Stantec Consulting Services Inc.
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November 8, 2013
File: 190500751

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 #8
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 #8 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 September 2013.

1. Actions During The Previous Month

- *Remedial Investigation-related Activities*:
  - RI-related activities performed in October included additional data summary, data validation and drawing development.
- *Construction- and Remediation-related Activities*:
  - Began excavation of electrical conduit trenches in southern end of basement on October 2 (see location, Figure 1). Removed stained soil with photoionization detector (PID) readings generally >100 parts per million (ppm; primarily in Atrium area) and stockpiled it outside. Several conduits were installed and concrete duct was poured on October 18; trench was backfilled with crushed stone as needed and excavated soils on October 20.
  - Excavated shallow (approx. 2 ft bgs) trench in Clark Alley to install the new gas supply pipe on October 4. All PID readings were “ND”, and excavated soil was reused for backfill.

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33 Litchfield Street, Rochester, NY

- Conducted a site meeting with Todd Caffoe, NYSDEC project manager, on October 29 to review progress and findings to date.
- Disposed of 1,748 tons of urban fill soils at Mill Seat Landfill on October 21 and 22. This material was approved on September 19 by NYSDEC for disposal as non-hazardous waste, in accordance with the Contained-In Demonstration for the project.
- Excavated additional urban fill soils during the period October 21-24 in an area adjacent to the south-central and southeast side of the building (see area, Figure 2). The excavation extended down to native soils, i.e. urban fill was removed throughout the excavated area. Most soils showed little or no response with the PID; however, stained soils with readings of up to 400 ppm were observed in occasional isolated locations

  Excavated materials, estimated to be approximately 1,000± cubic yards (cy), were stockpiled on and covered with poly sheeting in the southwest portion of the site.
- Sampled the urban fill stockpile on October 24. Seven grab samples (LI-Y-S13g1-g7) were submitted for analysis for volatile organic compounds (VOCs), and two composite samples (LI-Y-c1 and LI-Y-c2) were submitted for total lead analysis. Based on the initial lead results, the samples were re-run for TCLP lead.
- Cored through east building foundation wall on October 24 to accommodate proposed storm and sanitary sewer connector pipes.
- Excavated trench and installed remainder of parking lot storm drain pipe between October 25-29. Excavated soil was used for backfill; excess soil was stockpiled separately from existing soil piles.
- In accordance with discussions with NYSDEC, excavated eight test pits on October 29 in an area south of building where stained soils were present at the surface (see locations, Figure 3). Two test pits (TP-1 and TP-5) showed evidence of VOC impact (PID readings up to 164 ppm); sidewall and bottom samples (LI-EXT-TP1w and 1b, and LI-EXT-TP5w and 5b) were submitted for analysis for VOCs +TICs on October 29.
- Cored holes through the south building foundation wall on October 29 at the proposed location for the third leg of the proposed groundwater remediation piping system. No piping for this leg has been installed yet.
- Began excavating interior trenches for proposed sewer lines on October 29. Work commenced in northeast quadrant of basement, near the existing entry ramp; bedrock was generally shallow and required removal in most locations. A former sump structure was encountered immediately north of the ramp (see Figure 1). Some impacted soil was encountered (PID readings general <20 ppm); black-stained soil and

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Monthly Progress Report #8
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33 Litchfield Street, Rochester, NY

a significant volume of cobbles and bedrock were removed and stockpiled outside. Other soils were used as backfill after pipes were installed.

2. Data Received or Generated in the Previous Month

- Laboratory results were received as follows (QA/QC samples are not included in this tally); copies of the lab reports are included in Attachment 1.
    - Stockpile Samples LI-Y-13g1-13g7, and LI-Y-13c1 and -13c2

3. Deliverables Completed and Submitted during the Previous Month

- Submitted Monthly Progress Report No. 7 to NYSDEC on October 10, 2013.

4. Actions Scheduled for the Next Reporting Period

The following activities are anticipated to occur in November:

- Continued preparation of the Draft Remedial Investigation Report.
- Ongoing monitoring of construction-related activities, which will potentially include the following (scheduling for some of these activities is uncertain):
    - Continued excavation for new utilities in the basement;
    - Additional exterior excavation related to utility installations;
    - Addition of Liquid Boot vapor intrusion barrier and sub-slab depressurization system in portions of the building.
    - Submittal of sampling data to NYSDEC for the current urban fill soil stockpile and stockpiled basement soils (pursuant to the project Contained-In Demonstration);
    - Disposal of this stockpiled soil upon receipt of NYSDEC approval; and
    - Interior groundwater remediation piping installation in the basement.

5. Completion, Delays and Future Schedule

Submittal of the draft RI report to NYSDEC is anticipated for November. Some construction delays are possible relative to installation of basement utilities due to occasional need for design adjustments to accommodate encountered conditions.

Reference: **Brownfield Cleanup Program**
Monthly Progress Report #8
Site #C828184
Former Carriage Factory
33 Litchfield Street, Rochester, NY

Closing

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

Regards,

STANTEC CONSULTING SERVICES INC.

