ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES INC

ROUX

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

March 4, 2009

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 5)
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 fifth 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
- Vegetation maintenance.

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

Sampling Activities
Groundwater and surface water sampling was performed by Paradigm on April 25, 2008. Additional groundwater sampling was performed by Paradigm on September 17, 2008 and September 22, 2008. 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 Paradigm sampling activities are summarized in the Site Monitoring, Inspection and Maintenance Forms provided in Appendix A. Paradigm analytical reports are provided in Appendix B. A site plan showing sampling locations is provided as Figure 1.

Sample results from the April 25, 2008 surface water sampling event indicate that lead was detected in SW-1 at a concentration of 0.013 milligrams per liter (mg/L) and in SW-2 at a concentration of 0.018 mg/L. The detected concentrations, however, are below the Technical and Operation Guidance Series (TOGS 1.1.1) Ambient Water Quality Standards of 0.050 mg/L for lead. Lead was not detected above the laboratory detection limits in groundwater samples collected during the April 25, 2008 event.

Sample results from the September 17 and 22, 2008 sampling events indicate that lead was detected in MW-8 at a concentration of 0.033 mg/L, slightly exceeding the ambient lead standard of 0.025 mg/L. The slightly elevated lead concentration in MW-8 is attributable to sample turbidity. The turbidity reading in MW-8 was 156 nephelometric turbidity units (NTU) at the time of sampling. Lead was not detected above the laboratory detection limit in the remaining September 2008 ground water samples.

A summary of sample results is provided below.

Sample Identification	4/25/2008 (mg/L)	9/17/2008 (mg/L)	9/22/2008 (mg/L)	TOGS 1.1.1 Standard (mg/L)
MW-1	<0.005	<0.005	--	0.025
MW-2	<0.005	<0.005	--	0.025
MW-5	<0.005	<0.005	--	0.025
MW-6	<0.005	<0.005	--	0.025
MW-8	<0.005	--	0.033	0.025
MW-10	<0.005	--	<0.005	0.025
SW-1	0.013	--	--	0.050
SW-2	0.018	--	--	0.050

< = Not detected above the laboratory reporting limit.

Landfill Monitoring

Roux Associates conducted an inspection of the landfill and surrounding site areas on September 15, 2008. 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, fencing, access road, drop chute, energy dissipation structures and permanent landfill gas vents GV-1 through GV-7 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 site access road was observed to be clear of vegetation or obstructions. 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 signs on the fence within the Factory Avenue right-of-way were observed to be generally clear of vegetation; however, some of the signs on the Syracuse China fence are overgrown with vegetation and will require trimming. Approximately 1,700 linear feet of fencing along the eastern border of the site and along the Factory Avenue right-of-way were observed to be damaged and will require repair. TPC-York is preparing to undertake the fence repairs. The results of fence repair activities will be submitted to NYSDEC under separate cover at a later date.

Maintenance Activities Performed
Annual mowing and weed-whacking activities were conducted by Mueller Farms Landscaping Company from September 15, 2008 to September 16, 2008. Roux Associates was present during mowing activities. Mowing was conducted on the landfill surface and within the eastern portion of the site (outside of wetland areas). Mowing and weed-whacking were also conducted within the landfill surface swales to remove woody growth.

Proposed Year 6 OM&M Activities
In accordance with the OM&M Plan and the schedule approved by NYSDEC, the following schedule is proposed for year 6 of OM&M:

- Semi-annual groundwater sampling;
- Annual surface water sampling;
- Annual landfill inspection; and
- Annual landfill mowing/weed-whacking.

The next OM&M event is scheduled to be performed in March 2009. This event will 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. Groundwater and surface water sampling are also scheduled to be performed in September 2009.

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 2009 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 2009 mowing, weed-whacking and trimming activities.

Portions of the fence are damaged. TPC-York is preparing to undertake the fence repairs.

