

# 2007 ANNUAL MONITORING REPORT

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## NIAGARA COUNTY REFUSE DISTRICT SITE

Wheatfield, Niagara County, New York

(NYSDEC Site No. 9-32-026)

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SUBMITTED TO:



UNITED STATES  
ENVIRONMENTAL PROTECTION  
AGENCY



NEW YORK STATE  
DEPARTMENT OF  
ENVIRONMENTAL CONSERVATION

SUBMITTED BY:

**Niagara County Refuse District and PRP Group**

PREPARED BY:

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February 2008

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*Submitted To:*

**The New York State Department  
of Environmental Conservation  
Division of Hazardous Waste Remediation**

**and**

**United States Environmental Protection Agency**

*Submitted By:*

**Niagara County Refuse District and PRP Group**

*Prepared By:*

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**February 2008**

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# **SECTION 1**

## **INTRODUCTION**

### **1.1 INTRODUCTION**

In accordance with the United States Environmental Protection Agency (USEPA) Record of Decision (USEPA, 1993), the United States District Court Consent Decree (USA, 1995), and the USEPA approved Operation, Maintenance, and Monitoring (OM&M) Manual (CRA, 2000), the Niagara County Refuse Site PRP Group performed a remedial action at the Niagara County Refuse Site (Site), Wheatfield, New York. The PRP Group is currently providing operations, maintenance, and monitoring (OM&M). This seventh Annual Monitoring Report summarizes monitoring activities from January through December 2007.

The Site is a former municipal landfill comprised of approximately 60 acres, located along the eastern border of the Town of Wheatfield, New York, and the western border of the City of North Tonawanda, New York. The southern edge of the Site lies approximately 500 feet north of the Niagara River. A perimeter collection system (PCS) and a perimeter barrier system are used to prevent offsite migration of contamination. These systems began operation in November of 2000.

### **1.2 PROCEDURES**

#### **1.2.1 Groundwater Sampling Procedure**

Based on the OM&M Manual (CRA, 2000), groundwater sample collection was completed quarterly from the four monitoring wells at the Site for the first two years after PCS startup. The four wells are screened in the shallow overburden materials. Groundwater sampling on a quarterly schedule was completed in 2002, two years post-PCS startup. In accordance with the OM&M Manual, three years of semi-annual groundwater sampling were completed by 2005, five years after PCS startup. The first year of sampling groundwater on an annual schedule was begun in 2006. Samples were scheduled to be collected from wells NCR-3S, NCR-4S, NCR-5S, and NCR-13S in October 2007, but due to the lack of water in the wells, no groundwater samples were collected. The USEPA agreed that groundwater sampling should be delayed until there was adequate water present for sample collection (see email from USEPA to Parsons dated December 11, 2007 in Appendix B). Groundwater samples were collected in January 2008, when it was determined that there was adequate water levels in the wells. The results of the January 2008 groundwater sampling will be presented in the first quarter monitoring report in 2008. Annual groundwater sampling is scheduled to continue for an undetermined time period, assuming that water level conditions permit collection of groundwater samples.

A request was submitted to the USEPA and NYSDEC in 2005 to reduce the analytical parameters in each of the groundwater samples collected. The request proposed reducing groundwater laboratory analysis to five metals that have historically been identified as exceeding standards in the shallow groundwater at the Site. The elimination of analysis for VOCs and SVOCs was also proposed. The USEPA agreed, after discussions with the

NYSDEC and input from NYSDOH, to reduce the collection of volatile and semi-volatiles to every two years beginning in 2006 (every other groundwater sampling event). The USEPA requested that inorganic parameters continue to be analyzed for each groundwater sampling round. The basis for this decision was stated to be the significant residential growth around the Site in recent years.

### **1.2.2 Effluent Sampling Procedure**

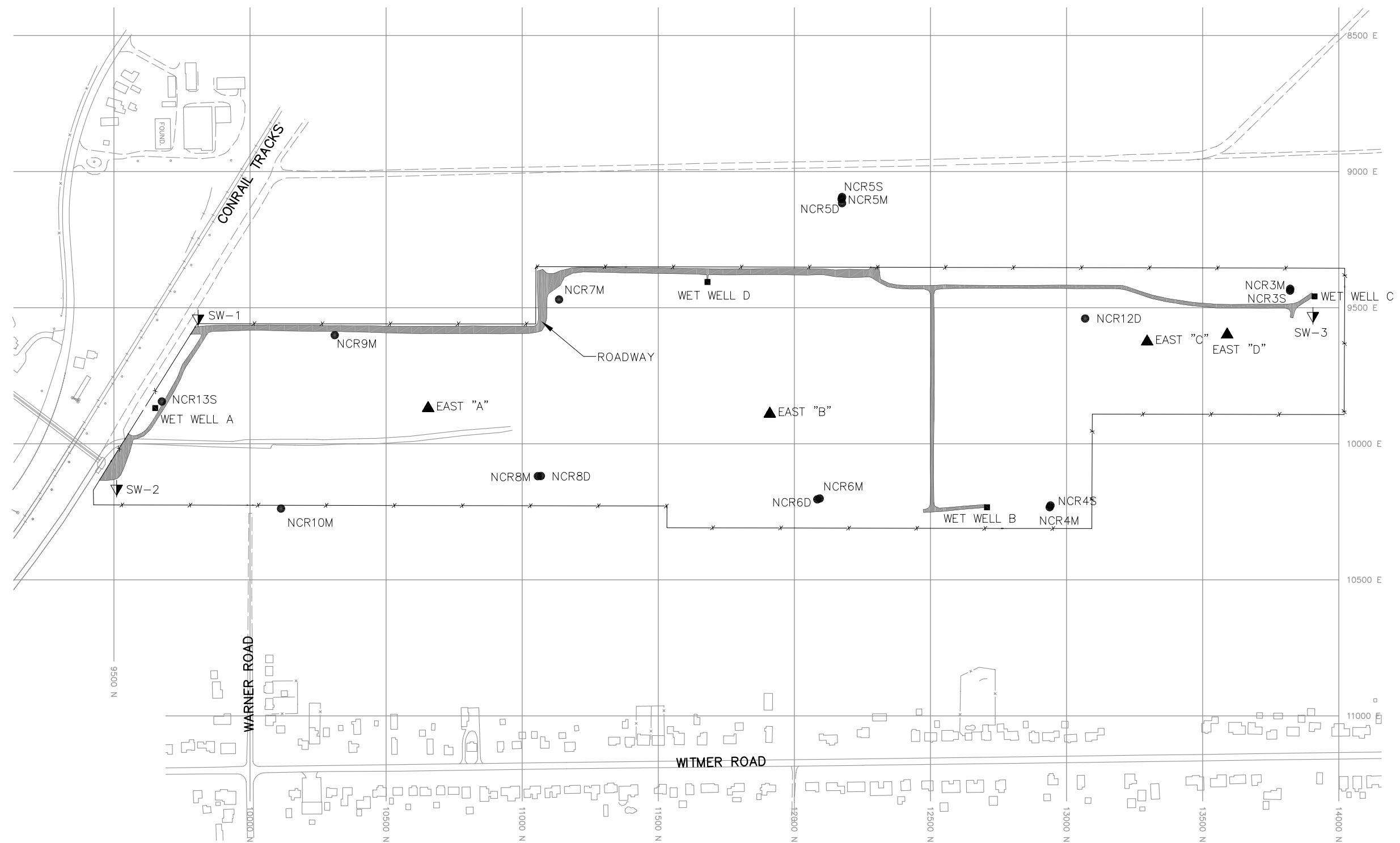
Groundwater from the perimeter collection system is discharged to the City of North Tonawanda treatment system without pre-treatment. A monitoring station in Wet Well A allows both the effluent water quality and the volume of effluent to be verified by the City of North Tonawanda. In compliance with the City of North Tonawanda Industrial Wastewater Discharge Permit, the effluent was sampled monthly through February 2007. A revised Industrial Wastewater Discharge Permit (Appendix A) was issued by the City of North Tonawanda that became effective on February 28, 2007 and expires on April 1, 2010. The revised permit has a reduced analytical parameter list compared to the original permit, and a semi-annual sampling frequency. A semi-annual sample was collected in September 2007. The effluent samples are collected in compliance with the OM&M Manual (CRA, 2000) and are analyzed by the City of North Tonawanda. The sole purpose of these analyses is for compliance with the Industrial Wastewater Discharge Permit.

### **1.2.3 Water Levels**

Water levels were measured in four monitoring well locations inside the limits of the landfill, and four effluent monitoring locations. Water level measurements were collected monthly during 2007. The water levels were measured with an electronic water level indicator, and reported as an elevation above mean sea level. Figure 1.1 shows the locations of the water level monitoring points.

### **1.2.4 Site Inspections**

The Site was inspected by O&M Enterprises, Inc. on a monthly basis, in accordance with procedures in the OM&M Manual. The perimeter collection system, offsite force main, wetlands, perimeter fence, drainage ditches, swale outlets, culverts, gas vents, wells, and landfill cap were visually inspected.



## LEGEND

- |              |   |
|--------------|---|
| ▲ EAST "A"   | WATER LEVEL MONITORING WELL LOCATION    |
| ▼ SW-2       | SURFACE WATER MONITORING LOCATION       |
| ■ WET WELL A | EFFLUENT MONITORING LOCATION            |
| ● NCR13S     | GROUNDWATER QUALITY MONITORING LOCATION |

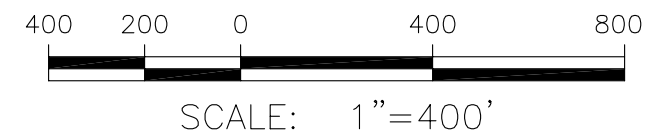


FIGURE 1.1

NIAGARA COUNTY REFUSE SITE  
WHEATFIELD, NEW YORK  
SITE PLAN

**PARSONS**

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## **SECTION 2 RESULTS**

### **2.1 ANALYTICAL RESULTS**

#### **2.1.1 Effluent Samples**

Effluent samples were collected in January, February, and September 2007 by O&M Enterprises, Inc. and analyzed by the City of North Tonawanda. The analytical results from these samples were used by the City to confirm that the effluent received from the Site met the criteria for acceptance by the City treatment system. All analytical results were found to be compliant with the discharge permit. A revised Industrial Wastewater Discharge Permit was issued by the City of North Tonawanda and is effective from February 28, 2007 through April 1, 2010. As can be seen in the revised permit, the analytical parameters and the sampling frequency have been reduced from the original permit. Effluent analytical results and the revised permit are presented in Appendix A.

#### **2.1.2 Groundwater Analytical Results**

Groundwater sampling was scheduled for October 2007, but was not completed due to the lack of adequate water in the wells. Water levels were checked in the wells periodically through the end of the reporting period; however, adequate levels were not present to complete the groundwater sampling event. The USEPA agreed that groundwater sampling should be delayed until adequate water was present in the wells for sample collection (see email from USEPA to Parsons dated December 11, 2007 in Appendix B). Groundwater samples were collected in January 2008. The analytical results of the January sampling will be presented in the quarterly monitoring report covering the first quarter of 2008. This reporting period includes months 75 to 86, since the start-up of the perimeter collection system in November 2000. The collection of quarterly and semi-annual groundwater samples has been completed as outlined in the OM&M Manual (CRA, 2000). Annual collection of groundwater samples began in 2006. Groundwater sample analytes are currently scheduled to include inorganic parameters (metals) annually, and volatile organic and semivolatile organic parameters every two years, as approved by the USEPA (see Appendix B).

### **2.2 SITE INSPECTIONS**

Monthly Site inspections were conducted between January and December 2007. During the inspections, the perimeter collection system, offsite force main, manholes, wet wells, landfill cap, wetlands, perimeter fence, drainage ditches, swale outlets, culverts, gas vents, and monitoring wells were each visually inspected. A summary of the inspection findings is included in Table 2.1. Copies of the Monthly Inspection Logs have been included in Appendix C.

Each of the inspections found the manholes and wet wells to be in good condition. Water levels in the wet wells were measured during each inspection visit. Examination of



the landfill cap vegetative cover included checking for erosion, bare areas, washouts, leachate seeps, length of vegetation, and dead/dying vegetation. Additionally, during the examination of the landfill cap, the access roads were examined for bare areas, dead/dying vegetation, erosion, potholes/puddles, and obstructions. No surface erosion, bare spots, or leachate seeps were noted. The landfill cap was noted to be covered with snow during the January and February site inspections. The cover vegetation was noted to be low, typical for the early part of the year, in March, April, and May, then normal in June. From July through December, the cover vegetation was low, mainly due to the lower than normal amount of precipitation during the time period. Mowing of the cap was completed in September.

Post-construction monitoring of the wetland replacement was performed annually between 2001 and 2005. Monitoring results indicated that the wetland creation was successful. Although the formal annual inspections are no longer required, monthly visual inspection of the wetlands will continue, to document general conditions.

The wetlands were visually examined during monthly inspections for growth and propagation of wetland species, dead/dying vegetation, presence of invasive species (i.e., purple loosestrife), change in water budget, and general conditions. No signs of damage to the wetlands due to loss of vegetation, or changes in the water budget, were observed during each of the inspections. Water levels in the wetlands were noted as slightly high in January and May, slightly low in June, and low from July through the remainder of the year due to the drier than normal conditions. Water level conditions were lowest during the October and November Site inspections. Typical winter vegetative conditions were observed from January through April, and conditions were noted as good during the May through September inspections. October and November inspections noted dead and dying wetlands vegetation due to the low water levels, but the vegetation returned to normal in December.

A single hole cut in the perimeter fence was noted in January, February, and April. On each occasion, the Niagara County Sheriff's Department was notified, a police report was completed, and the hole was repaired. A hole was also identified in the perimeter fence in November. Again, the Sheriff's Department was called but did not respond, and no police report was completed. In December, a lock and chain was identified as missing from the gate on the east side of the landfill at the end of Werner Avenue. The lock and chain was replaced, and the Niagara County Sheriff's Department was notified.

All other parts of the landfill system, including the perimeter fence, drainage ditches, swale outlets, culverts, gas vents, and monitoring wells were found to be in acceptable condition.

## **2.3 MAINTENANCE**

Scheduled maintenance during this reporting period included:

- Replacement of level control float switches in Wet Well C.
- Periodic pulling, cleaning, and reinstalling the pumps in the wet wells.
- Cutting small trees, brush, and weeds along the inside of the perimeter fence line.
- Replacement of vandalized signs (Restricted Area – Authorized Personnel Only) around the perimeter of the site.

