



1222 FOREST PARKWAY, SUITE 190
WEST DEPTFORD, NEW JERSEY 08066
856 423-8800 FAX 856 423-3220

April 14, 2010

Mr. John Grathwol, P.E.
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233-7010

Re: Annual Landfill Inspection Report (Year 6)
Syracuse China Landfill
Town of Salina, Onondaga County, New York
NYSDEC Site Number 7-34-053

Dear Mr. Grathwol:

Roux Associates, Inc. (Roux Associates), on behalf of TPC-York Inc. (TPC-York), has prepared this letter report to summarize the required monitoring and sampling activities completed at the Syracuse China Landfill located in the Town of Salina, Onondaga County, New York (Site No. 7-34-053). In accordance with New York State Department of Environmental Conservation (NYSDEC) requirements, activities for the sixth year of Operations, Monitoring and Maintenance (OM&M) were performed at the site. Activities included groundwater and surface water sampling performed by Paradigm Environmental Services, Inc. (Paradigm) and a landfill inspection performed by Roux Associates. In accordance with the OM&M Plan prepared by Remedial Engineering, PC dated September 25, 2003 and the schedule approved by NYSDEC, the following activities were performed:

- Water-level gauging and collection of groundwater samples from monitoring wells MW-1, MW-2, MW-5, MW-6, MW-8 and MW-10 for lead analysis;
- Collection of surface-water samples from locations SW-1 and SW-2 for lead analysis;
- Inspection of key site features including the landfill surface, vegetation, fence, access road and drainage features such as rip rap swales and energy dissipaters; and
- Maintenance activities.

Sampling activities and results are discussed in greater detail below. Supporting figures and documentation are included at the end of this report.

SAMPLING ACTIVITIES

Groundwater sampling was performed by Paradigm on March 18, 2009. Additional groundwater and surface water sampling was performed by Paradigm on September 29,

2009. Groundwater levels were gauged and samples were collected from monitoring wells MW-1, MW-2, MW-5, MW-6, MW-8 and MW-10 using manual purge techniques. Surface-water samples were collected from locations SW-1 and SW-2. All samples were analyzed for lead.

The results of the sampling activities are summarized in the Site Monitoring, Inspection and Maintenance Forms provided in Appendix A. Laboratory analytical reports are provided in Appendix B. A site plan showing sampling locations is provided as Figure 1.

Sample results from the March 18, 2009 groundwater sampling event indicate that lead was not detected above the laboratory detection limit in any of the sampled monitoring wells.

Sample results from the September 29, 2009 sampling event indicate that lead was detected in MW-8 at a concentration of 0.021 milligrams per liter (mg/L) and in SW-2 at a concentration of 0.017 mg/L. The detected concentrations, however, are below the Technical and Operation Guidance Series (TOGS 1.1.1) Ambient Water Quality Standards of 0.025 mg/L for lead in groundwater and 0.050 mg/L for lead in surface water. Lead was not detected above the laboratory detection limit in the remaining September 2009 samples.

A summary of sample results is provided below.

Sample Identification	TOGS 1.1.1 Standard (mg/L)	3/18/2009 (mg/L)	9/29/2009 (mg/L)
MW-1	0.025	<0.005	<0.005
MW-2	0.025	<0.005	<0.005
MW-5	0.025	<0.005	<0.005
MW-6	0.025	<0.005	<0.005
MW-8	0.025	<0.005	0.021
MW-10	0.025	<0.005	<0.005
SW-1	0.050	--	<0.005
SW-2	0.050	--	0.017

< = Not detected above the laboratory reporting limit

LANDFILL MONITORING

Roux Associates conducted an inspection of the landfill and surrounding site areas on September 29, 2009. Roux Associates personnel inspected site vegetation at the eastern portion of the site, the landfill cap surface and the northern wetlands for any signs of erosion or significant settlement. Roux Associates also inspected the swales, drop chute, energy dissipation structures, permanent landfill gas vents GV-1 through GV-7, fencing, access road and Syracuse China signs for erosion, blockage or other damage. The results of Roux Associates' inspection activities are summarized in the Site Monitoring, Inspection and Maintenance Forms, provided as Appendix A. Photographs showing the condition of key site features are provided as Appendix C. A site plan showing key site features is provided as Figure 1.

Roux Associates' inspection of site features indicated that the site was generally in good condition with no significant erosion or differential settlement. The landfill surface was

observed to be entirely stabilized with vegetation. The landfill drainage swales, drop chute and energy dissipation structures were observed to be in good condition with no visible blockage or washout. The permanent gas vents were also observed to be in good condition. The site access road was observed to be clear of vegetation, obstructions or significant rutting. The site fence was observed to be in good condition; however, moderate vegetation overgrowth was observed along the southern boundary fence. The signs on the fence within the Factory Avenue right-of-way were observed to be generally clear of vegetation.

MAINTENANCE ACTIVITIES PERFORMED

Fence Repairs

Fence repair activities were completed in response to an electronic correspondence provided by the NYSDEC and in response to fence damage observed during Roux Associates' 2008 annual landfill inspection. A discussion of the repair activities conducted was provided in the April 15, 2009 *Summary of Fence Maintenance and Repair Activities* letter report prepared by Roux Associates and submitted to NYSDEC.