Michael P. Storonsky
Managing Principal
Phone: (585) 413-5366
mike.storonsky@stantec.com

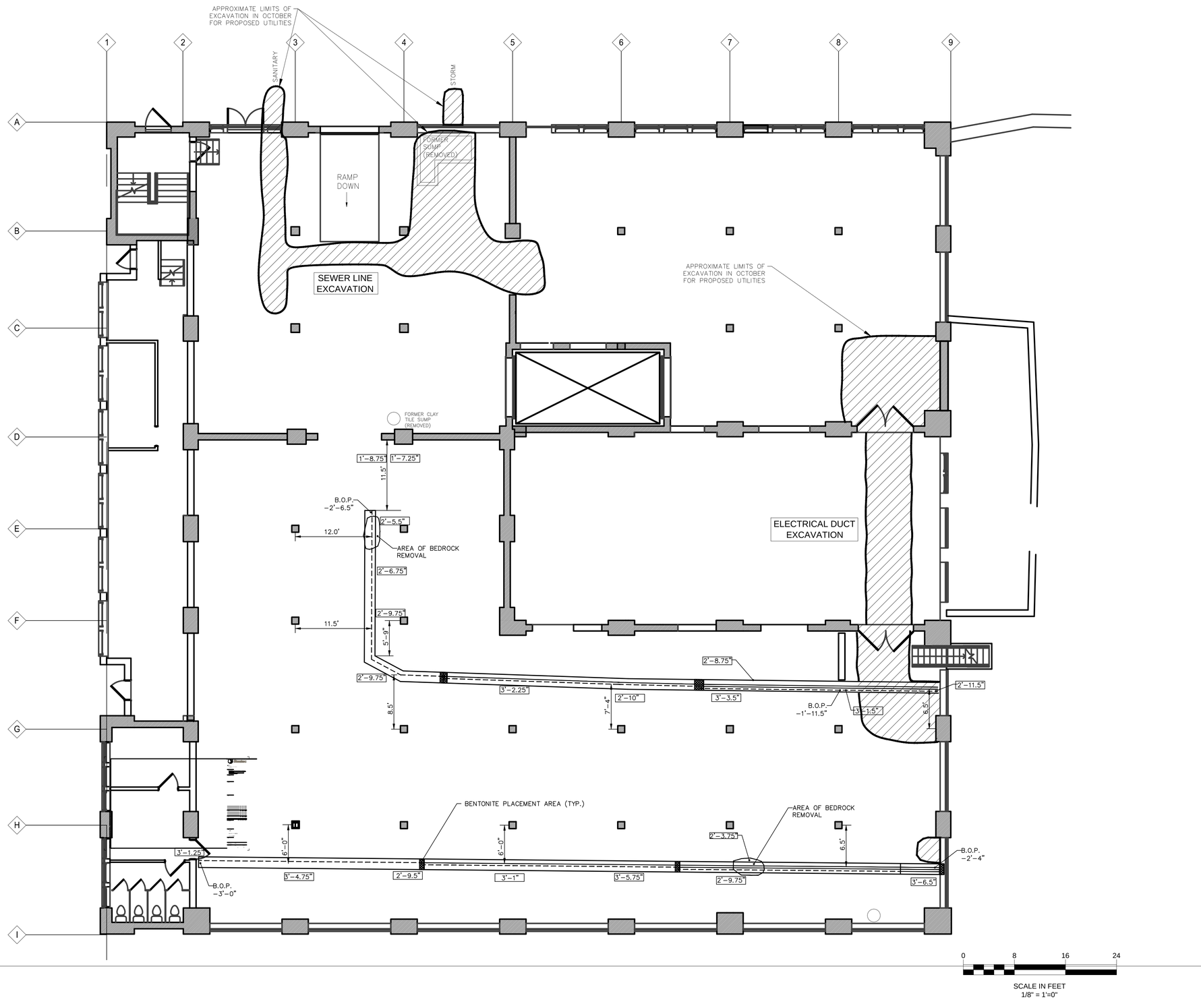
Attachments:

Figure 1 – Utility Excavation Locations
Figure 2 – Exterior Excavation and Stockpile Locations
Figure 3 – Test Pit Locations
Attachment 1 – Laboratory Analytical Reports

ec:

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

FIGURES



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Legend

3'−1.25" = BEDROCK INVERT ELEVATION BEFORE NECESSARY REMOVAL

BENTONITE PLACEMENT

SOLID 2" PVC PIPE

SLOTTED (.010") 2" PVC PIPE

B.O.P. BOTTOM OF PIPE

Notes

1. EXCAVATION LIMITS APPROXIMATE ONLY.

2. AREAS EXCAVATED PRIMARILY FOR STORM AND SANITARY PIPES AND CONNECTIONS TO SEWER.

Revision	By	Appd.	YY.MM.DD
Progress Report November 2013	RM	MPS	13.10
Issued	By	Appd.	YY.MM.DD

File Name: Dwn. Chkd. Dsgn. YY.MM.DD

Permit-Seal

Client/Project

CARRIAGE FACTORY

BROWNFIELD CLEANUP PROGRAM
FORMER CARRIAGE FACTORY
33 LITCHFIELD STREET, ROCHESTER , NY

Title

UTILITY EXCAVATION LOCATIONS
OCTOBER 2013

Project No.	Scale	
190500751	AS SHOWN	
Drawing No.	Sheet	Revision
FIGURE 1	of	0

U:\190500751\drawing\CAD\Basement Excavation\Progress Report October 2013\Figure 2 – Remediation System Layout Plan Progress As Of 10−09−2013.dwg
2013/11/08 9:41 AM By: Less, Andy

ORIGINAL SHEET – ANSI D

This map may contain data from a variety of sources. This map is not intended to replace a survey by a Licensed Surveyor.
Stantec does not certify the accuracy of the data. This map is for reference only and should not be used for construction.

