



**Stantec**

**Stantec Consulting Services Inc.**  
61 Commercial Street  
Rochester NY 14614  
Tel: (585) 475-1440  
Fax: (585) 272-1814

August 9, 2013  
File: 190500751

Mr. Todd Caffoe, P.E.  
New York State Department of Environmental Conservation  
Division of Environmental Remediation  
6274 East Avon-Lima Road  
Avon, NY 14414

**Reference:** **Brownfield Cleanup Program**  
**Monthly Progress Report #5**  
**Site #C828184**  
**Former Carriage Factory**  
**33 Litchfield Street**  
**Rochester, Monroe County, New York**

Dear Todd:

On behalf of Carriage Factory Special Needs Apartments, LP (CFSNA), Stantec Consulting Services Inc. (Stantec) has prepared this Monthly Progress Report #5 for the Brownfield Cleanup Program (BCP) at the Former Carriage Factory located at 33 Litchfield Street in the City of Rochester, Monroe County, New York (Site). This report covers activities that took place during the month of July 2013.

## 1. Actions During The Previous Month

- *Remedial Investigation-related Activities:*
  - Obtained water levels in those previously-installed and newly-installed monitoring wells that were accessible on July 2.
  - Continued monitoring the bench test being performed to assess groundwater and saturated soil remedial design options. The results continue to indicate that enhanced reductive dechlorination (ERD) is feasible and specifically that sodium lactate would be the optimal electron donor material.
  - Continued work on the Draft Remedial Investigation Report and began work on the Interim Remedial Measures Construction Completion Report.
- *Construction and Remediation-related Activities:*
  - Conducted weekly site meetings with Todd Caffoe of NYSDEC on July 12, 19, and 26 to review progress and findings to date.
  - Periodically pumped water from a temporary sump installed in crushed stone backfill in the excavation in the southwest corner of the building's basement to the onsite storage tank. The water was sampled on July 5, and Monroe County DES approved discharge of the water to the sewer per the Temporary Discharge Permit for the project. The water was discharged during the period July 15 and 16.
  - Submitted the results of sampling and analysis of the basement soil stockpiles to NYSDEC in Albany on July 5 to obtain approval to dispose of these soils in accordance

August 9, 2013

Page 2

Reference: Brownfield Cleanup Program  
Monthly Progress Report #5  
Site # C828184  
Former Carriage Factory  
33 Litchfield Street, Rochester, New York

with the previously-approved Contained-In Demonstration (CID) Work Plan. NYSDEC responded with written approval for the disposal on July 8.

- Submitted a CID Work Plan Modification letter to NYSDEC in Albany on July 15 requesting permission to perform a Geoprobe sampling and analysis program for pre-characterization of exterior soils in the area south of and adjacent to the building for disposal. This area requires significant excavation of urban fill and native soils to achieve design grades that are up to approximately 8 ft. below existing grade. NYSDEC provided written approval of the proposed pre-characterization sampling and analysis program on July 15.
- Performed ten soil Geoprobe test borings in accordance with the above-mentioned Work Plan Modification on July 15 (see boring locations B201 – B210 on Figure 1). A total of 17 soil samples (a combination of composite and grab samples representing fill material and underlying soil) were submitted for laboratory analysis on July 15. The results and analyses are summarized on Table 1 and Table 2. The results indicate that the CID-contaminants of concern (trichloroethene and tetrachloroethene), were present in 7 samples (5 borings), and were detected at concentrations well below the Contained-In Action Levels (CIALs). However, lead was detected in several samples of the shallow urban fill soils at elevated concentrations (see samples LI-EXT-B201, B203 and B209 on Table 1 and Figure 1). These results and proposed actions will be discussed in a CID sampling report to be submitted to NYSDEC.
- Disposed of basement CID-related soil stockpiles and urban fill stockpiles on July 22 and three remaining basement CID piles on July 26. The urban fill material had been previously characterized and approved for disposal. A total of 304.09 tons of CID-soils and 612.72 tons of urban fill soils were transported to Waste Management's (WM) Mill Seat facility during these disposal events.
- Similar to the pre-characterization program described above, we performed nine soil Geoprobe test borings along the west and south perimeter areas of the site that are largely proposed to be completed as landscaped areas (see borings B301 – B309 on Figure 1). The test borings and associated lab analysis of soil samples were performed to pre-characterize this material. Analytical results for these samples will be received in August.
- Relocated the remaining “north slab” sub-slab soils to the “clean” soil stockpile to facilitate construction activities on the north side of the building (July 29). These soils were previously sampled and analyzed and demonstrated not to contain contaminants in excess of Restricted Residential SCOs and thus are acceptable for reuse on site.
- Excavated the debris and sludge material contained in the elevator pit in the basement on July 31 and August 1. The material was removed with a small backhoe and temporarily stockpiled on poly sheeting in the basement. Liquids and some of the sludge material contained in the pit were removed continuously during excavation with a vacuum truck. The thickness of the material was approximately 1.5 ft., and the pit was found to have a concrete slab bottom that sloped gently northward. Concrete trenches with sumps were found to exist along the north and south sides of the pit, each of which sloped to the west. No outlets were observed in the pits of the sumps. The southern trench and sump were filled primarily with a gravelly soil mixture. The northern trench was filled with debris and sludge. The material in the western, lower sump portion of this

August 9, 2013

Page 3

Reference: Brownfield Cleanup Program  
Monthly Progress Report #5  
Site # C828184  
Former Carriage Factory  
33 Litchfield Street, Rochester, New York

trench appeared to contain VOCs based on strong odors and photoionization detector (PID) readings of 400 to 800 parts per million (ppm) and, in some removed material, reaching greater than 5,000 ppm. These materials were segregated from the remaining pit debris and sludge, where no elevated PID readings were observed. The VOC-impacted materials were subsequently placed into three 55-gal. drums which were sampled and currently remain on site awaiting the analytical results.