Mowing and Weed-Whacking

Annual mowing and weed-whacking activities were conducted by Mueller Farms from September 29, 2009 to October 1, 2009. Roux Associates was present during mowing and weed-whacking activities. Mowing was conducted on the landfill surface, within the eastern portion of the site (outside of wetland areas) and along the access road. Mowing and weed-whacking were conducted within the landfill surface swales to remove woody growth. Trimming was conducted around several Syracuse China fence signs to clear minor vegetation overgrowth.

PROPOSED YEAR 7 OM&M ACTIVITIES

Groundwater Monitoring

TPC-York is requesting that the ground-water sampling frequency be reduced to annually. This request is based on groundwater monitoring results to date. Lead concentrations in groundwater samples collected to date were all below the TOGS 1.1.1 Ambient Water Quality Standard of 0.025 mg/L for lead in groundwater with two minor exceptions: one sample in Year 2 and one sample in Year 5 (2008). As noted above, the two exceedances were minimal - - for example, 0.033 mg/L at MW-8 in 2008, only slightly above the 0.025 mg/L standard - - and were both attributed to sample turbidity.

Table 1 is a summary of OM&M groundwater data collected to date, including the statistical mean and 95% Upper Confidence Level (UCL) for lead in each monitoring well. The statistical mean and 95% UCL values are below the TOGS 1.1.1 Ambient Water Quality Standard of 0.025 mg/L for lead in groundwater in all of the monitoring wells.

Surface Water Monitoring

TPC-York is requesting that surface water monitoring at the Site be eliminated. This request is based on surface water monitoring results to date. Lead concentrations in surface water samples collected to date are below the TOGS 1.1.1 Ambient Water Quality Standard of 0.050 mg/L for lead in surface water with one exception in Year 2.

The elevated lead concentration in SW-2, collected during the September 28, 2005 event (Year 2), was a result of inappropriate field collection procedures and significant sediment entrainment in the sample. As the lead result was an order of magnitude above the Standard, a second sample was collected on October 19, 2005, utilizing sampling techniques that resulted in less sediment disturbance, and analyzed for lead. Lead was not detected above the laboratory detection limit in the second sample collected.

Table 1 is a summary of OM&M surface water data collected to date, including the statistical mean and 95% UCL for lead at each surface sample location. The statistical mean and 95% UCL values are below the TOGS 1.1.1 Ambient Water Quality Standard of 0.050 mg/L for lead in surface water in all of the surface sampling locations.

Proposed Year 7 OM&M Activities

The next OM&M event is scheduled to be performed in April 2010. Pending review of the proposed schedule, this event is currently planned to include:

- Water-level gauging and collection of groundwater samples from monitoring wells MW-1, MW-2, MW-5, MW-6, MW-8 and MW-10 for lead analysis.

As elevated turbidity is periodically observed in Site wells, Roux Associates proposes to have groundwater samples filtered in the laboratory prior to lead analysis.

In accordance with the OM&M Plan, the landfill will require annual mowing and weed-whacking in fall 2010 to prevent woody vegetation growth on the landfill cap and within the drainage swales. In addition, trimming will be required to remove vegetation growth over the signs on the Syracuse China fence and in the Factory Avenue right-of-way. Roux Associates proposes to conduct the annual landfill inspection concurrent with the 2010 mowing, weed-whacking and trimming activities.

Please call either of the undersigned with any questions regarding this report or proposal.

Sincerely,
ROUX ASSOCIATES, INC.



Monica LaSelva
Project Scientist



Meredith Harris
Principal Engineer

cc: Craig Bremer – TPC-York
Elaine Enfonde – Nixon Peabody

Table 1. Summary of Operation, Monitoring and Maintenance Sampling Data. Syracuse China Landfill; Syracuse, New York.