Geographic Information Systems Cartographic Design By: Andy Less

Document Path: U:\190500751\drawing\CAD\Basement Excavation\CID\Figure Stockpile and Sample Identification - Revised 11-5-2013.mxd

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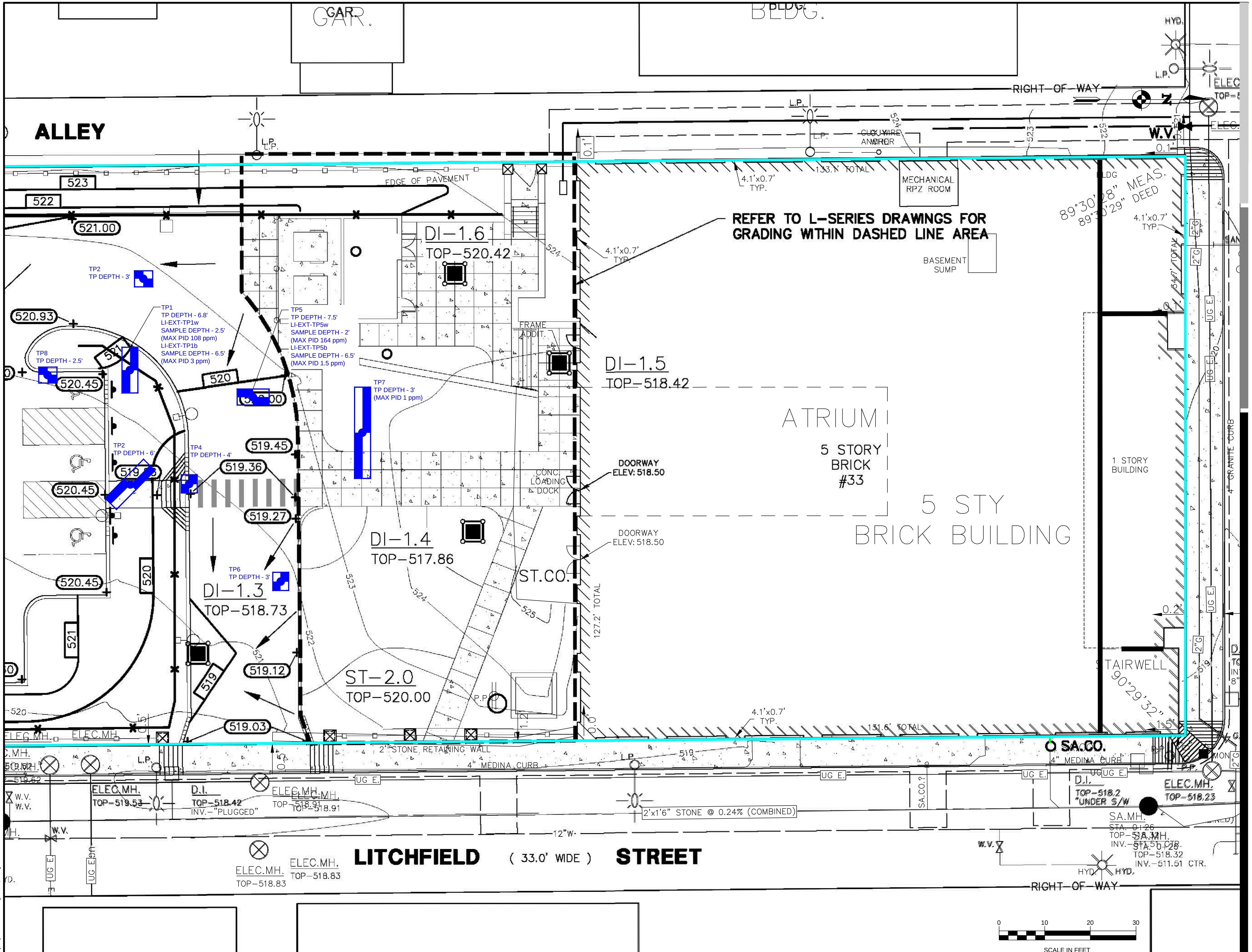
Figure 2
Carriage Factory - 11-05-2013
CID Excavation Area and Stockpile Location



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Legend

Symbol	Description
(blue dotted outline)	33 LITCHFIELD STREET BUILDING LIMITS
(cyan line)	PROPERTY LINE
TP1 TP DEPTH - 6.8' LI-EXT-TP1w SAMPLE DEPTH - 2.5' (MAX PID 108 ppm) LI-EXT-TP1b SAMPLE DEPTH - 6.5' (MAX PID 3 ppm)	TEST PITS 10-2013

Notes

1. PLAN ADAPTED FROM BASE PLAN BY PARRONE ENGINEERING.

Revision	By	Appd.	YY.MM.DD
Test Pits - 10-2013	BH		2013-11
Issued	By	Appd.	YY.MM.DD

File Name:	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Client/Project

BROWNFIELD CLEANUP PROGRAM
FORMER CARRIAGE FACTORY
33 LITCHFIELD STREET, ROCHESTER , NY

Title

TEST PIT LOCATIONS 10-2013

Project No.	Scale	
190500751	AS SHOWN	
Drawing No.	Sheet	Revision
FIGURE 3	of	0

U:\190500751\drawing\CAD\Figure - Test Pits 10-2013.dwg
2013/11/07 2:23 PM By: Lees, Andy
ORIGINAL SHEET - ANSI D

