

# SEMI-ANNUAL DATA SUMMARY REPORT

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## NIAGARA COUNTY REFUSE DISTRICT SITE

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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 FOR:

**NIAGARA COUNTY REFUSE DISTRICT  
AND PRP GROUP**

PREPARED BY:

**PARSONS**

40 La Riviere Drive, Suite 350  
Buffalo, New York 14202  
(716) 541-0730 Fax (716) 541-0760

**July 2011**

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*Prepared For:*

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**July 2011**

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# SECTION 1

## INTRODUCTION

The Niagara County Refuse Site Potentially Responsible Parties (PRP) Group completed a remedial action at the Niagara County Refuse Site (Site), Wheatfield, New York in 2000. The remedial action was conducted in accordance with the United States Environmental Protection Agency (USEPA) Record of Decision (USEPA, 1993) and the United States District Court Consent Decree (USEPA, 1995). The PRP Group is currently conducting operations, maintenance, and monitoring (OM&M) in accordance with the USEPA-approved OM&M Manual (CRA, 2000). This data report summarizes second quarter monitoring activities from April through June 2011.

### 1.1 PROCEDURES

#### 1.1.1 Effluent Sampling

The current Industrial Wastewater Discharge Permit (Appendix A) was issued by the City of North Tonawanda, and is effective from March 31, 2010 through April 1, 2013. The current permit has a reduced analytical parameter list compared to the original permit, and a semi-annual sampling frequency. Prior to March 2007, samples were collected monthly. In 2011, an effluent sample was collected on March 4 from Wet Well A, which receives water from the leachate collection system surrounding the landfill. Composite 24-hour samples were collected from Wet Well A using an automated sampler. The next effluent sample is scheduled to be collected in September 2011.

#### 1.1.2 Groundwater Sampling

Groundwater samples were not collected during this reporting period. In accordance with the approved OM&M Plan (CRA, 2000), the groundwater sampling frequency was decreased from a quarterly to a semi-annual basis in 2003, and from a semi-annual to an annual basis beginning in 2006. The next round of groundwater samples is scheduled to be collected in November 2011.