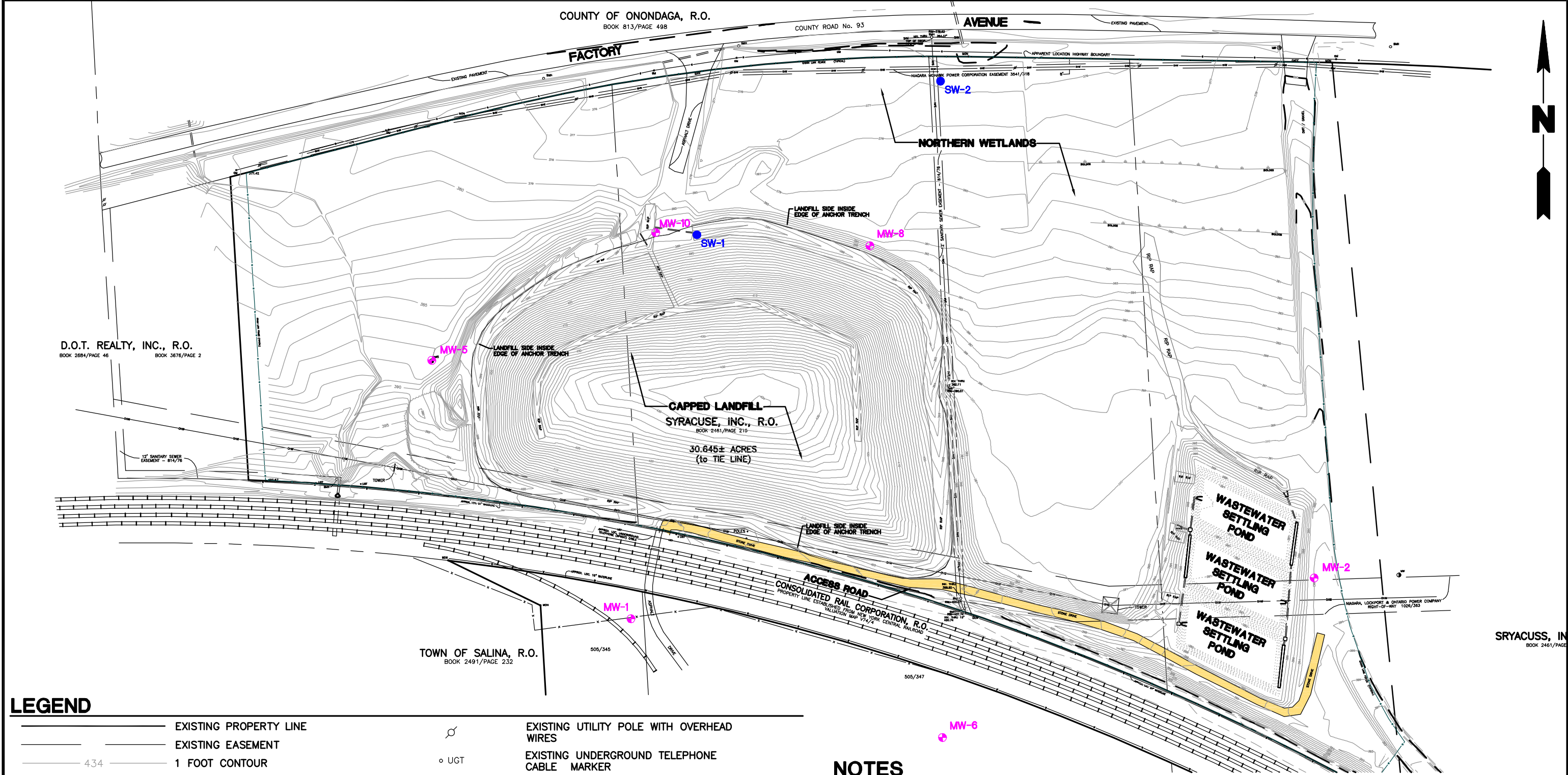
Sample ID	TOGS 1.1.1 Standard (mg/L)	Year 1				Year 2					Year 3			Year 4			Year 5			Year 6		Mean	95% Upper Confidence Level	
		11/24/03 (mg/L)	3/23/04 (mg/L)	6/29/04 (mg/L)	9/16/04 (mg/L)	12/5/04 (mg/L)	3/2/05 mg/L)	6/29/05 (mg/L)	9/28/05 mg/L)	10/19/05 (mg/L)	12/22/05 (mg/L)	3/22/06 (mg/L)	9/20/06 (mg/L)	12/19/06 (mg/L)	4/10/07 (mg/L)	9/28/07 mg/L)	4/25/08 (mg/L)	9/17/08 mg/L)	9/22/08 (mg/L)	3/18/09 (mg/L)	9/29/09 (mg/L)			
MW-1	0.025	<0.003	0.005	0.005	<0.001	<0.001	<0.001	0.009	0.018	NA	<0.005	<0.005	0.006	<0.005	NS	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	0.0039	0.0059
MW-2	0.025	<0.003	0.002	<0.001	<0.001	0.002	<0.001	<0.005	<0.005	NA	<0.005	<0.005	0.005	<0.005	NS	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	0.0022	0.0027
MW-5	0.025	<0.003	0.004	0.005	<0.001	0.003	NA	<0.005	<0.005	NA	<0.005	<0.005	0.014	<0.005	NS	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	0.0033	0.0048
MW-6	0.025	<0.003	0.002	0.006	<0.001	0.001	<0.001	<0.005	0.006	NA	0.01	<0.005	<0.005	<0.005	NS	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	0.0029	0.0041
MW-8	0.025	<0.003	0.04	0.002	<0.001	0.005	<0.001	0.02	0.052	NA	0.017	0.013	0.017	0.013	NS	<0.005	<0.005	--	0.033	<0.005	0.021	0.0143	0.0215	
MW-10	0.025	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	NA	<0.005	0.005	0.008	<0.005	NS	<0.005	<0.005	--	<0.005	<0.005	0.0023	0.0032		
SW-1	0.05	<0.003	<0.001	0.002	<0.001	0.041	<0.001	<0.005	<0.005	NA	--	<0.005	<0.005	NS	<0.005	0.008	0.013	--	--	--	<0.005	0.0059	0.0114	
SW-2	0.05	0.025	<0.001	<0.001	0.008	0.001	NA	0.005	0.622/<0.005	<0.005	--	<0.005	0.018	NS	0.007	0.009	0.018	--	--	--	0.017	0.0088	0.0134	

Notes:

< = Not detected above the laboratory reporting limit.

NA = Not Analyzed

- For the purposes of statistical analysis, non-detected sample results were assumed to be one half of the laboratory reporting limit.
- For the purposes of statistical analysis, the sample result indicating a detection of lead in surface water at 0.622 mg/L was eliminated from the calculations. Based on collection field notes, it appeared that the elevated lead concentration in SW-2 collected on 9/28/2005 was a result of significant sediment entrainment in the sample. As the SW-2 lead result was an order of magnitude above the TOGS 1.1.1 Standard, a second sample was collected for SW-2 on October 19, 2005, utilizing sampling techniques that resulted in less sediment disturbance, and analyzed for lead. Lead was not detected above the laboratory detection limit in the SW-2 sample collected on October 19, 2005.



