

# QUARTERLY DATA SUMMARY REPORT THIRD QUARTER 2013

---

## NIAGARA COUNTY REFUSE DISTRICT SITE

Wheatfield, Niagara County, New York

(NYSDEC Site No. 9-32-026)

---

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

**October 2013**

# **QUARTERLY DATA SUMMARY REPORT THIRD QUARTER 2013**

---

**NIAGARA COUNTY REFUSE DISTRICT SITE  
Wheatfield, Niagara County, New York  
(NYSDEC Site No. 9-32-026)**

---

*Prepared 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

**October 2013**

## TABLE OF CONTENTS

### Page No.

#### **SECTION 1 INTRODUCTION..... 1-1**

1.1	Procedures .....	1-1
1.1.1	Effluent Sampling.....	1-1
1.1.2	Groundwater Sampling.....	1-1
1.1.3	Water Level Measurements.....	1-1
1.1.4	Site Inspections.....	1-2

#### **SECTION 2 RESULTS ..... 2-1**

2.1	Effluent Samples .....	2-1
2.2	Groundwater Analytical Results .....	2-1
2.3	Water Levels.....	2-1
2.4	Site Inspections.....	2-1
2.5	Maintenance .....	2-2
2.6	OM&M Oversight .....	2-2

#### **SECTION 3 SUMMARY AND CONCLUSIONS ..... 3-1**

#### **SECTION 4 REFERENCES..... 4-1**

#### **APPENDIX A CITY OF NORTH TONAWANDA INDUSTRIAL WASTEWATER DISCHARGE PERMIT AND CHAIN-OF-CUSTODY**

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

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

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

#### **APPENDIX E COMPACT DISK CONTAINING REPORT**

## TABLE OF CONTENTS

Page No.

### LIST OF TABLES

Table 2.1 Quarterly Site Inspection Results Summary .....	2-3
---	-----

### LIST OF FIGURES

Figure 1.1 Site Plan.....	1-3
---------------------------	-----

## **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 performing operations, maintenance, and monitoring (OM&M) in accordance with the USEPA-approved OM&M Manual (CRA, 2000). This data report summarizes the third quarter monitoring activities conducted from July through September 2013.

#### **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, 2013 through April 1, 2016. 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. During the current reporting period (July through September 2013), an effluent sample was collected on September 12. The next effluent sample is scheduled to be collected in March 2014. Effluent samples are collected 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.