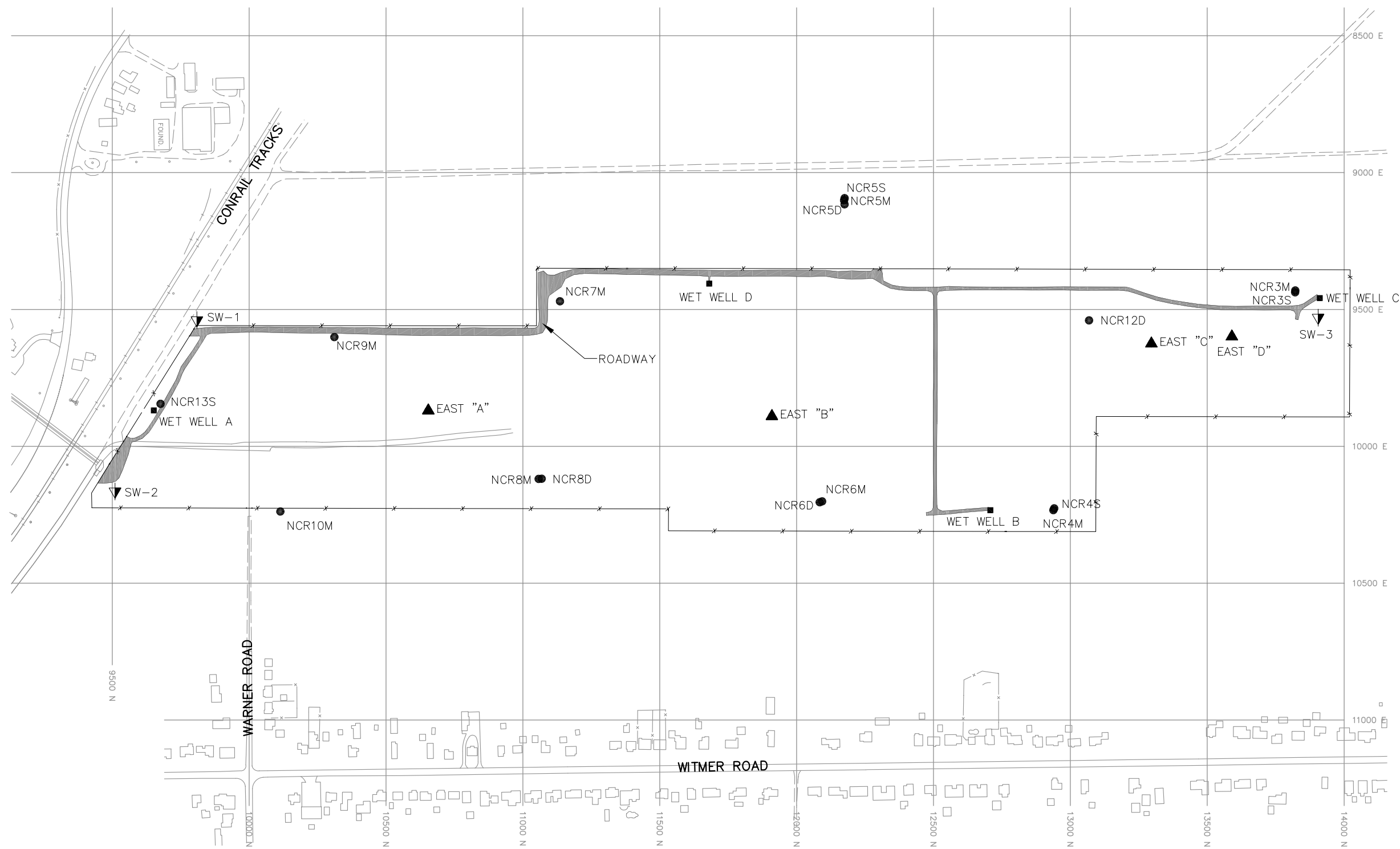
#### 1.1.3 Water Level Measurements

Water levels were measured during monthly Site inspections in April, May, and June 2011. Water levels were measured in four observation wells (piezometers East A, East B, East C, and East D), four effluent monitoring locations (wet wells A, B, C, and D), and four monitoring wells (NCR-3S, NCR-4S, NCR-5S, and NCR-13S). 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.

#### 1.1.4 Site Inspections

Monthly Site inspections were conducted on April 9, May 6, and June 3, 2011. During the Site inspections, the manholes, wet wells, landfill cap, wetlands, perimeter fence,

drainage ditches, swale outlets, culverts, gas vents, and monitoring wells were each 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



SCALE: 1"=400'

FIGURE 1.1

NIAGARA COUNTY REFUSE SITE  
WHEATFIELD, NEW YORK  
SITE PLAN

**PARSONS**

180 LAWRENCE BELL DRIVE, SUITE 104, WILLIAMSVILLE, N.Y. 14221, PHONE: 716-633-7074

## **SECTION 2**

### **RESULTS**

This section describes the results of the second quarter OM&M activities conducted from April through June 2011. Activities during this quarter included water level measurements, mowing around wells and the perimeter fence, and Site inspections.

#### **2.1 EFFLUENT SAMPLES**

No effluent samples were required to be collected under the discharge permit during the reporting period. The next effluent sample is scheduled to be collected in September 2011. The current City of North Tonawanda Industrial Wastewater Discharge Permit (March 31, 2010 through April 1, 2013) has been included in Appendix A.

#### **2.2 GROUNDWATER ANALYTICAL RESULTS**

Monitoring wells NCR-3S, NCR-4S, NCR-5S, and NCR-13S were not sampled during this reporting quarter, based on the current annual groundwater sampling schedule specified in the OM&M Manual. Groundwater sample collection is planned for November 2011, assuming groundwater levels are adequate. The locations of the monitoring wells are provided in Figure 1.1.

#### **2.3 WATER LEVELS**

Results of water level measurements collected during this reporting period are presented in Appendix B. Water levels were collected from the monitoring locations on April 9, May 6, and June 3, 2011. Water levels in the monitoring wells generally decreased over the reporting quarter. Measured water levels were consistent with levels observed in previous years between April and June.

#### **2.4 SITE INSPECTIONS**

A summary of the Site inspection findings is included in Table 2.1. Copies of the Site Inspection Logs are included in Appendix C.

Each of the inspections found the manholes and wet wells to be in good condition. Water levels were measured in the wet wells during the inspections and recorded on the water level records.

Examination of the landfill cap vegetative cover included checking for erosion, bare areas, wash-outs, leachate seeps, and vegetation height and condition. No surface erosion or leachate seeps were noted. The grass covering the landfill was noted as short during the April inspection and was also noted to be conditions typical for early spring. The grass covering the landfill was noted as tall during the May and June inspections.

Additionally, during the examination of the landfill cap, the access roads were examined for erosion, potholes/puddles, and obstructions. The April inspection noted



bare areas or areas of dead or dying vegetation along the road sides. This was likely the result of the recent winter conditions, as the bare areas were not noted in the May and June inspections. All other aspects of the access roads that were examined were deemed acceptable.