Approximately 8.64 tons of sludge and liquid removed by the vacuum truck from the pit during the cleaning operation was transported to Green Environment Solutions in Niagara Falls for treatment and disposal. Preliminary approval for landfill disposal of the debris and sludge materials has been verbally received from WM based on prior analytical results; however final approval is contingent upon obtaining results from percent solids analysis and a paint filter test.

## **2. Data Received or Generated in the Previous Month**

- NYSDEC provided written approval of the Contained-In Demonstration Work Plan Modification on July 15.
- Laboratory results were received as follows (QA/QC samples are not included in this tally):
  - 17 grab or composite soil samples from the CID exterior test borings;
  - 3 total lead and 2 TCLP lead analyses from the above CID test borings;
  - TCLP Mercury analysis of soil samples from Urban Fill stockpiles for disposal;
  - Pesticides and Semi-volatile organic compounds (SVOCs) analyses for soil removed from parking lot area;
  - 1 water sample from the storage tank;
  - TCLP metals and TCLP SVOC analyses for the elevator sludge sample obtained in June.

## **3. Deliverables Completed and Submitted during the Previous Month**

- Submitted a letter report summarizing CID soil stockpile sampling and analysis to NYSDEC on July 5.
- Submitted Monthly Progress Report No. 4 to NYSDEC on July 10.
- Submitted a CID Work Plan Modification to NYSDEC on July 15.

## **4. Actions Scheduled for the Next Reporting Period**

The following activities are anticipated to occur in August:

- Submittal of laboratory analytical results for exterior CID soil samples to NYSDEC.

August 9, 2013

Page 4

Reference: Brownfield Cleanup Program  
Monthly Progress Report #5  
Site # C828184  
Former Carriage Factory  
33 Litchfield Street, Rochester, New York

- Continued monitoring of construction-related activities, potentially including (the schedule for some of these activities is uncertain):
  - Interior groundwater remediation piping installation in the basement;
  - Excavation for new utilities in the basement;
  - Exterior soil excavation to final grades, including grading for parking areas;
  - Excavation and grading of proposed landscaped areas;
  - Additional characterization of soils in exterior areas, as needed;
  - Disposal of any soils approved for disposal, and;
  - Installation of new water supply piping and sewer connections to the building.

## 5. Completion, Delays and Future Schedule

With the exception of the lead results in the exterior CID samples, which are expected to require stockpiling the urban fill versus direct loading this material, no other completion, delay, or schedule issues occurred during July.

## Closing

Should you have any questions or require further information, please call me at 585-413-5266.

Sincerely,

**STANTEC CONSULTING SERVICES INC.**



Michael P. Storonsky  
Project Manager



Robert J. Mahoney, P.G.  
Senior Environ. Geologist



Benjamin Haravitch  
Environmental Scientist

cc: Bart Putzig (NYSDEC)  
James Mahoney (NYSDEC)  
Justin Deming (NYSDOH)  
James Whalen (CFSNA)  
Mark Fuller (CFSNA)  
Gillian Conde (CFSNA)  
Joy Cromwell (CFSNA)  
Chris Betts (Betts Housing)  
Al Floro (Nixon Peabody)  
Jonathan Penna (Nixon Peabody)  
Mark Gregor (City of Rochester)  
James Patchett (Goldman Sachs)  
Eleonora Bershadskaya (Goldman Sachs)  
Linda Kaiser (Goldman Sachs)  
Patrick Miller (CPC)  
David Lent (IVI)

August 9, 2013

Page 5

Reference: Brownfield Cleanup Program  
Monthly Progress Report #5  
Site # C828184  
Former Carriage Factory  
33 Litchfield Street, Rochester, New York

Attachments:

- Figure 1 - Exterior Test Boring Locations  
Table 1 - Summary of Analytical Results in Soil – Exterior Test Boring Samples  
Table 2 - Summary of Soil Sample Analyses

## **FIGURE**



## **TABLES**

**Table 1**  
**Summary of Analytical Results in Soil**  
**Exterior Test Boring Samples**  
**Brownfield Cleanup Program Site #C828184**  
**Contained-In Demonstration**  
**33 Litchfield Street, Rochester, New York**