##### **1.1.2 Groundwater Sampling**

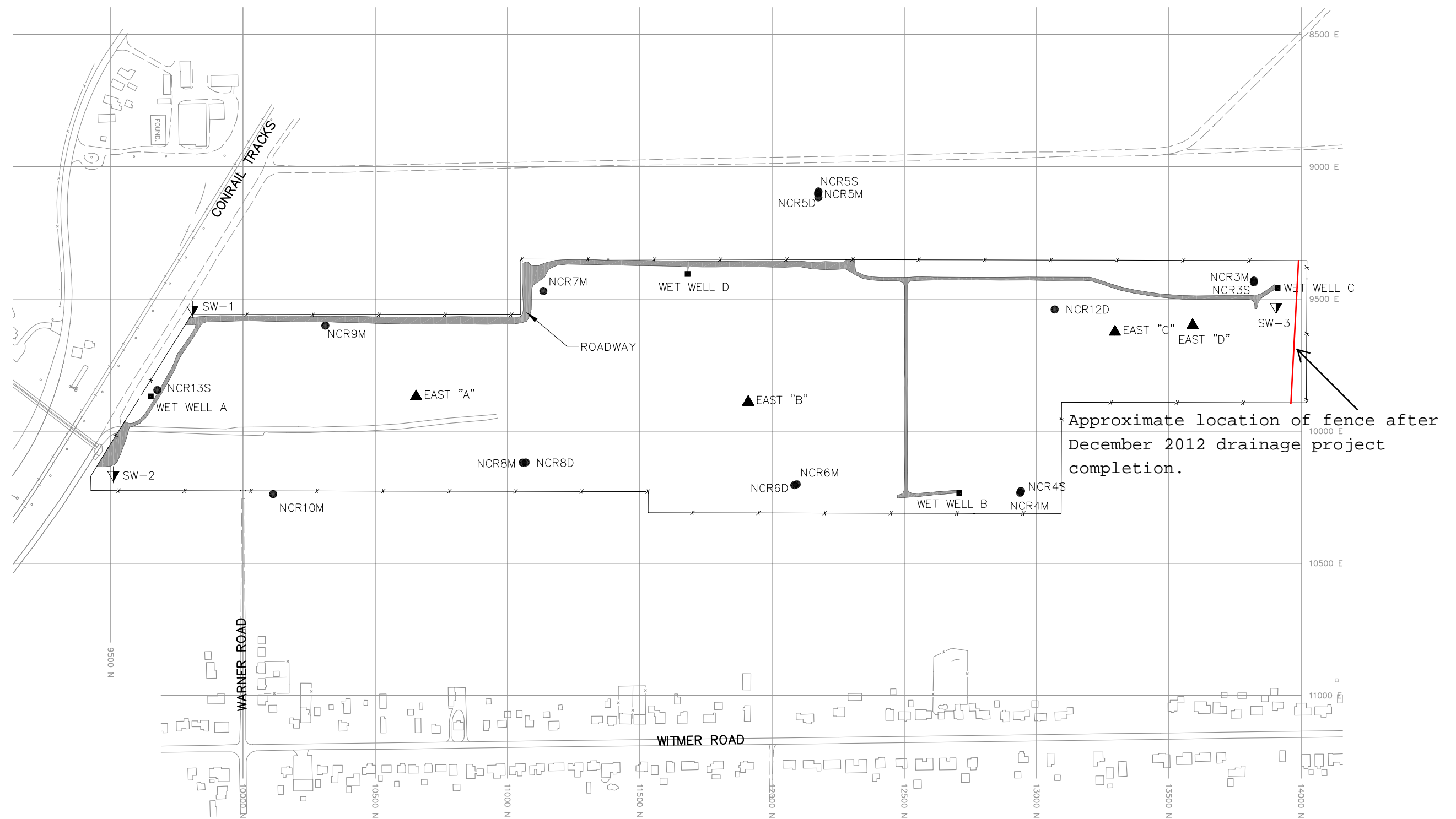
Groundwater samples were not collected during this reporting period. In accordance with the approved OM&M Plan (CRA, 2000), the groundwater sampling frequency was decreased from a quarterly to a semi-annual basis in 2003, and from a semi-annual to an annual basis beginning in 2006. The next round of groundwater samples is scheduled to be collected in November 2013.

##### **1.1.3 Water Level Measurements**

Water levels were measured during monthly Site inspections in July, August, and September 2013. Water levels were measured from four observation well locations (Piezometers East A, East B, East C, and East D), four effluent monitoring locations (Wet Wells A, B, C, and D), and four monitoring well locations (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 July 5, August 1, and September 3, 2013. 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 |

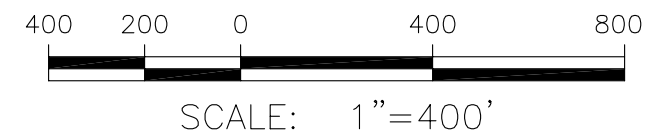


FIGURE 1.1

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 third quarter OM&M activities conducted from July through September 2013. Activities during this quarter included water level measurements, effluent sampling, and monthly Site inspections. Additionally, non-routine items included purchasing and installing a new transformer for the alarm system, purchasing and install a new battery for the alarm system, and mowing the landfill cap.

#### **2.1 EFFLUENT SAMPLES**

One effluent sample was collected during the reporting period (September 12, 2013). The effluent sample was collected by O&M Enterprises, and analyzed by the City of North Tonawanda. The analytical results are used by the City to confirm that the effluent received from the Site meets the criteria for acceptance by the City treatment system. These data are not presented in the quarterly monitoring reports, but will be summarized in the 2013 annual monitoring report. The current City of North Tonawanda Industrial Wastewater Discharge Permit (March 31, 2013 through April 1, 2016) and chain-of-custody for the September 2013 sampling event have been included in Appendix A. The next effluent sample is scheduled to be collected in March 2014.