Attachment 1

Laboratory Analytical Reports

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For

Stantec

For Lab Project ID

134087

Referencing

Carriage Factory

Prepared

Wednesday, October 30, 2013

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

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

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 134087

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-Y-S13g1
Lab Sample ID: 134087-01
Matrix: Soil

Date/Time Sampled: 10/24/2013 14:30
Date Received: 10/24/2013

Volatile Organics

Analyte	Result	Units	Qualifier	Date/Time Analyzed
1,1,1-Trichloroethane	< 8.06	ug/Kg		10/28/2013 17:44
1,1,2,2-Tetrachloroethane	< 8.06	ug/Kg		10/28/2013 17:44
1,1,2-Trichloroethane	< 8.06	ug/Kg		10/28/2013 17:44
1,1-Dichloroethane	< 8.06	ug/Kg		10/28/2013 17:44
1,1-Dichloroethene	< 8.06	ug/Kg		10/28/2013 17:44
1,2,3-Trichlorobenzene	< 20.2	ug/Kg		10/28/2013 17:44
1,2,4-Trichlorobenzene	< 20.2	ug/Kg		10/28/2013 17:44
1,2-Dibromo-3-Chloropropane	< 40.3	ug/Kg		10/28/2013 17:44
1,2-Dibromoethane	< 8.06	ug/Kg		10/28/2013 17:44
1,2-Dichlorobenzene	< 8.06	ug/Kg		10/28/2013 17:44
1,2-Dichloroethane	< 8.06	ug/Kg		10/28/2013 17:44
1,2-Dichloropropane	< 8.06	ug/Kg		10/28/2013 17:44
1,3-Dichlorobenzene	< 8.06	ug/Kg		10/28/2013 17:44
1,4-Dichlorobenzene	< 8.06	ug/Kg		10/28/2013 17:44
1,4-dioxane	< 80.6	ug/Kg		10/28/2013 17:44
2-Butanone	< 40.3	ug/Kg		10/28/2013 17:44
2-Hexanone	< 20.2	ug/Kg		10/28/2013 17:44
4-Methyl-2-pentanone	< 20.2	ug/Kg		10/28/2013 17:44
Acetone	< 40.3	ug/Kg		10/28/2013 17:44
Benzene	< 8.06	ug/Kg		10/28/2013 17:44
Bromochloromethane	< 20.2	ug/Kg		10/28/2013 17:44
Bromodichloromethane	< 8.06	ug/Kg		10/28/2013 17:44
Bromoform	< 20.2	ug/Kg		10/28/2013 17:44
Bromomethane	< 8.06	ug/Kg		10/28/2013 17:44
Carbon disulfide	< 8.06	ug/Kg		10/28/2013 17:44
Carbon Tetrachloride	< 8.06	ug/Kg		10/28/2013 17:44
Chlorobenzene	< 8.06	ug/Kg		10/28/2013 17:44
Chloroethane	< 8.06	ug/Kg		10/28/2013 17:44

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 134087

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-Y-S13g1
Lab Sample ID: 134087-01
Matrix: Soil

Date/Time Sampled: 10/24/2013 14:30
Date Received: 10/24/2013

Chloroform	< 8.06	ug/Kg	10/28/2013 17:44
Chloromethane	< 8.06	ug/Kg	10/28/2013 17:44
cis-1,2-Dichloroethene	< 8.06	ug/Kg	10/28/2013 17:44
cis-1,3-Dichloropropene	< 8.06	ug/Kg	10/28/2013 17:44
Cyclohexane	< 40.3	ug/Kg	10/28/2013 17:44
Dibromochloromethane	< 8.06	ug/Kg	10/28/2013 17:44
Dichlorodifluoromethane	< 8.06	ug/Kg	10/28/2013 17:44
Ethylbenzene	< 8.06	ug/Kg	10/28/2013 17:44
Freon 113	< 8.06	ug/Kg	10/28/2013 17:44
Isopropylbenzene	< 8.06	ug/Kg	10/28/2013 17:44
m,p-Xylene	< 8.06	ug/Kg	10/28/2013 17:44
Methyl acetate	< 8.06	ug/Kg	10/28/2013 17:44
Methyl tert-butyl Ether	< 8.06	ug/Kg	10/28/2013 17:44
Methylcyclohexane	< 8.06	ug/Kg	10/28/2013 17:44
Methylene chloride	< 20.2	ug/Kg	10/28/2013 17:44
o-Xylene	< 8.06	ug/Kg	10/28/2013 17:44
Styrene	< 20.2	ug/Kg	10/28/2013 17:44
Tetrachloroethene	**140**	ug/Kg	10/28/2013 17:44
Toluene	< 8.06	ug/Kg	10/28/2013 17:44
trans-1,2-Dichloroethene	< 8.06	ug/Kg	10/28/2013 17:44
trans-1,3-Dichloropropene	< 8.06	ug/Kg	10/28/2013 17:44
Trichloroethene	**85.5**	ug/Kg	10/28/2013 17:44
Trichlorofluoromethane	< 8.06	ug/Kg	10/28/2013 17:44
Vinyl chloride	< 8.06	ug/Kg	10/28/2013 17:44