- Replacement of the vandalized security light on the exterior of the control building.
- Removal of float switches in wet well A and replacement with new float switches.
- Mowing the landfill cap.

Occasional unscheduled maintenance at the landfill is required. During this reporting period, several items requiring unscheduled maintenance were addressed.

- On January 4, a faulty level control float switch was repaired in wet well C.
- On January 23, a float control switch that had stuck on wet well C was repaired.
- On February 9, a hole cut in the perimeter fence was repaired, and a police report (Niagara County Sheriff's Department number 6481) was filed.
- On March 30, a hole cut in the perimeter fence was temporarily repaired and police report (Niagara County Sheriff's Department number 14490) was filed.
- On April 3, a stuck float switch was repaired at wet well A.
- On April 10, a section of fence that was damaged on the west side of the site was replaced. This is the section that had a hole identified on March 30, 2007.
- On May 11, vandalism, including bent locking mechanism on a gate, broken light on the control building, and damaged and removed perimeter signs was identified, and the Niagara County Sheriff's Department was called (report number 21094). The gate was repaired on May 11 using a chain and padlock.
- On July 26, the hinge pins to a gate on the north side of the landfill had been removed. It appeared that access to the Site had not been gained. The hinge pins were reinstalled.
- On August 3, the hinge pins that were removed on July 26 were modified with a locking chain to increase site security.

Maintenance Record Logs are included in Appendix D.

## **2.4 WATER LEVELS**

Monthly water level measurements were collected to (1) ensure that water levels inside the landfill are lowered by the operation of the perimeter collection system (Table 2.2); and (2) allow planning for groundwater sampling dates, when the maximum number of wells could be sampled. Water levels were collected from the wet wells, the piezometers (hydraulic monitoring locations) within the limits of the landfill, and the groundwater monitoring wells (see Figure 1.1). Water levels in the wet wells were collected during the monthly inspections and recorded on water level records (Appendix E). During 2007, water levels were collected from the monitoring wells on a monthly basis. Additional water level measurements were collected from the wells in October, November, and December to evaluate the potential for collecting groundwater samples. The additional water levels were not recorded. Water levels generally varied between 2 and 5 feet over the course of the year.

Dry wells were more frequently encountered in the second half of 2007 than in previous years. In September and December all four of the measured wells were dry and in August, October, and November, three wells were dry when measured. Two of the four wells were found to be dry when measured in July.

**Table 2.1 Monthly Site Inspection Results**

Inspection Item	Acceptable	Not Acceptable	Comments
Manholes	X		
Wet Wells	X		Water levels were measured monthly.
Wetlands	X		Continued growth of target vegetation. A slightly higher than normal water level was noted during the January and May inspections. A slightly lower water level was noted during the June inspection. Water levels were low from July through December, with the lowest water levels encountered in October and November.
Perimeter Fence	X		Minor repairs were required to the fence and gates in 2007.
Condition of Roads	X		No erosion or other problems.
Integrity of the Cap	X		No problems were noted in 2007.
Drainage Ditches/Swales	X		
Gas Venting System	X		
Wells	X		
Culverts	X		
Vegetative Cover	X		The vegetative cover was covered in snow during the January and February inspections. Height of vegetation on the cap was noted as low during the March, April, May, and July through December inspections. The cap was mowed after the September 2007 inspection.

**Table 2.2**  
**Niagara County Refuse Site**  
**Water Level Measurements**

Observation Point	Elevation	12/5/2000		1/8/2001		2/1/2001		3/8/2001		4/4/2001		5/8/2001		6/5/2001		7/2/2001		8/1/2001		9/5/2001		10/4/2001		11/5/2001		12/11/2001	
	Top of Casing (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)
East "A"	598.93	22.05	576.88	-	-	-	-	21.34	577.59	-	-	22.21	576.72	21.98	576.95	-	-	22.51	576.42	22.63	576.30	22.61	576.32	22.74	576.19	22.88	576.05
East "B"	596.23	19.12	577.11	-	-	-	-	19.35	576.88	-	-	19.23	577.00	19.30	576.93	-	-	20.50	575.73	19.44	576.79	19.22	577.01	19.36	576.87	19.44	576.79
East "C"	598.69	17.46	581.23	-	-	-	-	17.86	580.83	-	-	18.37	580.32	18.38	580.31	-	-	18.65	580.04	18.64	580.05	18.20	580.49	18.80	579.89	18.75	579.94
East "D"	593.20	11.10	582.10	-	-	-	-	12.45	580.75	-	-	12.86	580.34	12.79	580.41	-	-	13.00	580.20	12.8	580.40	12.24	580.96	12.74	580.46	12.94	580.26
WW A	-	2.50	-	2.67	-	2.33	-	1.13	-	2.29	-	1.83	-	2.17	-	1.58	-	1.83	-	-	-	1.83	-	2.33	-	2.08	-
WW B	-	2.20	-	2.42	-	1.96	-	1.09	-	1.79	-	2.17	-	1.92	-	1.50	-	2.00	-	1.92	-	1.58	-	1.50	-	2.08	-
WW C	-	1.50	-	2.42	-	1.70	-	0.92	-	2.04	-	2.00	-	1.67	-	1.33	-	2.08	-	2.33	-	1.25	-	2.00	-	1.58	-
WW D	-	1.70	-	-	-	1.50	-	0.99	-	1.08	-	1.50	-	1.33	-	2.0	-	1.25	-	2.25	-	2.00	-	2.08	-	1.33	-
NCR-3S	579.60	-	-	-	-	-	-	-	-	-	-	-	-	3.71	575.89	-	-	dry	-	dry	-	dry	-	5.10	574.50	4.64	574.96
NCR-4S	577.88	-	-	-	-	-	-	-	-	-	-	-	-	4.28	573.60	-	-	dry	-	dry	-	dry	-	4.51	573.37	3.92	573.96
NCR-5S	579.34	-	-	-	-	-	-	-	-	-	-	-	-	9.10	570.24	-	-	dry	-	dry	-	dry	-	dry	-	dry	-
NCR-13S	577.15	-	-	-	-	-	-	-	-	-	-	-	-	7.05	570.10	-	-	7.85	569.30	7.80	569.35	7.70	569.45	6.65	570.50	6.11	571.04

**Table 2.2**  
**Niagara County Refuse Site**  
**Water Level Measurements**

Observation Point	Elevation	1/2/2002		2/4/2002		3/4/2002		4/1/2002		5/3/2002		6/4/2002		7/2/2002		8/7/2002		9/6/2002		10/3/2002		11/7/2002		12/3/2002	
	Top of Casing (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)
East "A"	598.93	22.90	576.03	22.81	576.12	22.03	576.90	22.25	576.68	20.06	578.87	19.84	579.09	22.00	576.93	22.65	576.28	22.78	576.15	28.48	570.45	23.25	575.68	23.36	575.57
East "B"	596.23	19.63	576.60	19.39	576.84	19.46	576.77	19.49	576.74	19.44	576.79	20.59	575.64	19.56	576.67	19.40	576.83	19.40	576.83	19.46	576.77	19.35	576.88	-	-
East "C"	598.69	18.70	579.99	18.51	580.18	18.70	579.99	18.63	580.06	18.80	579.89	18.74	579.95	18.78	579.91	18.95	579.74	18.92	579.77	18.99	579.70	19.30	579.39	19.35	579.34
East "D"	593.20	13.16	580.04	12.95	580.25	13.3	579.90	13.35	579.85	13.50	579.70	13.73	579.47	13.74	579.46	13.81	579.39	13.58	579.62	14.01	579.19	13.2	580.00	13.54	579.66
WW A	-	1.17	-	2.17	-	1.67	-	2.00	-	2.00	-	2.17	-	1.50	-	2.50	-	1.83	-	1.50	-	1.42	-	2.00	-
WW B	-	1.00	-	2.00	-	1.25	-	1.33	-	1.67	-	2.00	-	1.58	-	1.67	-	1.42	-	1.33	-	1.17	-	1.25	-
WW C	-	1.50	-	1.42	-	1.58	-	1.50	-	1.83	-	1.25	-	1.67	-	2.17	-	1.50	-	1.33	-	1.25	-	1.50	-
WW D	-	1.50	-	1.00	-	1.42	-	1.17	-	1.58	-	1.50	-	1.92	-	2.00	-	1.67	-	2.00	-	1.33	-	1.50	-
NCR-3S	579.60	4.54	575.06	4.52	575.08	3.90	575.70	4.10	575.50	4.43	575.17	5.20	574.40	5.71	573.89	5.90	573.70	dry	-	5.91	573.69	dry	-	4.46	575.14
NCR-4S	577.88	3.71	574.17	3.70	574.18	3.80	574.08	3.66	574.22	3.75	574.13	4.02	573.86	4.45	573.43	dry	-	dry	-	dry	-	dry	-	3.95	573.93
NCR-5S	579.34	8.42	570.92	7.69	571.65	7.68	571.66	7.61	571.73	8.28	571.06	9.10	570.24	9.52	569.82	dry	-	dry	-	dry	-	dry	-	dry	-
NCR-13S	577.15	5.85	571.30	5.76	571.39	5.74	571.41	5.81	571.34	6.07	571.08	6.27	570.88	7.25	569.90	7.57	569.58	dry	-	7.78	569.37	dry	-	6.40	570.75

**Table 2.2**  
**Niagara County Refuse Site**  
**Water Level Measurements**

Observation Point	Elevation		1/6/2003		2/5/2003		3/6/2003		4/2/2003		5/5/2003		6/5/2003		7/1/2003		8/11/2003		9/2/2003		10/8/2003		11/12/2003		12/6/2003	
	Top of Casing (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	
East "A"	598.93	23.48	575.45	23.51	575.42	23.65	575.28	23.75	575.18	23.81	575.12	23.25	575.68	23.11	575.82	23.25	575.68	23.41	575.52	23.35	575.58	23.71	575.22	23.85	575.08	
East "B"	596.23	19.53	576.70	19.40	576.83	19.59	576.64	19.61	576.62	19.70	576.53	19.66	576.57	19.77	576.46	19.58	576.65	19.64	576.59	19.59	576.64	19.65	576.58	NA	NA	
East "C"	598.69	18.82	579.87	19.11	579.58	18.99	579.70	19.07	579.62	18.98	579.71	19.00	579.69	19.39	579.30	19.19	579.50	19.25	579.44	19.24	579.45	18.81	579.88	19.27	579.42	
East "D"	593.20	13.24	579.96	13.52	579.68	13.7	579.50	13.88	579.32	14.15	579.05	14.07	579.13	14.31	578.89	14.04	579.16	14.04	579.16	13.97	579.23	13.64	579.56	14.02	579.18	
WW A	-	1.42	-	1.25	-	1.50	-	1.42	-	1.58	-	1.33	-	1.33	-	1.17	-	1.42	-	1.33	-	2.00	-	1.33	-	
WW B	-	1.08	-	1.17	-	1.67	-	1.17	-	0.75	-	1.25	-	1.42	-	1.50	-	1.50	-	1.17	-	1.42	-	1.67	-	
WW C	-	1.33	-	1.50	-	1.25	-	1.33	-	1.50	-	1.42	-	1.00	-	1.08	-	1.08	-	1.08	-	1.00	-	1.67	-	
WW D	-	1.42	-	1.67	-	1.08	-	1.25	-	1.50	-	1.50	-	1.25	-	1.58	-	1.33	-	1.50	-	1.58	-	1.50	-	
NCR-3S	579.60	3.84	575.76	4.06	575.54	4.55	575.05	4.39	575.21	4.39	575.21	4.41	575.19	5.80	573.80	5.92	573.68	dry	NA	dry	NA	4.45	575.15	4.24	575.36	
NCR-4S	577.88	2.91	574.97	-	-	-	-	3.65	574.23	3.60	574.28	2.65	575.23	4.05	573.83	3.98	573.90	dry	NA	4.37	573.51	2.93	574.95	2.88	575.00	
NCR-5S	579.34	7.95	571.39	8.69	570.65	8.11	571.23	7.66	571.68	8.58	570.76	8.08	571.26	9.26	570.08	10.12	569.22	10.95	568.39	dry	NA	10.40	568.94	8.11	571.23	
NCR-13S	577.15	5.89	571.26	5.54	571.61	6.16	570.99	6.05	571.10	6.13	571.02	6.11	571.04	7.21	569.94	7.48	569.67	7.59	569.56	7.77	569.38	6.35	570.80	6.07	571.08	

**Table 2.2**  
**Niagara County Refuse Site**  
**Water Level Measurements**

Observation Point	Elevation		1/2/2004		2/5/2004		3/1/2004		4/5/2004		5/4/2004		6/11/2004		7/10/2004		8/9/2004		9/8/2004		10/2/2004		11/4/2004		12/3/2004	
	Top of Casing (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	
East "A"	598.93	23.90	575.03	23.93	575.00	24.00	574.93	23.26	575.67	22.14	576.79	19.44	579.49	19.19	579.74	20.70	578.23	23.31	575.62	23.34	575.59	22.44	576.49	22.48	576.45	
East "B"	596.23	19.83	NA	NA	NA	NA	NA	19.60	576.63	19.65	576.58	19.81	576.42	19.75	576.48	19.85	576.38	19.68	576.55	19.53	576.70	17.51	578.72	17.49	578.74	
East "C"	598.69	19.12	579.57	19.79	578.90	19.22	579.47	19.36	579.33	19.24	579.45	19.42	579.27	19.28	579.41	19.56	579.13	19.48	579.21	19.36	579.33	18.95	579.74	18.94	579.75	
East "D"	593.20	13.9	579.30	14.52	578.68	14.11	579.09	14.05	579.15	14.25	578.95	14.5	578.70	14.4	578.80	14.64	578.56	14.3	578.90	14.18	579.02	14.05	579.15	14.01	579.19	
WW A	-	1.58	-	1.17	-	2.17	-	0.75	-	1.25	-	1.50	-	1.25	-	1.25	-	1.33	-	1.25	-	1.42	-	1.67	-	
WW B	-	1.33	-	NA	-	1.50	-	1.30	-	1.17	-	1.17	-	1.17	-	1.25	-	1.00	-	1.00	-	1.17	-	0.42	-	
WW C	-	1.08	-	1.00	-	1.17	-	1.17	-	1.00	-	1.08	-	1.17	-	1.08	-	1.17	-	1.17	-	1.58	-	0.25	-	
WW D	-	1.17	-	1.08	-	1.67	-	0.65	-	1.50	-	1.33	-	1.00	-	1.00	-	1.25	-	1.00	-	1.17	-	0.25	-	
NCR-3S	579.60	4.11	575.49	4.21	575.39	3.19	576.41	4.09	575.51	3.37	576.23	4.92	574.68	dry	-	4.36	575.24	5.44	574.16	dry	-	2.42	577.18	3.06	576.54	
NCR-4S	577.88	2.65	575.23	2.72	575.16	2.42	575.46	2.53	575.35	2.76	575.12	2.99	574.89	3.74	574.14	3.50	574.38	3.32	574.56	3.65	574.23	2.74	575.14	2.75	575.13	
NCR-5S	579.34	7.53	571.81	8.34	571.00	7.01	572.33	7.10	572.24	7.99	571.35	8.80	570.54	9.20	570.14	9.40	569.94	9.20	570.14	9.28	570.06	9.90	569.44	7.27	572.07	
NCR-13S	577.15	5.72	571.43	5.95	571.20	5.88	571.27	5.49	571.66	6.08	571.07	6.22	570.93	7.08	570.07	7.09	570.06	6.75	570.40	7.16	569.99	5.95	571.20	4.28	572.87	