#### **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 for the above-listed wells is planned for November 2013, assuming groundwater levels are adequate, and sufficient water is available for sampling within the monitoring wells. 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 July 5, August 1, and September 3, 2013. Water levels in the monitoring wells generally decreased over the reporting quarter. Measured water levels were consistent with the levels observed in previous years between July and September.

#### **2.4 SITE INSPECTIONS**

A summary of the Site inspection findings is included in Table 2.1. Copies of the Site 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 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, height of vegetation, and assessing the condition of the vegetation. No surface erosion or leachate seeps were noted. The grass covering the landfill was noted as tall and/or thick during each of the inspections. The landfill cap was mowed after the September 3 site inspection.

Additionally, the access roads were examined for erosion, potholes/puddles, and obstructions. All 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. Wetland vegetation was noted to be normal for summer conditions during each of the inspections. The general condition of the wetlands was noted as good during each of the three site inspections.

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 paths to the wells and along the perimeter fence, replacing the transformer and battery on the alarm system, and mowing the landfill cap. Scheduled maintenance during the reporting period was completed as follows:

- On July 19, walking paths to wet wells, groundwater monitoring wells, and observation wells were mowed.
- On September 3, 4, 5, and 6, the annual mowing of the landfill cap was completed.
- On September 23, a failed transformer on the alarm system was replaced with a new transformer.
- On September 24, a failed battery on the alarm system was replaced with a new battery.

Unscheduled maintenance was not required during the reporting period.

Copies of the Maintenance Record Logs have been included in Appendix D.

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 normal during each of the inspections. 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.
Integrity of the Cap	X		No erosion was observed. Vegetation was noted as tall during each of the inspections.
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.
- As specified in the OM&M Manual, annual groundwater monitoring commenced in 2006. Groundwater samples are currently scheduled to be collected in November 2013, 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 July and September.
- Wetlands vegetation was in a condition typical for the time of year during the 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  
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, NY 14094

Site: Niagara County Refuse Site

Witmer Road

Town of Wheatfield, NY 14120

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

for the discharge of ground water 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 Water/Wastewater 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, 2013**

**To expire the 1st day of April, 2016**



**David A. Scott, Water Works Superintendent**

**Signed this 4th day of March, 2013**

**PERMIT NUMBER: 2628011****Part I  
Page 2 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).

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



**PERMIT NUMBER: 2628011****Part I  
Page 3 of 4****PART I. SPECIFIC CONDITIONS****B. DISCHARGE MONITORING AND REPORTING REQUIREMENTS**

During the period beginning the effective date of this permit and lasting until the expiration date, discharge monitoring results shall be summarized and reported by the permittee no later than the days specified below.

<b>Sample Point</b>	<b>Parameter</b>	<b>Initial Monitoring Report</b>	<b>Subsequent Monitoring Reports</b>
001	Total Flow	January 31, 2007	Semi-annual
	Lead	January 31, 2007	Semi-annual
	Iron	January 31, 2007	Semi-annual
	Magnesium	January 31, 2007	Semi-annual
	Sodium	January 31, 2007	Semi-annual
	pH	January 31, 2007	Semi-annual
	BOD	January 31, 2007	Semi-annual
	Total Suspended Solids	January 31, 2007	Semi-annual

**PERMIT NUMBER: 2628011****Part I  
Page 4 of 4**

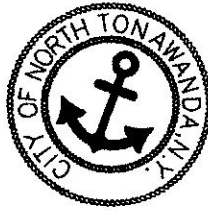
---

**PART I. SPECIFIC CONDITIONS****C. SPECIAL REQUIREMENTS**

- 1) This permit is written for a duration of three (3) 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 into the City of North Tonawanda sewerage treatment works during WWTP overflow conditions. The Permittee is required to cease all pumping operations upon verbal request of the North Tonawanda Water/Wastewater Superintendent or his designee. Pumping operations shall not recommence until approval by the North Tonawanda Water/Wastewater Superintendent or his designee.
- 5) Analysts are required to use GC/MS method detection limits for most organics (if GC/MS is appropriate); GC/ECD for PCB's/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  
WASTE WATER DEPARTMENT  
830 RIVER ROAD  
NORTH TONAWANDA, NEW YORK 14120  
PHONE: (716) 695 - 8560  
FAX: (716) 695 - 8563

