015				
PROJECT NO.: 11174	586.0000	0			<i>-</i>		······································						
STAFF: Andy Brayman,	Bob Fabia	n						, -					
DATE(S): 9/14/06					····		Sarp	e:0	825				
			···. · · - · · · -			***************************************							
1. TOTAL CASING AND SC	REEN LEI	NGTH (FT.)		*	37.0	0'	WE -	ELL ID. 1"		. (GAL/FT) 0.04		
2. WATER LEVEL BELOW	TOP OF C	ASING (FT	Г.)		2	19./	}′	_	2"		0.17		
3. NUMBER OF FEET STAI	NDING WA	TER (#1 -	#2)		#	17.8	7	_	3"		0.38		
4. VOLUME OF WATER/FO	OT OF CA	SING (GA	L.)		=		.17		4"		0.66		
5. VOLUME OF WATER IN	CASING (3AL.)(#3 x	#4)		=	3.04	<u> </u>	-	5"		1.04		
6. VOLUME OF WATER TO	REMOVE	(GAL.)(#5	x 3)		=	9.11	<u>, </u>	-	6"		1.50		
7. VOLUME OF WATER AC	TUALLY R	EMOVED	(GAL.)		=				8"	OR	2.60		
OR V=0.0408 x (CASING DIAMETER)²													
ACCUMULATED VOLUME PURGED (GALLONS)													
PARAMETERS	INITIAL	2	4	6	8	9.5				ļ	INSTRUMENT		
рН	6.93	7.25	7.38	7.50	7.51	7.52							
SPEC. COND. (umhos)	.639	-637	1631	.630	.629	.634							
APPEARANCE	Clear	200					:						
TEMPERATURE (°C)	10.4	10.3	11.1	11.5	11.6	11.6							
TURBIDITY (NTU)	91					5.0							
DISSOLVED OXYGEN	9.58	8,26	7.96	7,98	7,99	8,34							
WATER LEVEL	19.15	19.15	19.15	19.13	19.14	19.14							
TIME COMMENTS: ORP	0754	0755	0803	0811	0820	0825							
COMMENTS: ORP	1146	11871	152	1114	105	116	1						
pumping 2300	1	J.	7 150 ml	/mn -		7 7	AMPL	E					
Turbidity me									er	50			
SPLIT SA							,	,					

PROJECT TITLE: SCM Co	rtlandville	<u> </u>			<u> </u>		_WELL NO).: <u>Mh</u>	1-020	ק	
PROJECT NO.: 111745	586.00000)	·····								
STAFF: <u>Andy Brayman, E</u>	3ob Fabia	n									
DATE(S): 4306						.	Sam	le:	1615	<u> </u>	
1. TOTAL CASING AND SCI	REEN LEN	IGTH (FT.)		p	70	.43) W	ELL ID. 1"		. (GAL/FT) 0.04
2. WATER LEVEL BELOW T	OP OF C	ASING (FT	- .)		=	44.	21		2"		0.17
3. NUMBER OF FEET STAN	IDING WA	TER (#1 -	#2)		=	26.	<u> 22 </u>		3"		0.38
4. VOLUME OF WATER/FO	OT OF CA	SING (GA	L.)		=	0.	.17		4"		0.66
5. VOLUME OF WATER IN (CASING (C	3AL.)(#3 x	#4)		=	4,4	6		5"		1.04
6. VOLUME OF WATER TO	REMOVE	(GAL.)(#5	x 3)		=	<u>13.3</u>	37		6"		1.50
7. VOLUME OF WATER AC	TUALLY R	EMOVED	(GAL.)		=	15			8"	OR	2.60
•_								V=0.04	08 x (CAS		
]			Α(CCUMULA	TED VOLU	JME PURG	BED (GALL	ONS)		
PARAMETERS	INITIAL	1.0	2.0	3.0	8.0	13.0					INSTRUMENT
рН	1.15	7.69	7.68	7.48	7.69	7.69					
m s/cm			114	,113					-		
SPEC. COND. (wmhse)		,774	,119	1,113	,110	111				 	
APPEARANCE	CLEAR										,
TEMPERATURE (°C)	11.2	10.9	11.1	11.3	11.4	11.4				ļ	
TURBIDITY (NTU)											
DISSOLVED OXYGEN	10.49	9.70	9.67	9.67	9.65	9.69					
	1	1	44.23								
		1	ŀ		1	1/10					
TIME COMMENTS: ORP	1540	1541	1544	1546	1556	1610				1-1	
	1120	しガン	1 18	(' / /	16	110	1 (l	, ,	
Pumping @ ~ 15	500 W	ul/mir	· ·								
Turbidity mete	r bro	ren o	on b	oth i	nstru	m ent	45 (L	a Mott	e/Hoi	ribal	
Split Sample	/د و	Buck	En	<i>J</i> ,					•		
Gels 144 HH 14	•	, -									

URS Corporation

WELL ! OI	10111	O L						70 OC	n por a		
PROJECT TITLE: SCM Co	ortlandville)					_WELL N	o.: <u> </u>	nw-4	45	
PROJECT NO.: 11174	586.0000	0									
STAFF: Andy Brayman,	Bob Fabia	ın									
DATE(S): 9-14-0	6				, <u>.</u>	·		Sam	ple:	110	5
		·	<u> </u>	·							
1. TOTAL CASING AND SC	REEN LEN	NGTH (FT.)		=		3.41	- w	ELL ID. 1"		. (GAL/FT) 0.04
2. WATER LEVEL BELOW	TOP OF C	ASING (FT	·.)		=	42	2.59	_	(2°)		0.17
3. NUMBER OF FEET STAN	NDING WA	TER (#1 -	#2)		=	30	0,82	_	3"		0.38
4. VOLUME OF WATER/FO	OT OF CA	SING (GA	L.)		=	= 0.17			4"		0.66
5. VOLUME OF WATER IN	CASING (3AL,)(#3 x	#4)		=	= 5.24 6"					1.04
6. VOLUME OF WATER TO	REMOVE	(GAL.)(#5	x 3)		=	= <u>15.72</u> 6" 1.5				1.50	
7. VOLUME OF WATER AC	TUALLY R	EMOVED	(GAL.)		=				8"		2.60
								V=0.04	08 x (CASI	OR NG DIAM	
				A	CCUMULA	TED VOL	UME PUR	GED (GALL	ONS)		
PARAMETERS	INITIAL		3	5	7	9		13	15		INSTRUMENT
рН	7.66	7.60	7.62	7.63	7.64	7.65	7.65	7.66	7.66		
SPEC. COND. (winhos)	1831	.834	,832	0.539	.837	,838	837	. 835	.836		
APPEARANCE	CLEAR		1022	0.007	,,,,						
		16.6	11.9	11.9	11.9	119	12.0	11.9	11.9		
TEMPERATURE (°C)											
TURBIDITY (NTU)	.70	0.0		0.6	0.0	 	0.0		0.0		
DISSOLVED OXYGEN	10.85	10.39	10.36	10.38	10.35	10.37	10.39	10.40	10.36		
WATER LEVEL	42.61	42.61	4261	4261	42.61	42.61	42.61	42.61	42.61		
TIME	0951	0957	1006	1015	1025	1034	1044	1054	1104		
COMMENTS: ORP	63			171	71	73		76	76		

Pumping @ 800 ml/mm Sample 1105

Godsmit

PROJECT TITLE: SCM C	PROJECT TITLE: SCM Cortlandville WELL NO.: MW-055										
PROJECT NO.:11174	586.0000	0	· · · · · · · · · · · · · · · · · · ·		· · · · · ·				· . ·		
STAFF: Andy Brayman,											
DATE(S): 9/13/06	-···				·		,	Samy	, /0t	10	
DATE(S): 9/13/06 BUCK E	ngine	ering	_ A.	ndheu	s Kol	iK_	- Sp1	17 3	amp/	es	
1. TOTAL CASING AND SC					=	34.		WE -	ELL ID. 1"		. (GAL/FT) 0.04
2. WATER LEVEL BELOW	TOP OF C	ASING (F	Г.)		=	10.8	37	_	2"		0.17
3. NUMBER OF FEET STA	NDING WA	ATER (#1 -	#2)		=	28	.59	-	3"		0.38
4. VOLUME OF WATER/FO	OT OF CA	ASING (GA	L.)		=		.17	_	4"		0.66
5. VOLUME OF WATER IN	CASING (GAL.)(#3 x	#4)		=	4.8	36	-	5"		1.04
6. VOLUME OF WATER TO	REMOVE	(GAL.)(#5	x 3)		=	14.5	8 8	-	6"		1.50
7. VOLUME OF WATER AC	TUALLY F	REMOVED	(GAL.)		=		5		8"	OR	2.60
	V=0.0408 x (CASING DIAMETER) ²										
ACCUMULATED VOLUME PURGED (GALLONS)											
PARAMETERS GALS	INITIAL	1.25	3.0	5.5	810	10,0	13,5	15.5			INSTRUMENT
pH 7.46 7.63 7.74 7.76 7.77 7.76 7.77											
SPEC. COND. (umhos)	1-7 154 1.40 1.47 1.44 1.44 1.44										
APPEARANCE	CLEAR										
TEMPERATURE (°C)	11.8	11.9	12.2	12.2	12.2	12.1	12.1	12.1			
TURBIDITY (NTU)	6.4	2.8	1.1	1.2	1.1	1.5	1.0	1.4			
DISSOLVED OXYGEN	ľ	11.58	11.54	11.60	11.61	11.72	11.67	11.68			
WATER LEVEL	10.87	10.84	10.85	10.87	10.86	10.85	10.86	10.87			L
TIME	ME 0938 0940 0945 0950 0955 1000 1005 1008										
OMMENTS: ORP 79 74 95 100 105 103 108 111											
Redi- flow pump Generator stops for al min.											
Light rain throughout purging/sampling											
	Sample @ 1010										