LEGEND

	EXISTING PROPERTY LINE		EXISTING UTILITY POLE WITH OVERHEAD WIRES
	EXISTING EASEMENT		EXISTING UNDERGROUND TELEPHONE CABLE MARKER
	1 FOOT CONTOUR		EXISTING POLYVINYL CHLORIDE PIPE WITH DIAMETER
	EXISTING RAILROAD TRACKS		EXISTING SURVEY MONUMENT SET 3-8-1990
	EXISTING OVERHEAD ELECTRICAL TRANSMISSION WIRES		CAPPED IRON ROD SET IN CONCRETE)
	EXISTING SUBSURFACE SANITARY SEWER WATERLINE		EXISTING SANITARY SEWER MANHOLE
	EXISTING APPROXIMATE LOCATION 24" WATERLINE		EXISTING GAS MARKER
	EXISTING UNDERGROUND TELEPHONE LINE (FIBER OPTIC) LOCATION		SURFACE WATER SAMPLE LOCATION
	EXISTING GAS LINE LOCATION		GROUND-WATER MONITORING WELL
	DESIGN DOWN CHUTE		
	FENCE		
	EXISTING MANHOLE RIM ELEVATION		

NOTES

- 1.) ALL DATA PRESENTED ON THIS DRAWING IS TAKEN FROM "RECORD DRAWINGS SYRACUSE CHINA LANDFILL NOVEMBER/DECEMBER 2001, MARCH 2005 TOPSOIL SURVEY", DRAWING NUMBER 05-168 PREPARED BY C.T. MALE ASSOCIATES, P.C. OF SYRACUSE, NEW YORK.
- 2.) BASIS OF BEARINGS: TRUE NORTH, BASED ON CONTROL ESTABLISHED BY N.Y.S.D.O.T.
- 3.) ELEVATION DATUM IS MEAN SEA LEVEL, BASED ON CONTROL ESTABLISHED BY U.S.G.S. (NGVD 29).
- 4.) SURFACE WATER SAMPLE LOCATIONS (SW-) ARE APPROXIMATE AND MAY BE ADJUSTED IN THE FIELD AS NECESSARY.

Title:			
SITE PLAN			
SYRACUSE CHINA REMEDIAL ACTION TOWN OF SALINA, ONONDAGA COUNTY, NEW JERSEY			
Prepared For:			
TPC-YORK, INC.			
REMEDIAL ENGINEERING, P.C. ENVIRONMENTAL ENGINEERS	Compiled by: ML	Date: 05/15/08	FIGURE 1
	Prepared by: JSG	Scale: AS SHOWN	
	Project Mgr: MH	Office: NJ	
	File No: 57701130	Project: 57701Y04	

APPENDIX A

SITE MONITORING, INSPECTION AND MAINTENANCE FORMS

Site Monitoring, Inspection and Maintenance Form.

Page 1 of 2

Inspector: Andrew Simmons, Paradigm Environmental

Date: 3/18/2009

Item	Action	Value	Notes	Corrective Action Suggested
MW-1 ^a	Ground-Water Sample for Lead (mg/l)	<0.005	TOGS 1.1.1 Standard = 0.025 mg/l	None
MW-1 ^a	Ground-Water Elevation (ft MSL)	399.8	--	None
MW-2 ^a	Ground-Water Sample for Lead (mg/l)	<0.005	TOGS 1.1.1 Standard = 0.025 mg/l	None
MW-2 ^a	Ground-Water Elevation (ft MSL)	389.5	--	None
MW-5 ^a	Ground-Water Sample for Lead (mg/l)	<0.005	TOGS 1.1.1 Standard = 0.025 mg/l	None
MW-5 ^a	Ground-Water Elevation (ft MSL)	387.4	--	None
MW-6 ^a	Ground-Water Sample for Lead (mg/l)	<0.005	TOGS 1.1.1 Standard = 0.025 mg/l	None
MW-6 ^a	Ground-Water Elevation (ft MSL)	409.7	--	None
MW-8 ^a	Ground-Water Sample for Lead (mg/l)	<0.005	TOGS 1.1.1 Standard = 0.025 mg/l	None
MW-8 ^a	Ground-Water Elevation (ft MSL)	389.2	--	None
MW-10 ^a	Ground-Water Sample for Lead (mg/l)	<0.005	TOGS 1.1.1 Standard = 0.025 mg/l	None
MW-10 ^a	Ground-Water Elevation (ft MSL)	379.6	--	None
GV-1 ^c	Inspect for Damage	NA	--	Annual inspection scheduled for Sept. 2009
GV-2 ^c	Inspect for Damage	NA	--	Annual inspection scheduled for Sept. 2009
GV-3 ^c	Inspect for Damage	NA	--	Annual inspection scheduled for Sept. 2009
GV-4 ^c	Inspect for Damage	NA	--	Annual inspection scheduled for Sept. 2009
GV-5 ^c	Inspect for Damage	NA	--	Annual inspection scheduled for Sept. 2009
GV-6 ^c	Inspect for Damage	NA	--	Annual inspection scheduled for Sept. 2009
GV-7 ^c	Inspect for Damage	NA	--	Annual inspection scheduled for Sept. 2009
SW-1 ^b	SW Sample for Lead at Swales (mg/l)	NA	TOGS 1.1.1 Standard = 0.050 mg/l	None
SW-2 ^b	SW Sample for Lead at Northern Discharge (mg/l)	NA	TOGS 1.1.1 Standard = 0.050 mg/l	None
Eastern Portion of Site ^d	Inspect Vegetation	NA	--	Mowing scheduled for Sept. 2009
Eastern Portion of Site ^d	Mow Grass	NA	--	Mowing scheduled for Sept. 2009
Cap Surface ^d	Inspect Vegetation	NA	--	Mowing scheduled for Sept. 2009
Cap Surface ^d	Mow Grass	NA	--	Mowing scheduled for Sept. 2009

Site Monitoring, Inspection and Maintenance Form.