David A. Scott  
Superintendent



Dennis F. Molnar  
Chief Operator

John C. Maurer  
Maintenance Supervisor

William M. Davignon  
Lab Director/Chemist

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

DATE: September 11 & 12, 2013

SITE NAME: NIAGARA COUNTY REFUSE SITE


NAME (Signature) 

NAME (Print) Richard C. Becker

<u>SPL #</u>	<u>SAMPLE NAME</u>	<u>DATE</u>	<u>TIME</u>	<u>SAMPLE LOCATION</u>	<u>SAMPLE TYPE</u>	<u>#OF BTLS</u>
01	71213 RCB EFF	9/12/13	0730	Wet Wall A	volatiles	6
02	71213 RCB EFF	9/12/13	0730	Wet Wall A	wet chemistry	1

FLOWS: FINAL METER READING 001639.200  
INITIAL METER READING 001658.000  
MONTHLY FLOW 1000

RELINQUISHED BY: 

RECEIVED BY: 

DATE: 9/12/13

TIME: 8:00 am

# EFFLUENT SAMPLING • SAMPLE COLLECTION DATA SHEET

PROJECT NAME: NIAGARA COUNTY REFUSE SITE

SAMPLE LOCATION: WET WELL A

SAMPLING CREW MEMBERS: Re Becken

DATE OF SAMPLE COLLECTION: 09/11/2013  
(M M D D Y Y)

Sample Time	<u>0730</u>	<u>1500</u>	<u>0730</u>
Sample ID Number	<u>91213 RSEFF</u>		
pH	<u>7.7</u>	<u>7.3</u>	<u>7.25</u>
Temperature	<u>62.1°F</u>	<u>63.9°F</u>	<u>60.9°F</u>
Conductivity	<u>5.69</u>	<u>5.58</u>	<u>5.45</u>
Turbidity	<u>14</u>	<u>12</u>	<u>9</u>
Instantaneous Flow Velocity	<u></u>		
Total Flow	<u>1000</u>		
Sample Description	<u>Semi annual outfall sampling</u>		
Analysis Required	<u>Volatiles + wet chemistry</u>		
Chain-of-Custody Number	<u>Sept 11-12, 2013</u>		
Shipping Manifest Number	<u>none</u>		

Additional  
Comments:

---

---

---

---

---

---

FP-7C

**APPENDIX B**

**WATER LEVEL RECORDS**

## WATER LEVEL RECORD

PROJECT NAME: *NIAGARA COUNTY  
REFUSE SITE*

LOCATION: Wheatfield, New York

DATE: 7/5/2013  
(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"	12:05	598.93	26.61	572.32
EAST "B"	11:50	596.23	15.85	580.38
EAST "C"	11:30	598.69	20.92	577.77
EAST "D"	11:10	593.20	16.19	577.01
NCR-3S	10:25	579.60	5.18	574.42
NCR-4S	9:55	577.88	3.4	574.48
NCR-5S	10:55	579.34	8.58	570.76
NCR-13S	8:30	577.15	7.34	569.81

### WET WELLS

Wet Well	Time of Measurement	Total Flow	Depth of Water
WW A	8:40		~12"
WW B	9:50		~5"
WW C	10:15		~5"
WW D	9:20		~6"

Total System Flow	Time of Measurement
1417000	8:40

FP-3D

## WATER LEVEL RECORD

PROJECT NAME: *NIAGARA COUNTY  
REFUSE SITE*

LOCATION: Wheatfield, New York

DATE: 8/1/2013  
(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"	11:55	598.93	26.42	572.32
EAST "B"	11:45	596.23	15.85	580.38
EAST "C"	11:25	598.69	20.51	577.77
EAST "D"	11:10	593.20	16.1	577.01
NCR-3S	10:00	579.60	dry	
NCR-4S	10:25	577.88	3.31	574.57
NCR-5S	10:55	579.34	9.42	569.92
NCR-13S	8:20	577.15	7.2	569.95