**Table 2.2**  
**Niagara County Refuse Site**  
**Water Level Measurements**

Observation Point	Elevation	1/5/2005		2/3/2005		3/9/2005		4/2/2005		6/4/2005		7/6/2005		8/4/2005		9/3/2005		10/7/2005		12/10/2005	
	Top of Casing (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)
East "A"	598.93	24.20	574.73	21.21	577.72	19.45	579.48	22.21	576.72	22.19	576.74	23.24	575.69	23.49	575.44	23.57	575.36	24.07	574.86	24.47	574.46
East "B"	596.23	19.68	576.55	19.52	576.71	19.79	576.44	19.66	576.57	19.97	576.26	19.89	576.34	19.96	576.27	19.70	576.53	19.51	576.72	19.50	576.73
East "C"	598.69	19.60	579.09	19.42	579.27	19.33	579.36	19.15	579.54	19.71	578.98	19.76	578.93	19.57	579.12	19.51	579.18	19.65	579.04	19.39	579.30
East "D"	593.20	14.2	579.00	14.35	578.85	13.89	579.31	14.29	578.91	14.68	578.52	14.64	578.56	14.62	578.58	14.47	578.73	14.4	578.80	14.24	578.96
WW A	-	0.58	-	1.08	-	0.50	-	1.00	-	1.00	-	1.00	-	1.25	-	1.17	-	1.33	-	1.50	-
WW B	-	1.50	-	1.17	-	0.83	-	1.25	-	1.17	-	1.50	-	1.42	-	0.92	-	1.17	-	1.17	-
WW C	-	0.67	-	1.00	-	1.00	-	1.00	-	1.25	-	0.92	-	1.25	-	1.00	-	1.00	-	0.83	-
WW D	-	1.25	-	1.25	-	1.00	-	1.17	-	1.33	-	0.92	-	1.50	-	1.00	-	1.08	-	1.08	-
NCR-3S	579.60	1.82	577.78	3.39	576.21	3.11	576.49	1.50	578.10	5.93	573.67	dry		5.96	573.64	dry		5.63	573.97	4.21	575.39
NCR-4S	577.88	2.60	575.28	3.08	574.80	frozen		2.51	575.37	3.87	574.01	dry		dry		dry		3.69	574.19	2.99	574.89
NCR-5S	579.34	5.46	573.88	6.57	572.77	6.14	573.20	6.36	572.98	8.10	571.24	10.60	568.74	dry		dry		dry		8.17	571.17
NCR-13S	577.15	3.60	573.55	5.14	572.01	4.34	572.81	3.19	573.96	6.59	570.56	7.52	569.63	7.79	569.36	dry		7.21	569.94	6.06	571.09

**Table 2.2**  
**Niagara County Refuse Site**  
**Water Level Measurements**

Observation Point	Elevation		1/13/2006		2/10/2006		3/3/2006		4/8/2006		5/1/2006		6/7/2006		7/14/2006		8/8/2006		9/18/2006		10/7/2006		11/3/2006		12/1/2006	
	Top of Casing (ft. msl)		Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)
East "A"	598.93		24.55	574.38	24.68	574.25	24.72	574.21	24.22	574.71	24.81	574.12	23.53	575.40	24.77	574.16	24.23	574.70	24.68	574.25	24.78	574.15	24.74	574.19	24.53	574.40
East "B"	596.23		19.45	576.78	19.85	576.38	19.87	576.36	19.86	576.37	21.10	575.13	19.80	576.43	19.79	576.44	19.84	576.39	19.51	576.72	19.80	576.43	19.86	576.37	18.80	577.43
East "C"	598.69		19.28	579.41	19.75	578.94	19.84	578.85	19.77	578.92	20.09	578.60	19.69	579.00	19.71	578.98	19.66	579.03	19.37	579.32	20.78	577.91	20.03	578.66	19.26	579.43
East "D"	593.20		14.15	579.05	14.48	578.72	14.44	578.76	14.46	578.74	14.74	578.46	14.87	578.33	14.83	578.37	14.71	578.49	14.45	578.75	14.95	578.25	14.67	578.53	14.45	578.75
WW A	-		1.17	-	1.17	-	1.17	-	1.00	-	1.25	-	1.25	-	1.00	-	1.17	-	1.17	-	1.17	-	1.08	-	1.33	-
WW B	-		0.83	-	1.17	-	0.92	-	1.08	-	1.08	-	1.08	-	1.25	-	1.00	-	0.83	-	0.92	-	1.00	-	0.83	-
WW C	-		0.92	-	1.00	-	1.00	-	1.08	-	1.08	-	1.00	-	1.25	-	1.00	-	0.83	-	1.00	-	0.92	-	0.67	-
WW D	-		1.08	-	1.00	-	0.92	-	0.92	-	1.00	-	1.17	-	0.92	-	0.92	-	0.92	-	1.00	-	1.00	-	1.00	-
NCR-3S	579.60		2.77	576.83	3.02	576.58	3.48	576.12	2.45	577.15	3.44	576.16	dry		dry		5.85	573.75	3.67	575.93	3.06	576.54	3.51	576.09	1.35	578.25
NCR-4S	577.88		2.83	575.05	2.91	574.97	3.30	574.58	2.72	575.16	3.26	574.62	4.31	573.57	4.59	573.29	dry		3.51	574.37	2.97	574.91	3.15	574.73	2.44	575.44
NCR-5S	579.34		7.43	571.91	7.96	571.38	8.58	570.76	7.91	571.43	8.79	570.55	8.97	570.37	dry		dry		dry		7.37	571.97	6.22	573.12	4.21	575.13
NCR-13S	577.15		5.78	571.37	5.99	571.16	6.08	571.07	5.84	571.31	6.15	571.00	7.33	569.82	7.57	569.58	7.69	569.46	6.36	570.79	5.72	571.43	4.33	572.82	2.77	574.38

**Table 2.2**  
**Niagara County Refuse Site**  
**Water Level Measurements**

Observation Point	Elevation		1/19/2007		2/9/2007		3/10/2007		4/2/2007		5/4/2007		6/1/2007		7/2/2007		8/2/2007		9/17/2007		10/12/2007		11/1/2007		12/1/2007	
	Top of Casing (ft. msl)		Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)	Depth to Water (ft)	Elevation (ft. msl)
East "A"	598.93		24.98	573.95	24.65	574.28	24.84	574.09	24.88	574.05	25.02	573.91	25.50	573.43	24.98	573.95	24.96	573.97	25.03	573.90	24.98	573.95	25.11	573.82	25.13	573.80
East "B"	596.23		19.38	576.85	19.56	576.67			19.98	576.25	20.07	576.16	19.78	576.45	19.86	576.37	19.85	576.38	19.81	576.42	19.50	576.73	19.52	576.71	19.59	576.64
East "C"	598.69		19.51	579.18	19.81	578.88	19.71	578.98	20.10	578.59	20.17	578.52	19.87	578.82	19.99	578.70	19.97	578.72	20.19	578.50	19.78	578.91	19.93	578.76	19.97	578.72
East "D"	593.20		14.38	578.82	14.68	578.52	14.82	578.38	15.24	577.96	15.09	578.11	15.1	578.10	15.19	578.01	15.11	578.09	15.16	578.04	14.64	578.56	14.8	578.40	14.86	578.34
WW A	-		1.17	-	1.08	-	1.25	-	1.08	-	1.25	-	1.17	-	1.00	-	0.83	-	0.67	-	1.00	-	0.92	-	1.00	-
WW B	-		1.00	-	1.00	-	0.67	-	1.17	-	0.75	-	0.92	-	0.83	-	0.83	-	0.83	-	0.92	-	1.08	-	1.17	-
WW C	-		0.83	-	0.83	-	0.67	-	0.83	-	0.83	-	0.83	-	0.67	-	0.50	-	0.67	-	0.50	-	1.00	-	1.08	-
WW D	-		1.00	-	0.83	-	1.00	-	0.83	-	0.83	-	1.00	-	0.83	-	1.00	-	0.75	-	0.83	-	1.00	-	1.00	-
NCR-3S	579.60		3.04	576.56	3.75	575.85	2.70	576.90	3.26	576.34	3.50	576.10	5.89	573.71			dry		dry		dry		dry		dry	
NCR-4S	577.88		2.94	574.94	3.42	574.46	2.80	575.08	2.93	574.95	3.19	574.69	3.90	573.98			dry		dry		dry		dry		dry	
NCR-5S	579.34		5.77	573.57	6.83	572.51	6.28	573.06	6.08	573.26	6.75	572.59	8.87	570.47	10.99	568.35			dry		dry		dry		dry	
NCR-13S	577.15		3.85	573.30	4.51	572.64	4.39	572.76	4.25	572.90	4.81	572.34	7.01	570.14	7.44	569.71	7.70	569.45			dry		7.72	569.43	7.75	569.40

## **SECTION 3**

### **SUMMARY AND CONCLUSIONS**

The following summary and conclusions were developed based on the data collected during this reporting period (January through December 2007):

- The objectives of the groundwater monitoring program (to monitor the effectiveness of the perimeter collection system and the perimeter barrier system) have been met. The groundwater monitoring program provides data for demonstration of the effectiveness of the hydraulic containment, collection, and extraction of Site-related groundwater.
- Semi-annual groundwater sample collection was completed in 2005 and annual groundwater sampling was begun in 2006. The annual collection of groundwater samples during this reporting period was postponed to January 2008 due to the lack of available groundwater in the monitoring wells. Future groundwater sampling will be conducted on an annual basis, as indicated in the OM&M Manual (CRA, 2000) for the Site. As indicated in the November 21, 2005 letter from USEPA, groundwater sample analytical parameters were reduced to inorganic parameters on an annual basis, and volatile and semivolatile analytical parameters every two years. Inorganics only were collected in 2006. Volatile and semivolatile parameters, in addition to inorganics, were collected in January 2008. The annual groundwater samples scheduled for collection in October 2008 will be analyzed for inorganic parameters only.
- The landfill was inspected monthly and was appropriately maintained.
- Post-construction monitoring of the wetland replacement was performed annually between 2001 and 2005. Monitoring results indicated that the wetland creation was successful. Although the formal annual inspections are no longer required, monthly visual inspection of the wetlands will continue, to document general conditions.
- Water levels were collected from the wet wells, monitoring wells, and the locations on top of the landfill on a monthly basis in 2007. Water levels generally varied between 2 and 5 feet over the course of the year. During the second half of 2007, several of the monitoring wells were found to be dry due to lower than normal precipitation.

## **SECTION 4 REFERENCES**

USEPA, 1993, Record of Decision, Niagara County Refuse Site, Wheatfield, Niagara County, New York; United States Environmental Protection Agency, September 1993.

USA, 1995, Consent Decree, Docket 946-849; United States Environmental Protection Agency, February 3, 1995.

CRA, 2000, Operations, Maintenance and Monitoring Manual for Niagara County Refuse District Site Remedial Construction, Wheatfield, Niagara County, New York; Conestoga-Rovers & Associates, December 2000.

**APPENDIX A**  
**CITY OF NORTH TONAWANDA INDUSTRIAL WASTEWATER**  
**DISCHARGE PERMIT AND COMPLIANCE SAMPLING RESULTS**

**CITY OF NORTH TONAWANDA**  
4/5/95  
**INDUSTRIAL WASTEWATER DISCHARGE PERMIT**

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**Permit Number: 2628010**

In accordance with the provisions of the Clean Water Act as amended, all terms and conditions set forth in this permit, the City of North Tonawanda Local Sewer Use Ordinance and any applicable Federal, State or local laws or regulations, authorization is hereby granted to: Niagara County Department of Public Works

Engineering Department

59 Park Avenue

Lockport, New York 14094

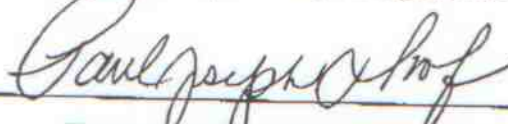
Classified by S.I.C. Number(s): N/A

for the discharge of: groundwater and other wastes generated during Remedial Action construction and implementation into the City of North Tonawanda Sewerage System.

This permit is granted in accordance with an application filed in the offices of the Treatment Plant Superintendent located at 830 River Road, and in conformity with specifications and other required data submitted in support of the above named application, all of which are filed with and considered part of this permit. This permit is also granted in accordance with discharge limitations and requirements, monitoring and reporting requirements, and all other conditions set forth in Parts I and II hereof.

**Effective this 31st day of February, 2007**

**To expire the 1st day of April, 2010**



**Treatment Plant Superintendent**

**Signed this 31st day of January, 2007**

PERMIT NUMBER: 2628010

Part I  
Page of 4**PART I. SPECIFIC CONDITIONS****A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS**

During the period beginning the effective date of this permit and lasting until the expiration date, discharge from the permitted facility outfall(s) shall be limited and monitored by the permittee as specified below (Refer to attached map for sampling and monitoring sites).