DRAFT

Sample Location			LI-EXT-S1g1	LI-EXT-S1g2	LI-EXT-S1g3	LI-EXT-S1g4	LI-EXT-S1g5	LI-EXT-S1g6	LI-EXT-S1g7	LI-EXT-S1c1	LI-EXT-S1c2	LI-EXT-S2g	LI-EXT-S3c	LI-EXT-S4g	LI-EXT-S4c	LI-EXT-S5g	LI-EXT-S5c	LI-EXT-B201		LI-EXT-B203		LI-EXT-B209		
Sample Date			15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13										
Sample ID			LI-EXT-S1g1	LI-EXT-S1g2	LI-EXT-S1g3	LI-EXT-S1g4	LI-EXT-S1g5	LI-EXT-S1g6	LI-EXT-S1g7	LI-EXT-S1c1	LI-EXT-S1c2	LI-EXT-S2g	LI-EXT-S3c	LI-EXT-S4g	LI-EXT-S4c	LI-EXT-S5g	LI-EXT-S5c	LI-EXT-B201 (1-3')	LI-EXT-B201 (1-3')	LI-EXT-B203 (0-4')	LI-EXT-B203 (0-4')	LI-EXT-B209 (2-4')		
Sample Depth			0 - 3 ft	4 - 8 ft	1 - 3 ft	6 - 8 ft	1 - 3 ft	6 - 8 ft	9 - 10 ft	0 - 4 ft	0 - 4 ft	0 - 4 ft	0 - 3 ft	0 - 4 ft	4 - 8 ft	4 - 6 ft	2 - 7 ft	1 - 3 ft	1 - 3 ft	0 - 4 ft	0 - 4 ft	2 - 4 ft		
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC										
Laboratory			PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH										
Laboratory Work Order			132642	132642	132642	132642	132642	132642	132642	132642	132642	132642	132642	132642	132642	132642	132642	132642	132642	132642	132642	132775		
Laboratory Sample ID	Units	NYSDEC	132642-01	132642-02	132642-03	132642-04	132642-05	132642-06	132642-07	132642-08	132642-09	132642-10	132642-11	132642-12	132642-13	132642-14	132642-15	132642-16	132642-17	132804-01	132775-01	132804-02	132775-02	132775-03
<b>Volatile Organic Compounds</b>																								
Acetone	µg/kg	7800000 <sup>A</sup>	104 U	17.1 U J B	29.0 U B	48.8 U B	405	42.4 U B	20.8 U	-	-	24.2 U	-	21.7 U	-	20.6 U	-	18.4 U J B	-	-	-	-	-	
Benzene	µg/kg	22000 <sup>A</sup>	20.7 U	3.96 U	4.58 U	4.30 U	4.18 U	4.00 U	4.16 U	-	-	4.84 U	-	4.35 U	-	4.12 U	-	3.71 U	-	-	-	-	-	
Bromodichloromethane	µg/kg	10000 <sup>A</sup>	20.7 U	3.96 U	4.58 U	4.30 U	4.18 U	4.00 U	4.16 U	-	-	4.84 U	-	4.35 U	-	4.12 U	-	3.71 U	-	-	-	-	-	
Bromoform (Tribromomethane)	µg/kg	81000 <sup>A</sup>	51.8 U	9.91 U	11.4 U	10.8 U	10.5 U	10.4 U	-	-	12.1 U	-	10.9 U	-	10.3 U	-	9.28 U	-	-	-	-	-	-	
Bromomethane (Methyl bromide)	µg/kg	110000 <sup>A</sup>	20.7 U	3.96 U	4.58 U	4.30 U	4.18 U	4.00 U	4.16 U	-	-	4.84 U	-	4.35 U	-	4.12 U	-	3.71 U	-	-	-	-	-	
Butylbenzene, n-	µg/kg	n/v	20.7 U	3.96 U	4.58 U	4.30 U	4.18 U	4.00 U	4.16 U	-	-	4.84 U	-	4.35 U	-	4.12 U	-	3.71 U	-	-	-	-	-	
Butylbenzene, sec- (2-Phenylbutane)	µg/kg	n/v	20.7 U	3.96 U	4.58 U	4.30 U	3.60 U J	22.3	4.16 U	-	-	4.84 U	-	4.35 U	-	4.12 U	-	3.71 U	-	-	-	-	-	
Butylbenzene, tert-	µg/kg	n/v	20.7 U	3.96 U	4.58 U	4.30 U	37.6	4.66	4.16 U	-	-	4.84 U	-	4.35 U	-	4.12 U	-	3.71 U	-	-	-	-	-	
Carbon Disulfide	µg/kg	7800000 <sup>A</sup>	20.7 U	3.96 U	4.58 U	4.30 U	22.2	4.00 U	4.16 U	-	-	4.84 U	-	4.35 U	-	4.12 U	-	3.71 U	-	-	-	-	-	
Carbon Tetrachloride (Tetrachloromethane)	µg/kg	4900 <sup>A</sup>	20.7 U	3.96 U	4.58 U	4.30 U	4.18 U	4.00 U	4.16 U	-	-	4.84 U	-	4.35 U	-	4.12 U	-	3.71 U	-	-	-	-	-	
Chlorobenzene (Monochlorobenzene)	µg/kg	1600000 <sup>A</sup>	20.7 U	3.96 U	4.58 U	4.30 U	4.18 U	4.00 U	4.16 U	-	-	4.84 U	-	4.35 U	-	4.12 U	-	3.71 U	-	-	-	-	-	
Chlorobromomethane	µg/kg	n/v	51.8 U	9.91 U	11.4 U	10.8 U	10.5 U	10.0 U	10.4 U	-	-	12.1 U	-	10.9 U	-	10.3 U	-	9.28 U	-	-	-	-	-	
Chloroethane (Ethyl Chloride)	µg/kg	49000 <sup>A</sup>	20.7 U	3.96 U	4.58 U	4.30 U	4.18 U	4.00 U	4.16 U	-	-	4.84 U	-	4.35 U	-	4.12 U	-	3.71 U	-	-	-	-	-	
Chloroform (Trichloromethane)	µg/kg	100000 <sup>A</sup>	20.7 U	3.96 U	4.58 U	4.30 U	4.18 U	4.00 U	4.16 U	-	-	4.84 U	-	4.35 U	-	4.12 U	-	3.71 U	-	-	-	-	-	