Project:		11174586.00	000	Site:	SCM C	ortlandville	_ Well I.D.:	DEC-015	
Date:	9/12/06	Sampli	ng Personnel:	Andy	Brayman, Bol	o Fabian	_ Company:	URS Corpora	ition
Purging/ Sampling Device:	Geogram	y 2 h	Silicone	Tubing Type:	LOPE	~	Pump/Tubing Inlet Location:	Screen midpo	oint
			7.37'				2'	Screen Length:	
Casing Type:	þ,	/C		Volume in 1 Well Casing (Hers):	0.90 g	jo ^l	Estimated Purge Volume (liters):	3901	
	DEC 0		Tr /	Sample Time:	17:00)	_ QA/QC:	None	
Sample	e Parameters:	VOCS +	<u> </u>						
			PURGE	PARAM	ETERS		,		
TIME	рН	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)	
In. 44/ 1645	7.31 7.57	13.4	1688	10,98 3.27	700	150 149	650	7.37	
	AND	-							

SAMPLE

	TIME エn.ソッ/	рН <i>7.3</i> 1	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
ŀ	1645	7.57	12.7	1688	10.98 3.27	700	150	650	7.37
ł	1650	7.52	12.8	,652	9.77	160 95	151	 -	7.37
ł	1655	7.51	12.8	1651	10.14	55	154	 	7.37
7	1700	7.52	12.8	,650	10.13	17	155	V	7.37
ļ		-							
ļ						·			·
ļ						· · · · · · · · · · · · · · · · · · ·			
t				-		····			
ŀ									
ŀ									
F									
F									
L	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 $_{\rm cyl} = \pi r^2 h$)

PROJECT TITLE: SCM	Cortlandville	9	•				_WELL N	o.: <u>()</u>	660	25	
PROJECT NO.: 111	74586.0000	0 -					Stand	A STATE OF THE STA	- 170	40	
STAFF: Andy Braymai	n, Bob Fabia	an					Stop: 000 18:15				
DATE(S): 4/12/06	5			Sarple: 8733-19:15							
7							·				
1. TOTAL CASING AND	SCREEN LEI	NGTH (FT.)		=	38	170'	_ w	ELL ID. 1"		. (GAL/FT) 0.04
2. WATER LEVEL BELOV	V TOP OF C	ASING (FT	Г.)		=	32	.14'	-	2"		0.17
3. NUMBER OF FEET ST	ANDING WA	TER (#1 -	#2)		æ	6.	<u>56'</u>	_	3"		0.38
4. VOLUME OF WATER/I	FOOT OF CA	SING (GA	L.)		=	0	.17	_	4"		0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)					=	_1.1	2	_	5"		1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)					=	3.3	5	-	6"		1.50
7. VOLUME OF WATER A	ACTUALLY R	EMOVED	(GAL.)		=	8	gals_		8"	OR	2.60
								V=0.04	08 x (CASI		
ACCUMULATED VOLUME PURGED (GALLONS)											
PARAMETERS	INITIAL	1.0	1.75	2.50	3.25	3.25	5.00	6.00	7.00	8.00	INSTRUMENT
рН		7.69	7.65	7.68	7.70	7.72	7.71	7.70	7.70	7.71	
SPEC. COND. (umbos)	1,00	,91	.999	.93	,97	1.04	,99	1.02	1.05	1.05	
GPEO. GOND. (MINING)	Turbid	SLight		CLEARING	<u> </u>	SLIG ITT		CLEAR	 	· - >	
APPEARANCE		Turbid		UP		Turbid					
TEMPERATURE (°C)	11.6	11.5	12.1	13.5	13.4	13,0	12.8	12.8	12.8	12.8	
TURBIDITY (NTU)	71000	71000	750	61		280	200	85	40	33	
DISSOLVED OXYGEN	4.26	6.41	7.54	8.30	8.50	8,90	8.79	8.84	8.93	8.96	
WATER LEVEL	32.14	33.15	33.15	33,15		33.30	33,30	33,34	33,29	33.39	
TIME	1740	1742	1746	1750	1755	1800	1804	1808 50	1810	1815	
COMMENTS: ORP	194	1861	83	65		149	55	50	48	48	
						. 4	- 1.	. 1		SAMPL	Æ
4/10 M	18.02				Gene	erwhor	- >407	peca	-		
The second second											

Date: 4/2/08 Sampling Personnel: Andy Brayman, Bob Fabian Company: URS Corporation	Project:		11174586.000	00	Site:	SCM C	ortlandville	_ Well I.D.:	DEC-03	3D
Sampling Device: See Plang Z	Date:	1/12/08	_ Samplin	g Personnel:	Andy I	Brayman, Bot	o Fabian	_ Company:	URS Corp	poration
Casing Type: PVC Well Casing 1.37 gcl Purge Volume (liters): 4.5 gq (s.) Sample ID: DCCO3D Sample Time: 1525 QA/QC: W-R Sample Parameters: VCC 17 TCC PURGE PARAMETERS PURGE PARAMETERS TIME pH TEMP (°C) (mS/cm) (mg/ll) (NTU) Eh (mV) (ml/min.) (btor) In fine for the first fine fine for the first fine for the fir	Sampling Device:	beope,	y 2 w	Isilicone	Tubing Type:	LDPE		Inlet		nidpoint
Casing Type: PVC Well Casing J. 37 gcl Volume (liters): 4.5 gq (S. Sample ID: DCC3D Sample Time: 1525 QA/QC: DEPTH TO WATER (ms/min.) (ms/m) (Measuring Point:	Below Top o	f Initial Depth to Water:	6.99'	Depth to Well Bottom:	15.07'	Well Diameter:	2"		
Sample ID: DECOSI) Time: 1525 QA/QC: POPR	_	P	VC		Well Casing	1.37	<u>i</u> al	Purge Volume	4.53	als,
PURGE PARAMETERS TIME pH TEMP (°C) (mS/cm) DISS. Q ₂ TURB. (mI/m) Eh (mV) (mI/min.) (btor) Third 7.62 14.8 1644 10.08 37 144 75.0 6.99 1507 7.55 14.5 1662 6.88 65 143 7.07 1517 7.53 14.4 1656 6.30 13 144 7.07 1517 7.53 14.4 1656 6.30 13 144 7.07 1522 7.54 14.4 1653 6.24 8 145 7.07			J	TIG		15	525	_ QA/QC: /	lly e	
TIME pH TEMP (°C) COND. DISS. O_2 TURB. O_2 TURB. O_3 TURB. O_4 TURB. O_4 TURB. O_5 TURB. O_6 TURB. TURB. O_6 TURB. TURB. O_6 TURB.										
TIME pH TEMP (°C) COND. DISS. O_2 TURB. O_2 TURB. O_3 TURB. O_4 TURB. O_4 TURB. O_5 TURB. O_6 TURB. TURB. O_6 TURB. TURB. O_6 TURB.										
TIME ph TEMP (°C) COND. (mS/cm) DISS. Q_2 (mg/l) TURB. (NTU) FLOW RATE (ml/min.) WATER (btor) Initial 7.62 14.8 1644 10.08 37 144 75.0 6.99 1507 7.55 14.5 1662 6.88 65 143 7.07 1512 7.53 14.4 1658 6.34 34 144 7.07 1517 7.53 14.4 1656 6.30 13 144 7.07 1522 7.54 14.4 1653 6.24 8 145 7.07				PURGE	PARAM	ETERS				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	TIME	pH	TEMP (°C)				Eh (mV)		WATER	
1512 7.53 14.4 .658 6.34 34 144 7.07 1517 7.53 14.4 ,656 6.30 13 144 7.07 1522 7.54 14.4 ,653 6.24 8 145 7.07								750		
1517 7.53 14.4 1656 6.30 13 144 7.07 1522 7.54 14.4 1653 6.24 8 145 7.07							144			
1522 7.54 14.4 1653 6.24 8 145 7.07 1525 7.54 14.4 1652 6.40 6.5 145 V 7.07	1517	7,53		,656		13	144			
1323 757 19.4 .63C 6.40 6.3 145 V 7.67			14.4	1653		-8-	145	- 1		
	1325	7/5 T	-/7.7	,032	6.40	615		Y	7.07	
			 							
								<u> </u>		
			-		·····					
						1				

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 = rr²h)

10%

3%

Remarks:

Tolerance:

0.1

Project:	·	11174586.00	000	Site	: SCM Cor	tlandville	_ Well I.D.:	DEG-040	-
Date:	9/11/06	Sampli	ng Personnel:	Andy	Brayman, Bob	Fabian	_ Company:	URS Corporation	<u>1</u>
Purging/ Sampling Device: Measuring Point:	Delow 10b 01	Initial Depth to Water:	5.11.Core 14.25 25.70	Tubing Type Depth to Well Bottom	LDP6 25.70	Well Diameter:	Pump/Tubing Inlet Location:	Screen midpoint Screen Length:	t .
Casing Type:	P\	/C		Volume in 1 Well Casing (liters):			Estimated Purge Volume (liters):	3	
	Parameters:		IICS	Sample Time:	14:55		QA/QC:	None	
· · · · ·	<u>-</u>		PURGE	PARAN	IETERS	*****			