Surrogate outliers indicate probable matrix interference

Method Reference(s): EPA 8260C
EPA 5035A

Data File: x09262.D

Any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 134087

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-Y-S13g2
Lab Sample ID: 134087-02
Matrix: Soil

Date/Time Sampled: 10/24/2013 14:35
Date Received: 10/24/2013

Volatile Organics

Analyte	Result	Units	Qualifier	Date/Time Analyzed
1,1,1-Trichloroethane	< 9.76	ug/Kg		10/28/2013 18:07
1,1,2,2-Tetrachloroethane	< 9.76	ug/Kg		10/28/2013 18:07
1,1,2-Trichloroethane	< 9.76	ug/Kg		10/28/2013 18:07
1,1-Dichloroethane	< 9.76	ug/Kg		10/28/2013 18:07
1,1-Dichloroethene	< 9.76	ug/Kg		10/28/2013 18:07
1,2,3-Trichlorobenzene	< 24.4	ug/Kg		10/28/2013 18:07
1,2,4-Trichlorobenzene	< 24.4	ug/Kg		10/28/2013 18:07
1,2-Dibromo-3-Chloropropane	< 48.8	ug/Kg		10/28/2013 18:07
1,2-Dibromoethane	< 9.76	ug/Kg		10/28/2013 18:07
1,2-Dichlorobenzene	< 9.76	ug/Kg		10/28/2013 18:07
1,2-Dichloroethane	< 9.76	ug/Kg		10/28/2013 18:07
1,2-Dichloropropane	< 9.76	ug/Kg		10/28/2013 18:07
1,3-Dichlorobenzene	< 9.76	ug/Kg		10/28/2013 18:07
1,4-Dichlorobenzene	< 9.76	ug/Kg		10/28/2013 18:07
1,4-dioxane	< 97.6	ug/Kg		10/28/2013 18:07
2-Butanone	< 48.8	ug/Kg		10/28/2013 18:07
2-Hexanone	< 24.4	ug/Kg		10/28/2013 18:07
4-Methyl-2-pentanone	< 24.4	ug/Kg		10/28/2013 18:07
Acetone	< 48.8	ug/Kg		10/28/2013 18:07
Benzene	< 9.76	ug/Kg		10/28/2013 18:07
Bromochloromethane	< 24.4	ug/Kg		10/28/2013 18:07
Bromodichloromethane	< 9.76	ug/Kg		10/28/2013 18:07
Bromoform	< 24.4	ug/Kg		10/28/2013 18:07
Bromomethane	< 9.76	ug/Kg		10/28/2013 18:07
Carbon disulfide	< 9.76	ug/Kg		10/28/2013 18:07
Carbon Tetrachloride	< 9.76	ug/Kg		10/28/2013 18:07
Chlorobenzene	< 9.76	ug/Kg		10/28/2013 18:07
Chloroethane	< 9.76	ug/Kg		10/28/2013 18:07

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 134087

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-Y-S13g2
Lab Sample ID: 134087-02
Matrix: Soil

Date/Time Sampled: 10/24/2013 14:35
Date Received: 10/24/2013

Chloroform	< 9.76	ug/Kg	10/28/2013 18:07
Chloromethane	< 9.76	ug/Kg	10/28/2013 18:07
cis-1,2-Dichloroethene	**10.0**	ug/Kg	10/28/2013 18:07
cis-1,3-Dichloropropene	< 9.76	ug/Kg	10/28/2013 18:07
Cyclohexane	< 48.8	ug/Kg	10/28/2013 18:07
Dibromochloromethane	< 9.76	ug/Kg	10/28/2013 18:07
Dichlorodifluoromethane	< 9.76	ug/Kg	10/28/2013 18:07
Ethylbenzene	< 9.76	ug/Kg	10/28/2013 18:07
Freon 113	< 9.76	ug/Kg	10/28/2013 18:07
Isopropylbenzene	< 9.76	ug/Kg	10/28/2013 18:07
m,p-Xylene	< 9.76	ug/Kg	10/28/2013 18:07
Methyl acetate	< 9.76	ug/Kg	10/28/2013 18:07
Methyl tert-butyl Ether	< 9.76	ug/Kg	10/28/2013 18:07
Methylcyclohexane	< 9.76	ug/Kg	10/28/2013 18:07
Methylene chloride	< 24.4	ug/Kg	10/28/2013 18:07
o-Xylene	< 9.76	ug/Kg	10/28/2013 18:07
Styrene	< 24.4	ug/Kg	10/28/2013 18:07
Tetrachloroethene	**79.4**	ug/Kg	10/28/2013 18:07
Toluene	< 9.76	ug/Kg	10/28/2013 18:07
trans-1,2-Dichloroethene	< 9.76	ug/Kg	10/28/2013 18:07
trans-1,3-Dichloropropene	< 9.76	ug/Kg	10/28/2013 18:07
Trichloroethene	**37.1**	ug/Kg	10/28/2013 18:07
Trichlorofluoromethane	< 9.76	ug/Kg	10/28/2013 18:07
Vinyl chloride	< 9.76	ug/Kg	10/28/2013 18:07

Surrogate outliers indicate probable matrix interference

Method Reference(s): EPA 8260C
EPA 5035A

Data File: x09263.D

Any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 134087

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-Y-S13g3
Lab Sample ID: 134087-03
Matrix: Soil