Sample Point	Parameter	Discharge Limitations mg/l except pH Daily Max.	Sampling Period	Sampling Type
001	Total Flow		1 Sampling Day Monthly	continuous.
2/	Aluminum	2.0	1 Sample Day semi-annual	24 hr comp.
	Lead	4.6	1 Sampling Day semi-annual	24 hr comp.
	Iron	10	1 Sampling Day semi-annual	24 hr comp.
2/	Magnesium	Monitor Only	1 Sampling Day semi-annual	24 hr comp.
2/	Sodium	Monitor Only	1 Sampling Day semi-annual	24 hr comp.
	pH	Monitor Only	1 Sampling Day semi-annual	grab
2/	BOD	Monitor Only	1 Sampling Day semi-annual	24 hr comp.
2/	Total Suspended Solids	Monitor Only	1 Sampling Day semi-annual	24 hr comp.



Part I  
Page 1 of 4

## B. DISCHARGE REPORTING REQUIREMENTS

[illegible]

**PERMIT NUMBER: 2628010****Part I**  
**Page 4 of 4****PART I. SPECIFIC CONDITIONS****C. SPECIAL REQUIREMENTS**

- 1) This permit is written for a duration of three years. Upon renewal of this permit, all parameters will be re-evaluated to develop a parameter list based on chemical concentrations present in the extracted groundwater.
- 2) Frequency of monitoring is to be re-evaluated yearly..
- 3) All monitoring reports (initial and subsequent), are to be received by the Superintendent, no later than thirty (30) days after receipt of validated data.
- 4) It is required that the Permittee have a Site Operations Manual available at all times. All emergency phone numbers must be listed in an appropriate place for easy access by operations personnel. The permittee shall not discharge to the City of North Tonawanda sewerage treatment works during overflow conditions. The permittee is required to cease all pumping operations upon verbal request of the North Tonawanda Wastewater Treatment Plant Superintendent or his assigns. Pumping operations shall not recommence until approved by the North Tonawanda Wastewater Treatment Plant Superintendent or his assigns.
- 5) Analysts are required to use GC/MS method detection limits for most organics (if GC/MS is appropriate); GC/ECD for PCBS/Pesticides and GF method detection limits for metals (where GF is appropriate), as contained in attachment 5 of the NYSDEC TOGs 1.3.8 - New Discharges to Publicly Owned Treatment Works - dated 10/26/94.

# ANALYTICAL RESULTS : NIAGARA COUNTY REFUSE SITE: Jan., Feb. Sep. 2007

PARAMETER	RESULT mg/l	RESULT mg/l	RESULT mg/l	COMP.
pH (COMP.)	7.06	7.79	7.08	YES
COD	47	42	390	YES
SUSPENDED SOLIDS	3	8	48	YES
BOD	9	10	23	YES
PO4	0.21	0.18	0.42	YES
PHENOLS	< 0.009	< 0.009	< 0.010	YES
ALUMINUM	< 0.024	< 0.029	0.107	YES
CHROMIUM	< 0.025	< 0.025	< 0.025	YES
LEAD	< 0.024	< 0.022	< 0.024	YES
NICKEL	< 0.032	< 0.024	< 0.024	YES
ZINC	0.028	< 0.026	0.076	YES
IRON	0.677	0.936	9.141	YES
MAGNESIUM	140	151	235	YES
MANGANESE	0.34	0.21	2.00	YES
SODIUM	72.3	198	838	YES
		*****		
Benzene	< 0.005	< 0.013	< 0.005	YES
Toluene	< 0.006	< 0.016	< 0.005	YES
Chlorobenzene	< 0.008	< 0.014	< 0.005	YES
Ethylbenzene	< 0.007	< 0.008	< 0.005	YES
Total Xylenes	< 0.015	< 0.015	< 0.015	YES
1,3 - Dichlorobenzene	< 0.007	< 0.010	< 0.005	YES
1,4-Dichlorobenzene	< 0.007	< 0.011	< 0.005	YES
1,2 - Dichlorobenzene	< 0.006	< 0.012	< 0.005	YES
Vinyl Chloride	< 0.005	< 0.019	< 0.006	YES
1,1-Dichloroethene	< 0.005	< 0.019	< 0.008	YES
Methylene chloride	< 0.006	< 0.020	< 0.008	YES
trans-1,2 Dichloroethene	< 0.006	< 0.020	< 0.006	YES
1,1-Dichloroethane	< 0.006	< 0.021	< 0.006	YES
Chloroform	< 0.006	< 0.021	< 0.008	YES
1,1,1-Trichloroethane	< 0.006	< 0.020	< 0.007	YES
3 Cl - ethylene	< 0.006	< 0.016	< 0.006	YES
TOTAL FLOW (gallons)	33,090	7,148	578	
SAMPLE DATE	1/5/2007	2/9/2007	9/7/2007	

\*\*\*\*\* Higher Organic (601/602) standards were used for the 2/9/07 because other samples with higher parameters were being analyzed at the same time.

## **APPENDIX B CORRESPONDENCE**





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 2  
290 BROADWAY  
NEW YORK, NY 10007-1866

NOV 21 2005

**BY FEDEX**

Mr. Eric Felter  
Project Manager  
Parsons  
180 Lawrence Bell Drive, Suite 104  
Williamsville, New York 14221

Re: Niagara County Refuse Site, Wheatfield, New York: Request for the Reduction of Analytical Parameters in Groundwater Samples

Dear Mr. Felter:

The U.S. Environmental Protection Agency (EPA) and New York State Department of Environmental Conservation (NYSDEC) have reviewed your letter dated October 3, 2005 prepared by Parsons on behalf of the Niagara County Refuse (NCR) Site PRP Group requesting a reduction in the analytical parameters in groundwater samples taken at the NCR site as part of the operation and maintenance program. The current analytical parameter list includes 2 volatiles, 4 semi-volatiles, and 16 metals which were determined to be constituents of interest at the site. Your proposal requests reducing the parameters to 5 metals, representing those constituents which have been measured above standards with some regularity in past sampling rounds. The sampling program, involving four monitoring wells, has been in effect since 2001 and your proposal reflects trends evident since the program was initiated. Sampling frequency is currently semi-annual (twice a year).

After discussing this matter with NYSDEC with input from the New York State Department of Health, our preference is that the sampling parameters remain the same for the time being. This is due to the significant residential growth around the site in recent years. After the current sampling round, samples are scheduled to be taken annually. EPA approves changing the current monitoring program only to the extent that the volatiles and semi-volatiles analysis can be conducted every two years while the metals analysis be conducted annually. EPA will, however, consider a further frequency reduction in the future as more data are collected.

Please call me at (212) 637-4278 if you have any questions on this matter.

Sincerely yours,

A handwritten signature in dark ink, appearing to read "Michael J. Negrelli", with a long horizontal flourish extending to the right.

Michael J. Negrelli  
Remedial Project Manager  
New York Remediation Branch

cc: J. Konsella - NYSDEC/Region 9  
B. Sadowski - NYSDEC/Region 9

**From:** [Negrelli.Mike@epamail.epa.gov](mailto:Negrelli.Mike@epamail.epa.gov)  
**To:** [Felter, Eric;](mailto:Felter, Eric;)  
**cc:** [barberwb@bp.com](mailto:barberwb@bp.com); [Raybuck, Mark](mailto:Raybuck, Mark); [richard.pope@Niagaracounty.com](mailto:richard.pope@Niagaracounty.com);  
[jakonsel@gw.dec.state.ny.us](mailto:jakonsel@gw.dec.state.ny.us); [bpsadows@gw.dec.state.ny.us](mailto:bpsadows@gw.dec.state.ny.us);  
**Subject:** Re: NCR Annual GW Sampling  
**Date:** Tuesday, December 11, 2007 9:25:21 AM

---

Thanks Eric. I will place this email in the file for the record. I agree that we need to wait for there to be enough water in the wells to collect a sample. Keep me posted.

"Felter, Eric"	
<Eric.Felter@parsons.com>	
	To
	Mike Negrelli/R2/USEPA/US@EPA
12/10/2007	cc
09:43 AM	"Raybuck, Mark"
	<Mark.Raybuck@parsons.com> ,
	<richard.pope@Niagaracounty.com> ,
	<barberwb@bp.com>
	Subject
	NCR Annual GW Sampling

Mike,

I wanted to provide you with an update on the status of the annual groundwater sampling at the Niagara County Refuse site. The 2007 annual groundwater sampling has yet to be completed due to a lack of water in the monitoring wells. As of two weeks ago, two of the wells had a few inches of water and two wells had approximately one inch of water. While this is better than previous months, this would have limited sample collection to two wells or less. O&M Enterprises, Inc. plans to check the water levels weekly and evaluate the possibility of sampling during the next few weeks. The annual groundwater sampling may need to be

delayed to the spring of 2008.

Please feel free to call or email if you have any questions or comments.

Regards,  
Eric

Eric A. Felter, P.G.  
Principal Geologist  
Parsons  
40 La Riviere Drive, Ste 350  
Buffalo, NY 14202  
Phone direct: (716) 809-9140  
Phone office: (716) 541-0730  
Fax: (716) 541-0760  
Email: [Eric.Felter@parsons.com](mailto:Eric.Felter@parsons.com)

SAFETY - MAKE IT PERSONAL



## **APPENDIX C**

### **MONTHLY INSPECTION LOGS**

# MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

INSPECTOR(S):

*R C Becker*

DATE: *11/19/97*  
(MM DD YY)

Item	Inspect For	Action Required	Comments
1. Perimeter Collection System/Off-Site Forcemain			
Manholes	- cover on securely - condition of cover - condition of inside of manhole - flow conditions	<i>good</i> <i>good</i> <i>good</i> <i>minor flow</i>	
Wet Wells	- cover on securely - condition of cover - condition of inside of wet well	<i>good</i> <i>good</i> <i>good</i>	
2. Landfill Cap			
Vegetated Soil Cover	- erosion - bare areas - washouts - leachate seeps - length of vegetation - dead/dying vegetation	<i>none</i> <i>none (snow covered)</i> <i>none</i> <i>none</i> <i>short</i> <i>winter kill</i>	

FORM 1

# MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

INSPECTOR(S): P. C. Becker

DATE: 06/11/97  
(MM DD YY)

Comments

Action Required

Inspect For

## 2. Landfill Cap (continued)

--	--	--	--

Access Roads

- bare areas, dead/dying veg.

- erosion

- potholes or puddles

- obstruction

snow covered

none

none

none

## 3. Wetlands (Area "P")

- dead/dying vegetation

- change in water budget

- general condition of wetlands

winter kill

slightly high

good

## 4. Other Site Systems

--	--	--	--

Perimeter Fence

- integrity of fence

- integrity of gates

- integrity of locks

- placement and condition of signs

fence on cut Winter Rd. side repaired

good

good

good

FORM 1

# MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

INSPECTOR(S): R. C. Barker

DATE: 01/11/91  
(MM DD YY)

Item	Inspect For	Action Required	Comments
4. Other Site Systems (continued)			
Drainage Ditches/ Swale Outlets	- sediment build-up - erosion - condition of erosion protection - flow obstructions - dead/dying vegetation - cable concrete/gabion mats and riprap	none none good none winter kill? good	
Culverts	- sediment build-up - erosion - condition of erosion protection - flow obstructions	none none good none	
Gas Vents Wells	- intact /damage - locks secure	good condition yes	

FORM 1

# MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

INSPECTOR(S):

*Richard C. Becker*

DATE: 10/22/07  
(MM DD YY)

Item

Inspect For

Action Required

Comments

## 1. Perimeter Collection System/Off-Site Force Main

Manholes

- cover on securely
- condition of cover
- condition of inside of manhole
- flow conditions

*good*  
*good*  
*good*  
*no flow*

Wet Wells

- cover on securely
- condition of cover
- condition of inside of wet well

*good*  
*good*  
*good*

## 2. Landfill Cap

Vegetated Soil Cover

- erosion
- bare areas
- washouts
- leachate seeps
- length of vegetation
- dead/dying vegetation

*none*  
*snow covered*  
*none*  
*none*  
*snow covered*  
*winter kill*

FORM 1

# MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

INSPECTOR(S):

*Richard C. Berken*

DATE: 8/29/07  
(MM DD YY)

Item

Inspect For

Action Required

Comments

## 2. Landfill Cap (continued)

--	--	--	--

Access Roads

- bare areas, dead/dying veg.
- erosion
- potholes or puddles
- obstruction

*snow covered*  
*none*  
*some*  
*snow*

## 3. Wetlands (Area "F")

- dead/dying vegetation
- change in water budget
- general condition of wetlands

*winter kill*  
*normal*  
*OK*

## 4. Other Site Systems

Perimeter Fence

--	--	--	--

- integrity of fence
- integrity of gates
- integrity of locks
- placement and condition of signs

*hole cut in winter rd side of landfill repaired*  
*good*  
*good*  
*good*

FORM 1



# MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

INSPECTOR(S):

Richard C Barker

DATE: 01/20/09  
(MM DD YY)

Item

Inspect For

Action Required

Comments

## 4. Other Site Systems (continued)

Drainage Ditches/  
Swale Outlets

- sediment build-up
- erosion
- condition of erosion protection
- flow obstructions
- dead/dying vegetation
- cable concrete/gabion mats and riprap

snow  
none  
snow covered  
snow  
winter hill  
snow covered

Culverts

- sediment build-up
- erosion
- condition of erosion protection
- flow obstructions

snow  
none  
snow covered  
snow

Gas Vents  
Wells

- intact / damage
- locks secure

good condition  
good condition

FORM 1

# MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

INSPECTOR(S): R. Becker

DATE: 03/19/97  
(MM DD YY)

Item	Inspect For	Action Required	Comments
1.	Perimeter Collection System/Off-Site Forcemain		
Manholes	- cover on securely	<u>yes</u>	
	- condition of cover	<u>OK</u>	
	- condition of inside of manhole	<u>OK</u>	
	- flow conditions	<u>no flow</u>	
Wet Wells	- cover on securely	<u>yes</u>	
	- condition of cover	<u>OK</u>	
	- condition of inside of wet well	<u>good</u>	
2.	Landfill Cap		
Vegetated Soil Cover	- erosion	<u>none</u>	
	- bare areas	<u>none</u>	
	- washouts	<u>none</u>	
	- leachate seeps	<u>none</u>	
	- length of vegetation	<u>short</u>	
	- dead/dying vegetation	<u>winter kill?</u>	

FORM 1



## MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

INSPECTOR(S):

R. C. BakerDATE: 03/10/07  
(MM DD YY)

Item

Inspect For

Action Required

Comments

## 2. Landfill Cap (continued)

--	--	--	--

Access Roads

- bare areas, dead/dying veg.