Page 2 of 2

Inspector: Andrew Simmons, Paradigm Environmental

Date: 3/18/2009

Item	Action	Value	Notes	Corrective Action Suggested
Northern Wetland ^c	Inspect Vegetation	NA	--	None
Swales ^f	Inspect for Erosion	NA	--	Weed-whacking scheduled for Sept. 2009
Fence ^f	Inspect for Damage	NA	--	Repair damaged portions of fence
Signs on SC Fence ^f	Inspect for Damage	NA	--	Trimming scheduled for Sept. 2009
Signs on GM Fence ^f	Inspect for Damage	NA	--	Trimming scheduled for Sept. 2009
Access Road ^f	Inspect for Wear and Erosion	NA	--	Mowing scheduled for Sept. 2009
Drop Chute ^f	Inspect for Blockage	NA	--	Weed-whacking scheduled for Sept. 2009
Energy Dissipation Structures ^f	Inspect for Damage	NA	--	Annual inspection scheduled for Sept. 2009
Sitewide ^f	Inspect for Major Erosion Problems	NA	--	Annual inspection scheduled for Sept. 2009
Sitewide ^f	Inspect for Significant Differential Settlement	NA	--	Annual inspection scheduled for Sept. 2009

MW = Ground-Water Monitoring Well

SW = Surface Water

GV = Permanent Landfill Gas Vent

NA = Not Analyzed

SC = Syracuse China

GM = General Motors Corporation

Notes and Assumptions

^a Ground-Water Sampling

- Ground-water sampling to be performed quarterly for years 1 and 2.
- Ground-water sampling to be performed semi-annually for years 3 through 7.
- Ground-water sampling to be performed annually for years 8 through 30.
- NYSDEC will grant reduction of ground-water sampling, Part 360 requires quarterly sampling for minimum of ^d

^c Surface-Water Sampling

- Surface-water sampling to be performed quarterly for years 1 and 2.
- Surface-water sampling to be performed semi-annually for years 3 through 4.
- Surface-water sampling to be performed annually in year 5 through 7.
- No surface-water sampling will be performed after year 7.
- NYSDEC will grant reduction of surface-water sampling, Part 360 requires quarterly sampling for minimum of ^f

^b Landfill Gas Monitoring

- Landfill gas monitoring to be performed annually for years 1 through 4.
- No landfill gas monitoring will be performed after year 4.

^d Landfill Mowing and Repairs

- Landfill mowing to be performed annually for years 1 through 30.

^e Wetlands Monitoring Activities

- Wetlands vegetation inspection is for erosion only and is not part of the USACE-required activities.

^f Annual Landfill Inspection and Reporting

- One inspection to be performed annually for years 1 through 30.

Site Monitoring, Inspection and Maintenance Form.

Page 1 of 2

Inspector: Andrew Simmons, Paradigm Environmental / Monica LaSelva, Roux Associates

Date: 9/29/2009

Item	Action	Value	Notes	Corrective Action Suggested
MW-1 ^a	Ground-Water Sample for Lead (mg/l)	<0.005	TOGS 1.1.1 Standard = 0.025 mg/l	None
MW-1 ^a	Ground-Water Elevation (ft MSL)	391.8	--	None
MW-2 ^a	Ground-Water Sample for Lead (mg/l)	<0.005	TOGS 1.1.1 Standard = 0.025 mg/l	None
MW-2 ^a	Ground-Water Elevation (ft MSL)	389.2	--	None
MW-5 ^a	Ground-Water Sample for Lead (mg/l)	<0.005	TOGS 1.1.1 Standard = 0.025 mg/l	None
MW-5 ^a	Ground-Water Elevation (ft MSL)	385.4	--	None
MW-6 ^a	Ground-Water Sample for Lead (mg/l)	<0.005	TOGS 1.1.1 Standard = 0.025 mg/l	None
MW-6 ^a	Ground-Water Elevation (ft MSL)	409.7	--	None
MW-8 ^a	Ground-Water Sample for Lead (mg/l)	0.021	TOGS 1.1.1 Standard = 0.025 mg/l	None
MW-8 ^a	Ground-Water Elevation (ft MSL)	386.9	--	None
MW-10 ^a	Ground-Water Sample for Lead (mg/l)	<0.005	TOGS 1.1.1 Standard = 0.025 mg/l	None
MW-10 ^a	Ground-Water Elevation (ft MSL)	378.6	--	None
GV-1 ^c	Inspect for Damage	NA	--	None
GV-2 ^c	Inspect for Damage	NA	--	None
GV-3 ^c	Inspect for Damage	NA	--	None
GV-4 ^c	Inspect for Damage	NA	--	None
GV-5 ^c	Inspect for Damage	NA	--	None
GV-6 ^c	Inspect for Damage	NA	--	None
GV-7 ^c	Inspect for Damage	NA	--	None
SW-1 ^b	SW Sample for Lead at Swales (mg/l)	NA	TOGS 1.1.1 Standard = 0.050 mg/l	None
SW-2 ^b	SW Sample for Lead at Northern Discharge (mg/l)	0.017	TOGS 1.1.1 Standard = 0.050 mg/l	None
Eastern Portion of Site ^d	Inspect Vegetation	NA	--	Mowed in Sept. 2009
Eastern Portion of Site ^d	Mow Grass	NA	--	Mowed in Sept. 2009
Cap Surface ^d	Inspect Vegetation	NA	--	Mowed in Sept. 2009
Cap Surface ^d	Mow Grass	NA	--	Mowed in Sept. 2009

Site Monitoring, Inspection and Maintenance Form.