Date/Time Sampled: 10/24/2013 14:40
Date Received: 10/24/2013

Volatile Organics

Analyte	Result	Units	Qualifier	Date/Time Analyzed
1,1,1-Trichloroethane	< 7.56	ug/Kg		10/28/2013 18:31
1,1,2,2-Tetrachloroethane	< 7.56	ug/Kg		10/28/2013 18:31
1,1,2-Trichloroethane	< 7.56	ug/Kg		10/28/2013 18:31
1,1-Dichloroethane	< 7.56	ug/Kg		10/28/2013 18:31
1,1-Dichloroethene	< 7.56	ug/Kg		10/28/2013 18:31
1,2,3-Trichlorobenzene	< 18.9	ug/Kg		10/28/2013 18:31
1,2,4-Trichlorobenzene	< 18.9	ug/Kg		10/28/2013 18:31
1,2-Dibromo-3-Chloropropane	< 37.8	ug/Kg		10/28/2013 18:31
1,2-Dibromoethane	< 7.56	ug/Kg		10/28/2013 18:31
1,2-Dichlorobenzene	< 7.56	ug/Kg		10/28/2013 18:31
1,2-Dichloroethane	< 7.56	ug/Kg		10/28/2013 18:31
1,2-Dichloropropane	< 7.56	ug/Kg		10/28/2013 18:31
1,3-Dichlorobenzene	< 7.56	ug/Kg		10/28/2013 18:31
1,4-Dichlorobenzene	< 7.56	ug/Kg		10/28/2013 18:31
1,4-dioxane	< 75.6	ug/Kg		10/28/2013 18:31
2-Butanone	< 37.8	ug/Kg		10/28/2013 18:31
2-Hexanone	< 18.9	ug/Kg		10/28/2013 18:31
4-Methyl-2-pentanone	< 18.9	ug/Kg		10/28/2013 18:31
Acetone	< 37.8	ug/Kg		10/28/2013 18:31
Benzene	< 7.56	ug/Kg		10/28/2013 18:31
Bromochloromethane	< 18.9	ug/Kg		10/28/2013 18:31
Bromodichloromethane	< 7.56	ug/Kg		10/28/2013 18:31
Bromoform	< 18.9	ug/Kg		10/28/2013 18:31
Bromomethane	< 7.56	ug/Kg		10/28/2013 18:31
Carbon disulfide	< 7.56	ug/Kg		10/28/2013 18:31
Carbon Tetrachloride	< 7.56	ug/Kg		10/28/2013 18:31
Chlorobenzene	< 7.56	ug/Kg		10/28/2013 18:31
Chloroethane	< 7.56	ug/Kg		10/28/2013 18:31

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

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 134087

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-Y-S13g3
Lab Sample ID: 134087-03
Matrix: Soil

Date/Time Sampled: 10/24/2013 14:40
Date Received: 10/24/2013

Chloroform	< 7.56	ug/Kg	10/28/2013 18:31
Chloromethane	< 7.56	ug/Kg	10/28/2013 18:31
cis-1,2-Dichloroethene	< 7.56	ug/Kg	10/28/2013 18:31
cis-1,3-Dichloropropene	< 7.56	ug/Kg	10/28/2013 18:31
Cyclohexane	< 37.8	ug/Kg	10/28/2013 18:31
Dibromochloromethane	< 7.56	ug/Kg	10/28/2013 18:31
Dichlorodifluoromethane	< 7.56	ug/Kg	10/28/2013 18:31
Ethylbenzene	< 7.56	ug/Kg	10/28/2013 18:31
Freon 113	< 7.56	ug/Kg	10/28/2013 18:31
Isopropylbenzene	< 7.56	ug/Kg	10/28/2013 18:31
m,p-Xylene	< 7.56	ug/Kg	10/28/2013 18:31
Methyl acetate	< 7.56	ug/Kg	10/28/2013 18:31
Methyl tert-butyl Ether	< 7.56	ug/Kg	10/28/2013 18:31
Methylcyclohexane	< 7.56	ug/Kg	10/28/2013 18:31
Methylene chloride	< 18.9	ug/Kg	10/28/2013 18:31
o-Xylene	< 7.56	ug/Kg	10/28/2013 18:31
Styrene	< 18.9	ug/Kg	10/28/2013 18:31
Tetrachloroethene	< 7.56	ug/Kg	10/28/2013 18:31
Toluene	< 7.56	ug/Kg	10/28/2013 18:31
trans-1,2-Dichloroethene	< 7.56	ug/Kg	10/28/2013 18:31
trans-1,3-Dichloropropene	< 7.56	ug/Kg	10/28/2013 18:31
Trichloroethene	< 7.56	ug/Kg	10/28/2013 18:31
Trichlorofluoromethane	< 7.56	ug/Kg	10/28/2013 18:31
Vinyl chloride	< 7.56	ug/Kg	10/28/2013 18:31

Surrogate outliers indicate probable matrix interference

Method Reference(s): EPA 8260C
EPA 5035A

Data File: x09264.D

Any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

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

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 134087

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-Y-S13g4
Lab Sample ID: 134087-04
Matrix: Soil