- erosion

- potholes or puddles

- obstruction

snow coverednonesnow coveredsnow

## 3. Wetlands (Area "F")

- dead/dying vegetation

- change in water budget

- general condition of wetlands

winter poolwater level raisedOK

## 4. Other Site Systems

--	--	--	--

Perimeter Fence

- integrity of fence

- integrity of gates

- integrity of locks

- placement and condition of signs

one cut holegoodgoodgood

FORM 1

# MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

INSPECTOR(S): RC Boden

DATE: 10/31/10  
(MM DD YY)

Item

Inspect For

Action Required

Comments

## 4. Other Site Systems (continued)

Drainage Ditches / Swale Outlets	- sediment build-up - erosion - condition of erosion protection - flow obstructions - dead/dying vegetation - cable concrete / gabion mats and riprap	<u>snow covered</u> <u>none</u> <u>snow covered</u> <u>snow</u> <u>winter pile</u> <u>OK</u>	
----------------------------------	--	---	--

Culverts

	- sediment build-up - erosion - condition of erosion protection - flow obstructions	<u>none</u> <u>none</u> <u>OK</u> <u>snow</u>	
--	--	--	--

Gas Vents

Wells

	- intact / damage - locks secure	<u>good condition</u> <u>OK</u>	
--	-------------------------------------	------------------------------------	--

FORM 1

# MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

INSPECTOR(S):

*Richard C. Becker*

DATE: 04/02/07  
(MM DD YY)

Item

Inspect For

Action Required

Comments

## 1. Perimeter Collection System/Off-Site Forcemain

--	--	--	--

Manholes

- cover on securely
- condition of cover
- condition of inside of manhole
- flow conditions

*yes*  
*good*  
*good*  
*very low flow*

Wet Wells

- cover on securely
- condition of cover
- condition of inside of wet well

*yes*  
*good*  
*good*

## 2. Landfill Cap

--	--	--	--	--

Vegetated Soil Cover

- erosion
- bare areas
- washouts
- leachate seeps
- length of vegetation
- dead/dying vegetation

*no*  
*no*  
*no*  
*no*  
*short*  
*winter kill*

FORM 1

# MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

INSPECTOR(S):

*R. C. Babin*

DATE: 01/02/07  
(MM DD YY)

Item	Inspect For	Action Required	Comments
2. Landfill Cap (continued)			
Access Roads	- bare areas, dead/dying veg.	<i>no</i>	
	- erosion	<i>no</i>	
	- potholes or puddles	<i>none</i>	
	- obstruction	<i>no</i>	
3. Wetlands (Area "F")	- dead/dying vegetation	<i>winter kill</i>	
	- change in water budget	<i>normal</i>	
	- general condition of wetlands	<i>good</i>	
4. Other Site Systems			
Perimeter Fence	- integrity of fence	<i>fence cut west side</i>	<i>repaired</i>
	- integrity of gates	<i>good</i>	
	- integrity of locks	<i>good</i>	
	- placement and condition of signs	<i>good</i>	

FORM 1

# MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

INSPECTOR(S):

*R. Becker*

DATE: 10/4/02  
(MM DD YY)

Item

Inspect For

Action Required

Comments

## 4. Other Site Systems (continued)

Drainage Ditches/  
Swale Outlets

- sediment build-up

- erosion

- condition of erosion protection

- flow obstructions

- dead/dying vegetation

- cable concrete/gabion mats and  
riprap

Culverts

- sediment build-up

- erosion

- condition of erosion protection

- flow obstructions

Gas Vents

- intact / damage

Wells

- locks secure

FORM 1

# MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

INSPECTOR(S):

RC Becken

DATE: 05/04/07  
(MM DD YY)

Item	Inspect For	Action Required	Comments
1.	Perimeter Collection System/Off-Site Foremain		
Manholes	- cover on securely	yes	
	- condition of cover	good	
	- condition of inside of manhole	good	
	- flow conditions	is flow	
Wet Wells	- cover on securely	yes	
	- condition of cover	good	
	- condition of inside of wet well	good	
2.	Landfill Cap		
Vegetated Soil Cover	- erosion	none	
	- bare areas	none	
	- washouts	none	
	- leachate seeps	none	
	- length of vegetation	short	
	- dead/dying vegetation	none	

FORM 1

# MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

INSPECTOR(S):

*RC Boylan*

DATE: 05/04/07  
(MM DD YY)

Comments

Action Required

## 2. Landfill Cap (continued)

--	--	--	--

Access Roads

- bare areas, dead/dying veg.
- erosion
- potholes or puddles
- obstruction

*none*  
*none*  
*none*  
*none*

## 3. Wetlands (Area "F")

- dead/dying vegetation
- change in water budget
- general condition of wetlands

*none*  
*waters slightly high*  
*good*

## 4. Other Site Systems

Perimeter Fence

- integrity of fence
- integrity of gates
- integrity of locks
- placement and condition of signs

*good*  
*good*  
*good*  
*good*

FORM 1



# MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

INSPECTOR(S):

RC Baker

DATE: 10/5/04  
(MM DD YY)

Item	Inspect For	Action Required	Comments
4. <input type="checkbox"/>	Other Site Systems (continued)		
<input type="checkbox"/>	Drainage Ditches/ Swale Outlets		
<input type="checkbox"/>	- sediment build-up	<u>none</u>	
<input type="checkbox"/>	- erosion	<u>none</u>	
<input type="checkbox"/>	- condition of erosion protection	<u>good</u>	
<input type="checkbox"/>	- flow obstructions	<u>none</u>	
<input type="checkbox"/>	- dead/dying vegetation	<u>none</u>	
<input type="checkbox"/>	- cable concrete/gabion mats and riprap	<u>good condition</u>	
<input type="checkbox"/>	Culverts		
<input type="checkbox"/>	- sediment build-up	<u>none</u>	
<input type="checkbox"/>	- erosion	<u>none</u>	
<input type="checkbox"/>	- condition of erosion protection	<u>good</u>	
<input type="checkbox"/>	- flow obstructions	<u>none</u>	
<input type="checkbox"/>	Gas Vents		
<input type="checkbox"/>	- intact /damage	<u>good condition</u>	
<input type="checkbox"/>	Wells		
<input type="checkbox"/>	- locks secure	<u>yes</u>	

FORM 1



# MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

INSPECTOR(S):

RC Barker

DATE: 06/01/07  
(MM DD YY)

Item

Inspect For

Action Required

Comments

## 1. Perimeter Collection System/Off-Site Forcemain

--	--	--	--

Manholes

- cover on securely
- condition of cover
- condition of inside of manhole
- flow conditions

OK

OK

OK

~~OK~~ No Flow

Wet Wells

- cover on securely
- condition of cover
- condition of inside of wet well

OK

OK

OK

## 2. Landfill Cap

--	--	--	--	--

Vegetated Soil Cover

- erosion
- bare areas
- washouts
- leachate seeps
- length of vegetation
- dead /dying vegetation

NONE

NONE

NONE

NONE

medium

NONE

FORM 1

# MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

DATE: 06/01/07  
(MM DD YY)

INSPECTOR(S): RC Becken

Item	Inspect For	Action Required	Comments
2. Landfill Cap (continued)			
Access Roads	- bare areas, dead/dying veg. - erosion - potholes or puddles - obstruction	NONE NONE NONE NONE	
3. Wetlands (Area "F")	- dead/dying vegetation - change in water budget - general condition of wetlands	NO LOW OK	
4. Other Site Systems			
Perimeter Fence	- integrity of fence - integrity of gates - integrity of locks - placement and condition of signs	OK OK OK OK	

# MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

INSPECTOR(S):

R C Becker

DATE: 10/6/11  
(MM DD YY)

Item	Inspect For	Action Required	Comments
4. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Other Site Systems (continued)		
Drainage Ditches/ Swale Outlets	- sediment build-up	NONE	
	- erosion	NONE	
	- condition of erosion protection	OK	
	- flow obstructions	NONE	
	- dead/dying vegetation	NONE	
	- cable concrete / gabion mats and riprap	OK	
Culverts	- sediment build-up	NONE	
	- erosion	NONE	
	- condition of erosion protection	OK	
	- flow obstructions	NONE	
Gas Vents Wells	- intact / damage	INTACT	
	- locks secure	OK	

FORM 1

# MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

INSPECTOR(S):

*R. Becker*

DATE: 10/01/97  
(MM DD YY)

Item

Inspect For

Action Required

Comments

## 1. Perimeter Collection System/Off-Site Forcemain

--	--	--	--

Manholes

- cover on securely
- condition of cover
- condition of inside of manhole
- flow conditions

OK

OK

OK

no flow

Wet Wells

- cover on securely
- condition of cover
- condition of inside of wet well

OK

OK

OK

## 2. Landfill Cap

--	--	--	--	--

Vegetated Soil Cover

- erosion
- bare areas
- washouts
- leachate seeps
- length of vegetation
- dead/dying vegetation

none

none

none

none

short

no

FORM 1

# MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

INSPECTOR(S):

R. C. Barker

DATE: 07/02/07  
(MM DD YY)

Item	Inspect For	Action Required	Comments
2. Landfill Cap (continued)			
Access Roads	- bare areas, dead/dying veg. - erosion - potholes or puddles - obstruction	<u>none</u> <u>none</u> <u>none</u> <u>none</u>	
3. Wetlands (Area "F")	- dead/dying vegetation - change in water budget - general condition of wetlands	<u>none</u> <u>low water</u> <u>OK</u>	
4. Other Site Systems			
Perimeter Fence	- integrity of fence - integrity of gates - integrity of locks - placement and condition of signs	<u>OK</u> <u>OK</u> <u>OK</u> <u>OK</u>	

FORM 1

# MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

INSPECTOR(S):

R. C. Belken

DATE: 07/02/07  
(MM DD YY)

Item

Inspect For

Action Required

Comments

## 4. Other Site Systems (continued)

- Drainage Ditches/  
Swale Outlets
  - sediment build-up
  - erosion
  - condition of erosion protection
  - flow obstructions
  - dead/dying vegetation
  - cable concrete / gabion mats and riprap

Culverts

- sediment build-up
- erosion
- condition of erosion protection
- flow obstructions

Gas Vents

- intact / damage

Wells

- locks secure

FORM 1

# MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

INSPECTOR(S): RC Barker

DATE: 08/02/07  
(MM DD YY)

Item	Inspect For	Action Required	Comments
<b>1. Perimeter Collection System/Off-Site Forcemain</b>			
Manholes	- cover on securely	OK	
	- condition of cover	good	
	- condition of inside of manhole	good	
	- flow conditions	no flow	
Wet Wells	- cover on securely	yes	
	- condition of cover	good	
	- condition of inside of wet well	good	
<b>2. Landfill Cap</b>			
Vegetated Soil Cover	- erosion	none	
	- bare areas	none	
	- washouts	none	
	- leachate seeps	none	
	- length of vegetation	medium to short	
	- dead/dying vegetation	none	

FORM 1



# MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

INSPECTOR(S):

*D. C. Baker*

DATE: 06/20/2017  
(MM DD YY)

Item

Inspect For

Action Required

Comments

## 2. Landfill Cap (continued)

--	--	--	--

Access Roads

- bare areas, dead/dying veg.

*none*

- erosion

*none*

- potholes or puddles

*none*

- obstruction

*none*

## 3. Wetlands (Area "F")

- dead/dying vegetation

*none*

- change in water budget

*low water level*

- general condition of wetlands

*fair*

## 4. Other Site Systems

--	--	--	--

Perimeter Fence

- integrity of fence

*good*

- integrity of gates

*good*

- integrity of locks

*good*

- placement and condition of signs

*good*

FORM 1



# MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

INSPECTOR(S):

R C Becker

DATE: 08/02/07  
(MM DD YY)

Item

Inspect For

Action Required

Comments

## 4. Other Site Systems (continued)

Drainage Ditches /  
Swale Outlets

- sediment build-up
- erosion
- condition of erosion protection
- flow obstructions
- dead / dying vegetation
- cable concrete / gabion mats and riprap

none  
none  
good  
none  
none  
good

Culverts

- sediment build-up
- erosion
- condition of erosion protection
- flow obstructions

none  
none  
good  
none

Gas Vents

- intact / damage

good condition

Wells

- locks secure

yes

FORM 1

# MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

INSPECTOR(S):

*RC Began*

DATE: 09/08/07  
(MM DD YY)

Item	Inspect For	Action Required	Comments
1. Perimeter Collection System/Off-Site Forcemain			
Manholes	- cover on securely - condition of cover - condition of inside of manhole - flow conditions	OK OK OK no flow	
Wet Wells	- cover on securely - condition of cover - condition of inside of wet well	OK OK OK	
2. Landfill Cap			
Vegetated Soil Cover	- erosion - bare areas - washouts - leachate seeps - length of vegetation - dead/dying vegetation	none none none none short extreme dry conditions	

FORM 1

# MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

INSPECTOR(S): RC Becken

DATE: 6/9/08  
(MM DD YY)

Comments

Action Required

Inspect For

## 2. Landfill Cap (continued)

--	--	--	--

Access Roads

- bare areas, dead/dying veg.
- erosion
- potholes or puddles
- obstruction

none  
none  
none  
none

## 3. Wetlands (Area "F")

- dead/dying vegetation
- change in water budget
- general condition of wetlands

none  
low water  
OK

## 4. Other Site Systems

--	--	--	--

Perimeter Fence

- integrity of fence
- integrity of gates
- integrity of locks
- placement and condition of signs

OK  
OK  
OK  
OK

# MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

INSPECTOR(S):

RC Baker

DATE:

09/28/07  
(MM DD YY)

Item

Inspect For

Action Required

Comments

## 4. Other Site Systems (continued)

Drainage Ditches/  
Swale Outlets

- sediment build-up
- erosion
- condition of erosion protection
- flow obstructions
- dead/dying vegetation
- cable concrete/gabion mats and riprap

none  
none  
OK  
none  
none  
OK

Culverts

- sediment build-up
- erosion
- condition of erosion protection
- flow obstructions

none  
none  
OK  
none

Gas Vents

- intact /damage
- locks secure

intact  
OK

Wells

FORM 1

# MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

INSPECTOR(S):

*Rc Becker*

DATE:

*10/1/2017*  
(MM DD YY)

Item

Inspect For

Action Required

Comments

## 1. Perimeter Collection System/Off-Site Force Main

--	--	--	--	--

Manholes

- cover on securely
- condition of cover
- condition of inside of manhole
- flow conditions