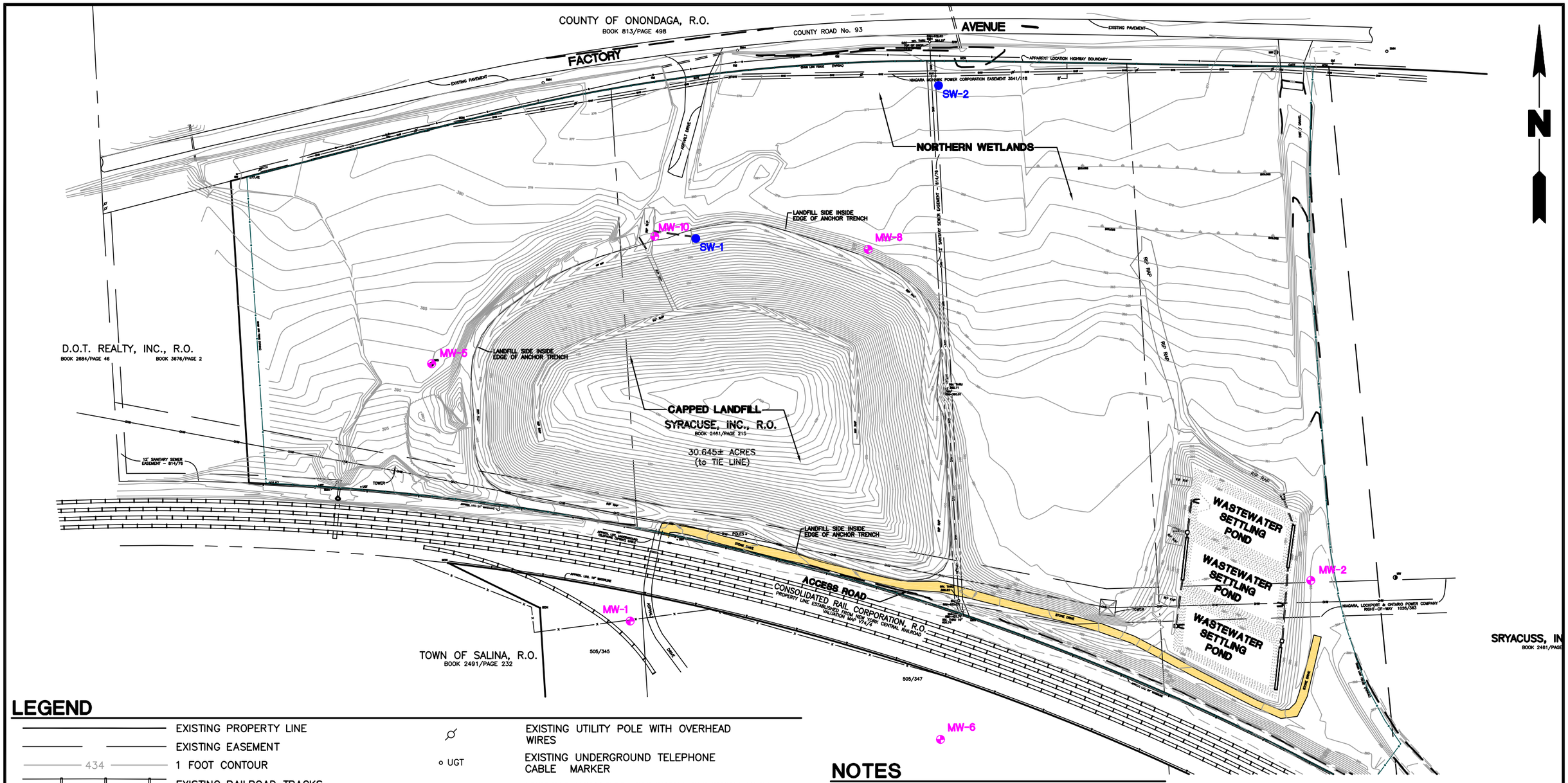
Please call either of the undersigned with any questions regarding this report or proposal.