The wetlands were visually examined to assess the condition of the vegetation, change in water levels, and to observe general conditions. In April, the wetland vegetation was noted to be in a typical condition following winter. During the May and June inspections, they were in good condition, typical for spring. A slightly higher than normal water level for the time of year was noted in the wetland area during the April site inspection, a higher than normal water level in the May site inspection, and a normal level was noted in June.

All other parts of the landfill system which were examined, including the drainage ditches, swale outlets, culverts, and gas vents, were found to be in acceptable condition during the reporting period.

## **2.5 MAINTENANCE**

Scheduled maintenance during the reporting period included mowing the perimeter of the landfill, inside the fence, and walking paths to monitoring and observation wells on June 2. Additionally, the rusted outer protective casing at the East B water level monitoring location was replaced on June 3. Copies of the Maintenance Record Logs have been included in Appendix D.

No unscheduled maintenance was completed during the reporting period.

No major repairs were required during the reporting period.

## **2.6 OM&M OVERSIGHT**

Parsons' Quality Assurance (QA) work included periodic oversight of OM&M activities by O&M Enterprises, Inc., review of monthly inspection and monitoring data, and periodic communications with O&M Enterprises. Upon completion of work performed by O&M Enterprises, routine activity report forms were completed. Parsons reviewed the report forms for completeness, and recorded problems, if any, on the forms (Appendices B, C, and D).

**Table 2.1**  
**Quarterly Site Inspection Results Summary**

<b>Inspection Item</b>	<b>Acceptable</b>	<b>Requires Action</b>	<b>Comments</b>
Manholes	X		
Wet Wells	X		Water levels were measured monthly.
Wetlands	X		Water level was noted to be slightly high during the April inspection, high during the May inspection, and normal during the June inspection. Water levels were within the historical range.
Perimeter Fence	X		No damage was observed during the quarter.
Condition of Roads	X		No potholes were observed. Areas of dead/dying vegetation were noted in April on the road sides, likely due to winter conditions, as the vegetation was growing in May and June.
Integrity of the Cap	X		No erosion was observed. Vegetation was noted as short in April and tall in May and June.
Drainage Ditches/Swales	X		
Gas Venting System	X		
Wells	X		Water levels were measured monthly.
Culverts	X		
Other	X		No issues were identified during the reporting period with any other aspects of the site.

## SECTION 3

### SUMMARY AND CONCLUSIONS

The following summary and conclusions were developed based on the data collected during this reporting period:

- The landfill was inspected monthly and was appropriately maintained. No major repairs were required during the reporting period. Typically, repairs are made as necessary following identification of problems or maintenance needs.
- As specified in the OM&M Manual, annual groundwater monitoring commenced in 2006. Groundwater samples are currently scheduled to be collected in November 2011, assuming sufficient groundwater is available in the wells.
- Water levels were measured in the wet wells, monitoring wells, and the observation wells on the landfill on a monthly basis. Water levels in the monitoring wells generally decreased during the reporting period. Measured water levels were consistent with levels observed in previous years between April and June.
- Wetlands vegetation was typical of late spring conditions during the April inspection but was in good condition during the May and June inspections. The wetlands vegetation will continue to be visually assessed during the monthly site inspections.

## **SECTION 4**

### **REFERENCES**

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

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

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 CHAIN-OF-CUSTODY**

**CITY OF NORTH TONAWANDA**  
6/27/00  
**INDUSTRIAL WASTEWATER DISCHARGE PERMIT**

---

**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

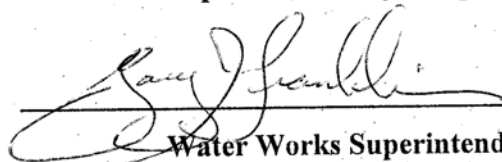
Classified by S.I.C. Number(s): N/A

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 Wastewater 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 March, 2010**

**To expire the 1st day of April, 2013**

  
\_\_\_\_\_  
Water Works Superintendent

Signed this 16 day of June 2010

**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. 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.

**CITY OF NORTH TONAWANDA WATER WORKS  
WASTEWATER DEPARTMENT  
830 RIVER ROAD  
NORTH TONAWANDA, NEW YORK 14120  
PHONE: (716) 695 - 8560  
FAX: (716) 695 - 8563**