*yes*  
*good*  
*good*  
*no flaws*

--	--	--	--	--

Wet Wells

- cover on securely
- condition of cover
- condition of inside of wet well

*yes*  
*good*  
*good*

## 2. Landfill Cap

--	--	--	--	--

Vegetated Soil Cover

- erosion
- bare areas
- washouts
- leachate seeps
- length of vegetation
- dead/dying vegetation

*none*  
*none*  
*none*  
*none*  
*short*  
*none*

FORM 1

# MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

DATE: 1/10/12  
(MM DD YY)

INSPECTOR(S):

*RC Beck*

Comments

Action Required

Item

Inspect For

## 2. Landfill Cap (continued)

--	--	--	--

Access Roads

- bare areas, dead/dying veg.
- erosion
- potholes or puddles
- obstruction

*none*

## 3. Wetlands (Area "F")

- dead/dying vegetation
- change in water budget
- general condition of wetlands

*yes no water*  
*no water*  
*OK for the short term*

## 4. Other Site Systems

Perimeter Fence

--	--	--	--

- integrity of fence
- integrity of gates
- integrity of locks
- placement and condition of signs

*good*  
*good*  
*good*  
*good*

# MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

DATE: 11/01/12 (MM DD YY)

INSPECTOR(S): RC Becker

Comments

Item

Inspect For

Action Required

## 4. Other Site Systems (continued)

Drainage Ditches/  
Swale Outlets

- sediment build-up

- erosion

- condition of erosion protection

- flow obstructions

- dead/dying vegetation

- cable concrete /gabion mats and  
riprap

--	--	--	--	--	--

none  
none  
good  
none  
none  
good condition

Culverts

- sediment build-up

- erosion

- condition of erosion protection

- flow obstructions

--	--	--	--

none  
none  
good  
none

Gas Vents

- intact / damage

Wells

- locks secure

--	--

good condition  
yes

FORM 1



# MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

INSPECTOR(S):

Rc Beilan

DATE: 11/16/01  
(MM DD YY)

Item

Inspect For

Action Required

Comments

## 1. Perimeter Collection System/Off-Site Forcemain

Manholes

- cover on securely
- condition of cover
- condition of inside of manhole
- flow conditions

yes  
good  
good  
no flow

Wet Wells

- cover on securely
- condition of cover
- condition of inside of wet well

yes  
good  
good

## 2. Landfill Cap

Vegetated Soil Cover

- erosion
- bare areas
- washouts
- leachate seeps
- length of vegetation
- dead/dying vegetation

none  
none  
none  
none  
short  
no

FORM 1



# MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

INSPECTOR(S):

Rick Becker

DATE: 11 / 01 / 07  
(MM DD YY)

Comments

Action Required

Item

Inspect For

## 2. Landfill Cap (continued)

--	--	--	--

Access Roads

- bare areas, dead/dying veg.
- erosion
- potholes or puddles
- obstruction

AD

none

none

none

## 3. Wetlands (Area "F")

- dead/dying vegetation
- change in water budget
- general condition of wetlands

yes dry conditions

dry

need water

## 4. Other Site Systems

--	--	--	--

Perimeter Fence

- integrity of fence
- integrity of gates
- integrity of locks
- placement and condition of signs

good

good

good

good

# MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

DATE: 11/10/07  
(MM DD YY)

INSPECTOR(S):

*R. B. Baker*

Item	Inspect For	Action Required	Comments
4. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Other Site Systems (continued)		
Drainage Ditches/ Swale Outlets	- sediment build-up - erosion - condition of erosion protection - flow obstructions - dead/dying vegetation - cable concrete/gabion mats and riprap	<i>none</i> <i>none</i> <i>good</i> <i>none</i> <i>none</i> <i>good condition</i>	
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Culverts	<i>none</i> <i>none</i> <i>good</i> <i>none</i>	
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Gas Vents Wells	<i>intact good condition</i> <i>yes</i>	

FORM 1

# MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

INSPECTOR(S): RCB

DATE: 11/20/11  
(MM DD YY)

Item	Inspect For	Action Required	Comments
1. Perimeter Collection System/Off-Site Foremain			
Manholes	- cover on securely	good	
	- condition of cover	good	
	- condition of inside of manhole	good	
	- flow conditions	no apparent flow	
Wet Wells	- cover on securely	yes	
	- condition of cover	good	
	- condition of inside of wet well	good	
2. Landfill Cap			
Vegetated Soil Cover	- erosion	none	
	- bare areas	none	
	- washouts	none	
	- leachate seeps	none	
	- length of vegetation	short	
	- dead/dying vegetation	winter kill	

FORM 1

# MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

INSPECTOR(S): RC Becker

DATE: 11/28/07  
(MM DD YY)

Item	Inspect For	Action Required	Comments
2. Landfill Cap (continued)			
Access Roads	- bare areas, dead/dying veg. - erosion - potholes or puddles - obstruction	none none none none	
3. Wetlands (Area "F")	- dead/dying vegetation - change in water budget - general condition of wetlands	yes winter kill low OK	
4. Other Site Systems			
Perimeter Fence	- integrity of fence - integrity of gates - integrity of locks - placement and condition of signs	good good good OK	

FORM 1

# MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

INSPECTOR(S): RC Becker

DATE: 11 20 10 17  
(MM DD YY)

Item

Inspect For

Action Required

Comments

## 4. Other Site Systems (continued)

Drainage Ditches/  
Swale Outlets

- sediment build-up

- erosion

- condition of erosion protection

- flow obstructions

- dead/dying vegetation

- cable concrete/gabion mats and  
riprap

none

none

good

none

none (winter prep)

good condition

Culverts

- sediment build-up

- erosion

- condition of erosion protection

- flow obstructions

none

none

good

none

Gas Vents

- intact / damage

- locks secure

Wells

good condition

yes

FORM 1

## **APPENDIX D**

### **MAINTENANCE RECORD LOGS**



## MAINTENANCE RECORD LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

CREW MEMBERS: RC Becken

1. Date: 01/04/07 (MM DD YY)

Time: 1100 (HH mm)

Scheduled/Unscheduled: unscheduled

Type of Maintenance Performed: repair level float switch wet well c

2. Company Performing Maintenance

Name: O&M Enterprises Inc.

Address: 7134 Marigold Dr.

North Tonawanda, NY

Contact Name: Rick Becken

3. Methods Used:

float switch stuck (hung up on another float)

using a long section of pvc conduit I reached down to float and  
set it free

Description of Material Removed:

none

Problems/Comments:

none

11/4/07  
DATE

RC Becken  
INSPECTOR

[Signature]  
INSPECTOR'S SIGNATURE

FORM 2

## MAINTENANCE RECORD LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

CREW MEMBERS: RC Becken

1. Date: 01/12/07 (MM DD YY)

Time: 1300 (HH mm)

Scheduled/Unscheduled: unscheduled

Type of Maintenance Performed: repair/replace level control wet well C

2. Company Performing Maintenance

Name: O & M Enterprises Inc.

Address: 7134 Marigold Dr.  
North Tonawanda, NY 14120

Contact Name: Rick Becken

3. Methods Used:

Replaced (on) level control float switch

Description of Material Removed:

float switch

Problems/Comments:

none

11/2/07  
DATE

Richard C Becken  
INSPECTOR

Richard C Becken  
INSPECTOR'S SIGNATURE

FORM 2



## MAINTENANCE RECORD LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

CREW MEMBERS:

RC Becker

1. Date: 01/23/07 (MM DD YY)

Time: 2015 (HH mm)

Scheduled/Unscheduled: unscheduled

Type of Maintenance Performed: float switch stuck in off position on WWC

2. Company Performing Maintenance

Name: DIM Enterprises Inc

Address: 7134 Mariqal Dr.  
North Tonawanda, NY 14120

Contact Name: Rick Becker

3. Methods Used:

freed float switch with long piece of PVC conduit

Description of Material Removed:

none

Problems/Comments:

none

11/23/07  
DATE

RC Becker

INSPECTOR

Rick Becker

INSPECTOR'S SIGNATURE

## MAINTENANCE RECORD LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

CREW MEMBERS: RC Becken

1. Date: 01/24/07 (MM DD YY)

Time: 0800 (HH mm)

Scheduled/Unscheduled: unscheduled

Type of Maintenance Performed: checking float switch on wet well C.

2. Company Performing Maintenance

Name: D&M Enterprises Inc.

Address: 7134 Manigold Dr.  
North Tonawanda, NY 14120

Contact Name: Rick Becken

3. Methods Used:

checked float switch on wet well C to make certain it  
is operating properly

Description of Material Removed:

none

Problems/Comments:

none

1/24/07

DATE

RC Becken

INSPECTOR

Rick Becken

INSPECTOR'S SIGNATURE

## MAINTENANCE RECORD LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

CREW MEMBERS: RC Bocken

1. Date: 01/26/07 (MM DD YY)

Time: 1100 (HH mm)

Scheduled/Unscheduled:

scheduled

Type of Maintenance Performed: replace level floats in wet well

2. Company Performing Maintenance

Name: Ortm Enterprises Inc.

Address: 7134 Marigold Dr.  
North Tonawanda, NY 14120

Contact Name: Rick Bocken

3. Methods Used:

Remove the two Warwick float controls for turning pump on and off  
and replaced with new Warwick float controls. The new float  
controls were attached to a long piece of PVC conduit so they could  
be worked on easier (access wise), when needed the whole PVC conduit  
can be raised out of the well to perform maintenance on the float controls

Description of Material Removed:

2 old float switches

Problems/Comments:

none

11/26/07  
DATE

Richard C Bocken  
INSPECTOR

Richard C Bocken  
INSPECTOR'S SIGNATURE

FORM 2



## MAINTENANCE RECORD LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

CREW MEMBERS: Richard C Becker

1. Date: 020907 (MM DD YY)

Time: 1400 (HH mm)

Scheduled/Unscheduled: unscheduled

Type of Maintenance Performed: repair fence

2. Company Performing Maintenance

Name: DTM Enterprises, Inc.

Address: 7134 Marigold Dr.  
North Tonawanda, NY 14120

Contact Name: Rick Becker

3. Methods Used:

Repaired hole cut in fence

Description of Material Removed:

none

Problems/Comments:

Reported to Niagara County Sheriff's report # 6481

2/9/07

DATE

Richard C Becker

INSPECTOR

Richard C Becker

INSPECTOR'S SIGNATURE

FORM 2

## MAINTENANCE RECORD LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

CREW MEMBERS: RC Becken

1. Date: 033007 (MM DD YY)

Time: 1100 (HH mm)

Scheduled/Unscheduled: unscheduled

Type of Maintenance Performed: repair fence

2. Company Performing Maintenance

Name: O&M Enterprises Inc.

Address: 7134 Marigold Dr.  
North Tonawanda, NY 14120

Contact Name: Rick Becken

3. Methods Used:

repaired cut in fence east side

Sheriff incident # 14490

Description of Material Removed:

none

Problems/Comments:

none

3/30/07

DATE

Richard C Becken

INSPECTOR

Richard C Becken

INSPECTOR'S SIGNATURE

FORM 2

## MAINTENANCE RECORD LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

CREW MEMBERS: RC Becken

1. Date: 04/02/07 (MM DD YY)

Time: 1400 (HH mm)

Scheduled/Unscheduled: scheduled

Type of Maintenance Performed: clean + check well pumps

2. Company Performing Maintenance

Name: Q&M Enterprises Inc.

Address: 7134 Mangold Dr,  
North Tonawanda, NY 14120

Contact Name: Rick Becken

3. Methods Used:

pulled well pumps from Wet Well C + D cleaned,  
checked and reinstalled in wells

cleaned 4 strainer in Wet Well A

Description of Material Removed:

none

Problems/Comments:

none

4/2/07

DATE

Richard C Becken

INSPECTOR

Richard C Becken

INSPECTOR'S SIGNATURE

## MAINTENANCE RECORD LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

CREW MEMBERS:

RC Becken

1. Date: 04/03/07 (MM DD YY)

Time: 0900 (HH mm)

Scheduled/Unscheduled: unscheduled

Type of Maintenance Performed: repair stuck float switch

2. Company Performing Maintenance

Name: O&M Enterprises Inc.

Address: 7134 Marigold Dr.  
North Tonawanda, NY 14120

Contact Name: Richard Becken

3. Methods Used:

probed for float switch under water using a 12 foot piece  
of PVC conduit

Description of Material Removed:

none

Problems/Comments:

none

4/3/07

DATE

Richard C Becken

INSPECTOR

Richard C Becken

INSPECTOR'S SIGNATURE

FORM 2



## MAINTENANCE RECORD LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

CREW MEMBERS: RC Becker

1. Date: 041607 (MM DD YY)

Time: 1230 (HH mm)

Scheduled/Unscheduled: unscheduled

Type of Maintenance Performed: repair hole in fence west side

2. Company Performing Maintenance

Name: Q&M Enterprises Inc.

Address: 7134 Mangold Dr.

North Tonawanda, NY 14120

Contact Name: Rick Becker

3. Methods Used:

replaced section of fence with hole cut in it

Description of Material Removed:

none

Problems/Comments:

none

4/16/07

DATE

Richard C Becker

INSPECTOR

Richard C Becker

INSPECTOR'S SIGNATURE

FORM 2



## MAINTENANCE RECORD LOG

PROJECT NAME: Niagara County Refuse Site,

LOCATION: Wheatfield, New York

CREW MEMBERS: RC Becker

1. Date: 05/11/07 (MM DD YY)

Time: 1130 (HH mm)

Scheduled/Unscheduled: unscheduled

Type of Maintenance Performed: repair gate

2. Company Performing Maintenance

Name: O+M Enterprises Inc.

Address: 7134 Marigold Dr.  
North Tonawanda, NY

Contact Name: Rick Becker

3. Methods Used:

Locking mechanism bent on gate by vandals, replaced with chain and padlock, vandals also broke exterior light on the shed (control) will need to get a replacement

Description of Material Removed:

none

Problems/Comments:

Called Niagara County sheriffs, deputy Mullerille came to site made a report and left. Report # is 21094

5/11/07  
DATE

RC Becker  
INSPECTOR

Paul RC Becker  
INSPECTOR'S SIGNATURE

FORM 2

## MAINTENANCE RECORD LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

CREW MEMBERS: RC Becker

1. Date: 05/11/07 (MM DD YY)

Time: 1200 (HH mm)

Scheduled/Unscheduled: Scheduled

Type of Maintenance Performed: cut small trees on fence line

2. Company Performing Maintenance

Name: O+M Enterprises Inc.