Sincerely,
ROUX ASSOCIATES, INC.

Monica LaSelva
Project Scientist

Meredith Harris, P.E.
Principal Engineer

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



LEGEND

EXISTING PROPERTY LINE	EXISTING UTILITY POLE WITH OVERHEAD WIRES
EXISTING EASEMENT	UGT — EXISTING UNDERGROUND TELEPHONE CABLE MARKER
434 — 1 FOOT CONTOUR	15" PVC — EXISTING POLYVINYL CHLORIDE CHLORIDE PIPE WITH DIAMETER
EXISTING RAILROAD TRACKS	MON — EXISTING SURVEY MONUMENT SET 3-8-1990 CAPPED IRON ROD SET IN CONCRETE)
OHW — EXISTING OVERHEAD ELECTRICAL TRANSMISSION WIRES	SMH — EXISTING SANITARY SEWER MANHOLE
SAN — EXISTING SUBSURFACE SANITARY SEWER WATERLINE	GM — EXISTING GAS MARKER
W — EXISTING APPROXIMATE LOCATION 24" WATERLINE	SW-2 — SURFACE WATER SAMPLE LOCATION
UGT — EXISTING UNDERGROUND TELEPHONE LINE (FIBER OPTIC) LOCATION	MW-8 — GROUND-WATER MONITORING WELL
G — EXISTING GAS LINE LOCATION	
DESIGN DOWN CHUTE	
FENCE	
RIM=397.41 — 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.

Inspector: Brad Stell, Paradigm Environmental
Date: 4/25/2008

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)	402.3	--	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)	386.8	--	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)	382.6	--	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)	408.3	--	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)	382.7	--	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)	374.1	--	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)	0.013	TOGS 1.1.1 Standard = 0.050 mg/l	None
SW-2[b]	SW Sample for Lead at Northern Discharge (mg/l)	0.018	TOGS 1.1.1 Standard = 0.050 mg/l	None
Eastern Portion of Site[d]	Inspect Vegetation	NA	--	Mow in Sept. 2008
Eastern Portion of Site[d]	Mow Grass	NA	--	Mow in Sept. 2008
Cap Surface[d]	Inspect Vegetation	NA	--	Mow in Sept. 2008
Cap Surface[d]	Mow Grass	NA	--	Mow in Sept. 2008

Inspector: Brad Stell, Paradigm Environmental
Date: 4/25/2008

Item	Action	Value	Notes	Corrective Action Suggested
Northern Wetland[e]	Inspect Vegetation	NA	--	None
Swales[f]	Inspect for Erosion	NA	--	Weed-whack in Sept. 2008
Fence[f]	Inspect for Damage	NA	--	Repair damaged portions of fence
Signs on SC Fence[f]	Inspect for Damage	NA	--	Trim in Sept. 2008
Signs on GM Fence[f]	Inspect for Damage	NA	--	Trim in Sept. 2008
Access Road[f]	Inspect for Wear and Erosion	NA	--	Mow in Sept. 2008
Drop Chute[f]	Inspect for Blockage	NA	--	Weed-whack in Sept. 2008
Energy Dissipation Structures[f]	Inspect for Damage	NA	--	None
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 6.
3. Ground-water sampling to be performed annually for years 7 through 30.
4. NYSDEC will grant reduction of ground-water sampling, Part 360 requires quarterly sampling for minimum of

[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.

[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 and 6.
4. No surface-water sampling will be performed after year 6.
5. NYSDEC will grant reduction of surface-water sampling, Part 360 requires quarterly sampling for minimum of

[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.

Site Monitoring, Inspection and Maintenance Form.