Date/Time Sampled: 10/24/2013 14:45
Date Received: 10/24/2013

Volatile Organics

Analyte	Result	Units	Qualifier	Date/Time Analyzed
1,1,1-Trichloroethane	< 6.15	ug/Kg		10/28/2013 18:55
1,1,2,2-Tetrachloroethane	< 6.15	ug/Kg		10/28/2013 18:55
1,1,2-Trichloroethane	< 6.15	ug/Kg		10/28/2013 18:55
1,1-Dichloroethane	< 6.15	ug/Kg		10/28/2013 18:55
1,1-Dichloroethene	< 6.15	ug/Kg		10/28/2013 18:55
1,2,3-Trichlorobenzene	< 15.4	ug/Kg		10/28/2013 18:55
1,2,4-Trichlorobenzene	< 15.4	ug/Kg		10/28/2013 18:55
1,2-Dibromo-3-Chloropropane	< 30.7	ug/Kg		10/28/2013 18:55
1,2-Dibromoethane	< 6.15	ug/Kg		10/28/2013 18:55
1,2-Dichlorobenzene	< 6.15	ug/Kg		10/28/2013 18:55
1,2-Dichloroethane	< 6.15	ug/Kg		10/28/2013 18:55
1,2-Dichloropropane	< 6.15	ug/Kg		10/28/2013 18:55
1,3-Dichlorobenzene	< 6.15	ug/Kg		10/28/2013 18:55
1,4-Dichlorobenzene	< 6.15	ug/Kg		10/28/2013 18:55
1,4-dioxane	< 61.5	ug/Kg		10/28/2013 18:55
2-Butanone	< 30.7	ug/Kg		10/28/2013 18:55
2-Hexanone	< 15.4	ug/Kg		10/28/2013 18:55
4-Methyl-2-pentanone	< 15.4	ug/Kg		10/28/2013 18:55
Acetone	< 30.7	ug/Kg		10/28/2013 18:55
Benzene	< 6.15	ug/Kg		10/28/2013 18:55
Bromochloromethane	< 15.4	ug/Kg		10/28/2013 18:55
Bromodichloromethane	< 6.15	ug/Kg		10/28/2013 18:55
Bromoform	< 15.4	ug/Kg		10/28/2013 18:55
Bromomethane	< 6.15	ug/Kg		10/28/2013 18:55
Carbon disulfide	< 6.15	ug/Kg		10/28/2013 18:55
Carbon Tetrachloride	< 6.15	ug/Kg		10/28/2013 18:55
Chlorobenzene	< 6.15	ug/Kg		10/28/2013 18:55
Chloroethane	< 6.15	ug/Kg		10/28/2013 18:55

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

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 134087

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-Y-S13g4
Lab Sample ID: 134087-04
Matrix: Soil

Date/Time Sampled: 10/24/2013 14:45
Date Received: 10/24/2013

Chloroform	< 6.15	ug/Kg	10/28/2013 18:55
Chloromethane	< 6.15	ug/Kg	10/28/2013 18:55
cis-1,2-Dichloroethene	< 6.15	ug/Kg	10/28/2013 18:55
cis-1,3-Dichloropropene	< 6.15	ug/Kg	10/28/2013 18:55
Cyclohexane	< 30.7	ug/Kg	10/28/2013 18:55
Dibromochloromethane	< 6.15	ug/Kg	10/28/2013 18:55
Dichlorodifluoromethane	< 6.15	ug/Kg	10/28/2013 18:55
Ethylbenzene	< 6.15	ug/Kg	10/28/2013 18:55
Freon 113	< 6.15	ug/Kg	10/28/2013 18:55
Isopropylbenzene	< 6.15	ug/Kg	10/28/2013 18:55
m,p-Xylene	< 6.15	ug/Kg	10/28/2013 18:55
Methyl acetate	< 6.15	ug/Kg	10/28/2013 18:55
Methyl tert-butyl Ether	< 6.15	ug/Kg	10/28/2013 18:55
Methylcyclohexane	< 6.15	ug/Kg	10/28/2013 18:55
Methylene chloride	< 15.4	ug/Kg	10/28/2013 18:55
o-Xylene	< 6.15	ug/Kg	10/28/2013 18:55
Styrene	< 15.4	ug/Kg	10/28/2013 18:55
Tetrachloroethene	**34.7**	ug/Kg	10/28/2013 18:55
Toluene	< 6.15	ug/Kg	10/28/2013 18:55
trans-1,2-Dichloroethene	< 6.15	ug/Kg	10/28/2013 18:55
trans-1,3-Dichloropropene	< 6.15	ug/Kg	10/28/2013 18:55
Trichloroethene	**28.0**	ug/Kg	10/28/2013 18:55
Trichlorofluoromethane	< 6.15	ug/Kg	10/28/2013 18:55
Vinyl chloride	< 6.15	ug/Kg	10/28/2013 18:55

Surrogate outliers indicate probable matrix interference

Method Reference(s): EPA 8260C
EPA 5035A

Data File: x09265.D

Any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

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

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 134087

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-Y-S13g5
Lab Sample ID: 134087-05
Matrix: Soil