TIME	рН	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
Initial	7.45	11.8	.945	10.93	165	39	700	18.25
1435	7.52	11.5	,921	10.96	16	58		18.28
1440	7.41	11.4	, 428	10.96	7.3	91		18.28
1445	7,38	11.4	916	10.61	<u> </u>	109		18.28
1450	7:40	11.4	,916 ,911	10.71	1,6	116		18.28
17135	1,44	11.7	- / ///	70.77	1.60	//7		18.40
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						· · · · · · · ·		
							.,	
	<u> </u>							
							<u> </u>	
						-	-	
		-					 	
7								
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 $_{cyl} = \pi r^2 h$)

Project:		11174586.00000	Site:	SCM Co	ntlandville	_ Well I.D.;	DEC-051)
Date:	A11106	Sampling Personne	el: <u>Andy I</u>	Brayman, Bob	Fablan	_ Company:	URS Corpora	tion
Purging/ Sampling Device:		, Zw/silicore	Tubing Type:	LDPE		Pump/Tubing Inlet Location:	Screen midpo	oint
Measuring Point:	g Below Top of Riser	Initial Depth 9.29	Depth to Well Bottom:	18.17'	Well Diameter:	2"	Screen Length:	
Casing Type:	P\	/C	Volume in 1 Well Casing (liters):	1.5)		Estimated Purge Volume (liters):	<u>5 3al</u> s	
Sample ID		VOCS +TICS	Sample Time:	165	5	QA/QC:	None.	
	-	PURG	E PARAM	ETERS			· · · · · · · · · · · · · · · · · · ·	
				T	·. ·. •. · · · · · · · · · · · · · · · ·		DEPTH TO	

SAMPLE

i								DEPTH TO
			COND.	DISS. O ₂	TURB.		FLOW RATE	WATER
TIME	pН	TEMP (°C)	(mS/cm)	(mg/l)	(NTU)	Eh (mV)	(ml/min.)	(btor)
Intal	7.61	12,9	,754	5:11	240	-51	500	9.38
1630	7,50	12.3	, 739	4.62	120	- 38	700	9.40
1635	7.30	12.1	,710	5.19	28	49	700	9.40
1640	7.31	12.1	1708	5.35		70	700	9,39
1645	7.34	12.1	.703	5.47	9.6	80	700	9,39
1650	7.35	12.0	,696	5.66	6.7	85		
1655	7,36	12.0	,694	5.47		88	V	<u>`</u>
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					·		ļ	
							 	
		 						
							 	
						 ,		
							 	
								
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 $_{cyl} = \pi r^2 h$)

Project:		11174586.000	00	Site:	SCM Co	ortlandville	Well I.D.:	DEC-6	(5)
Date:	9/11/06	Samplin	g Personnel:	Andy E	Brayman, Bot	Fabian	_ Company:	URS Corp	ooration
Device.	Below Top of	2 W/Silo	12.42 12.26	Tubing Type: Depth to Well Bottom:	1200	Well Diameter:	Pump/Tubing Inlet Location:	Screen m Screen Length:	nidpoint
Casing Type:	P	vc		Volume in 1 Well Casing (liters):	1.01	-	Estimated Purge Volume (liters):	439	2\
	DEC e Parameters:	-6D VO(5-1	TIG	Sample Time:	14	12	_ QA/QC:	More	
"			PURGE	PARAM	ETERS				
TIME	рН	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)	
Initial	6.68	11.7	.969	7,27	716	184	700	12.42	
1350	7.17	11.5	,934	6.41	480	181		12.45	
1355	7.14	12.0	,876	6.77	71000	182	 	12.44	
1400	7.15	11.6	,880	7.30	234	178	L V	12.45	
1405	7.21	11.6	.858	6.78	119	169	600	12.45	
1410 1412	7.27	11.5	.900	6.45	23	162		12.45	
				· -······		· · · · · · · ·	1		I

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 $_{\text{cyl}} = \pi r^2 h$)

10%

Remarks:

SAMPLE

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Project:	11174586.00000	Site: SCM Contlandville	Well I.D.:	DEC-07
Date:	9/12/06, 9/13/08 ampling Personnel:	Andy Brayman, Bob Fabian	Company:	URS Corporation
Purging Samplin Device:	9 / 7 / 1/ 1/	Tubing Type: LDPE	Pump/Tubing Inlet Location:	Screen midpoint
Measurir Point:	, ,	Depth to Well Bottom: 20 50 Well Diameter:	2 ^r	Screen Length:
Casing Type:	PVC	Volume in 1 Well Casing (liters):	Estimated Purge Volume (liters):	
	DEC-07 DIE Parameters: WC + TIC 5	Sample 77:35	QA/QC: _	None
	Purse * 175 ga	1-dry		

PURGE PARAMETERS

TIME	рН	TEMP (°C)	COND. (mS/cm)	DISS. O₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
Initial	6.46	11.4	,70	10.04	7/000	-86	500	17.92
0800	7.14	11.3	.967	2.12 7.88		-110		20.20
0803	1120	1/1.3	. 707	7.38		-131		
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		-						
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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 $_{cyl} = \pi r^2 h$)

9/13/06 - 07w-18.02

Project:	-7 ,	11174586.000	00	Site:	SCM C	ortlandville	Well I.D.;	DEC-08
Date:	9/11/06	Samplin	g Personnel:	Andy E	Brayman, Bol	b Fabian	_ Company:	URS Corporation
Purging Samplin Device: Measurir Point:	GROPLYP	2 W/ 5. f Initial Depth to Water:	13.41'	Tubing Type: Depth to Well Bottom:	LDPE [866"	/ Well Diameter:	Pump/Tubing Inlet Location:	Screen midpoint Screen Length:
Casing Type:		vc		Volume in 1	D.19	-	Estimated Purge Volume (liters):	3 gals.
Sample II	D: <u>PCC- 0</u>	8 : VOCr+	TLG	Sample Time:	153	30	_ QA/QC: _	None
			-	PARAM	ETERS			
TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
Innal	7,52	/3./	,999	10.34	37	132	600	13.48
1515	7.41	12.9	,985	9,03	29	130		13.48
1520	7.37	13.1	1967	8,53	13	130	ļ	13.48
1525 1530	7.38	13.2	,950 ,937	8,49 8,47	7.3 4.9	129	V	13.48
						· · ·		

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 $_{oyl} = \pi r^2 h$)

Project:		11174586.00	000	Site:	SCM Co	ortlandville	Well I.D.:	DEG09	
Date:	9/11/01	Samplii	ng Personnel:	Andy I	Brayman, Bob	Fabian	_ Company:	URS Corporation	·····
Purging/ Sampling Device:	60 pung	, 2 W.	Silicore	Tubing Type:	LDPE		Pump/Tubing Inlet Location:	Screen midpoint	
	•		9.72'			Well Diameter:	211	Screen Length:	
Casing Type:	P\	/C		Volume in 1 Well Casing (liters):	1.22	-	Estimated Purge Volume (liters):	<u>3.75 g</u> als.	
	DGC- e Parameters:	.09 Vos. +7.	1105	Sample Time:	16	10	_ QA/QC: _	None	
, -									
			PURGE	PARAMI	ETERS				
TIME	ρH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)	
Initial 1550 1555	7.64 7.44 7.39	12.7	,991 ,984 ,970	10.11 8.18 8.03	9.2 16 6.2	136 134 133	750	9.92 9.79 4.79	

SAMPLE

160	5	7.42	12.2	98/	7.95	3,9	/3/	V	9.79
Fn:1 155 155 160	5	7.64 7.44 7.39 7.43	12.7 12.3 12.2 12.2	,991 ,984 ,970 ,969	70.11 8.18 8.03 8.57	9.2 16 6.2 4.2	136 134 133 132	750	9.72 9.79 9.79 9.79
TIN		рН	TEMP (°C)	COND. (mS/cm)	DISS. O₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)

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 $_{cyl} = \pi r^2 h$)

Project:	. <u> </u>	11174586.000	00	Site:	SCM Co	rtlandville	_ Well I.D.:	DEC-10
Date:	9/11/06	Samplin	g Personnel:	Andy I	Brayman, Bob	Fabian	_ Company:	URS Corporation
Purging Samplin Device:		02 W/	Silicore	Tubing Type:	LDPE		Pump/Tubing Inlet Location:	Screen midpoint
Measurir Point:	ng Below Top of Riser	Initial Depth to Water:	8.701	Depth to Well Bottom:	14.31	Well Diameter:	<u>ال</u>	Screen Length:
Casing Type:	P\	/C		Volume in 1 Well Casing (liters):	0.95		Estimated Purge Volume (liters):	3 gal
Sample II		10 Voca t	11/4	Sample Time:	1730)	QA/QC:	thre
Samı	ole Parameters:	1005 1	None:		eter bto lecement		re Celled You	Pine to
			PURGE	PARAM	ETERS	<u> </u>		

TIME	рН	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/mln.)	DEPTH TO WATER (btor)
Initial	7.51	14.1	723	7.29	35	1/6	750	
1710	7.28	13.8	,674	2.76 3.97	40	1/4		
1720	7.21	13.8	1654	3,47	7.4	114		
1725	7,21	13.8	.654 .652 .650	3.99	4.7	114		
								
								
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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 $_{e_N} = \pi r^2 h$)