Chloromethane	µg/kg	n/v	20.7 U	3.96 U	4.58 U	4.30 U	4.18 U	4.00 U	4.16 U	-	-	4.84 U	-	4.35 U	-	4.12 U	-	3.71 U	-	-	-	-	-	
Cyclohexane	µg/kg	n/v	104 U	19.8 U	22.9 U	21.5 U	20.9 U	20.0 U	20.8 U	-	-	24.2 U	-	21.7 U	-	20.6 U	-	18.6 U	-	-	-	-	-	
Dibromo-3-Chloropropane, 1,2- (DBCP)	µg/kg	29 <sup>A</sup>	104 U	19.8 U	22.9 U	21.5 U	20.9 U	20.0 U	20.8 U	-	-	24.2 U	-	21.7 U	-	20.6 U	-	18.6 U	-	-	-	-	-	
Dibromochloromethane	µg/kg	7600 <sup>A</sup>	20.7 U	3.96 U	4.58 U	4.30 U	4.18 U	4.00 U	4.16 U	-	-	4.84 U	-	4.35 U	-	4.12 U	-	3.71 U	-	-	-	-	-	
Dichlorobenzene, 1,2-	µg/kg	7800000 <sup>A</sup>	20.7 U	3.96 U	4.58 U	4.30 U	4.18 U	4.00 U	4.16 U	-	-	4.84 U	-	4.35 U	-	4.12 U	-	3.71 U	-	-	-	-	-	
Dichlorobenzene, 1,3-	µg/kg	n/v	20.7 U	3.96 U	4.58 U	4.30 U	4.18 U	4.00 U	4.16 U	-	-	4.84 U	-	4.35 U	-	4.12 U	-	3.71 U	-	-	-	-	-	
Dichlorobenzene, 1,4-	µg/kg	27000 <sup>A</sup>	20.7 U	3.96 U	4.58 U	4.30 U	4.18 U	4.00 U	4.16 U	-	-	4.84 U	-	4.35 U	-	4.12 U	-	3.71 U	-	-	-	-	-	
Dichlorodifluoromethane (Freon 12)	µg/kg	16000000 <sup>A</sup>	20.7 U	3.96 U	4.58 U	4.30 U	4.18 U	4.00 U	4.16 U	-	-	4.84 U	-	4.35 U	-	4.12 U	-	3.71 U	-	-	-	-	-	
Dichloroethane, 1,1-	µg/kg	7800000 <sup>A</sup>	20.7 U	3.96 U	4.58 U	4.30 U	4.18 U	4.00 U	4.16 U	-	-	4.84 U	-	4.35 U	-	4.12 U	-	3.71 U	-	-	-	-	-	
Dichloroethane, 1,2-	µg/kg	n/v	20.7 U	3.96 U	4.58 U	4.30 U	4.18 U	4.00 U	4.16 U	-	-	4.84 U	-	4.35 U	-	4.12 U	-	3.71 U	-	-	-	-	-	
Dichloroethylene, 1,1-	µg/kg	1100 <sup>A</sup>	20.7 U	3.96 U	4.58 U	4.30 U	4.18 U	4.00 U	4.16 U	-	-	4.84 U	-	4.35 U	-	4.12 U	-	3.71 U	-	-	-	-	-	
Dichloroethylene, cis-1,2-	µg/kg	780000 <sup>A</sup>	30.8	3.96 U	3.46 U J	4.30 U	81.5	4.00 U	4.16 U	-	-	3.29 U J	-	4.35 U	-	4.12 U	-	3.71 U	-	-	-	-	-	
Dichloroethylene, trans-1,2-	µg/kg	1600000 <sup>A</sup>	20.7 U	3.96 U	4.58 U	4.30 U	2.38 U J	4.00 U	4.16 U	-	-	4.84 U	-	4.35 U	-	4.12 U	-	3.71 U	-	-	-	-	-	
Dichloropropane, 1,2-	µg/kg	9400 <sup>A</sup>	20.7 U	3.96 U	4.58 U	4.30 U	4.18 U	4.00 U	4.16 U	-	-	4.84 U	-	4.35 U	-	4.12 U	-	3.71 U	-	-	-	-	-	
Dichloropropene, cis-1,3-	µg/kg	n/v	20.7 U	3.96 U	4.58 U	4.30 U	4.18 U	4.00 U	4.16 U	-	-	4.84 U	-	4.35 U	-	4.12 U	-	3.71 U	-	-	-	-	-	
Dichloropropene, trans-1,3-	µg/kg	n/v	20.7 U	3.96 U	4.58 U	4.30 U	4.18 U	4.00 U	4.16 U	-	-	4.84 U	-	4.35 U	-	4.12 U	-	3.71 U	-	-	-	-	-	
Dioxane, 1,4-	µg/kg	58000 <sup>A</sup>	207 U	39.6 U	45.8 U	43.0 U	41.8 U	40.0 U	41.6 U	-	-	48.4 U	-	43.5 U	-	41.2 U	-	37.1 U	-	-	-	-	-	
Ethylbenzene	µg/kg	7800000 <sup>A</sup>	20.7 U	3.96 U	4.58 U	4.30 U	4.18 U	4.00 U	4.16 U	-	-	4.84 U	-	4.35 U	-	4.12 U	-	3.71 U	-	-	-	-	-	
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/kg	7.5 <sup>A</sup>	20.7 U	3.96 U	4.58 U	4.30 U	4.18 U	4.00 U	4.16 U	-	-	4.84 U	-	4.35 U	-	4.12 U	-	3.71 U	-	-	-	-	-	
Hexanone, 2- (Methyl Butyl Ketone)	µg/kg	n/v	51.8 U	9.91 U	11.4 U	10.8 U	10.5 U	10.0 U	10.4 U	-	-	12.1 U	-	10.9 U	-	10.3 U	-	9.28 U	-	-	-	-	-	
Isopropylbenzene	µg/kg	3100000 <sup>A</sup>	20.7 U	3.96 U	4.58 U	4.30 U	2.79 U J	3.58 U J	4.16 U	-	-	4.84 U	-	4.35 U	-	4.12 U	-	3.71 U	-	-	-	-	-	
Isopropyltoluene, p- (Cymene)	µg/kg	n/v	20.7 U	3.96 U	4.58 U	4.30 U	3.37 U J	4.00 U	4.16 U	-	-	4.84 U	-	4.35 U	-	4.12 U	-	3.71 U	-	-	-	-	-	
Methyl Acetate	µg/kg	n/v	20.7 U	3.96 U	4.58 U	4.30 U	4.18 U	4.00 U	4.16 U	-	-	4.84 U	-	4.35 U	-	4.12 U	-	3.71 U	-	-	-	-	-	
Methyl Ethyl Ketone																								