Page 2 of 2

Inspector: Andrew Simmons, Paradigm Environmental / Monica LaSelva, Roux Associates

Date: 9/29/2009

Item	Action	Value	Notes	Corrective Action Suggested
Northern Wetland ^e	Inspect Vegetation	NA	--	None
Swales ^f	Inspect for Erosion	NA	--	Trimmed in Sept. 2009
Fence ^f	Inspect for Damage	NA	--	None (Repairs conducted March 2009)
Signs on SC Fence ^f	Inspect for Damage	NA	--	Trimmed in Sept. 2009
Signs on GM Fence ^f	Inspect for Damage	NA	--	Trimmed in Sept. 2009
Access Road ^f	Inspect for Wear and Erosion	NA	--	Mowed in Sept. 2009
Drop Chute ^f	Inspect for Blockage	NA	--	None
Energy Dissipation Structures ^f	Inspect for Damage	NA	--	Trimmed in Sept. 2009
Sitewide ^f	Inspect for Major Erosion Problems	NA	--	None
Sitewide ^f	Inspect for Significant Differential Settlement	NA	--	None

MW = Ground-Water Monitoring Well

SW = Surface Water

GV = Permanent Landfill Gas Vent

NA = Not Analyzed

SC = Syracuse China

GM = General Motors Corporation

Notes and Assumptions

^a Ground-Water Sampling

1. Ground-water sampling to be performed quarterly for years 1 and 2.
2. Ground-water sampling to be performed semi-annually for years 3 through 7.
3. Ground-water sampling to be performed annually for years 8 through 30.
4. NYSDEC will grant reduction of ground-water sampling, Part 360 requires quarterly sampling for minimum of 5 y^d

^c Surface-Water Sampling

1. Surface-water sampling to be performed quarterly for years 1 and 2.
2. Surface-water sampling to be performed semi-annually for years 3 through 4.
3. Surface-water sampling to be performed annually in year 5 through 7.
4. No surface-water sampling will be performed after year 7.
5. NYSDEC will grant reduction of surface-water sampling, Part 360 requires quarterly sampling for minimum of 5 y^f

^b Landfill Gas Monitoring

1. Landfill gas monitoring to be performed annually for years 1 through 4.
2. No landfill gas monitoring will be performed after year 4.

^d Landfill Mowing and Repairs

1. Landfill mowing to be performed annually for years 1 through 30.

^e Wetlands Monitoring Activities

1. Wetlands vegetation inspection is for erosion only and is not part of the USACE-required activities.

^f Annual Landfill Inspection and Reporting

1. One inspection to be performed annually for years 1 through 30.

APPENDIX B

PARADIGM ENVIRONMENTAL SERVICES, INC. ANALYTICAL REPORT



Analytical Report Cover Page

Roux Associates

For Lab Project # 09-0971

Issued March 25, 2009

This report contains a total of 5 pages

The reported results relate only to the samples as they have been received by the laboratory.

Any noncompliant QC parameters having impact on the data are flagged or documented on the final report.

All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Each page of this document is part of a multipage report. This document may not be reproduced except in its entirety, without the prior consent of Paradigm Environmental Services, Inc.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of frequently used data flags and their meaning:

"ND" = analyzed for but not detected.

"E" = Result has been estimated, calibration limit exceeded.

"D" = Duplicate results outside QC limits. May indicate a non-homogenous matrix.

"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.

"B" = Method blank contained trace levels of analyte. Refer to included method blank report.



PARADIGM

ENVIRONMENTAL SERVICES, INC.

Roux Associates
Syracuse China Facility
2900 Court Street
Syracuse, NY 13208
Lab Project # 09-0971

Syracuse China Groundwater Monitoring, 3/18/09

Andrew Simmons, representing Paradigm Environmental, arrived on site at 08:30, 3/18/09, and obtained the gate key from Paula DiStefano. Andrew spoke with Paula regarding future access to the landfill and the factory property; he was told a key would be issued to Paradigm that would open both gates.

Well MW-6 behind the factory appears to have been struck with a plow over the winter and has caused a kink in the inner well casing making it difficult to obtain a sample. Well MW-5 had what appeared to be orange/red algae in the purge water. Wells MW-1, 2, 8, 10 were samples in good order, with nothing notable to report.

All the locks on the wells need to be lubricated, as the locks are sticking and very hard to open.

Three (3) volumes of water were purged from all the wells then allowed to recharge and stabilize prior to the samples being taken. Andrew locked and checked the gate on Factory Avenue and returned the gate key to Bob B. from maintenance representing Syracuse China at 13:20.