Inspector: Andrew Simmons, Paradigm Environmental / Jason Hickey, Roux Associates

Date: 9/17/2008 and 9/22/2008

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)	387.8	--	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)	385.8	--	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)	408.9	--	None
MW-8[a]	Ground-Water Sample for Lead (mg/l)	0.033	TOGS 1.1.1 Standard = 0.025 mg/l	None
MW-8[a]	Ground-Water Elevation (ft MSL)	385.9	--	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)	377.6	--	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)	NA	TOGS 1.1.1 Standard = 0.050 mg/l	None
Eastern Portion of Site[d]	Inspect Vegetation	NA	--	Mow in Sept 2009
Eastern Portion of Site[d]	Mow Grass	NA	--	Mow in Sept 2009
Cap Surface[d]	Inspect Vegetation	NA	--	Mow in Sept 2009
Cap Surface[d]	Mow Grass	NA	--	Mow in Sept 2009

Site Monitoring, Inspection and Maintenance Form.

Inspector: Andrew Simmons, Paradigm Environmental / Jason Hickey, Roux Associates
Date: 9/17/2008 and 9/22/2008

Item	Action	Value	Notes	Corrective Action Suggested
Northern Wetland[e]	Inspect Vegetation	NA	--	None
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Fence[f]	Inspect for Damage	NA	--	Repair damaged portions of fence
Signs on SC Fence[f]	Inspect for Damage	NA	--	Trim concurrent with fence repair
Signs on GM Fence[f]	Inspect for Damage	NA	--	Trim concurrent with fence repair
Access Road[f]	Inspect for Wear and Erosion	NA	--	Mowed in Sept 2009
Drop Chute[f]	Inspect for Blockage	NA	--	Weed-whack in Sept. 2009
Energy Dissipation Structures[f]	Inspect for Damage	NA	--	Weed-whack 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
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Notes and Assumptions

[a] Ground-Water Sampling

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

[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.

[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 and 6.
4. No surface-water sampling will be performed after year 6.
5. NYSDEC will grant reduction of surface-water sampling, Part 360 requires quarterly sampling for minimum of 5 y

[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

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report Cover Page

Roux Associates

For Lab Project # 08-1440
Issued May 2, 2008
This report contains a total of 4 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 or solid samples have been reported on a dry weight basis, unless qualified "reported as received".

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.

179 Lake Avenue · Rochester, NY 14608 · (585) 647-2530 · Fax (585) 647-3311 · ELAP ID# 10958

PARADIGM
ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue Rochester New York 14608 (585) 647-2530 FAX (585) 647-3311

LABORATORY REPORT OF ANALYSIS

Client: Roux Associates
Client Job Site: Syracuse China
Client Job Number: N/A

Lab Project No.: 08-1440
Sample Type: Water
Date Sampled: 4/18/2008
Date Received: 4/25/2008

Sample Number	Location ID	Date	Time	Conductivity (mS/cm)	Dissolved Oxygen (PPM)	pH (S.U.)	Temp (°C)	Turbidity (NTU's)	Depth to Water (ft)	Depth to Bottom (ft)	Volume Purged (g)
5096	Well #1	4/25/2008	11:00	1.43	5.17	7.8	16.8	304	11.50	25.6	2.5
5097	Well #2	4/25/2008	8:30	1.12	5.64	7	17.1	92	8.0	13.1	1
5098	Well #5	4/25/2008	8:40	2.04	5.01	7.7	17.4	400	7.8	13.5	1
5099	Well #6	4/25/2008	10:15	1.01	4.90	7.6	16.4	467	6.4	16.8	2
5100	Well #8	4/25/2008	9:30	1.89	5.11	7.9	17.1	49	10.2	21.0	2
5101	Well #10	4/25/2008	9:00	2.13	5.47	7.2	16.6	727	8.5	16.1	1.5
5102	SW-1	4/25/2008	8:00	1.74	3.98	7.4	18.1	98.0	N/A	N/A	N/A
5103	SW-2	4/25/2008	8:10	1.86	2.40	7.4	18.9	104.0	N/A	N/A	N/A

ELAP ID.No.: 10958

Comments: Conductivity, pH, dissolved oxygen, temperature and turbidity readings performed using Horiba model # U-22, Serial #611012 Certificate #48957 Calibration # R10178 Ashtead Technology Date Calibrated 4/24/2008

Approved By Technical Director: 

Bruce Hoogesteger

Chain of Custody provides additional sample information.