**Table 1**  
**Summary of Analytical Results in Soil  
Exterior Test Boring Samples  
Brownfield Cleanup Program Site #C828184  
Contained-In Demonstration  
33 Litchfield Street, Rochester, New York**

DRAFT

Sample Location			LI-EXT-S1g1	LI-EXT-S1g2	LI-EXT-S1g3	LI-EXT-S1g4	LI-EXT-S1g5	LI-EXT-S1g6	LI-EXT-S1g7	LI-EXT-S1c1	LI-EXT-S1c2	LI-EXT-S2g	LI-EXT-S2c	LI-EXT-S3g	LI-EXT-S3c	LI-EXT-S4g	LI-EXT-S4c	LI-EXT-S5g	LI-EXT-S5c	LI-EXT-B201	LI-EXT-B203	LI-EXT-B209		
Sample Date			15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13		
Sample ID			LI-EXT-S1g1	LI-EXT-S1g2	LI-EXT-S1g3	LI-EXT-S1g4	LI-EXT-S1g5	LI-EXT-S1g6	LI-EXT-S1g7	LI-EXT-S1c1	LI-EXT-S1c2	LI-EXT-S2g	LI-EXT-S2c	LI-EXT-S3g	LI-EXT-S3c	LI-EXT-S4g	LI-EXT-S4c	LI-EXT-S5g	LI-EXT-S5c	LI-EXT-B201	LI-EXT-B203	LI-EXT-B209		
Sample Depth			0 - 3 ft	4 - 8 ft	1 - 3 ft	6 - 8 ft	1 - 3 ft	6 - 8 ft	9 - 10 ft	0 - 4 ft	4 - 8 ft	0 - 4 ft	0 - 3 ft	0 - 4 ft	6 - 8 ft	4 - 8 ft	4 - 6 ft	2 - 4 ft	1 - 3 ft	1 - 3 ft	0 - 4 ft	0 - 4 ft	2 - 4 ft	
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	
Laboratory			PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	
Laboratory Work Order			132642	132642	132642	132642	132642	132642	132642	132642	132642	132642	132642	132642	132642	132642	132642	132642	132642	132804	132775	132775		
Laboratory Sample ID	Units	NYSDEC	132642-01	132642-02	132642-03	132642-04	132642-05	132642-06	132642-07	132642-08	132642-09	132642-10	132642-11	132642-12	132642-13	132642-14	132642-15	132642-16	132642-17	132804-01	132775-01	132804-02	132775-02	132775-03
Xylene, m & p-		µg/kg	160000000 <sup>A</sup>	20.7 U	3.96 U	4.58 U	4.30 U	10.0	4.00 U	4.16 U	-	-	4.84 U	-	4.35 U	-	4.12 U	-	3.71 U	-	-	-	-	-
Xylene, o-		µg/kg	160000000 <sup>A</sup>	20.7 U	3.96 U	4.58 U	4.30 U	5.84	4.00 U	4.16 U	-	-	4.84 U	-	4.35 U	-	4.12 U	-	3.71 U	-	-	-	-	-

---

See notes on last page

---

**Volatile Organic Compounds, TCLP**

## **Semi - Volatile Organic Compounds**

**Table 1**  
**Summary of Analytical Results in Soil**  
**Exterior Test Boring Samples**  
**Brownfield Cleanup Program Site #C828184**  
**Contained-In Demonstration**  
**33 Litchfield Street, Rochester, New York**