	Project:		11174586.000	000	_ Site:	SCM C	Cortlandville	_ Well I.D.:	<u>DEC-11</u>
	Date:	111/06	_ Samplir	ng Personnel:	Andy	Brayman, Bo	b Fabian	_ Company:	URS Corporation
				lizore				Pump/Tubing Inlet Location:	Screen midpoint
	Measuring Point:	Below Top o	of Initial Depth to Water:	10.06'	Depth to Well Bottom:	15.43	Well Diameter:	2"	Screen Length:
	Casing Type:	Р	vc		Volume in 1 Well Casing (liter s):	0.91 <i>56</i> 1	_		3gals
	Sample ID:	DE C-	(/		Sample Time:	180	0	_ QA/QC: _	None Dup
	Sample	e Parameters	VOC +	TICS Note:	W.L. m	state 11	- 60 A	<u></u>	
				N.YC.	w.c. m	erer br	open		
		·····	· · · · · · · · · · · · · · · · · · ·	DIIBGI	E PARAM	ETEDS			
			, 	FUNGI	- FANAM	ETERS		,	
	TIME	рН	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
	Initial	7.38	13.3	.745	7.17	150	127	750	
1743	1745	7.25	13.2	,731	6.52	12	128	<u> </u>	
1.110	1753	7.26	13.4	.720	6.26	8,6	128		
	1758	7.27	13.4	17/6	6.31	5.4	129	 	
Sample	1800			,					
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	Toloronos	0.1		407	400/	4.00/	+ 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 $_{\text{cyl}} = \pi \ell^2 h$)

Project:		11174586.000	00	Site:	SCM Co	ortlandville	: Well I.D.:	DECIZ	
Date:			g Personnel:	_				URS Corporation	
Purging/ Sampling Device:	Geograp	2 W/S	silicore	Tubing Type:	LDPE	Well	Pump/Tubing Inlet Location:	Screen midpoint	
Point:	Riser	to Water:	15.821	Well Bottom:	20.74'	Diameter:	Estimated	Length:	
Casing Type:	P\	/C		Volume in 1 Well Casing (liters):	0.84		Purge Volume (liters):	2.5 gals	
	e Parameters:	12 VOC5+	TICs	Sample Time:	083	35	_ QA/QC:	None	
			PURGE	PARAM	ETERS			<u> </u>	
TIME	рН	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)	
Initial 0820	7.42	11.7	,499 1999	11.53 8.76	100	66 75	600	15.82	
0825 0830 0835	7.25 7.30 7.30	11.6 11.6 11.6	.976 .937 .937	8.32 8.39 8.42	12 4.5 2.6	88 97 103		15.85	

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 $_{\text{cyl}} = \pi r^2 h$)

10%

10%

Remarks:

Tolerance:

Sample

Project:	1	1174586.00	000	Site:	SCM Cortlandville	Well I.D.:	DEC-13
Date:	9/12/06	Sampli	ng Personnel:	Andy E	Brayman, Bob Fabian	Company:	URS Corporation
Purging/ Sampling Device:	Стритр	2 4	silicone	Tubing Type:	LDPC	Pump/Tubing Inlet Location:	Screen midpoint
Measuring Point:	Below Top of Riser	Initial Depth to Water:	21.05	Depth to Well Bottom:	26.36 Well Diameter	2"	Screen Length:
Casing Type:	PV	с	-	Volume in 1 Well Casing (liters):	0.90	Estimated Purge Volume (liters):	3 gals.
	DEG-1	-	-	Sample Time:	0910	QA/QC:	None
Samp	le Parameters:_ -	VUCST	1105				
	- -						
			PURGE	PARAMI	ETERS		

	TIME	рН	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
	Initial	7,63	12.0	950	10.99	700	102	650	21.05
	0855	7.62	11.7	1931	9,19 9,83	13 5.7	103		21.14
	0900	7.62	11.8	.915	9,93	3,6	104		21.14
SAMPLE	0910	7.63	11.8	1931	9,74	2,5	105		
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	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 $_{\text{cyl}} = \pi r^2 h$)

Project: Date:	9/12/08	11174586.0 Samp	0000 ling Personne		e: scм y Brayman, B		Well I.D Company	: DEC-14 : URS Corporati	on
Purging/ Sampling Device: Measuring Point:	GROPHI	y 2 w/ of Initial Deptit to Water:	silicore 19.76'	_ Tubing Typ Depth to Well Botton	e: <u>LDPE</u> n: <u>24.31</u>	, Well Diameter	Pump/Tubin Inlet Location:	g Screen midpoi Screen Length:	nt
Casing Type:	F	PVC	_	Volume in Well Casing (liters):		ga ^l	Estimated Purge Volume (liters):	3901	
	DEC- Parameters	VOCST	TICS ms/ms)	Sample Time:	094	40	_ QA/QC:	ms/ms/	<u>></u>
			PURGI	E PARAM	IETERS				
TIME Initial 0925 0930	pH 7.64 7.66 7.62	TEMP (°C) /3.0 //.9 //.7	COND. (mS/cm) , 886 , 908 , 891	DISS. O ₂ (mg/l) /2.0/ 8.54 8.62	TURB. (NTU) >1000 100	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor) /9.76 /9.79	

Sample

	TIME Zaitia/	рН <i>7.64</i>	TEMP (°C)	COND. (mS/cm) 、なおら	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	(btor)
	0925	7.66	11.9	1908	12.01	>1000	109	650	19.76
-	0930	7.62	11.7	,891	8.62	160	114	 	19,79
Ŀ	0935	7,63	11.7	,881	7.94	6.5	114	 	19.82
· H	0940	7.65	11.6	,868	8.69		116		19.82
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Ļ	olerance:	0.1							
•	violalice.	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 $_{cyl} = \pi r^2 h$)

Project:	9/12/06	11174586.00000 Site: SCM Contiandville 3 6 Sampling Personnel: Andy Brayman, Bob Fabian						DEC-15 URS Corporation
Purging/ Sampling Device:	GROPAN	•	Isilicore			-	Pump/Tubing Inlet Location:	Screen midpoint
Measuring Point:	Below Top of Riser	f Initial Depth to Water:	20.85'	Depth to Well Bottom:	26.28'	Well Diameter:	2"	Screen Length:
Casing Type:	P\	VC	-	Volume in 1 Well Casing (liters):	0.92		Estimated Purge Volume (liters):	3.25 gals
	e Parameters:		- TTC1	Sample Time:	//:10		QA/QC:	More
			+ 1+ 5)		· · · · · · · · · · · · · · · · · · ·			
							· · · · · · · · · · · · · · · · · · ·	
			PURGE	PARAM	ETERS			
	1.19 _{pH} æn=		COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
Initial 1053	7.67	13.8	,875	11.18	27 39	117	700	20.85
1058	7.59 7.58	11.3	1879	11.01	34	119		21.03
<u> </u>	71.50	11.4	,858	11.74	16	132		20,99

SAMPLE

		1.19 pH &11		COND. (mS/cm)	DISS. O _z (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
	Initial	9.24	13.8	,875	11.18	27	1/7	700	20.85
	1053	7.67	12.7	1884	10.38	39	119		21.03
	1/03	7.58	11.3	1879	11.01	34	127		21.05
ı	1108	7.60	11.4	.858 .852	11.74	16	132	 	20,99
Ē	1110	7.60	11.4	1851	11.23	9.2 816	136	- 4	20,99
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Ī	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 c_v = πr²h)

Project:		1174586.00	000	Site:	SCM Co	ortlandville	_ Well I.D.:	DES-16
Date:	9/12/06	Sampli	ng Personnel:	Andy E	Brayman, Bob	Fabian	_ Company:	URS Corporation
	GROPUMP Below Top of Riser		silicore 20.73'				Pump/Tubing Inlet Location:	Screen midpoint Screen Length:
Casing Type:	PV	C		Volume in 1 Well Casing (liters):	1,02	-	Estimated Purge Volume (liters):	4 gals
	DEG16 Parameters:		+TIG	Sample Time:	1036)	awac: /	bre
			PURGE	PARAMI	ETERS			
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	TIME	рН	TEMP (°C)	COND. (mS/cm)	DISS. O₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
	Initial	7.76	13.7	1832	10.11	71000	109	700	20.73
	1009	7.68	12.8	734	9.67	55	1/2		20.82
	1014	7.60	11.4	728	9,63		120		
	1019	1.60	11.4	721	9,61	4.8	124	 	
SAMPLE	1030	7.61	11.3	1728	9.52	3.1	126	 	
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•	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 $_{\rm cyl} = \pi r^2 h$)

Project: Date:	9/12/06	11174586.00 Sampli	000 ng Personnel:	_	sсм с Brayman, Bol		_	DEC-17 URS Corporation	
	Below Top of	,	15.60'	_Tubing Type: Depth to Well Bottom:			Pump/Tubing Inlet Location:	Screen midpoint Screen Length:	
Casing Type:	P'	vc		Volume in 1 Well Casing (liters):	<u>0.99</u> g	<u></u> [4]	Estimated Purge Volume (liters) :	3 gc/	
	D6G e Parameters:		+11C5	Sample Time:	163	0	QA/QC:	None	
	,,,		PURGE	PARAM	ETERS				_
TIME Initial 1614	pH 7.24 7.36	TEMP (°C) /4.0 /2.5	COND. (mS/cm) ,745	DISS. O ₂ (mg/l) /0.95	TURB. (NTU) 180 300	Eh (mV) /47	FLOW RATE (ml/min.)	DEPTH TO WATER (btor) /5.60	
1619 1624 1630	7.31	12.0 12.0 12.0	,723 ,706 ,708	5.10 5.22 5.30	38 15 18	150 150 151		15.68 15.68 15.68	