Paula Sattelberg  
Superintendent



David A. Scott  
Chief Operator

John C. Maurer  
Maintenance Supervisor

William M. Davignon  
Lab Director/Chemist

**CHAIN OF CUSTODY**  
Sampling Record  
**NIAGARA COUNTY REFUSE SITE**

DATE: March 3 & 4, 2011

SAMPLES SIGNATURE Richard Beck SITE NAME: NIAGARA COUNTY REFUSE SITE

SPL #	SAMPLE NAME	DATE	TIME	SAMPLE LOCATION	SAMPLE TYPE	#OF BTLS
01	30311RCBEFF	3/3/11	0800	Wet Well A	volatiles	2
02	"	3/3/11	1700	" " "	"	2
03	"	3/4/11	0830	" " "	"	2
04	"	3/3/11 - 3/4/11	0800 - 0800	" " "	Wet chemistry	1

**FLows:** FINAL METER READING 53616420  
INITIAL METER READING 53583165  
MONTHLY FLOW 33,255

RELINQUISHED BY: Richard Beck  
RECEIVED BY: Walt [Signature]  
DATE 3/4/11  
TIME 8:07 AM

**APPENDIX B**  
**WATER LEVEL RECORDS**

## WATER LEVEL RECORD

PROJECT NAME: *NIAGARA COUNTY  
REFUSE SITE*

LOCATION: Wheatfield, New York

DATE: 4/9/2011  
(MM DD YY)

CREW MEMBERS: RC 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"	12:15	598.93	26.13	572.80
EAST "B"	11:55	596.23	20.12	576.11
EAST "C"	11:25	598.69	20.65	578.04
EAST "D"	11:15	593.20	15.65	577.55
NCR-3S	9:55	579.60	3.48	576.12
NCR-4S	10:30	591.88	2.91	588.97
NCR-5S	11:00	597.34	6.23	591.11
NCR-13S	8:15	593.13	4.51	588.62

### WET WELLS

Wet Well	Time of Measurement	Total Flow	Depth of Water
WW A	8:00		~12"
WW B	10:15		~6"
WW C	9:45		~12"
WW D	9:25		~7"

Total System Flow	Time of Measurement
55158875	8:00

FP-3D

## WATER LEVEL RECORD

PROJECT NAME: *NIAGARA COUNTY  
REFUSE SITE*

LOCATION: Wheatfield, New York

DATE: 5/6/2011  
(MM DD YY)

CREW MEMBERS: RC 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"	1110	598.93	26.15	572.78
EAST "B"	1125	596.23	20.31	575.92
EAST "C"	1140	598.69	20.37	578.32
EAST "D"	1155	593.20	15.75	577.45
NCR-3S	950	579.60	3.31	576.29
NCR-4S	1025	591.88	2.9	588.98
NCR-5S	1055	597.34	6.21	591.13
NCR-13S	1045	593.13	4.52	588.61

### WET WELLS

Wet Well	Time of Measurement	Total Flow	Depth of Water
WW A	915		~10"
WW B	1010		~6"
WW C	945		~8"
WW D	925		~6"

Total System Flow	Time of Measurement
56224015	915

FP-3D

## WATER LEVEL RECORD

PROJECT NAME: *NIAGARA COUNTY  
REFUSE SITE*

LOCATION: Wheatfield, New York

DATE: 6/3/2011  
(MM DD YY)

CREW MEMBERS: RC 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"	12:15	598.93	26.22	572.71
EAST "B"	11:55	596.23	19.98	576.25
EAST "C"	11:25	598.69	20.82	577.87
EAST "D"	12:55	593.20	15.92	577.28
NCR-3S	9:55	579.60	3.61	575.99
NCR-4S	10:30	591.88	3.37	588.51
NCR-5S	11:00	597.34	7.16	590.18
NCR-13S	9:20	593.13	5.2	587.93

### WET WELLS

Wet Well	Time of Measurement	Total Flow	Depth of Water
WW A	9:00		~8"
WW B	10:15		~5"
WW C	9:45		~9"
WW D	9:25		~6"

Total System Flow	Time of Measurement
57003360	9:00

FP-3D

**APPENDIX C**  
**MONTHLY INSPECTION LOGS**

### MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, NY

DATE: 4/9/2011  
(MM DD YY)

INSPECTOR(S): RC Becken

<i>Item</i>	<i>Inspect For</i>	<i>Action Required</i>	<i>Comments</i>
<b>1 Perimeter collection System/Off-Site Forcemain</b>			
<input type="checkbox"/>	Manholes	- cover on securely	<u>yes</u>
		- condition of cover	<u>good</u>
		- condition of inside of manhole	<u>good</u>
		- flow conditions	<u>no flow apparent</u>
<input type="checkbox"/>	Wet Wells	- cover on securely	<u>yes</u>
		- condition of cover	<u>good</u>
		- condition of inside of wet well	<u>good</u>
<b>2 Landfill Cap</b>			
<input type="checkbox"/>	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>



### MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, NY

DATE: 4/9/2011  
(MM DD YY)

INSPECTOR(S): RC Becken

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

### MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, NY

DATE: 4/9/2011  
(MM DD YY)

INSPECTOR(S): RC Becken

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

### MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, NY

DATE: 5/6/2011  
(MM DD YY)

INSPECTOR(S): RC Becken

<i>Item</i>	<i>Inspect For</i>	<i>Action Required</i>	<i>Comments</i>
<b>1 Perimeter collection System/Off-Site Forcemain</b>			
<input type="checkbox"/>	Manholes	- cover on securely	<u>yes</u>
		- condition of cover	<u>good</u>
		- condition of inside of manhole	<u>good</u>
		- flow conditions	<u>no apparent flow</u>
<input type="checkbox"/>	Wet Wells	- cover on securely	<u>yes</u>
		- condition of cover	<u>good</u>
		- condition of inside of wet well	<u>good</u>
<b>2 Landfill Cap</b>			
<input type="checkbox"/>	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>high</u>
		- dead/dying vegetation	<u>none</u>

### MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, NY

DATE: 5/6/2011  
(MM DD YY)

INSPECTOR(S): RC Becken

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

### MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, NY

DATE: 5/6/2011  
(MM DD YY)

INSPECTOR(S): RC Becken

<i>Item</i>	<i>Inspect For</i>	<i>Action Required</i>	<i>Comments</i>
4 Other Site Systems (continued)			
<input type="checkbox"/>	Drainage Ditches/	- sediment buildup	<u>none</u>
<input type="checkbox"/>	Swale Outlets	- 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	- 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	- intact/damage	<u>intact</u>
<input type="checkbox"/>	Wells	- locks secure	<u>yes</u>

### MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, NY

DATE: 6/3/2011  
(MM DD YY)

INSPECTOR(S): RC Becken

<i>Item</i>	<i>Inspect For</i>	<i>Action Required</i>	<i>Comments</i>
<b>1 Perimeter collection System/Off-Site Forcemain</b>			
<input type="checkbox"/>	Manholes	- cover on securely	<u>good</u>
		- condition of cover	<u>good</u>
		- condition of inside of manhole	<u>good</u>
		- flow conditions	<u>no apparent flow</u>
<input type="checkbox"/>	Wet Wells	- cover on securely	<u>yes</u>
		- condition of cover	<u>good</u>
		- condition of inside of wet well	<u>good</u>
<b>2 Landfill Cap</b>			
<input type="checkbox"/>	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>tall</u>
		- dead/dying vegetation	<u>none</u>

### MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, NY

DATE: 6/3/2011  
(MM DD YY)

INSPECTOR(S): RC Becken

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

### MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, NY

DATE: 6/3/2011  
(MM DD YY)

INSPECTOR(S): RC Becken

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



**APPENDIX D**  
**MAINTENANCE RECORD LOGS**

**MAINTENANCE RECORD LOG**

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

CREW MEMBERS: RC Becken

1. Date 6/2/2011

Time 8:30

Scheduled/Unscheduled:

Type of Maintenance Performed: mowed grass near fence line and wells

2. Company Performing Maintenance \_\_\_\_\_

Name: O&M Enterprises, Inc.

Address: 7134 Marigold Dr

North Tonawanda, NY

Contact Name: Rick Becken

3. Methods Used:

Tractor mounted mower

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Description of Material Removed:

none

\_\_\_\_\_  
\_\_\_\_\_

Problems/Comments:

none

\_\_\_\_\_  
\_\_\_\_\_

6/2/2011 Richard C Becken

DATE

INSPECTOR

INSPECTOR'S SIGNATURE

# MAINTENANCE RECORD LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

CREW MEMBERS: RC Becken

1. Date 6/3/2011

Time 12:30

Scheduled/Unscheduled: scheduled

Type of Maintenance Performed: repaired East B well

2. Company Performing Maintenance \_\_\_\_\_

Name: O&M Enterprises

Address: 7134 Marigold Dr.

N. Tonawanda, NY

Contact Name: Rick Becken

3. Methods Used:

well outer casing rusted removed old outercasing and installed new

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Description of Material Removed:

old casing

\_\_\_\_\_

\_\_\_\_\_

Problems/Comments:

none

\_\_\_\_\_

\_\_\_\_\_

DATE 6/03/11

INSPECTOR

INSPECTOR'S SIGNATURE

FORM 2

Rick Becken

**APPENDIX E**

**COMPACT DISK CONTAINING REPORT**