DRAFT

Sample Location	LI-EXT-S1g1	LI-EXT-S1g2	LI-EXT-S1g3	LI-EXT-S1g4	LI-EXT-S1g5	LI-EXT-S1g6	LI-EXT-S1g7	LI-EXT-S1c1	LI-EXT-S1c2	LI-EXT-S2g	LI-EXT-S2c	LI-EXT-S3g	LI-EXT-S3c	LI-EXT-S4g	LI-EXT-S4c	LI-EXT-S5g	LI-EXT-S5c	LI-EXT-B201		LI-EXT-B203		LI-EXT-B209		
Sample Date	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13		
Sample ID	LI-EXT-S1g1	LI-EXT-S1g2	LI-EXT-S1g3	LI-EXT-S1g4	LI-EXT-S1g5	LI-EXT-S1g6	LI-EXT-S1g7	LI-EXT-S1c1	LI-EXT-S1c2	LI-EXT-S2g	LI-EXT-S2c	LI-EXT-S3g	LI-EXT-S3c	LI-EXT-S4g	LI-EXT-S4c	LI-EXT-S5g	LI-EXT-S5c	LI-EXT-B201		LI-EXT-B203		LI-EXT-B209		
Sample Depth	0 - 3 ft	4 - 8 ft	1 - 3 ft	6 - 8 ft	1 - 3 ft	6 - 8 ft	9 - 10 ft	0 - 4 ft	4 - 8 ft	0 - 4 ft	0 - 4 ft	0 - 4 ft	6 - 8 ft	4 - 8 ft	4 - 6 ft	2 - 7 ft	1 - 3 ft	1 - 3 ft	1 - 3 ft	1 - 3 ft	(0-4')	(0-4')	(2-4')	
Sampling Company	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	
Laboratory	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	
Laboratory Work Order	132642	132642	132642	132642	132642	132642	132642	132642	132642	132642	132642	132642	132642	132642	132642	132642	132642	132642	132642	132642	132642	132642	132642	
Laboratory Sample ID	Units	NYSDEC	132642-01	132642-02	132642-03	132642-04	132642-05	132642-06	132642-07	132642-08	132642-09	132642-10	132642-11	132642-12	132642-13	132642-14	132642-15	132642-16	132642-17	132642-18	132775-01	132775-02	132775-03	
Di-n-Octyl phthalate	µg/kg	1600000 <sup>A</sup>	-	-	-	-	-	-	-	1630 U	323 U	-	336 U	-	344 U	-	334 U	-	-	-	-	-	-	
Fluoranthene	µg/kg	3100000 <sup>A</sup>	-	-	-	-	-	-	-	1630 U	323 U	-	837	-	1610	-	334 U	-	348 U	-	-	-	-	-
Fluorene	µg/kg	3100000 <sup>A</sup>	-	-	-	-	-	-	-	1630 U	323 U	-	336 U	-	344 U	-	334 U	-	348 U	-	-	-	-	-
Hexachlorobenzene	µg/kg	400 <sup>A</sup>	-	-	-	-	-	-	-	1630 U	323 U	-	336 U	-	344 U	-	334 U	-	348 U	-	-	-	-	-
Hexachlorobutadiene (Heachloro-1,3-butadiene)	µg/kg	8200 <sup>A</sup>	-	-	-	-	-	-	-	1630 U	323 U	-	336 U	-	344 U	-	334 U	-	348 U	-	-	-	-	-
Hexachlorocyclopentadiene	µg/kg	550000 <sup>A</sup>	-	-	-	-	-	-	-	1630 U	323 U	-	336 U	-	344 U	-	334 U	-	348 U	-	-	-	-	-
Hexachloroethane	µg/kg	46000 <sup>A</sup>	-	-	-	-	-	-	-	1630 U	323 U	-	336 U	-	344 U	-	334 U	-	348 U	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/kg	900 <sup>A</sup>	-	-	-	-	-	-	-	1630 U	323 U	-	488	-	738	-	334 U	-	348 U	-	-	-	-	-
See notes on last page																								
<b>Semi - Volatile Organic Compounds (Continued)</b>																								
Isophorone	µg/kg	670000 <sup>A</sup>	-	-	-	-	-	-	-	1630 U	323 U	-	336 U	-	344 U	-	334 U	-	348 U	-	-	-	-	-
Methylnaphthalene, 2-	µg/kg	n/v	-	-	-	-	-	-	-	1630 U	323 U	-	336 U	-	344 U	-	334 U	-	348 U	-	-	-	-	-
Naphthalene	µg/kg	310000 <sup>A</sup>	-	-	-	-	-	-	-	1630 U	323 U	-	336 U	-	344 U	-	334 U	-	348 U	-	-	-	-	-
Nitroaniline, 2-	µg/kg	n/v	-	-	-	-	-	-	-	3260 U	645 U	-	671 U	-	687 U	-	668 U	-	696 U	-	-	-	-	-
Nitroaniline, 3-	µg/kg	n/v	-	-	-	-	-	-	-	3260 U	645 U	-	671 U	-	687 U	-	668 U	-	696 U	-	-	-	-	-
Nitroaniline, 4-	µg/kg	n/v	-	-	-	-	-	-	-	3260 U	645 U	-	671 U	-	687 U	-	668 U	-	696 U	-	-	-	-	-
Nitrobenzene	µg/kg	39000 <sup>A</sup>	-	-	-	-	-	-	-	1630 U	323 U	-	336 U	-	344 U	-	334 U	-	348 U	-	-	-	-	-
Nitrophenol, 2-	µg/kg	n/v	-	-	-	-	-	-	-	1630 U	323 U	-	336 U	-	344 U	-	334 U	-	348 U	-	-	-	-	-
Nitrophenol, 4-	µg/kg	n/v	-	-	-	-	-	-	-	3260 U	645 U	-	671 U	-	687 U	-	668 U	-	696 U	-	-	-	-	-
N-Nitrosodi-n-Propylamine	µg/kg	n/v	-	-	-	-	-	-	-	1630 U	323 U	-	336 U	-	344 U	-	334 U	-	348 U	-	-	-	-	-
n-Nitrosodiphenylamine	µg/kg	130000 <sup>A</sup>	-	-	-	-	-	-	-	1630 U	323 U	-	336 U	-	344 U	-	334 U	-	348 U	-	-	-	-	-
Pentachlorophenol	µg/kg	3000 <sup>A</sup>	-	-	-	-	-	-	-	3260 U	645 U	-	671 U	-	687 U	-	668 U	-	696 U	-	-	-	-	-
Phenanthrene	µg/kg	n/v	-	-	-	-	-	-	-	1630 U	323 U	-	336 U	-	344 U	-	334 U	-	348 U	-	-	-	-	-
Phenol	µg/kg	47000000 <sup>A</sup>	-	-	-	-	-	-	-	1630 U	323 U	-	336 U	-	344 U	-	334 U	-	348 U	-	-	-	-	-
Pyrene	µg/kg	2300000 <sup>A</sup>	-	-	-	-	-	-	-	1630 U	323 U	-	793	-	1610	-	334 U	-	348 U	-	-	-	-	-
Tetrachlorobenzene, 1,2,4,5-	µg/kg	23000 <sup>A</sup>	-	-	-	-	-	-	-	1630 U	323 U	-	336 U	-	344 U	-	334 U	-	348 U	-	-	-	-	-
Tetrachlorophenol, 2,3,4,6-	µg/kg	2300000 <sup>A&lt;/</sup>																						