SAMPLE

	TIME	pН	TEMP (°C)	COND. (mS/cm)	DISS. O₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	WATER (btor)
ľ	Initial	7.24	14.0	.745	10.95	180	147	700	15.60
	1614	7.36	12.5	1745	6.61	300	147		15.68
ı	1619	7.31	12.0	,723	5.10	38	150		15.68
ا۔	1624	7.31	12.0	,706	5.22	15	150		15,68
٤	1630	7.31	12.0	, 708	5.30	/8	151	V	15.68
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	Tolerance:	0.1	P==-	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 = rr²h)

Project:	9/12/06		oo ng Personnel:	_	sсм с Brayman, Bol			DE <-18 URS Corporation
Purging/ Sampling Device: Measuring Point:	Below Top of Riser	f Initial Depth to Water:	511core	Tubing Type: Depth to Well Bottom:	LDPE 16.66'	Well Diameter:	Pump/Tubing Inlet Location:	Screen midpoint Screen Length:
Casing Type:	P'	vc		Volume in 1 Well Casing (liters):	1.04		Estimated Purge Volume (liters):	3.15 guls
Sample ID: Sampl	DEC-1	VOCS +7	ICS	Sample Time:	16	00	_ aa/ac: 1	Vore
			PURGE	PARAM	ETERS			· · · · · · · · · · · · · · · · · · ·
TIME	рН	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
543 1548 1553 1600	7.13 7.09 7.11 7.11 7.11	15.5 14.8 14.9 14.9 14.9	.749 .677 .649 .648 .646	2.02 1.39 2.97 2.95 2.93	80 17 9.4 2.3 2.3	138 137 138 137 136	700	10.55 10.62 10.62 10.62 10.62

5 AMPLE

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 $_{\text{cyl}} = \pi r^2 h$)

Project: Date:	9/12/06	11174586.00 , Sampli	000 ng Personnel		SCM (Well I.D.:	DEC-19 URS Corporation
	GERNY	f Initial Depth to Water:	-	_Tubing Type Depth to Well Bottom:		Well Diameter:	Pump/Tubing Inlet Location:	Screen midpoint Screen Length:
Casing Type:	P	vc 		Volume in 1 Well Casing (liters):	1.28	(a)	Estimated Purge Volume (iitels):	4.75901
	e Parameters:	19 VOC3 X	1[cs	Sample Time:	145	50	QA/QC:	None
			PURGE	PARAM	ETERS			
TIME Instial 1432 1437	pH 7.31 7.30 7.28 7.28	TEMP (°C) /4./ /4.0 /3.9	COND. (mS/cm) . 670 . 658	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV) 138 138	FLOW RATE (ml/min.)	DEPTH TO WATER (btor) 4:03 4:06 4:07

Sample

	TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	WATER (btor)
	Initial	7.31	14.1	.670	6,60	65	138	800	4.03
	1432	7.30	14.0	. 658	4.76	9.8	138		4.06
ł	1442	7,28	/3,9	.654	4.46	4.4	139		4.07
ŀ	1447	7.28	13,9	,651	4.48	2.5	139		4,07
}	1450	7.29	13.9	,649	4.46	1.7	140		4.07
6	1730	1,09	13.4	,646	4.47	1.6	140	V	4.07
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	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 $_{\rm eyl}$ = $_{\rm R}r^2$ h)

Project	7	2/06	11174586.00	.,		SCM C			DEC	2.0			
Date:	! <u>! ! !</u>	2108	_ Samplii	ng Personnel:	Andy	Brayman, Bol	b Fabian	_ Company:	URS Co	rporation			
	ig G	•		silicore 8.88'			Well Diameter:	Pump/Tubing Inlet Location:	Screen Screen Length:	midpoint			
Casing Type:		P\	VC		Volume in 1 Well Casing (liters):	0.94	_	Estimated Purge Volume (liters):	3.75	gals			
	Sample ID: 06620 Sample Time: 1410 QA/QC: White Sample Parameters: VOGATICS												
		,											
				PURGE	PARAM	ETERS							
	· —												
TIME		рН	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)	1			
Initia		7.48	13.2	,653	6.95	37	57	750	8,88				
1357		7.40	13.1	649	7.26	8.3	81		8.91				
1407		7.32	13.1	.647	6.89	3,6 2,3	120	 	8,91				
1410		7.32	13.1	1647	6.89	1.6	125	'	8.41				
					·								
							·						
	 												
	+						·····						

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 $_{cyl} = \pi r^2 h$)

10%

10%

Remarks:

0.1

Project:		11174586.00	000	_ Site:	SCMC	ortlandville	_ Well I.D.:	D6C-21	
Date:	9/12/06	, Samplii	ng Personnel	: Andy	Brayman, Bo	b Fabian	_ Company:	URS Corporati	on
Purging/ Sampling Device:	Gaspung	2 w/si	licone	_Tubing Type:	LDPE		Pump/Tubing Inlet Location:		nt
			9.12'			Well Diameter:	2"	Screen Length:	,,,,
Casing Type:	P'	VC		Volume in 1 Well Casing (Jiters):	,92	gal	Estimated Purge Volume (litere):	3.5 gal Non o	
Sample ID:	DEC- e Parameters:	21	11/2	Sample Time:	13	40	QA/QC:	None	
Sample	e Parameters:	V V CSA	140						
		······································		,		, ,		· · · · · · · · · · · · · · · · · · ·	
		 		· · · · · · · · · · · · · · · · · · ·					
			PURG	PARAM	ETERS		··· .		<u> </u>
TIME	Нq	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)	
Initial	1.38	14.7	,568	7.47	95	138	700	9.12	
1325			1 9 40	1.7	75	128	100	7,16	
1220	7.19	14.3	,572	5.71	12	138	700	9.13	
/325 /330 /335	7.19	13.9	.572 .572	5.71	12 5.7	138	700	9.13	
1330 1335 1340	7.19		,572	5.71	12	138	700	9.13	
1335	7.19	13.9	,572 ,572 ,571	5.71	12 5.7 2.4	138	700	9.13	
1335	7.19	13.9	,572 ,572 ,571	5.71	12 5.7 2.4	138	700	9.13	
1335	7.19	13.9	,572 ,572 ,571	5.71	12 5.7 2.4	138	700	9.13	
1335	7.19	13.9	,572 ,572 ,571	5.71	12 5.7 2.4	138	700	9.13	
1335	7.19	13.9	,572 ,572 ,571	5.71	12 5.7 2.4	138	700	9.13	
1335	7.19	13.9	,572 ,572 ,571	5.71	12 5.7 2.4	138	700	9.13	

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 $_{\rm cyf} = \pi r^2 h$)

10%

10%

3%

Remarks:

Project:		11174586.000	000	Site:	SCM Co	ortlandville	_ Well I.D.:	DEC-Z	Z
Date:	9/12/06	_ Samplir	ng Personnel:	Andy I	Brayman, Bob	Fabian	_ Company:	URS Cor	poration
Purging/ Sampling Device: Measuring Point:	68pm	p 2 w/	51/col	Tubing Type:	LDPE 1242'	Well Diameter:	- つり	Screen n	nidpoint
Casing Type:		VC Valer		Volume in 1 Well Casing (liters):	1.02	-	Estimated Purge Volume (liters):	Length:	<u></u>
Sample ID:	e Parameters	22 : V6C, 1	FICS	Sample Time:	130:	5	_ QA/QC:	None	
	·	·	PURGE	PARAM	ETERS				
TIME	рН	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)	
Taitied 1250 1255 1300 1305	7.70 7.43 7.31 7.30 7.32	14.3 14.0 14.0 14.0 14.0	,528 ,530 ,534 ,531 ,531	10.54 4.10 2.83 2.90 2.91	7/000 /50 39 16 10	139 141 141 139 137	700	7.19 7.19 1.20 7.20 7.20	

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 $_{evl} = \pi r^2 h$)

10%

10%

3%

Remarks:

WELL PURGING LOG

0/11/

URS Corporation

PROJECT TITLE: SCM C	Cortlandvill	е					_WELL NO	o.: DE	<u>(-23</u>		
PROJECT NO.: 1117	4586.0000	0									
STAFF: Andy Brayman,	Bob Fabia	an	·				····	<u> </u>			
DATE(S): 9/14/06							Same	6:092	-5	···	
	· · · · · · · · · · · · · · · · · · ·										
1. TOTAL CASING AND S	CREEN LE	NGTH (FT	.)		=	46.	32'		LL ID. 1"		. (GAL/FT) 0.04
2. WATER LEVEL BELOW	TOP OF C	ASING (F	Г.)		=	40.8	35'		2"		0.17
3. NUMBER OF FEET STA	NDING WA	ATER (#1 -	#2)		=	5.4	7'	-	3"		0.38
4. VOLUME OF WATER/FO	OOT OF CA	ASING (GA	AL.)		=		0.17	_	4"		0.66
5. VOLUME OF WATER IN	CASING (GAL.)(#3 x	#4)		=	0.4	3	-	5"		1.04
6. VOLUME OF WATER TO	REMOVE	(GAL.)(#5	5 x 3)		=	2.	79		6"		1.50
7. VOLUME OF WATER AC	CTUALLY F	REMOVED	(GAL.)		=				3"		2.60
								V=0.040	8 x (CASII	OR NG DIAM	
				A	CCUMULA	TED VOL	UME PURC	ED (GALLO	NS)		
PARAMETERS	INITIAL	1.5	3.0	4.0	5.0	6.0					INSTRUMENT
рН	7.51	7.51	7.54	7.55	1.56	7.56					
SPEC. COND. (umhos)	.765		.784			.799					
APPEARANCE	Torbid										
TEMPERATURE (°C)	12.0	12.2	13.5	13.8	13.6	13.6					
TURBIDITY (NTU)			817	121	66.1	41.8			!		
DISSOLVED OXYGEN	9.53	9.48	9.77								
WATER LEVEL	41.0	41.0	40.98	4092	40.92	40.93					
TIME	0903	0905	0910	0915	0918	0922					
COMMENTS: ORP	196	98	89	63	57	55					
					•	۱ ،	A. OL.				
Pumping @ 90	m1/	mn			_	~	AMERIC S	RIF			
Pumping @ 90 Turbidity mo	tet 1	not	worki	ng fi	or fi	rst c	ouple	read	lings		
6ds - 11											