File ID: Roux Landfill 08-1440

PARADIGM
ENVIRONMENTAL SERVICES, INC.

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

Client: Roux Associates

Client Job Site: Syracuse China

Client Job No.: N/A

Lab Project No.: 08-1440

Sample Type: Water
Method: EPA 6010

Date(s) Sampled: 04/25/2008
Date Received: 04/25/2008
Date Analyzed: 05/01/2008

Laboratory Report for Metals Analysis in Water

Lab Sample No.	Field ID No.	Field Location	Lead Results (mg/L)
5096	N/A	MW-1	<0.005
5097	N/A	MW-2	<0.005
5098	N/A	MW-5	<0.005
5099	N/A	MW-6	<0.005
5100	N/A	MW-8	<0.005
5101	N/A	MW-10	<0.005
5102	N/A	SW-1	0.013
5103	N/A	SW-2	0.018

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 sample information, including compliance with sample condition requirements upon receipt.

File ID:081440.XLS

PARADIGM ENVIRONMENTAL SERVICES, INC.

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

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:			
COMPANY:	Roux Associates	COMPANY:		LAB PROJECT #: 08-1440	CLIENT PROJECT #:
ADDRESS:	1222 Forest Parkway, Suite 190	ADDRESS:			
CITY:	West Deptford STATE: NJ ZIP: 08066	CITY:	STATE: ZIP:	TURNAROUND TIME: (WORKING DAYS)	
PHONE:	856)423-8800 FAX: 856)423-3220	PHONE:	FAX:	STD	OTHER
PROJECT NAME/SITE NAME: Syracuse China	ATTN: Monica Laselva	ATTN:		☐ 1 ☐ 2 ☐ 3 ☒ 5	☐
	COMMENTS:				

REQUESTED ANALYSIS

	DATE	TIME (From "Sampled By" below) EAH 4/25	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	Pb	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	4/25/08	1100		X	MW-1	W	1	X		50996
2		0830		X	MW-2	W	1	X		50997
3		0840		X	MW-5	W	1	X		50998
4		1015		X	MW-6	W	1	X		50999
5		0930		X	MW-8	W	1	X		51000
6		0900		X	MW-10	W	1	X		51001
7		0800		X	SW-1	W	1	X		51002
8	↓	0810		X	~~SW-1~~ 2 per BS and label EAH 4/25	W	1	X		51003
9										
10										

LAB USE ONLY

SAMPLE CONDITION: Check box if acceptable or note deviation: CONTAINER TYPE: ☒ PRESERVATIONS: ☒ HOLDING TIME: ☒ TEMPERATURE: ☐ 18°C

Sampled By: Brad Stell	Date/Time: 4/25/08 0800-1100	Relinquished By:	Date/Time:	Total Cost:	
Relinquished By: Brad Stell	Date/Time: 4/25/08 1440	Received By:	Date/Time:		
Received By:	Date/Time:	Received @ Lab By: Elizabeth A. Honch	Date/Time: 4/25/08 1625	P.I.F.	

Analytical Report Cover Page

Roux Associates

For Lab Project # 08-3408 & 08-3452
Issued September 29, 2008
This report contains a total of 10 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 or solid samples have been reported on a dry weight basis, unless qualified "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.

Roux Associates
Syracuse China Facility
2900 Court Street
Syracuse, NY 13208
Lab Project # 08-3408 & 08-3452

Syracuse China Groundwater Monitoring, 9/17/08

Andrew Simmons, representing Paradigm Environmental, arrived on site at 08:05, 9/17/08, obtained the gate key from Jason Hickey of Roux Associates. Three (3) volumes of water were purged from well # 2 at 08:48 and well # 5 at 09:20. Attempted to locate wells # 8 and 10 but was unable, due to height of vegetation. Abandoned search and purged three (3) volumes of water from wells # 1 at 12:12 and # 6 at 14:16. The purged water from well # 1 had a distinct rust color. Andrew then sampled wells # 2, 5, 1, and 6 in order after letting water recharge and stabilize. Andrew locked and checked the gate on Factory Avenue and returned the gate key to Paula DiStefano representing Syracuse China at 15:00.