Address: 2134 Marigold Dr.  
North Tonawanda, NY

Contact Name: Rick Becker

3. Methods Used:

Using a chain saw I cut small trees / large brush  
on or very close to the perimeter fence

Description of Material Removed:

none, trees / brush will be chopped up using  
brush hog mower

Problems/Comments:

none

5/11/07  
DATE

RC Becker  
INSPECTOR

[Signature]  
INSPECTOR'S SIGNATURE

FORM 2

## MAINTENANCE RECORD LOG

PROJECT NAME: Niagara County Refuse Site,

LOCATION: Wheatfield, New York

CREW MEMBERS: RC Becken

1. Date: 5/14/07 (MM DD YY)

Time: 1/2/00 (HH mm)

Scheduled/Unscheduled: scheduled

Type of Maintenance Performed: cutting brush + small trees from fence line

2. Company Performing Maintenance

Name: Qm Enterprises Inc.

Address: 7134 Marigold Dr  
North Tonawanda, NY 14120

Contact Name: Rick Becken

3. Methods Used:

cut brush + small trees from fence line

Description of Material Removed:

nothing

Problems/Comments:

none

5/14/07

DATE

Richard C Becken

INSPECTOR

Richard C Becken

INSPECTOR'S SIGNATURE

FORM 2

## MAINTENANCE RECORD LOG

PROJECT NAME: Niagara County Refuse Site,

LOCATION: Wheatfield, New York

CREW MEMBERS: RC Becken

1. Date: 05/16/07 (MM DD YY)

Time: 1400 (HH mm)

Scheduled/Unscheduled: scheduled

Type of Maintenance Performed: replace security light

2. Company Performing Maintenance

Name: O+m Enterprises Inc.

Address: 7134 Mansfield Dr.  
North Tonawanda, NY 14120

Contact Name: Rick Becken

3. Methods Used:

removed old damaged exterior light from the  
shed and replaced with similar exterior light

Description of Material Removed:

old damaged light

Problems/Comments:

none

5/16/07

DATE

Richard C Becken

INSPECTOR

Richard C Becken

INSPECTOR'S SIGNATURE

FORM 2



## MAINTENANCE RECORD LOG

PROJECT NAME: Niagara County Refuse Site,

LOCATION: Wheatfield, New York

CREW MEMBERS: RC Becker

1. Date: 05/18/07 (MM DD YY)

Time: 0950 (HH mm)

Scheduled/Unscheduled: scheduled

Type of Maintenance Performed: replace missing signs

2. Company Performing Maintenance

Name: O+M Enterprises Inc

Address: 7134 Manigold Dr.  
North Tonawanda, NY 14120

Contact Name: Pick Becker

3. Methods Used:

Signs were torn down approx. one week ago by vandals  
I replaced signs today

Description of Material Removed:

none

Problems/Comments:

none

5/18/07

DATE

Richard C Becker

INSPECTOR

Richard C Becker

INSPECTOR'S SIGNATURE

FORM 2

## MAINTENANCE RECORD LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

CREW MEMBERS: RC Becker

1. Date: 07/20/07 (MM DD YY)

Time: 1000 (HH mm)

Scheduled/Unscheduled: scheduled

Type of Maintenance Performed: repair float switches in wet well A

2. Company Performing Maintenance

Name: O+M Enterprises, Inc.

Address: 7134 Marigold Dr.  
North Tonawanda, NY 14120

Contact Name: Richard C Becker

3. Methods Used:

Removed float switches from well wall, attached some float switches to a 15' one inch PVC conduit, lowered conduit into wet well, adjusted level of switches.

Description of Material Removed:

none

Problems/Comments:

none

7/20/07

DATE

Richard C Becker

INSPECTOR

Richard C Becker

INSPECTOR'S SIGNATURE

FORM 2

## MAINTENANCE RECORD LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

CREW MEMBERS: RC Becker

1. Date: 07/26/07 (MM DD YY)

Time: 0900 (HH mm)

Scheduled/Unscheduled: scheduled

Type of Maintenance Performed: mow grass around perimeter fence

2. Company Performing Maintenance

Name: O & M Enterprises, Inc.

Address: 7134 Marigold Dr.  
North Tonawanda, NY 14120

Contact Name: Richard C Becker

3. Methods Used:

used tractor & mower to mow around perimeter fence of  
landfill

Description of Material Removed:

none

Problems/Comments:

none

7/26/07

DATE

Richard C Becker

INSPECTOR

Richard C Becker

INSPECTOR'S SIGNATURE

FORM 2

## MAINTENANCE RECORD LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

CREW MEMBERS: Richard C Becker

1. Date: 07/26/07 (MM DD YY)

Time: 1030 (HH mm)

Scheduled/Unscheduled: unscheduled

Type of Maintenance Performed: repair rear gate

2. Company Performing Maintenance

Name: D&M Enterprises, Inc.

Address: 7134 Marigold Dr.  
North Tonawanda, NY 14120

Contact Name: Rick Becker

3. Methods Used:

Vandals removed gate hinge pins on one of two rear gates, replaced  
pins in hinges installed cotter pins in hinge pins.

Description of Material Removed:

none

Problems/Comments:

none

7/26/07  
DATE

Richard C Becker  
INSPECTOR

Rich C Becker  
INSPECTOR'S SIGNATURE

FORM 2



## MAINTENANCE RECORD LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

CREW MEMBERS: RC Becker

1. Date: 080307 (MM DD YY)

Time: 0900 (HH mm)

Scheduled/Unscheduled: Unscheduled

Type of Maintenance Performed: gate repair

2. Company Performing Maintenance

Name: QAM Enterprises Inc.

Address: 7134 Manigold Dr.  
North Tonawanda, NY 14120

Contact Name: Richard Becker

3. Methods Used:

Due to vandals removing hinge pins on gates, I placed a  
section of chain with a lock on the hinge and of the gates  
securing the gate to the fence and post.

Description of Material Removed:

none

Problems/Comments:

none

8/3/07

DATE

Richard C Becker

INSPECTOR

Richard C Becker

INSPECTOR'S SIGNATURE

FORM 2

## MAINTENANCE RECORD LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

CREW MEMBERS: RC Becken

1. Date: 09/12/07 (MM DD YY)

Time:      (HH mm)

Scheduled/Unscheduled: Scheduled

Type of Maintenance Performed: annual grass mowing

2. Company Performing Maintenance

Name: D&M Enterprises, Inc.

Address: 7134 Marigold Dr.  
North Tonawanda, NY 14120

Contact Name: Rick Becken

3. Methods Used:

tractor with mower

Description of Material Removed:

none

Problems/Comments:

none

9/12/07

DATE

RC Becken

INSPECTOR

Rick Becken

INSPECTOR'S SIGNATURE

FORM 2

## MAINTENANCE RECORD LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

CREW MEMBERS:

RC Becker

1. Date: 09/13/07 (MM DD YY)

Time:      (HH mm)

Scheduled/Unscheduled: scheduled

Type of Maintenance Performed: annual grass mowing

2. Company Performing Maintenance

Name: D+M Enterprises, Inc.

Address: 7134 Marigold Dr.  
North Tonawanda, NY 14120

Contact Name: Rick Becker

3. Methods Used:

tractor with mower

Description of Material Removed:

none

Problems/Comments:

none

9/13/07

DATE

RC Becker

INSPECTOR

Rick Becker

INSPECTOR'S SIGNATURE

FORM 2

## MAINTENANCE RECORD LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

CREW MEMBERS:

RC Becker

1. Date: 09/14/07 (MM DD YY)

Time:      (HH mm)

Scheduled/Unscheduled: Scheduled

Type of Maintenance Performed: grass mowing annual

2. Company Performing Maintenance

Name: O+M Enterprises Inc.

Address: 7134 Marigold Dr.  
North Tonawanda, NY 14120

Contact Name: Rick Becker

3. Methods Used:

tractor with mower

Description of Material Removed:

none

Problems/Comments:

none

09/14/07

DATE

RC Becker

INSPECTOR

Richard Becker

INSPECTOR'S SIGNATURE

FORM 2



## MAINTENANCE RECORD LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

CREW MEMBERS:

RC Becken

1. Date: 09/17/07 (MM DD YY)

Time:      (HH mm)

Scheduled/Unscheduled: scheduled

Type of Maintenance Performed: annual grass mowing

2. Company Performing Maintenance

Name: Orm Enterprises Inc.

Address: 7134 Margol Dr.  
North Tonawanda, NY

Contact Name: Rick Becken

3. Methods Used:

tractor with mower

Description of Material Removed:

none

Problems/Comments:

none

9/17/07

DATE

RC Becken

INSPECTOR

Rick Becken

INSPECTOR'S SIGNATURE

FORM 2

## MAINTENANCE RECORD LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

CREW MEMBERS: RC Becker

1. Date: 11/01/07 (MM DD YY)

Time: 1230 (HH mm)

Scheduled/Unscheduled: scheduled

Type of Maintenance Performed: clean + check wet well pumps wet well A + B

2. Company Performing Maintenance

Name: D&M Enterprises Inc.

Address: 7134 Marigold Dr.  
Wash Tonawanda, NY 14120

Contact Name: Rick Becker

3. Methods Used:

pulled pump using a wrench, cleaned with pressure washer  
returned pump to well

Description of Material Removed:

none

Problems/Comments:

none

11/1/07

DATE

Richard C Becker

INSPECTOR

Richard C Becker

INSPECTOR'S SIGNATURE

FORM 2

## MAINTENANCE RECORD LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

CREW MEMBERS: RC Becken

1. Date: 11/02/07 (MM DD YY)

Time: 0930 (HH mm)

Scheduled/Unscheduled: scheduled

Type of Maintenance Performed: cleaned & checked wet well pump with well lid

2. Company Performing Maintenance

Name: D+M Enterprises Inc.

Address: 7154 Marigold Dr.

North Tonawanda, NY 14120

Contact Name: Rick Becken

3. Methods Used:

pulled pumps using wrench, cleaned with pressure washer, returned to well

Description of Material Removed:

none

Problems/Comments:

none

Nov. 2, 2007

DATE

Rick Becken

INSPECTOR

[Signature]

INSPECTOR'S SIGNATURE

FORM 2

## MAINTENANCE RECORD LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

CREW MEMBERS: RC Becker

1. Date: 11/21/07 (MM DD YY)

Time: 1445 (HH mm)

Scheduled/Unscheduled: unscheduled

Type of Maintenance Performed: repair fence

2. Company Performing Maintenance

Name: OxM Enterprises

Address:

Contact Name: Rick Becker

3. Methods Used:

temporarily fixed cut fence, call 911, sheriff's department  
did not show up

Description of Material Removed:

none

Problems/Comments:

none

11/21/07

DATE

RC Becker

INSPECTOR

Rick Becker

INSPECTOR'S SIGNATURE

FORM 2



## MAINTENANCE RECORD LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

CREW MEMBERS: Rc Becker

1. Date: 11/22/07 (MM DD YY)

Time: 1920 (HH mm)

Scheduled/Unscheduled: unscheduled

Type of Maintenance Performed: repair stuck level float

2. Company Performing Maintenance

Name: O+m Enterprises

Address: \_\_\_\_\_

Contact Name: Rick Becker

3. Methods Used:

Float control hung up on wiring, interlocked float

Description of Material Removed:

none

Problems/Comments:

none

11/22/07

DATE

Rc Becker

INSPECTOR

Rick Becker

INSPECTOR'S SIGNATURE

FORM 2

## MAINTENANCE RECORD LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

CREW MEMBERS: RC Becker

1. Date: 11/24/07 (MM DD YY)

Time: 2045 (HH mm)

Scheduled/Unscheduled: unscheduled

Type of Maintenance Performed: repair corroded pipe fitting on discharge in wet well A

2. Company Performing Maintenance

Name: O & M Enterprises

Address: \_\_\_\_\_

Contact Name: Rick Becker

3. Methods Used:

2" discharge pipe in wet well A corroded and broke. Tried to repair in the dark, could not do this using flashlight as only light. Will finish repair tomorrow

Description of Material Removed:

none

Problems/Comments:

no light

11/24/07  
DATE

RC Becker  
INSPECTOR

Rick Becker  
INSPECTOR'S SIGNATURE

FORM 2

## MAINTENANCE RECORD LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

CREW MEMBERS: RC Becker

1. Date: 11/25/07 (MM DD YY)

Time: 0930 (HH mm)

Scheduled/Unscheduled: scheduled

Type of Maintenance Performed: finish repair in Wet Wall A

2. Company Performing Maintenance

Name: O+M Enterprises

Address: \_\_\_\_\_

Contact Name: Rick Becker

3. Methods Used:

Removed corroded broken pipe fitting, replaced with new fitting

Description of Material Removed:

old corroded pipe fitting

Problems/Comments:

none

11/25/07

DATE

RC Becker

INSPECTOR

Rick Becker

INSPECTOR'S SIGNATURE

FORM 2

## MAINTENANCE RECORD LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

CREW MEMBERS: RC Becker

1. Date: 11/26/07 (MM DD YY)

Time: 0945 (HH mm)

Scheduled/Unscheduled: scheduled

Type of Maintenance Performed: Repair cut fence from 11/21/07

2. Company Performing Maintenance

Name: D+M Enterprises

Address: \_\_\_\_\_

Contact Name: Rick Becker

3. Methods Used:

Weaved in new section of fence that was cut prior to 11/21/07

Description of Material Removed:

none

Problems/Comments:

none

Contacted Niagara County Sheriff filed report on cut fence  
Complaint # 55956 on 11/27/07

11/26/07

DATE

RC Becker

INSPECTOR

Rick A Becker

INSPECTOR'S SIGNATURE

FORM 2



## MAINTENANCE RECORD LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

CREW MEMBERS: RC Becker

1. Date: 11/28/07 (MM DD YY)

Time: 1430 (HH mm)

Scheduled/Unscheduled: unscheduled

Type of Maintenance Performed: control float tangled in wet well D

2. Company Performing Maintenance

Name: D&M Enterprises

Address: \_\_\_\_\_

Contact Name: Rick Becker

3. Methods Used:

untangled float control in wet well D moved it slightly so it shouldnt tangle again

Description of Material Removed:

none

Problems/Comments:

none

11/28/07

DATE

RC Becker

INSPECTOR

RC Becker

INSPECTOR'S SIGNATURE

FORM 2

## MAINTENANCE RECORD LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

CREW MEMBERS: RC Becker

1. Date: 1/20/07 (MM DD YY)

Time: 1030 (HH mm)

Scheduled/Unscheduled: unscheduled

Type of Maintenance Performed: replace lock + chain on gate

2. Company Performing Maintenance

Name: O&M Enterprises, Inc.