**Table 1**  
**Summary of Analytical Results in Soil  
Exterior Test Boring Samples  
Brownfield Cleanup Program Site #C828184  
Contained-In Demonstration  
33 Litchfield Street, Rochester, New York**

DRAFT

Sample Location			LI-EXT-S1g1	LI-EXT-S1g2	LI-EXT-S1g3	LI-EXT-S1g4	LI-EXT-S1g5	LI-EXT-S1g6	LI-EXT-S1g7	LI-EXT-S1c1	LI-EXT-S1c2	LI-EXT-S2g	LI-EXT-S2c	LI-EXT-S3g	LI-EXT-S3c	LI-EXT-S4g	LI-EXT-S4c	LI-EXT-S5g	LI-EXT-S5c	LI-EXT-B201	LI-EXT-B203	LI-EXT-B209	
Sample Date			15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13	15-Jul-13									
Sample ID			LI-EXT-S1g1	LI-EXT-S1g2	LI-EXT-S1g3	LI-EXT-S1g4	LI-EXT-S1g5	LI-EXT-S1g6	LI-EXT-S1g7	LI-EXT-S1c1	LI-EXT-S1c2	LI-EXT-S2g	LI-EXT-S2c	LI-EXT-S3g	LI-EXT-S3c	LI-EXT-S4g	LI-EXT-S4c	LI-EXT-S5g	LI-EXT-S5c	LI-EXT-B201 (1-3')	LI-EXT-B201 (0-4')	LI-EXT-B203 (0-4')	LI-EXT-B209 (2-4')
Sample Depth			0 - 3 ft	4 - 8 ft	1 - 3 ft	6 - 8 ft	1 - 3 ft	6 - 8 ft	9 - 10 ft	0 - 4 ft	4 - 8 ft	0 - 4 ft	0 - 3 ft	0 - 4 ft	6 - 8 ft	4 - 8 ft	4 - 6 ft	2 - 7 ft	1 - 3 ft	1 - 3 ft	0 - 4 ft	0 - 4 ft	2 - 4 ft
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC								
Laboratory			PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH								
Laboratory Work Order	Units	NYSDEC	132642	132642	132642	132642	132642	132642	132642	132642	132642	132642	132642	132642	132642	132642	132642	132642	132642	132642	132642	132642	132642
Laboratory Sample ID			132642-01	132642-02	132642-03	132642-04	132642-05	132642-06	132642-07	132642-08	132642-09	132642-10	132642-11	132642-12	132642-13	132642-14	132642-15	132642-16	132642-17	132804	132775	132804	132775
DDD (p,p'-DDD)	µg/kg	2700 <sup>A</sup>	-	-	-	-	-	-	-	18.6 U C	3.24 U	-	3.39 U	-	3.41 U	-	3.37 U	-	3.45 U	-	-	-	-
DDE (p,p'-DDE)	µg/kg	1900 <sup>A</sup>	-	-	-	-	-	-	-	3.25 U	3.24 U	-	3.39 U	-	3.41 U	-	3.37 U	-	3.45 U	-	-	-	-
DDT (p,p'-DDT)	µg/kg	1900 <sup>A</sup>	-	-	-	-	-	-	-	15.0 U C	3.24 U	-	3.39 U	-	9.46 U C	-	3.37 U	-	3.45 U	-	-	-	-
Dielein	µg/kg	40 <sup>A</sup>	-	-	-	-	-	-	-	13.0	3.24 U	-	3.39 U	-	10.1 U C	-	3.37 U	-	3.45 U	-	-	-	-
Endosulfan I	µg/kg	n/v	-	-	-	-	-	-	-	3.25 U	3.24 U	-	3.39 U	-	3.41 U	-	3.37 U	-	3.45 U	-	-	-	-
Endosulfan II	µg/kg	n/v	-	-	-	-	-	-	-	6.24 U C	3.24 U	-	3.39 U	-	3.41 U	-	3.37 U	-	3.45 U	-	-	-	-
Endosulfan Sulfate	µg/kg	n/v	-	-	-	-	-	-	-	3.25 U	3.24 U	-	3.39 U	-	3.41 U	-	3.37 U	-	3.45 U	-	-	-	-
Endrin	µg/kg	23000 <sup>A</sup>	-	-	-	-	-	-	-	3.25 U	3.24 U	-	3.39 U	-	3.93 U C	-	3.37 U	-	3.45 U	-	-	-	-
Endrin Aldehyde	µg/kg	n/v	-	-	-	-	-	-	-	3.25 U	3.24 U	-	3.41	-	3.41 U	-	3.37 U	-	3.45 U	-	-	-	-
Endrin Ketone	µg/kg	n/v	-	-	-	-	-	-	-	3.25 U	3.24 U	-	3.39 U	-	4.20 U C	-	3.37 U	-	3.45 U	-	-	-	-
Heptachlor	µg/kg	140 <sup>A</sup>	-	-	-	-	-	-	-	3.25 U	3.24 U	-	3.39 U	-	3.41 U	-	3.37 U	-	3.45 U	-	-	-	-
Heptachlor Epoxide	µg/kg	70 <sup>A</sup>	-	-	-	-	-	-	-	3.25 U	3.24 U	-	3.39 U	-	3.41 U	-	3.37 U	-	3.45 U	-	-	-	-
Lindane (Hexachlorocyclohexane, gamma)	µg/kg	490 <sup>A</sup>	-	-	-	-	-	-	-	3.25 U	3.24 U	-	3.39 U	-	3.41 U	-	3.37 U	-	3.45 U	-	-	-	-
Methoxychlor (4,4'-Methoxychlor)	µg/kg	390000 <sup>A</sup>	-	-	-	-	-	-	-	3.25 U	3.24 U	-	3.39 U	-	3.41 U	-	3.37 U	-	3.45 U	-	-	-	-