Syracuse China Groundwater Monitoring, 9/22/08

Paradigm Environmental personnel arrived on site at 08:40, 9/22/08. Andrew Simmons and Byron Peterson, representing Paradigm Environmental, obtained the gate key from Paula DiStefano. Andrew, with assistance from Byron who had prior experience on site, located wells # 8 and # 10. Andrew noted that the topographical map appeared to be inaccurate concerning the location of both wells and corrected Paradigm's copy for future use. Purged well # 8 at 09:40, and well # 10 at 10:00. Andrew had difficulty with well # 8 as it appeared to have been struck at some point, and the bailer had to be forced past the bent section of casing. Both wells # 8 and 10 were sampled in order after letting water recharge and stabilize. The gates were locked and checked on Factory Avenue and the gate key was returned to Syracuse China personnel at 12:20.

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	09/17/08	13:05	1.00	13.46	6.0	14.0	246	22'	25' 11"	3 gal
Well # 2	09/17/08	11:37	1.44	10.03	6.2	19.1	20	7' 1"	13' 8"	3.25 gal
Well # 5	09/17/08	12:21	1.54	12.87	5.9	15.8	82	4' 7"	14'	6 gal
Well # 6	09/17/08	14:42	0.96	11.03	6.2	19.5	74	5' 10"	17'	6 gal
Well # 1	09/22/08	11:53	1.27	12.84	6.1	14.3	412	22'	25' 11"	2 gal
Well # 2	09/22/08	10:30				14.0		7' 1"	13' 8"	2 gal
Well # 5	09/22/08	11:41	1.81	12.82	6.1	14.8	421	4' 7"	14'	1.5 gal
Well # 8	09/22/09	11:29	3.49	11.06	6.1	17.0	156	7'	23'	8 gal
Well # 10	9/22/2008	11:10	3.08	11.79	6.1	16.1	195	5'	17'	6 gal

9/17/08 testing

* Conductivity, pH, dissolved oxygen, temperature and turbidity readings performed using Horiba model # U-10 monitor, serial # 611012 .

** Calibration certificate # 56071, Ashtead Technology, for 9/17/08 readings.

9/22/08 testing

* Conductivity, pH, dissolved oxygen, temperature and turbidity readings performed using Horiba model # U-10 monitor, serial # 611012.

** Calibration certificate # 56299, Ashtead Technology, for 9/22/08 readings.

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ASHTEAD Technology RENTALS

Calibration Certificate

Asset No:	**R10178**
Description:	**HORIBA U22 W/2M CABLE**
Manufacturer:	**HORIBA**
Serial No:	**611012**
Calibration Date:	**19 September 2008**
Next Calibration:	**Refer to Manufacturers Instructions**
Accuracy of Unit Under Test:	**Manufacturers Specifications**
Adjustments made:	**None**
Calibration Technician:	**Dave Stiles**

Details of any limitations to the use of the equipment
None

The following measurement equipment used during the calibration procedure is traceable to National Standards.

Measurement Equipment/Standards	Reference
7.00 pH STANDARD - 6377	6377
200 NTU TURBIDITY - A7270	A7270
Zobell Solution - 08E100299	08E100299
AutoCal:4.00pH, 4.49mS/cm, 0NTU - 6112	6112
SODIUM SULFITE - P783486	P783486