**PARADIGM**

ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: Roux Associates

Lab Project No.: 09-0971

Client Job Site: Syracuse China

Sample Type: Water
Method: EPA 200.7

Client Job No.: N/A

Date(s) Sampled: 03/18/2009

Date Received: 03/19/2009

Date Analyzed: 03/25/2009

Laboratory Report for Metals Analysis in Water

Lab Sample No.	Field ID No.	Field Location	Lead Results (mg/L)
3515	N/A	MW-1	<0.005
3516	N/A	MW-2	<0.005
3517	N/A	MW-5	<0.005
3518	N/A	MW-6	<0.005
3519	N/A	MW-8	<0.005
3520	N/A	MW-10	<0.005

ELAP ID No.: 10958

Comments:

Approved By: Bruce Hoogesteger
Bruce Hoogesteger, Technical Director

Syracuse China Landfill Monitoring

Location ID	Date	Time of Sample	Conductivity (mS/cm)	Dissolved Oxygen (PPM)	pH	Temp (°C)	Turbidity (NTU's)	Depth to Water (ft)	Depth To Bottom (ft)	Vol Purged	Time of Purge
Well # 1	03/18/09	13:08	0.74	11.44	6.2	10.9	47.6	14.0	25.3	11.0	10:50
Well # 2	03/18/09	12:54	1.28	11.86	6.2	9.9	42.0	5.3	13.3	8.0	10:10
Well # 5	03/18/09	13:19	1.43	11.04	6.3	12.0	111.0	3.0	13.4	10.5	11:25
Well # 6	03/18/09	14:04	0.88	12.10	6.2	9.1	75.4	5.0	17.0	12.0	9:26
Well # 8	03/18/09	13:42	3.00	11.81	6.2	9.2	33.1	3.7	23.0	23.0	12:37
Well # 10	03/18/09	13:34	2.91	13.28	6.1	7.8	99.9	3.0	17.0	9.0	11:49
SW-1											
SW-2											

* Conductivity, pH, dissolved oxygen, temperature and turbidity readings performed using Horiba model # U-22 monitor, serial # 611012.

** Calibration certificate # P994435, Ashtead Technology, for 3/18/09 readings.

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608

(585) 647-2530 • (800) 724-1997

PROJECT NAME/SITE NAME:

Syracuse China

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:	
COMPANY:	Roux Associates	COMPANY:	
ADDRESS:	1222 Forest Parkway, Suite 190	ADDRESS:	
CITY:	West Deptford	STATE:	NJ
PHONE:	(856) 423-8800	FAX:	(856) 423-3220
ATTN:	Monica Laselva	ATTN:	
COMMENTS:			

DATE	TIME	COMPOSITE	GRAV	SAMPLE LOCATION/FIELD ID	MATERIAL	CONTAINER	REMARKS	PARADIGM LAB SAMPLE NUMBER
1 3/18	1308	X	MW-1	W	1 X			3515
2 3/18	1254	X	MW-2	W	1 X			3516
3 3/18	1319	X	MW-5	W	1 X			3517
4 3/18	1404	X	MW-6	W	1 X			3518
5 3/18	1342	X	MW-8	W	1 X			3519
6 3/18	1334	X	MW-10	W	1 X			3520
7								
8								
9								
10								

LAB USE ONLY

SAMPLE CONDITION: Check box if acceptable or note deviation:	CONTAINER TYPE:	PRESERVATIONS:	HOLDING TIME:	TEMPERATURE:
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
N/A for metals only				
11°Ciced on 3/18 - preserved in HRP				
Sampled By:	Date/Time:	Relinquished By:	Date/Time:	Total Cost:
<i>[Signature]</i>	3/18/09 1254			
Relinquished By:	Date/Time:	Received By:	Date/Time:	
<i>[Signature]</i>	3/18/09 1645			
Received By:	Date/Time:	Received @ Lab By:	Date/Time:	
		Elizabeth A. Honch	3/19/09 1040	
				P.I.F.



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ENVIRONMENTAL SERVICES, INC.

Analytical Report Cover Page

Roux Associates

For Lab Project # 09-3546
Issued October 6, 2009
This report contains a total of 5 pages

The reported results relate only to the samples as they have been received by the laboratory.

Any noncompliant QC parameters having impact on the data are flagged or documented on the final report.

All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

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The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of frequently used data flags and their meaning:

"ND" = analyzed for but not detected.

"E" = Result has been estimated, calibration limit exceeded.

"D" = Duplicate results outside QC limits. May indicate a non-homogenous matrix.

"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.

"B" = Method blank contained trace levels of analyte. Refer to included method blank report.



PARADIGM

ENVIRONMENTAL SERVICES, INC.

WWW.PARADIGMENV.COM

179 Lake Avenue, Rochester, NY 14608 PHONE: 585-647-2530 TOLL FREE: 800-724-1997 FAX: 585-647-3311

Roux Associates
Syracuse China Facility
2900 Court Street
Syracuse, NY 13208
Lab Project # 09-3546

Syracuse China Groundwater Monitoring, 9/29/09

Andrew Simmons, representing Paradigm Environmental, arrived on site at 08:50, 9/29/09, met with Monica Laselva representing Roux Associates to gain access to the landfill.

Syracuse China security at 2900 Court Street opened up the loading dock gate allowing access to Well MW-6 behind the factory.

Well MW-6 behind the factory appears to have been struck with a plow over the winter and has caused a kink in the inner well casing making it difficult to obtain a sample.

Well MW-8 on the side of the landfill appears to have been struck by a tractor and has caused a kink in the inner well casing making it difficult to obtain a sample.

Wells MW-1, 2, 5, 10 were samples in good order, with nothing notable to report.