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE:	SCM C	ortlandvill	θ		.		_WELL NO	o.: De e	-24		
PROJECT NO.: 11174	586.0000	0		 ,							
STAFF: Andy Brayman				·			· <u>-</u>				
DATE(S): 9/13/06					<u>.</u>		Sample	: 17	15		
1. TOTAL CASING AND S	CREEN LE	ENGTH (F	Т.)		=	46.	45'	W	ELL ID. \	√OL. (GAL 0.04	/FT)
2. WATER LEVEL BELOW	TOP OF	CASING (I	FT.)		=	41.	03'	-	2"	0.17	
3. NUMBER OF FEET STA	ANDING W	/ATER (#1	- #2)		=		42'	•	3"	0.38	
4. VOLUME OF WATER/F	OOT OF C	ASING (G	AL.)		=	0.1	7		4"	0.66	
5. VOLUME OF WATER IN	I CASING	(GAL.)(#3	x #4)		=	0.9			5"	1.04	
6. VOLUME OF WATER TO	O REMOV	E (GAL.)(#	#5 x)		=	2.7	16		6"	1.50	
7. VOLUME OF WATER A	CTUALLY	REMOVE	D (GAL.)		=		·····	-	8"	2.60	
								V=0.04	08 x (CAS	OR SING DIAM	IETER)²
	1 22		T 41		ULATED V	OLUME F	URGED (G	ALLONS)			
PARAMETERS	0		2	3	4_	5	6				
рН	7.57	7.59	7.60	7.61	7.63	7.63	7.63				
SPEC. COND. (umhos)	,888	.840	,834	,832	.827	.824	1824				
TURBIDITY (NTU)	Torbid			258	778,4	70.3	37.0				
TEMPERATURE (°C)	12.8	12.5	13.5	13.6	13.5	13.5	13.4				
D.O,	8.15	8.98	9.21	9.50	9,80	9.78	9.87				
ORP	127	U5	97	62	57	55	54				
						/disposa	le HDPE t	ubing.			
	1645				1705	1709	1715				
W.L. Pumping @ 750	41.03	41.38	41.40	<u>41.40 </u>	41.40 ^	41.40	41.40				
Turb meter	_			850	mymin		7				
	•	-		00-	N 1001/N	•	SAMPLI	É			
Split San	mple	ω/ £	Buc K	En	J.						

WELL PURGING LOG

URS Corporation

PROJECT TITLE: SCM (Cortlandvil	le					WELL I	NO.: <u>D</u>	EG 2	5	
PROJECT NO.:1117	74586.0000	00									
STAFF: Andy Brayman,	, Bob Fabi	ian									
DATE(S): 4/13/06							San	m6:	15:1	0	
								7			
1. TOTAL CASING AND SO	CREEN LE	NGTH (FT	Г.)		=	4	8.35	′ w	VELL ID.		. (GAL/FT) 0.04
2. WATER LEVEL BELOW	TOP OF C	ASING (F	T.)		=	47	2.26	<u>.</u>	2"		0.17
3. NUMBER OF FEET STA	NDING W/	ATER (#1	- #2)		=	6.7	29	_	3"		0.38
4. VOLUME OF WATER/FO	OOT OF C/	ASING (G/	AL.)		=	. (0.17		4"		0.66
5. VOLUME OF WATER IN	CASING (GAL.)(#3)	ĸ #4)		=	1.0	4	_	5"		1.04
6. VOLUME OF WATER TO	O REMOVE	E (GAL.)(#	5 x 3)		*	_3_]]		6"		1.50
7. VOLUME OF WATER AC	OTUALLY F	REMOVED	(GAL.)		=		<u>'</u>		8"		2.60
								 V=0.0₄	108 x (CA	OF SING DIA	•
				A	COUMUL	ATED VOI	LIME DI ID	RGED (GALI		-	
PARAMETERS	INITIAL	1.0	2.0	3.0	4.0	5.0	10.0		LUNS)		INSTRUMENT
рН	7.85	7.68	7.65	7.66	7.63	7.61	7.65	7.69			
SPEC. COND. (*****)	,751	,771	,769	.761		.170		,770			
APPEARANCE	Turbid										
TEMPERATURE (°C)	11.4	11.1	11.9	15.7	11.6	11.5	11.8	11.7			
TURBIDITY (NTU)	>1000	71000	71000	850	7/000	260	110	33			
DISSOLVED OXYGEN	10.34	9.40	8.97	8.82	10.35	9.46	2.42	9.34			
WATER LEVEL	i i		42.31	1 1	1 1	i e		!!!			
COMMENTS: ORP	1433	1435	1440	1445	1450	1455	1500	1505			
COMMENTS: ORP	130/	117	100 500 ml	112	74	94	85	73 (
	. 1€ 17m	1	, 500 ml	/min-	>[2200 m	l/m \		•		
Pumping Rete	~ 12	150 M	·l/min.				/ · · · · · · · · · · · · · · · · · · ·				
. ,											İ
1510 SAM											
3 plit sample w/ Buck Env.											
-			·								

Project:	7	11174586.000	000	Site:	SCMC	ortlandville	Well I.D.:	DEC- 21	,
Date:	9 <u> 13106</u>	Samplir	ng Personnel:	Andy E	Brayman, Bol	Fabian	_ Company:	URS Corpo	ration
	g Geogung	of Initial Depth to Water:		Tubing Type: Depth to Well Bottom:			Pump/Tubing Inlet Location:	Screen mid Screen Length:	dpoint
Casing Type:		PVC		Volume in 1 Well Casing (liters):	0.84	_	Estimated Purge Volume (liters):	2,75 94	e/s
	D: <u>06(-</u>	2/ s: ۷٥५ ٢	116	Sample Time:	13.	45	QA/QC:	Nore	
Cum	or aramotor	s. <u>v v j i j</u>							
· · · · · · · · · · · · · · · · · · ·			PURGE	PARAMI	ETERS				
TIME	рН	TEMP (°C)	PURGE COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)	
Initial	7.85	TEMP (°C)	COND.	DISS. O₂ (mg/l)	TURB. (NTU)	Eh (mV)	1	WATER	
Thisial 1330	7.85	14.2	COND. (mS/cm) , 52-5	DISS. O ₂	TURB. (NTU) 2-10 6-8		(ml/min.)	WATER (btor) 22.79	
Zairia 1330 1335	7.85 7.65 7.66	14.2 13.9 14.0	COND. (mS/cm) , 52-5 , 503	DISS. O ₂ (mg/l) /0.6/ 7:24 6:67	TURB. (NTU) 2-10 6-8 5-5	162 161 161	(ml/min.)	WATER (btor)	
Initial 1330 1335 1340	7.85	14.2	COND. (mS/cm) , 52-5	DISS. O ₂ (mg/l)	TURB. (NTU) 2-10 6-8	162	(ml/min.)	WATER (btor) 22.79	
Zairia 1330 1335	7.85 7.65 7.66	14.2 13.9 14.0	COND. (mS/cm) , 52-5 , 503	DISS. O ₂ (mg/l) /0.6/ 7:24 6:67	TURB. (NTU) 2-10 6-8 5-5	162 161 161	(ml/min.)	WATER (btor) 22.79	
Initial 1330 1335 1340	7.85 7.65 7.66	14.2 13.9 14.0	COND. (mS/cm) , 52-5 , 503	DISS. O ₂ (mg/l) /0.6/ 7:24 6:67	TURB. (NTU) 2-10 6-8 5-5	162 161 161	(ml/min.)	WATER (btor) 22.79	
Initial 1330 1335 1340	7.85 7.65 7.66	14.2 13.9 14.0	COND. (mS/cm) , 52-5 , 503	DISS. O ₂ (mg/l) /0.6/ 7:24 6:67	TURB. (NTU) 2-10 6-8 5-5	162 161 161	(ml/min.)	WATER (btor) 22.79	
Initial 1330 1335 1340	7.85 7.65 7.66	14.2 13.9 14.0	COND. (mS/cm) , 52-5 , 503	DISS. O ₂ (mg/l) /0.6/ 7:24 6:67	TURB. (NTU) 2-10 6-8 5-5	162 161 161	(ml/min.)	WATER (btor) 22.79	
Initial 1330 1335 1340	7.85 7.65 7.66	14.2 13.9 14.0	COND. (mS/cm) , 52-5 , 503	DISS. O ₂ (mg/l) /0.6/ 7:24 6:67	TURB. (NTU) 2-10 6-8 5-5	162 161 161	(ml/min.)	WATER (btor) 22.79	
Initial 1330 1335 1340	7.85 7.65 7.66	14.2 13.9 14.0	COND. (mS/cm) , 52-5 , 503	DISS. O ₂ (mg/l) /0.6/ 7:24 6:67	TURB. (NTU) 2-10 6-8 5-5	162 161 161	(ml/min.)	WATER (btor) 22.79	
Initial 1330 1335 1340	7.85 7.65 7.66	14.2 13.9 14.0	COND. (mS/cm) , 52-5 , 503	DISS. O ₂ (mg/l) /0.6/ 7:24 6:67	TURB. (NTU) 2-10 6-8 5-5	162 161 161	(ml/min.)	WATER (btor) 22.79	
Initial 1330 1335 1340	7.85 7.65 7.66	14.2 13.9 14.0	COND. (mS/cm) , 52-5 , 503	DISS. O ₂ (mg/l) /0.6/ 7:24 6:67	TURB. (NTU) 2-10 6-8 5-5	162 161 161	(ml/min.)	WATER (btor) 22.79	
Initial 1330 1335 1340	7.85 7.65 7.66	14.2 13.9 14.0	COND. (mS/cm) , 52-5 , 503	DISS. O ₂ (mg/l) /0.6/ 7:24 6:67	TURB. (NTU) 2-10 6-8 5-5	162 161 161	(ml/min.)	WATER (btor) 22.79	
Initial 1330 1335 1340	7.85 7.65 7.66	14.2 13.9 14.0	COND. (mS/cm) , 52-5 , 503	DISS. O ₂ (mg/l) /0.6/ 7:24 6:67	TURB. (NTU) 2-10 6-8 5-5	162 161 161	(ml/min.)	WATER (btor) 22.79	
Initial 1330 1335 1340	7.85 7.65 7.66	14.2 13.9 14.0	COND. (mS/cm) , 52-5 , 503	DISS. O ₂ (mg/l) /0.6/ 7:24 6:67	TURB. (NTU) 2-10 6-8 5-5	162 161 161	(ml/min.)	WATER (btor) 22.79	
Initial 1330 1335 1340	7.85 7.65 7.66	14.2 13.9 14.0	COND. (mS/cm) , 52-5 , 503	DISS. O ₂ (mg/l) /0.6/ 7:24 6:67	TURB. (NTU) 2-10 6-8 5-5	162 161 161	(ml/min.)	WATER (btor) 22.79	