Calibrated By: _____

Dave Stiles

Test Results

Question	Result
What is the pH value in the AutoCal Solution?	4.00 pH
What is the conductivity reading in the AutoCal solution?	4.49 mS/cm
What is the turbidity reading in the AutoCal solution?	0.1 NTU
What is the DO reading in the AutoCal solution? This will vary considerably depending on temperature.	8.67 mg/l
Is the temperature reading in the AutoCal solution within 1.0 C of readng with workshop thermometer?	Yes
What is the pH 7 reading?	7.00 pH
Rinse probe with DI water and shake off excess. Adjust conductivity zero if needed. What is the conductivity zero reading?	0.001 mS/cm
What is the turbidity span reading?	200 NTU
What is the ZERO DO reading?	0.07 mg/l
Is ORP within 15mV of standard ORP solution?	Yes

PARADIGM
ENVIRONMENTAL SERVICES, INC.

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

Client: Roux Associates

Client Job Site: Syracuse China

Client Job No.: N/A

Lab Project No.: 08-3408

Sample Type: Water
Method: EPA 200.7

Date(s) Sampled: 09/17/2008
Date Received: 09/18/2008
Date Analyzed: 09/24/2008

Laboratory Report for Metals Analysis in Water

Lab Sample No.	Field ID No.	Field Location	Lead Results (mg/L)
10981	N/A	MW-1	<0.005
10982	N/A	MW-2	<0.005
10983	N/A	MW-5	<0.005
10984	N/A	MW-6	<0.005

ELAP ID No.: 10958

Comments:

Approved By: _____
Bruce Hoogesteger, Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC.

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

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:			
COMPANY: Roux Associates		COMPANY:		LAB PROJECT #: 08-3408	CLIENT PROJECT #:
ADDRESS: 1222 Forest Parkway, Suite 190		ADDRESS:			
CITY: West Deptford	STATE: NJ ZIP: 08066	CITY:	STATE: ZIP:	TURNAROUND TIME: (WORKING DAYS)	
PHONE: (856)423-8800	FAX: (856)423-3220	PHONE:	FAX:	STD	OTHER
PROJECT NAME/SITE NAME: Syracuse China	ATTN: Monica Laselva	ATTN:		[ ] 1 [ ] 2 [ ] 3 [X] 5	[ ]
	COMMENTS:			MS111507A	

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	Pb									REMARKS	PARADIGM LAB SAMPLE NUMBER
1	9/17	1305		X	MW-1	W	1	X										10981
2	9/17	1137		X	MW-2	W	1	X										10982
3	9/17	1221		X	MW-5	W	1	X										10983
4	9/17	1442		X	MW-6	W	1	X										10984
5	9/17	—		X	MW-8	W	1	X									Could not locate	
6	9/17	—		X	MW-10	W	1	X									Could not locate	
7				~~X~~	~~SW-1~~	~~W~~	~~1~~	X										
8				~~X~~	~~SW-1~~	~~W~~	~~1~~	X										
9																		
10																		

LAB USE ONLY

SAMPLE CONDITION: Check box if acceptable or note deviation: CONTAINER TYPE: X PRESERVATIONS: X HOLDING TIME: X TEMPERATURE: X 6°Iced

Sampled By: Andrea Simmons	Date/Time: 9/17/08 800	Relinquished By:	Date/Time:
Relinquished By: Andrea Simmons	Date/Time: 9/18/08 700	Received By:	Date/Time:
Received By:	Date/Time:	Received @ Lab By: Elizabeth A. Honch	Date/Time: 9/18/08 1335

Total Cost:

P.I.F.

Roux Associates
Syracuse China Facility
2900 Court Street
Syracuse, NY 13208
Lab Project # 08-3408 & 08-3452

Syracuse China Groundwater Monitoring, 9/17/08

Andrew Simmons, representing Paradigm Environmental, arrived on site at 08:05, 9/17/08, obtained the gate key from Jason Hickey of Roux Associates. Three (3) volumes of water were purged from well # 2 at 08:48 and well # 5 at 09:20. Attempted to locate wells # 8 and 10 but was unable, due to height of vegetation. Abandoned search and purged three (3) volumes of water from wells # 1 at 12:12 and # 6 at 14:16. The purged water from well # 1 had a distinct rust color. Andrew then sampled wells # 2, 5, 1, and 6 in order after letting water recharge and stabilize. Andrew locked and checked the gate on Factory Avenue and returned the gate key to Paula DiStefano representing Syracuse China at 15:00.