Notes

NYSDEC New York State Department of Environmental Conservation, Division of Hazardous Substances Regulation, November 30, 1992 (updated August 4, 1997)

A NYDEC - Contained-in Action Levels (For Soil and Sediments)

B NYDEC - Contained-in Action Levels (For Leachate)

**6.5<sup>A</sup>** Concentration exceeds the indicated standard.

15.2 Concentration was detected but did not exceed applicable standards.

**0.50 U** Laboratory estimated quantitation limit

0.03 U The analyte was not detected above the

n/v No standard/guideline value.

- Parameter not analyzed / not available

B Indicates analyte was found in association

C Analyte quantified by quadratic equation type calibration.

J Indicates estimated value.

N1 Total concentration of iron and manganese should not exceed 500 ug/L.

PARAROCH      Paradigm Laboratories, Rochester, N.Y.

**Table 2**  
**Summary of Soil Sample Analyses**  
**Former Carriage Factory**  
**Contained-In Demonstration**  
**33 Litchfield Street, Rochester, NY**

Sample ID	Sample Depth (ft bgs)	TID Reading (miniRA E 3000 with 10.2 eV lamp)	Sample Type	Sample description/Purpose	Analyses							
					TCLP VOCs	TCLP lead	Total Pesticides	VOC 375	SVOC 375	EE Metals 375	PCBs 375	Cyanide, Silvex, HexCr
LI-EXT-S1g1	0-3	23	grab	B202 0-3'	X			X				
LI-EXT-S1g2	4-8	0	grab	B202 4'-8'				X				
LI-EXT-S1g3	1-3	1	grab	B204 1'-3'	X			X				
LI-EXT-S1g4	6-8	0	grab	B204 6'-8'				X				
LI-EXT-S1g5	1-3	37	grab	B205 1'-3'	X			X				
LI-EXT-S1g6	6-8	138	grab	B205 6'-8'	X			X				
LI-EXT-S1g7	9-10	0	grab	B205 9'-10'				X				
LI-EXT-S1c1	0-4	23, 1, 37	comp	B202 (0-3'), B204 (1-3'), B205 (1-3')		X	X		X	X	X	X
LI-EXT-S1c2	4-8	0, 0, 138	comp	B202 (4-8'), B204 (6-8'), B205 (6-8')		X	X		X	X	X	X
LI-EXT-S2g	0-4	0	grab	B203 0-4'				X				
LI-EXT-S2c	0-4	0	comp	B201 (1-3'), B203 (0-4'), B209 (2-4')		X	X		X	X	X	X
LI-EXT-S3g	0-3	0	grab	B206 0-3'				X				
LI-EXT-S3c	0-4	0	comp	B206 (0-3'), B207 (0-2'), B208 (0-2'), B210 (0-4')		X	X		X	X	X	X
LI-EXT-S4g	6-8	0	grab	B203 6'-8'	X			X				
LI-EXT-S4c	4-8	0	comp	B201 (4-8'), B203 (6-8'), B210 (6-8')		X	X		X	X	X	X
LI-EXT-S5g	4-6	0	grab	B208 4'-6'				X				
LI-EXT-S5c	2-7	0	comp	B206 (4-7'), B207 (2-4'), B208 (4-6')		X	X		X	X	X	X