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 $_{\text{cyl}} = \pi l^2 h$)

10%

Remarks:

Tolerance:

SAMPLE

Project:		11174586.00000	_ Site:	SCM Cor	tlandville	Well I.D.:	DEC27
Date:	9/13/06	Sampling Personnel	Andy I	Brayman, Bob	Fabian	_ Company:	URS Corporation
Purging/ Sampling Device:	Geograp	2 w/ silicore	Tubing Type:	UPE		Pump/Tubing Inlet Location:	Screen midpoint
Measurin Point:	-		Depth to Well Bottom:		Well Diameter:	2''	Screen Length:
Casing Type:	P\	/C	Volume in 1 Well Casing (liters):	0.79		Estimated Purge Volume (liters):	
Sample II Samp	DEG 2	7 VO(5-17 <u>1</u> (5	Sample Time:	1310		QA/QC:	Vore
	- - -	PURGI	E PARAM	ETERS			

TIME	рН	TEMP (°C)	COND. (mS/cm)	DISS. O₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
Initial	7.69	15.10	,504	8,37	16	165 164 162	750	16-68
1255	7.64	14.8	1504	6.06	9.1	164		16.81
1300	7.64	14.4	,512	5.87	2.7	162		16.81
1305	4.65	14.3	,515	5.79	0	161		
					·· · · · · · · · · · · · · · · · · · ·			
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		 	, .				 	
	-	 -					h	
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 opt = nr²h)

Remarks:

								•	
Project:	 -	11174586.00	000	Site:	SCMC	ortlandville	Well I.D.:	DEC 28	
Date:	9/13/06	_ Samplii	ng Personnel:	Andy i	Brayman, Bo	b Fabian	Company:	URS Corpora	ation
Purging/ Sampling Device:	Багриту	, 2 w/s	iliwre	Tubing Type:	LDPE		Pump/Tubing Inlet Location:	Screen midp	oint
Measuring Point:	Below Top o	f Initial Depth to Water:	12.15'	Depth to Well Bottom:	17.89	✓ Well _ Diameter:	2"	Screen Length:	
Casing Type:	P	VC		Volume in 1 Well Casing	17.07	ial	Estimated Purge Volume (liters)	3ga/	
	DEC-2			Sample Time:	121.	5	_ QA/QC: _	Field Dup	DEG32D
Sampl	e Parameters:	VOCSY 1	ICs						
			PURGE	PARAM	ETERS				
TIME	рН	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (mi/min.)	DEPTH TO WATER (btor)	
In the	7.60	12.8	1-601.654	7.58	270	158	500	12.15	
1152	7.62 7.58	12.8	1637	7.94	25	159	1 1	12,20	
202	7.57	12.9	639	7,35	5,8 3,5	159	 	12.20	
1207	7.58	13.0	.638	7.31	2.6	142	† 	12.21	

	TIME	рН	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
	Ininul	7.60	1218	1601,654	7.58	270	158	500	12.15
	1152	7.62	12.8	,646	7.94	270 25 5,8	159		12,20
	1157	7.58	12.9	,637	7,35	5,8	159		12.20
	12.02	7.57	12.9	. 639	7.37	3.5	161		12.20
	1207	7.58	13.0	,638	7,31	2.6	162		12.21
	1212	7.58	13.0	,638	7,33	2.3	163	 	12.22
Sample	1215	7,58	13.1	,633	7.28	1.8	164	V	12.22
	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 $_{\rm eyl}$ = $_{\rm rl}$ 2 h)

Remarks:

Project:	9/1360	11174586.000 Samplir		Site:		ortlandville b Fablan		DE(-20	,
		f Initial Depth to Water:				Well Diameter:	Pump/Tubing Inlet Location:	Screen mid Screen Length:	lpoint
Casing Type:	Р	vc		Volume in 1 Well Casing	0.96	şeÎ	Estimated Purge Volume (liters):	3.5 gx/	,
Sample ID: Sampl	DEC.	29 : 106,4°	TIG	Sample Time:	(£:11		_ QA/QC:	Noe	
	-		PURG	E PARAM	ETERS				
TIME John 11 17 11 22 11 27 11 30 11 30 11 30 11 30 11 30 11 30 11 30 11 30 30	pH 7.65 7.43 7.43 7.42 7.42	TEMP (°C) 15.2 15.4 15.4	COND. (mS/cm) ; 649 ; 661 ; 661 ; 657 ; 653	DISS. O ₂ (mg/l) 10, C4 2:50 2:00 2:25 2:36	TURB. (NTU) 22 12 12 12 6,5 7.8	Eh (mV) 171 169 164 160 156	FLOW RATE (ml/mln.)	DEPTH TO WATER (btor)	
							1		

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 or = rr²h)

10%

Remarks:

SAMPLE

Project: Date:	9/13/06	11174586.000 Samplii	ng Personnel:	_		ortlandville b Fabian		URS Cor	
			silicone				Pump/Tubing Inlet Location:	Screen n	nidpoint
Measuring Point:	Below Top of Riser	f Initial Depth to Water:	11.45'	Depth to Well Bottom:	17.39	Well Diameter:	2 u	Screen Length:	
Casing Type:	þ	vc		Volume in 1 Well Casing (liters):	1.01	<u>f</u> 2	Estimated Purge Volume (liters):	3.25gz	1
	DE C		RC.	Sample Time:	11:06		_ QA/QC:	More	
Sample	e Parameters:	VUC.5 7 /	162						
			PURGE	PARAM	ETERS				× -
TIME	рН	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)	
In that	7.96	11:7	.648	11.85	170	156	700	11.45'	
1040	7.90	11.8	1646	11.78	20 8.4	154	 	11.47	
1050	7.88	11.8	644	11.53	4.9	160		-11: 1//- -	
105	7.89	11.8	.644	11.69	4.0	162	- 4	11.47	
		<i></i>				7.4			
							 		
							 		
									
							 		
			-						
Tolerance:	0.1		3%	10%	10%	+ or - 10			

Information: WATER VOLUMES--0.75 inch diameter weil = 87 ml/ft; 1 inch diameter weil = 154 ml/ft; 2 inch diameter weil = 617 ml/ft; 4 inch diameter weil = 2470 ml/ft; (voi cyl = rt²h)

Remarks:

Split sample w/Andy 1100 SAMPLE

URS	LAB LS.L	COOLER	ING IN FEET) OT NO. #	SAMPLE BEGINN DEPTH (ENDING THTGEO	1 1 2	1 2	・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	1 2	1 -2) '2	1 1 2	N,	1 2	1	- 3	1	500	LH - HAZARDOUS LIQUID WASTE LF - FLOATING/FREE PRODUCT ON GW TABLE	(# - SEQUENTAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)	CTIONS			
		TYPE AND PRESERVATIVE																WO - OCEAN WATER WS - SURFACE WATER WQ - WATER FIELD QC	NUMBER (FROM 1 TO 9) TO A	SPECIAL INSTRUCTIONS			
TESTS		PE AND I																WATER	- SEQUENTIAL	TIME		TIME	
		FORTE TY								-								WL - LEACHATE GS - SOIL GAS WC - DRILLING WATER		DATE		DATE	
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Õ			NO:# OF	JATOT	\sim	٧	~	\sim	~	^	۲	~	\sim	\sim	~	<u>~</u>	~	- GROUND WATER SOIL DRILL CUTTINGS	AL ENVIRON IX SPIKE	(SIGNATURE)		3 BY (sır	
ECORD		26		MATRIX	ME	MC	7M	ME	M	ME	NG	W.C.	<u>₩</u>	Š	シダ	J/M	7/M	WG - GROUND WATER SO - SOIL DC - DRILL CUTTINGS	N# - NORMAL ENVIRO MS# - MATRIX SPIKE	BY (sig		OR LA	files
C	SITE NAME SCM COMIGNOWILE	19 May 1	0	SAMPLE ID	09	DEC-04D)Ec-08	8	050	. 70		12	:-31	18-091106	0EC-13	14	Stipl-	NG WATER : WATER	RB# - RINSE BLANK FR# - FIELD REPLICATE N	IE RECEIVED	<u>پ</u>	RECEIVED FOR LAB BY (SIGNATURE)	Distribution: Original accompanies shipment, copy to coordinator field files
5	SITE N.	Bb Fabion	. AIRBIL		DEC- 6D	DEC-	<i>)JC</i>	ひてーが	IEC-	DEC- 10	.530	DEC-12	DEC-3	78-1	HE	060-	1-390	SL - SLUDGE WP - DRINKIN WW - WASTE	RB# - RIN FR# - FIEI	E TIME	34:51 70	E TIME	copy to
US		B		COMP/ GRAB	وله	B	ك	ڮ	ڻ	હ	છ	B	ربي	৬	V	Ç	\mathcal{I}	ASTE	CATE	DATE	3/17/6	DATE	nipment,
CHAIN OF CUSTODY		ATURE)	To on	TIME	71:11	14:55	15:30	01:91	16:55	17.30	C0:81	28:35	l	1	04:10	04:40	97:60	AA - AMBIENT AIR SE - SEDIMENT SH - HAZARDOUS SOLID WASTE	TB# - TRIP BLANK SD# - MATRIX SPIKE DUPLICATE	(SIGNATURE)		(SIGNATURE)	ompanies st
NI		(PRINT/SIGN,	ERVICE: \$\interlight[L]\$	DATE	90/11/b	90/11/15	90/11/16	30/III/3	9c/111/b	9/11/06	gojiilp	4112/06	90/11/16	4 fulos	dialob	4/12/p	9921/4	AA - AMBII SE - SEDII SH - HAZA		ED BY (§	2	₩	Original acc
CHA	PROJECT NO.	SAMPLERS (PRINT/SIGNATURE)	DELIVERY SERVICE:	LOCATION	03-530	DEC-310	DEC-38	066-09	050-230	Dec 10	DEC ()	14-270	Foldoc	F. ablac	Dec-13	DEC-14	M-230	MATRIX	SAMPLE TYPE CODES	RELINQUISHED BY	2/12	RELINQUISHED	Distribution: (



Life Science Laboratories, Inc. Brittonfield Lab

5000 Brittonfield Parkway, Suite 200 East Syracuse, New York 13057

(315) 437-0200

Chain of Custody

Page 2553 Comments Time: Time: \geq Analysis/Method Date: Date: Date: 577 +50p Received by Lab: Airbill Number: Received by: Received by: Bob Fabium / Bob Fabian Comp. or Grab Date: 4/12/08 Time: 19:48 Time: Sample Matrix アクラ 21/20/1/5 WB 9/12/08/16:00 WG 271 08:91 Jord/6 かん 13:40 WE 3m 52:51 20/11/6 9m 05:41 19c/z/16 on:60 pc/2//6 Date Time Collected Collected 9/126x 10:30 9/12/66 13:05 9/12/08/11:10 4:10 Phone # 7/6) Date: Date: Sample Description 90/21/6 19921/B 3/12/K Sampled by: And, Bleymen / and M Client Contact: I'm Marie Khowitch DEC-14 MSD Project: 52,77 Coff lands: 1/2 Sample Location 13-041206 Relinquished by: ${\cal K}$ Client: URS Shipment Method: EC-7115 Relinquished by: Relinquished by: びで三 DEC-031 76-22 DEC-19 D6-20 し に り FieldOC アウス リアシーバ

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Routine Rush (Specify)

Cooler Temperature:_

Comments:

Original - Laboratory Copy - Client



Life Science Laboratories, Inc. Brittonfield Lab

5000 Brittonfield Parkway, Suite 200 East Syracuse, New York 13057

(315)437-0200

Chain of Custody

Page 3 of 3 Comments Time: Time: Time: Analysis/Method Date: Date: Date: STIL+ SON Received by Lab: Airbill Number: Date:4//2/06 Time:19:44 Received by: Received by: Comp. No. of or Grab Containers Bol Fabian Boltsduain Frome # (316) 923-1137 Time: Sample Matrix 6 Date Time Collected Collected Date: Date: Sample Description 90p1/5 90/11/5 Client Contact: A. Morie Kiopovitch Sampled by: Andy Bloymen / Ou N Project: SCM Contandville Sample Location EC-025 - M DEC-025 11501 Relinquished by: $\mathcal L$ Shipment Method: Client: 4R5 Relinquished by: Relinquished by:

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Routine Rush (Specify)

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	۱۵۰۰ تارخ		BOTTLE TYPE AN		olden	5									8	3			WL - LEACHATE GS - SOIL GAS WC - DRILLING WATER		DATE TIME	URE) DATE TIME	cr temp	
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2	SITE NAME		Bd 55,00 / En	- []	SAMPLE (D	F0-230	RB-0970%	Mw-055	RCS)	06.29	DEC 28	06629	Dec 24	りから	MW-325	たっぱ	26.6.32 0	TR-09/306	SL - SLUDGE WP - DRINKING WATER WW - WASTE WATER	RB# - RINSE BLANK FR# - FIELD REPLICATE	TIME RECEIVED	TIME RECEIVED	Distribution: Original accompanies shipment, copy to coordinator field files	
CUST	N V		E. C.		COMP/ GRAB	Ų	5	\.	0	دن	2 0 15	145	G	ڻ	Vb	6 0	D				DATE 5/2/2	DATE	s shipment, co	
CHAIN OF CUSTODY	00000	(PRINT/SIGNATURE)	a that let 1	DELIVERY SERVICE: Die S	DATE TIME	S. C. 32:30	1000	direct 10.5	525	4/13.56 11:30	136 23	13/08 13/10	3/26 1345	4 18 C. C. C. C. C. C.	91:91 70/8	9/20/ 17:15	1.30c	4/1966	AA - AMBIENT AIR SE - SEDIMENT SH - HAZARDOUS SOLID WASTE	TB# - TRIP BLANK SD# - MATRIX SPIKE DUPLICATE	BY (SIGNATURE)	BY (SIGNATURE)	inal accompanies	
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URS	LAB	COOLERof	(T3=1 NI) (T3=1 NI) (T3=1 NI)	SAMPLE SEGINN SEGINN SEGINN	1	3	1 2	i CV	V.						LH - HAZARDOUS LIQUID WASTE LF - FLOATING/FREE PRODUCT ON GW TABLE	(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)	TIONS				
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CHAIN OF CUSTODY R			J. S. C. C.	COMP/	2 800 1	39.26									AA - AMBIENT AIR SE - SEDIMENT SH - HAZARDOUS SOLID WASTE	TB# - TRIP BLANK SD# - MATRIX SPIKE DUPLICATE	BY (SIGNATURE) DATE	(SIGNATURE) DATE	٠	Distribution: Original accompanies shipment, copy to coordinator	
CHAIN	PROJECT NO.	SAMPLERS (PRINT/SIGNATURE)	DELIVERY SERVICE:	LOCATION IDENTIFIER DATE	12 - 13 Contract		Company of the contraction								MATRIX AA-/ CODES SE-8 SH-1	SAMPLE 18# -	RELINQUISHED BY	RELINOLISHED BY (SIGNATURE)		Distribution: Original	SF-075C/1 OF 1/CofCR/GCM

APPENDIX D INVESTIGATION DERIVED WASTE MANIFESTS



FRANK'S VACUUM TRUCK SERVICE, INC.

NYDEC #9A-332 EPA ID # NYD982792814

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4500 Royal Avenue • Niagara Falls, New York 14303 (716) 284-2132

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SHIPPERS CERTIFICATION: Thereby his stroke my propor shipping name and the closurolition for managing by nights ay accorde	clare that the contents of this consignment are fully and a assified, packed, marked, and labeled, and uro in kit no no to applicable, it emellor at and naminal government to	coustely described art's in proper gaintions. II, THE UNDERSIGNED, INFORMATION IS TRUE	CERTIFY THAT THE ABOVE
SHIPPERS CERTIFICATION: Tracely do shake by propor pispeng rame and one of condition for transport by high say avcorbe	clere that the contents of this consignment are tolly and a assified, packed, marked, and tabeled, but one with a p of to applicable international and national government to TITLE	ients in proper I, THE UNDERSIGNED,	



FRANK'S VACUUM TRUCK SERVICE, INC.

4500 Royal Avenue • Niagara Falls, New York 14303 (716) 284-2132

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NYDEC #9A-332 EPA ID # NYD982792814

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SHIPPERS CERTIFICATIO	ON: I hereby deciare	that the contents of this consignment a fied, packed, marked, and labeled, and applicable international and national gr	are fully and accurately describe	I THE LINDERSIGNED	, CERTIFY THAT THE ABOVE	
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