Surface water samples were collected from SW-1 and SW-2 both locations have become overgrown with vegetation and a depth of water was not obtainable.

All the locks on the wells need to be lubricated, as the locks are sticking and very hard to open.

Three (3) volumes of water were purged from all the wells then allowed to recharge and stabilize prior to the samples being taken. Andrew locked all the wells and the gate leading from the landfill to the railroad tracks.

Syracuse China Landfill Monitoring

Location ID	Date	Time	Conductivity (mS/cm)	Dissolved Oxygen (PPM)	pH	Temp (°C)	Turbidity (NTU's)	Depth to Water (ft)	Depth To Bottom (ft)	Vol Purged
Well # 1	09/29/09	11:55	1.06	9.77	7.4	12.9	68.4	22.0	25.3	4.0
Well # 2	09/29/09	13:10	1.43	8.24	6.7	15.8	4.0	5.6	13.3	4.4
Well # 5	09/29/09	12:10	1.49	7.62	6.8	12.8	24.8	5.0	13.4	5.0
Well # 6	09/29/09	14:36	0.82	9.85	6.9	16.2	45.5	5.0	17.0	6.0
Well # 8	09/29/09	12:40	2.91	8.62	6.6	13.7	24.8	6.0	23.0	8.0
Well # 10	09/29/09	12:25	2.70	11.21	6.8	14.5	42.4	4.0	17.0	6.0
SW-1	09/29/09	12:33	0.88	11.53	7.2	14.0	5.0	N/A	N/A	
SW-2	09/29/09	12:54	1.50	13.21	6.7	14.8	6.6	N/A	N/A	

* Conductivity, pH, dissolved oxygen, and temperature readings performed using YSI model # 600QS monitor, serial # 04D6267. Calibration certificate # 73935

** Turbidity readings performed using LaMotte 2020E meter, serial # Me-10142. Calibration certificate # 73936



PARADIGM
ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 Office: (585) 647-2530 Fax: (585) 647-3311

LAB REPORT FOR METALS ANALYSIS IN WATER

Client: Roux Associates

Lab Project No.: 09-3546

Client Job Site: Syracuse China

Sample Type: Water
Method: EPA 200.7

Client Job No.: N/A

Date Sampled: 09/29/2009
Date Received: 09/30/2009
Date Analyzed: 10/05/2009

Lab Sample No.	Field ID No.	Field Location	Lead Results (mg/L)
10941	N/A	MW-1	<0.005
10942	N/A	MW-2	<0.005
10943	N/A	MW-5	<0.005
10944	N/A	MW-6	<0.005
10945	N/A	MW-8	0.021
10946	N/A	MW-10	<0.005
10947	N/A	SW-1	<0.005
10948	N/A	SW-2	0.017 D

ELAP ID No.:10958

Comments:

Approved By: _____

Bruce Hoogesteger, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. File ID:093546.xls

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 * (800) 724-1997

PROJECT NAME/SITE NAME:
Syracuse China

CHAIN OF CUSTODY

REPORT TO:				INVOICE TO:			
COMPANY: Roux Associates		ADDRESS: 1222 Forest Parkway, Suite 190		CITY: West Deptford STATE: NJ ZIP: 08066		LAB PROJECT #: 09-3546	
PHONE: (856)423-8800 FAX: (856)423-3220		ATTN: Monica Laselva		CITY: STATE: ZIP:		CLIENT PROJECT #:	
COMMENTS:				TURNAROUND TIME: (WORKING DAYS)		STD OTHER	
				1 2 3 4 5			




Quotation # MS 120908A

REQUESTED ANALYSIS																
DATE	TIME	C O M P O S I T E	G R A B	SAMPLE LOCATION/FIELD ID	M A T R I X	C O N T A I N E R	P D									
1 9/29/09	1155		X	MW-1	W	1	X									
2 9/29/09	1310		X	MW-2	W	1	X									
3 9/29/09	1210		X	MW-5	W	1	X									
4 9/29/09	1436		X	MW-6	W	1	X									
5 9/29/09	1240		X	MW-8	W	1	X									
6 9/29/09	1225		X	MW-10	W	1	X									
7 9/29/09	1233		X	SW-1	W	1	X									
8 9/29/09	1254		X	SW-2	W	1	X									
9																
10																

LAB USE ONLY

SAMPLE CONDITION: Check box if acceptable or note deviation:	CONTAINER TYPE: <input checked="" type="checkbox"/>	PRESERVATIONS: <input checked="" type="checkbox"/>	HOLDING TIME: <input checked="" type="checkbox"/>	TEMPERATURE: <input type="checkbox"/>
--	---	--	---	---------------------------------------

15°C iced - N/A ble for metals only

Sampled By: 	Date/Time: 9/29/09 1155
Relinquished By: 	Date/Time: 9/30/09 900
Received By: 	Date/Time:

Relinquished By:	Date/Time:
Received By:	Date/Time:
Received @ Lab By: Elizabeth A. Honch	Date/Time: 9/30/09 1030

Total Cost:
P.I.F.

APPENDIX C

PHOTOGRAPHIC DOCUMENTATION



Photograph 1: View of landfill looking west.



Photograph 2: View of swale looking west



Photograph 3: View of landfill looking northwest.



Photograph 4: View of landfill looking east.



Photograph 5: View of swale looking north.



Photograph 6: View of swale looking west.



Photograph 7: View of eastern area looking southeast.



Photograph 8: View of access road looking north.