Address: 7134 Marigold Dr.  
North Tonawanda, NY 14120

Contact Name: Rick Becker

3. Methods Used:

Found lock + chain missing from gate on east side of  
landfill at the end of Warner Ave., replaced and call Niagara  
County Sheriff's Complaint # 57362

Description of Material Removed:

none

Problems/Comments:

none

12/6/07  
DATE

Richard C Becker  
INSPECTOR

Richard C Becker  
INSPECTOR'S SIGNATURE

FORM 2

## MAINTENANCE RECORD LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

CREW MEMBERS: RC Becker

1. Date: 12/10/07 (MM DD YY)

Time: 0945 (HH mm)

Scheduled/Unscheduled: scheduled

Type of Maintenance Performed: pump install new cam lock fitting

2. Company Performing Maintenance

Name: ORM Enterprises Inc.

Address: 7134 Marigold Dr.  
North Tonawanda, NY

Contact Name: Rick Becker

3. Methods Used:

pulled pump, replaced with spare pump, installed new male  
cam lock fitting

Description of Material Removed:

old pump will be cleaned checked and place in  
service as spare pump

Problems/Comments:

none

12/10/07  
DATE

RC Becker  
INSPECTOR

Rick O Becker  
INSPECTOR'S SIGNATURE

FORM 2

## MAINTENANCE RECORD LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

CREW MEMBERS: RC Becker

1. Date: 11/21/30/7 (MM DD YY)

Time: 11400 (HH mm)

Scheduled/Unscheduled: unscheduled

Type of Maintenance Performed: repair pipe fitting

2. Company Performing Maintenance

Name: D&M Enterprises Inc

Address: 7134 Manigold Dr  
North Tonawanda, NY 14120

Contact Name: Rick Becker

3. Methods Used:

A aluminum hose end (can lock male end) corroded and broke, replaced male end

Description of Material Removed:

none

Problems/Comments:

none

12/15/07

DATE

RC Becker

INSPECTOR

Rick Becker

INSPECTOR'S SIGNATURE

FORM 2



## MAINTENANCE RECORD LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

CREW MEMBERS:

RC Becker

1. Date: 1/21/07 (MM DD YY)

Time: 1230 (HH mm)

Scheduled/Unscheduled: unscheduled

Type of Maintenance Performed: changed pump

2. Company Performing Maintenance

Name: OxM Enterprises

Address: 7134 Marigold Dr  
North Tonawanda, NY

Contact Name: Richard Becker

3. Methods Used:

pulled pump from Wetwell A installed spare  
pump, original clogged with debris

Description of Material Removed:

old pump

Problems/Comments:

none

12/14/07

DATE

Richard C Becker

INSPECTOR

Richard C Becker

INSPECTOR'S SIGNATURE

FORM 2

## **APPENDIX E**

### **WATER LEVEL RECORDS**

# WATER LEVEL RECORD

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

DATE: 01/11/90  
(MM DD YY)

CREW MEMBERS: Richard C. Becken

Observation Well	Time of Measurement	Top of Casing Elevation A	Depth to Water B	Water Level Elevation A-B
		feet	feet	feet
East "A"	1300	598.93	24.98	573.95
East "B"	1240	596.23	19.38	576.85
East "C"	1220	598.69	19.51	579.18
East "D"	1200	593.20	14.38	578.82
NCR-3S	1115	579.60	3.04	576.56
NCR-4S	1105	591.88	2.94	588.94
NCR-5S	1155	597.34	5.77	591.57
NCR-13S	1145	593.13	3.85	589.28

## Wet Wells

		Depth of Water	
WWA	1030	~14"	
WWB	1100	~12"	
WWC	1125	~10"	
WWD	1045	~12"	

Total System

Time of

Flow

Measurement

36603770	1030

# WATER LEVEL RECORD

PROJECT NAME: Niagara County Refuse Site LOCATION: Wheatfield, New York  
 DATE: 02/07/07  
 (MM DD YY)  
 CREW MEMBERS: Richard C. Becken

Observation Well	Time of Measurement	Top of Casing Elevation A	Depth to Water B	Water Level Elevation A-B
		feet	feet	feet
East "A"	1455	598.93	24.65	574.28
East "B"	1440	596.23	19.56	576.67
East "C"	1425	598.69	19.81	578.88
East "D"	1415	593.20	14.68	578.52
NCR-3S	1325	579.60	3.75	575.85
NCR-4S	1240	591.88	3.42	588.46
NCR-5S	1355	597.54	6.83	590.51
NCR-13S	1140	593.13	4.51	588.62

## Wet Wells

		depth of water		
WWA	1155	~13"		
WWB	1230	~12"		
WWC	1320	~10"		
WWD	1215	~10"		

Total System

Time of

Flow

Measurement

36275475	1155

## WATER LEVEL RECORD

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

DATE: 03/10/07  
(MM DD YY)

CREW MEMBERS: Richard C. Becken

Observation Well	Time of Measurement	Top of Casing Elevation A	Depth to Water B	Water Level Elevation A-B
		feet	feet	feet
East "A"		598.93	24.84	574.09
East "B"		596.23	fringe	
East "C"		598.69	19.71	578.98
East "D"		593.20	14.82	578.38
NCR-3S		579.60	2.7	576.90
NCR-4S		591.88	2.8	589.08
NCR-5S		597.34	6.28	591.06
NCR-13S		593.13	4.39	588.74

### Wet Wells

		depth of water		
WWA	12 <sup>20</sup>	~15"		
WWB		~8"		
WWC		~8"		
WWD		~12"		

Total System

Time of

Flow

Measurement

36513580	12 <sup>20</sup>

FORM 16



## WATER LEVEL RECORD

PROJECT NAME: Niagara County Refuse Site LOCATION: Wheatfield, New York

DATE: 04/02/07  
(MM DD YY)

CREW MEMBERS: Richard C. Becken

Observation Well	Time of Measurement	Top of Casing Elevation A	Depth to Water B	Water Level Elevation A-B
		feet	feet	feet
East "A"		598.93	24.88	574.05
East "B"		596.23	19.98	576.25
East "C"		598.69	20.1	578.59
East "D"		593.20	15.24	577.96
NCR-3S		579.60	3.26	576.34
NCR-4S		591.88	2.93	588.95
NCR-5S		597.34	6.08	591.26
NCR-13S		593.13	4.25	588.88

### Wet Wells

depth of water				
WWA		~13"		
WWB		~14"		
WWC		~10"		
WWD		~10"		

Total System

Time of

Flow

Measurement

3706660	

FORM 16

## WATER LEVEL RECORD

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

DATE: 6/5/04/6/7  
(MM DD YY)

CREW MEMBERS: Richard C. Becken

Observation Well	Time of Measurement	Top of Casing Elevation A	Depth to Water B	Water Level Elevation A-B
		feet	feet	feet
East "A"		598.93	25.02	573.91
East "B"		596.23	20.07	576.16
East "C"		598.69	20.17	578.52
East "D"		593.20	15.09	578.11
NCR-3S		579.60	3.5	576.1
NCR-4S		591.88	3.19	588.69
NCR-5S		597.34	6.75	590.59
NCR-13S		593.13	4.81	588.32

### Wet Wells

		depth of water		
WWA		~15"		
WWB		~9"		
WWC		~10"		
WWD		~10"		

Total System  
Flow

Time of  
Measurement

382.77570	



## WATER LEVEL RECORD

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

DATE: 06/01/07  
(MM DD YY)

CREW MEMBERS: Richard C. Becken

Observation Well	Time of Measurement	Top of Casing Elevation A	Depth to Water B	Water Level Elevation A-B
		feet	feet	feet
East "A"	1350	598.93	25.5	573.43
East "B"	1325	596.23	19.78	576.45
East "C"	1300	598.69	19.87	578.82
East "D"	1235	593.20	15.1	578.1
NCR-3S	1140	579.60	5.89	573.71
NCR-4S	10:45	591.88	3.9	587.98
NCR-5S	1400	597.34	8.87	588.47
NCR-13S	10:00	593.13	7.01	586.12

### Wet Wells

Depth of Water				
WWA	0945	~14"		
WWB	1055	~11"		
WWC	1130	~10"		
WWD	1215	~12"		

Total System

Time of

Flow

Measurement

38453690	0945

FORM 16

## WATER LEVEL RECORD

PROJECT NAME: Niagara County Refuse Site LOCATION: Wheatfield, New York

DATE: 10/7/02  
(MM DD YY)

CREW MEMBERS: Richard C. Becken

Observation Well	Time of Measurement	Top of Casing Elevation A	Depth to Water B	Water Level Elevation A-B
		feet	feet	feet
East "A"	1430	598.93	24.98	573.95
East "B"	1445	596.23	19.86	576.37
East "C"	1455	598.69	19.99	578.70
East "D"	1510	593.20	15.19	578.01
NCR-3S	1405	579.60	dry	
NCR-4S	1355	591.88	dry	
NCR-5S	1420	597.34	10.89	586.35
NCR-13S	1325	593.13	7.44	585.69

### Wet Wells

		depth of water		
WWA	1315	~12"		
WWB	1345	~10"		
WWC	<del>1315</del> 1400	~8"		
WWD	1330	~10"		

Total System

Time of

Flow

Measurement

385172.00	1315

## WATER LEVEL RECORD

PROJECT NAME: Niagara County Refuse Site LOCATION: Wheatfield, New York

DATE: 12/01/07  
(MM DD YY)

CREW MEMBERS: Richard C. Becken

Observation Well	Time of Measurement	Top of Casing Elevation A	Depth to Water B	Water Level Elevation A-B
		feet	feet	feet
East "A"	1230	598.93	24.96	573.97
East "B"	1245	596.23	19.85	576.38
East "C"	1300	598.69	19.97	578.72
East "D"	1320	593.20	15.11	578.09
NCR-3S	1125	599.60	dry	
NCR-4S	1100	591.88	dry	
NCR-5S	1000	597.34	dry	
NCR-13S	1020	593.13	7.7	585.43

### Wet Wells

		depth of water		
WWA	1415	~10"		
WWB	1045	~10"		
WWC	1130	~6"		
WWD	1035	~12"		

Total System Flow      Time of Measurement

38561030	1415

## WATER LEVEL RECORD

PROJECT NAME: Niagara County Refuse Site LOCATION: Wheatfield, New York

DATE: 10/9/11/7/0/7  
(MM DD YY)

CREW MEMBERS: Richard C. Becken

Observation Well	Time of Measurement	Top of Casing Elevation A	Depth to Water B	Water Level Elevation A-B
		feet	feet	feet
East "A"	1710	598.93	25.03	573.90
East "B"	1710	596.23	19.81	576.42
East "C"	1655	598.69	20.19	578.50
East "D"	1635	593.20	15.16	578.04
NCR-3S	1515	579.60	dry	
NCR-4S	1530	591.88	dry	
NCR-5S	1540	597.37	dry	
NCR-13S	1520	593.13	dry	

## Wet Wells

		depth of water		
WWA	1525	~8"		
WWB	1535	~10"		
WWC	1510	~8"		
WWD	1545	~9"		

Total System Flow	Time of Measurement

FORM 16



## WATER LEVEL RECORD

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

DATE: 11/01/2017  
(MM DD YY)

CREW MEMBERS: Richard C. Becken

Observation Well	Time of Measurement	Top of Casing Elevation A	Depth to Water B	Water Level Elevation A-B
		feet	feet	feet
East "A"	1250	598.93	24.98	573.95
East "B"	1225	596.23	19.5	576.73
East "C"	1205	598.67	19.78	578.91
East "D"	1145	593.20	14.64	578.56
NCR-3S	1115	579.60	6.0 dry	< 573.60
NCR-4S	1125	591.88	5.0 dry	< 586.88
NCR-5S	0850	597.34	11.25 dry	< 586.09
NCR-13S	0915	593.13	7.72	585.41

Wet Wells

*depth of water*

WWA	0900	~12"		
WWB	1130	~11"		
WWC	1000	~6"		
WWD	0930	~10"		

Total System

Time of

Flow

Measurement

38622970	0900

FORM 16

# WATER LEVEL RECORD

PROJECT NAME: Niagara County Refuse Site LOCATION: Wheatfield, New York

DATE: 11/14/07  
(MM DD YY)

CREW MEMBERS: Richard C. Becken

Observation Well	Time of Measurement	Top of Casing Elevation A	Depth to Water B	Water Level Elevation A-B
		feet	feet	feet
East "A"	1155	598.93	25.11	573.82
East "B"	1140	596.23	19.52	576.71
East "C"	1125	598.69	19.93	578.76
East "D"	1115	593.20	14.8	578.40
NCR-3S	1030	579.60	6.0 dry	< 573.60
NCR-4S	1020	591.88	5.0 dry	< 586.88
NCR-5S	1100	597.34	11.25 dry	< 586.09
NCR-13S	0930	593.13	7.75	585.38

## Wet Wells

		depth of water		
WWA	0945	~ 11"		
WWB	1010	~ 13"		
WWC	1045	~ 12"		
WWD	0955	~ 12"		

Total System Flow	Time of Measurement
3863650	0945

FORM 16



# WATER LEVEL RECORD

PROJECT NAME: NIAGARA COUNTY  
REFUSE SITE

LOCATION: Wheatfield, New York

DATE: 1/20/10  
(MM D D Y Y)

CREW MEMBERS: RC Boiken

Observation Well	Time of Measurement	Top of Casing Elevation A	Depth to Water B	Water Level Elevation A-B
		feet	feet	feet
EAST "A"	1130	598.93	25.13	573.80
EAST "B"	1110	596.23	19.59	576.64
EAST "C"	1055	598.69	19.97	578.72
EAST "D"	1045	593.20	14.86	578.34
NCR-3S	0935	579.60	6.0 dry	573.60
NCR-4S	1000	591.88	5.0 dry	586.88
NCR-5S	1030	597.34	11.25 dry	586.09
NCR-13S	0900	593.13	8.0 dry	585.13

## WET WELLS

Wet Well	Time of Measurement		Depth of Water
WW A	0900	<del>598.93</del>	~12"
WW B	1010	<del>596.23</del>	~14"
WW C	0940		~13"
WW D	0920		~12"

Total System Flow	Time of Measurement

FORM 16