### WET WELLS

Wet Well	Time of Measurement	Total Flow	Depth of Water
WW A	8:00		~13"
WW B	10:35		~5"
WW C	10:15		~7"
WW D	9:20		~5"

Total System Flow	Time of Measurement
154700	8:00

FP-3D

## WATER LEVEL RECORD

PROJECT NAME: *NIAGARA COUNTY  
REFUSE SITE*

LOCATION: Wheatfield, New York

DATE: 9/3/2013  
(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"	11:10	598.93	26.32	572.61
EAST "B"	11:25	596.23	18.99	577.24
EAST "C"	11:50	598.69	20.59	578.1
EAST "D"	12:10	593.20	15.9	577.3
NCR-3S	9:50	579.60	dry	
NCR-4S	10:10	577.88	4.2	573.68
NCR-5S	10:50	579.34	10.37	568.97
NCR-13S	8:55	577.13	dry	

### WET WELLS

Wet Well	Time of Measurement	Total Flow	Depth of Water
WW A	8:50		~12"
WW B	10:25		~4"
WW C	9:35		~4"
WW D	9:10		~4"

Total System Flow	Time of Measurement
1629000	8:50

FP-3D



**APPENDIX C**

**MONTHLY INSPECTION LOGS**

## MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, NY

 DATE: 7/5/2013  
 (MM DD YY)
INSPECTOR(S): RC Becken

<i>Item</i>	<i>Inspect For</i>	<i>Action Required</i>	<i>Comments</i>
1 Perimeter collection System/Off-Site Forcemain			
<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>
2 Landfill Cap			
<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: 7/5/2013  
 (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>
		- erosion	<u>none</u>
		- potholes or puddles	<u>none</u>
		- obstruction	<u>none</u>
3 Wetlands (Area "F")			
		- dead/dying vegetation	<u>none</u>
		- change in water budget	<u>normal</u>
		- general conditions of wetlands	<u>good</u>
4 Other Site Systems			
<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: 7/5/2013  
 (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>none</u>
<input type="checkbox"/> Swale Outlets	- erosion	<u>none</u>	<u>none</u>
<input type="checkbox"/>	- condition of erosion protection	<u>none</u>	<u>good</u>
<input type="checkbox"/>	- flow obstructions	<u>none</u>	<u>none</u>
<input type="checkbox"/>	- dead/dying vegetation	<u>none</u>	<u>none</u>
<input type="checkbox"/>	- cable concrete/gabion mats and riprap	<u>none</u>	<u>good condition</u>
<input type="checkbox"/> Culverts	- sediment build-up	<u>none</u>	<u>none</u>
<input type="checkbox"/>	- erosion	<u>none</u>	<u>none</u>
<input type="checkbox"/>	- condition of erosion protection	<u>none</u>	<u>good</u>
<input type="checkbox"/>	- flow obstructions	<u>none</u>	<u>none</u>
<input type="checkbox"/> Gas Vents	- intact/damage	<u>none</u>	<u>intact</u>
<input type="checkbox"/> Wells	- locks secure	<u>none</u>	<u>yes</u>

## MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, NY

 DATE: 8/1/2013  
 (MM DD YY)
INSPECTOR(S): RC Becken

<i>Item</i>	<i>Inspect For</i>	<i>Action Required</i>	<i>Comments</i>
1 Perimeter collection System/Off-Site Forcemain			
<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>
2 Landfill Cap			
<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 / thick</u>
		- dead/dying vegetation	<u>none</u>

## MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, NY

 DATE: 8/1/2013  
 (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>none</u>
<input type="checkbox"/>	- erosion	<u>none</u>	<u>none</u>
<input type="checkbox"/>	- potholes or puddles	<u>none</u>	<u>none</u>
<input type="checkbox"/>	- obstruction	<u>none</u>	<u>none</u>
3 Wetlands (Area "F")	- dead/dying vegetation	<u>none</u>	<u>none</u>
	- change in water budget	<u>none</u>	<u>normal</u>
	- general conditions of wetlands	<u>none</u>	<u>good</u>
4 Other Site Systems			
<input type="checkbox"/> Perimeter Fence	- integrity of fence	<u>none</u>	<u>good</u>
<input type="checkbox"/>	- integrity of gates	<u>none</u>	<u>good</u>
<input type="checkbox"/>	- integrity of locks	<u>none</u>	<u>good</u>
<input type="checkbox"/>	- placement and condition of signs	<u>none</u>	<u>good</u>

## MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, NY

 DATE: 8/1/2013  
 (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>none</u>
<input type="checkbox"/> Swale Outlets	- erosion	<u>none</u>	<u>none</u>
<input type="checkbox"/>	- condition of erosion protection	<u>none</u>	<u>good</u>
<input type="checkbox"/>	- flow obstructions	<u>none</u>	<u>none</u>
<input type="checkbox"/>	- dead/dying vegetation	<u>none</u>	<u>none</u>
<input type="checkbox"/>	- cable concrete/gabion mats and riprap	<u>none</u>	<u>good condition</u>
<input type="checkbox"/> Culverts	- sediment build-up	<u>none</u>	<u>none</u>
<input type="checkbox"/>	- erosion	<u>none</u>	<u>none</u>
<input type="checkbox"/>	- condition of erosion protection	<u>none</u>	<u>good</u>
<input type="checkbox"/>	- flow obstructions	<u>none</u>	<u>none</u>
<input type="checkbox"/> Gas Vents	- intact/damage	<u>none</u>	<u>intact</u>
<input type="checkbox"/> Wells	- locks secure	<u>none</u>	<u>yes</u>

## MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, NY

 DATE: 9/3/2013  
 (MM DD YY)
INSPECTOR(S): RC Becken

<i>Item</i>	<i>Inspect For</i>	<i>Action Required</i>	<i>Comments</i>
1 Perimeter collection System/Off-Site Forcemain			
<input type="checkbox"/>	Manholes	- cover on securely	<u>yes</u>
		- condition of cover	<u>good condition</u>
		- condition of inside of manhole	<u>good condition</u>
		- flow conditions	<u>no apparent flow</u>
<input type="checkbox"/>	Wet Wells	- cover on securely	<u>yes</u>
		- condition of cover	<u>good condition</u>
		- condition of inside of wet well	<u>good condition</u>
2 Landfill Cap			
<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: 9/3/2013  
 (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>none</u>
<input type="checkbox"/>	- erosion	<u>none</u>	<u>none</u>
<input type="checkbox"/>	- potholes or puddles	<u>none</u>	<u>none</u>
<input type="checkbox"/>	- obstruction	<u>none</u>	<u>none</u>
3 Wetlands (Area "F")			
	- dead/dying vegetation	<u>none</u>	<u>none</u>
	- change in water budget	<u>none</u>	<u>normal</u>
	- general conditions of wetlands	<u>none</u>	<u>good condition</u>
4 Other Site Systems			
<input type="checkbox"/> Perimeter Fence	- integrity of fence	<u>none</u>	<u>good condition</u>
<input type="checkbox"/>	- integrity of gates	<u>none</u>	<u>good condition</u>
<input type="checkbox"/>	- integrity of locks	<u>none</u>	<u>good condition</u>
<input type="checkbox"/>	- placement and condition of signs	<u>none</u>	<u>good condition</u>

## MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, NY

DATE: 9/3/2013  
(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>none</u>
<input type="checkbox"/> Swale Outlets	- erosion	<u>none</u>	<u>none</u>
<input type="checkbox"/>	- condition of erosion protection	<u>none</u>	<u>good condition</u>
<input type="checkbox"/>	- flow obstructions	<u>none</u>	<u>none</u>
<input type="checkbox"/>	- dead/dying vegetation	<u>none</u>	<u>none</u>
<input type="checkbox"/>	- cable concrete/gabion mats and riprap	<u>none</u>	<u>good condition</u>
<input type="checkbox"/> Culverts	- sediment build-up	<u>none</u>	<u>none</u>
<input type="checkbox"/>	- erosion	<u>none</u>	<u>none</u>
<input type="checkbox"/>	- condition of erosion protection	<u>none</u>	<u>good condition</u>
<input type="checkbox"/>	- flow obstructions	<u>none</u>	<u>none</u>
<input type="checkbox"/> Gas Vents	- intact/damage	<u>none</u>	<u>intact</u>
<input type="checkbox"/> Wells	- locks secure	<u>none</u>	<u>yes</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 7/19/2013  
Time \_\_\_\_\_  
Scheduled/Unscheduled: scheduled  
Type of Maintenance Performed: mow grass