Syracuse China Groundwater Monitoring, 9/22/08

Paradigm Environmental personnel arrived on site at 08:40, 9/22/08. Andrew Simmons and Byron Peterson, representing Paradigm Environmental, obtained the gate key from Paula DiStefano. Andrew, with assistance from Byron who had prior experience on site, located wells # 8 and # 10. Andrew noted that the topographical map appeared to be inaccurate concerning the location of both wells and corrected Paradigm's copy for future use. Purged well # 8 at 09:40, and well # 10 at 10:00. Andrew had difficulty with well # 8 as it appeared to have been struck at some point, and the bailer had to be forced past the bent section of casing. Both wells # 8 and 10 were sampled in order after letting water recharge and stabilize. The gates were locked and checked on Factory Avenue and the gate key was returned to Syracuse China personnel at 12:20.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

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

Client: Roux Associates

Client Job Site: Syracuse China

Client Job No.: N/A

Lab Project No.: 08-3452

Sample Type: Water
Method: EPA 200.7

Date(s) Sampled: 09/22/2008
Date Received: 09/22/2008
Date Analyzed: 09/29/2008

Laboratory Report for Metals Analysis in Water

Lab Sample No.	Field ID No.	Field Location	Lead Results (mg/L)
11156	N/A	MW-8	0.033
11157	N/A	MW-10	<0.005 M

ELAP ID No.: 10958

Comments:

Approved By: Val Miller for:
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 sample information, including compliance with sample condition requirements upon receipt.

File ID:083452.XLS

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PARADIGM ENVIRONMENTAL SERVICES, INC.

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

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:			
COMPANY:	Roux Associates	COMPANY:		LAB PROJECT #: 08-3452	CLIENT PROJECT #:
ADDRESS:	1222 Forest Parkway, Suite 190	ADDRESS:			
CITY:	West Deptford STATE: NJ ZIP: 08066	CITY:	STATE: ZIP:	TURNAROUND TIME: (WORKING DAYS)	
PHONE:	(856)423-8800 FAX: (856)423-3220	PHONE:	FAX:	STD	OTHER
ATTN:	Monica Laselva	ATTN:		☐ 1 ☐ 2 ☐ 3 ☒ 5	☐
COMMENTS:					

PROJECT NAME/SITE NAME: Syracuse China

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	Pb										REMARKS	PARADIGM LAB SAMPLE NUMBER
																			ee em 9/22
1																			++
2																			
3																			
4																			
5	9/22	1129		X	MW-8	W	1	X											11156
6	9/22	1110		X	MW-10	W	1	X											11157
7																			
8																			
9																			
10																			

LAB USE ONLY

SAMPLE CONDITION: Check box if acceptable or note deviation: CONTAINER TYPE: ☒ PRESERVATIONS: ☒ HOLDING TIME: ☒ TEMPERATURE: ☒ 14°C iced pres. began in field

Sampled By: Andrew Simmons	Date/Time: 9/22/08 1129	Relinquished By:	Date/Time:
Relinquished By:	Date/Time: 9/22/08 1238	Received By:	Date/Time:
Received By:	Date/Time:	Received @ Lab By: Emily Maynard	Date/Time: 9/22/08 1450

Total Cost:

P.I.F.

APPENDIX C

PHOTOGRAPHIC DOCUMENTATION

Photo 1: View of uncut slopes facing northwest.

Photo 2: View of downed fencing along access road facing north.

Photo 3: View of uncut swale facing northeast.

Photo 4: View of cut upland area facing east.

Photo 5: View of cut landfill facing west.

Photo 6: View of downed fence along Factory Avenue facing southwest.

Photo 7: View of cut swale facing north.

Photo 8: View of repaired landfill vent.