2. Company Performing Maintenance \_\_\_\_\_  
Name: O&M Enterprises, Inc.  
Address: 7134 Marigold Dr.  
N. Tonawanda, NY  
Contact Name: Richard Becken

3. Methods Used:  
tractor and mower  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Description of Material Removed:  
none  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Problems/Comments:  
none  
\_\_\_\_\_  
\_\_\_\_\_

DATE 7/19/2013 INSPECTOR RC Becken INSPECTOR'S SIGNATURE \_\_\_\_\_

# MAINTENANCE RECORD LOG

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

CREW MEMBERS: RC Becken

1. Date 9/3/2013  
Time \_\_\_\_\_  
Scheduled/Unscheduled: scheduled  
Type of Maintenance Performed: mowing

2. Company Performing Maintenance \_\_\_\_\_  
Name: O&M Enterprises, Inc.  
Address: 7134 Marigold Dr  
North Tonawanda, NY  
Contact Name: Rick Becken

3. Methods Used: annual mowing  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Description of Material Removed:  
none  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Problems/Comments:  
none  
\_\_\_\_\_  
\_\_\_\_\_

DATE 9/3/2013 INSPECTOR RC 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 9/4/2013  
Time 800  
Scheduled/Unscheduled: Scheduled  
Type of Maintenance Performed: mowing landfill cap

2. Company Performing Maintenance   
Name: O&M Enterprises, Inc  
Address: 7134 Marigold Dr  
North Tonawanda, NY  
Contact Name: Rick Becken

3. Methods Used:  
Tractor and mower

Description of Material Removed:  
none

Problems/Comments:  
none

9/4/2013 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 9/5/2013  
Time 815  
Scheduled/Unscheduled: Scheduled  
Type of Maintenance Performed: mowing landfill cap

2. Company Performing Maintenance  
Name: O&M Enterprises, Inc  
Address: 7134 Marigold Dr  
North Tonawanda, NY  
Contact Name: Rick Becken

3. Methods Used:  
Tractor and mower

Description of Material Removed:  
none

Problems/Comments:  
none

9/5/2013 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 9/6/2013  
Time 820  
Scheduled/Unscheduled: Scheduled  
Type of Maintenance Performed: mowing landfill cap

2. Company Performing Maintenance   
Name: O&M Enterprises, Inc  
Address: 7134 Marigold Dr  
North Tonawanda, NY  
Contact Name: Rick Becken

3. Methods Used:  
Tractor and mower

Description of Material Removed:  
none

Problems/Comments:  
none

9/6/2013 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 9/23/2013

Time 1300

Scheduled/Unscheduled: scheduled

Type of Maintenance Performed: replace electrical transformer for alarm system

2. Company Performing Maintenance

Name: O&M Enterprises, Inc.

Address: 7134 Marigold Dr.

North Tonawanda, NY 14120

Contact Name: Rick Becken

3. Methods Used:

installed new transformer

Description of Material Removed:

none

Problems/Comments:

None

9/23/2013

RC Becken

DATE

INSPECTOR

INSPECTOR'S SIGNATURE

FORM 2

## MAINTENANCE RECORD LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

CREW MEMBERS: RC Becken

1. Date 9/24/2013

Time 1315

Scheduled/Unscheduled: scheduled

Type of Maintenance Performed: purchased and installed new battery for alarm system

2. Company Performing Maintenance

Name: O&M Enterprises, Inc.

Address: 7134 Marigold Dr.

North Tonawanda, NY 14120

Contact Name: Rick Becken

3. Methods Used:

plugged in battery

Description of Material Removed:

none

Problems/Comments:

None

9/24/2013

RC Becken

DATE

INSPECTOR

INSPECTOR'S SIGNATURE

FORM 2

**APPENDIX E**

**COMPACT DISK CONTAINING REPORT**