Date/Time Sampled: 10/24/2013 14:50
Date Received: 10/24/2013

Volatile Organics

Analyte	Result	Units	Qualifier	Date/Time Analyzed
1,1,1-Trichloroethane	< 6.39	ug/Kg		10/28/2013 19:19
1,1,2,2-Tetrachloroethane	< 6.39	ug/Kg		10/28/2013 19:19
1,1,2-Trichloroethane	< 6.39	ug/Kg		10/28/2013 19:19
1,1-Dichloroethane	< 6.39	ug/Kg		10/28/2013 19:19
1,1-Dichloroethene	< 6.39	ug/Kg		10/28/2013 19:19
1,2,3-Trichlorobenzene	< 16.0	ug/Kg		10/28/2013 19:19
1,2,4-Trichlorobenzene	< 16.0	ug/Kg		10/28/2013 19:19
1,2-Dibromo-3-Chloropropane	< 32.0	ug/Kg		10/28/2013 19:19
1,2-Dibromoethane	< 6.39	ug/Kg		10/28/2013 19:19
1,2-Dichlorobenzene	< 6.39	ug/Kg		10/28/2013 19:19
1,2-Dichloroethane	< 6.39	ug/Kg		10/28/2013 19:19
1,2-Dichloropropane	< 6.39	ug/Kg		10/28/2013 19:19
1,3-Dichlorobenzene	< 6.39	ug/Kg		10/28/2013 19:19
1,4-Dichlorobenzene	< 6.39	ug/Kg		10/28/2013 19:19
1,4-dioxane	< 63.9	ug/Kg		10/28/2013 19:19
2-Butanone	< 32.0	ug/Kg		10/28/2013 19:19
2-Hexanone	< 16.0	ug/Kg		10/28/2013 19:19
4-Methyl-2-pentanone	< 16.0	ug/Kg		10/28/2013 19:19
Acetone	< 32.0	ug/Kg		10/28/2013 19:19
Benzene	< 6.39	ug/Kg		10/28/2013 19:19
Bromochloromethane	< 16.0	ug/Kg		10/28/2013 19:19
Bromodichloromethane	< 6.39	ug/Kg		10/28/2013 19:19
Bromoform	< 16.0	ug/Kg		10/28/2013 19:19
Bromomethane	< 6.39	ug/Kg		10/28/2013 19:19
Carbon disulfide	< 6.39	ug/Kg		10/28/2013 19:19
Carbon Tetrachloride	< 6.39	ug/Kg		10/28/2013 19:19
Chlorobenzene	< 6.39	ug/Kg		10/28/2013 19:19
Chloroethane	< 6.39	ug/Kg		10/28/2013 19:19

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 134087

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-Y-S13g5
Lab Sample ID: 134087-05
Matrix: Soil

Date/Time Sampled: 10/24/2013 14:50
Date Received: 10/24/2013

Chloroform	< 6.39	ug/Kg	10/28/2013 19:19
Chloromethane	< 6.39	ug/Kg	10/28/2013 19:19
cis-1,2-Dichloroethene	< 6.39	ug/Kg	10/28/2013 19:19
cis-1,3-Dichloropropene	< 6.39	ug/Kg	10/28/2013 19:19
Cyclohexane	< 32.0	ug/Kg	10/28/2013 19:19
Dibromochloromethane	< 6.39	ug/Kg	10/28/2013 19:19
Dichlorodifluoromethane	< 6.39	ug/Kg	10/28/2013 19:19
Ethylbenzene	< 6.39	ug/Kg	10/28/2013 19:19
Freon 113	< 6.39	ug/Kg	10/28/2013 19:19
Isopropylbenzene	< 6.39	ug/Kg	10/28/2013 19:19
m,p-Xylene	< 6.39	ug/Kg	10/28/2013 19:19
Methyl acetate	< 6.39	ug/Kg	10/28/2013 19:19
Methyl tert-butyl Ether	< 6.39	ug/Kg	10/28/2013 19:19
Methylcyclohexane	< 6.39	ug/Kg	10/28/2013 19:19
Methylene chloride	< 16.0	ug/Kg	10/28/2013 19:19
o-Xylene	< 6.39	ug/Kg	10/28/2013 19:19
Styrene	< 16.0	ug/Kg	10/28/2013 19:19
Tetrachloroethene	**53.2**	ug/Kg	10/28/2013 19:19
Toluene	< 6.39	ug/Kg	10/28/2013 19:19
trans-1,2-Dichloroethene	< 6.39	ug/Kg	10/28/2013 19:19
trans-1,3-Dichloropropene	< 6.39	ug/Kg	10/28/2013 19:19
Trichloroethene	**31.5**	ug/Kg	10/28/2013 19:19
Trichlorofluoromethane	< 6.39	ug/Kg	10/28/2013 19:19
Vinyl chloride	< 6.39	ug/Kg	10/28/2013 19:19

Surrogate outliers indicate probable matrix interference

Method Reference(s): EPA 8260C
EPA 5035A

Data File: x09266.D

Any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 134087

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-Y-S13g6
Lab Sample ID: 134087-06
Matrix: Soil

Date/Time Sampled: 10/24/2013 14:55
Date Received: 10/24/2013

Volatile Organics

Analyte	Result	Units	Qualifier	Date/Time Analyzed
1,1,1-Trichloroethane	< 8.24	ug/Kg		10/28/2013 19:43
1,1,2,2-Tetrachloroethane	< 8.24	ug/Kg		10/28/2013 19:43
1,1,2-Trichloroethane	< 8.24	ug/Kg		10/28/2013 19:43
1,1-Dichloroethane	< 8.24	ug/Kg		10/28/2013 19:43
1,1-Dichloroethene	< 8.24	ug/Kg		10/28/2013 19:43
1,2,3-Trichlorobenzene	< 20.6	ug/Kg		10/28/2013 19:43
1,2,4-Trichlorobenzene	< 20.6	ug/Kg		10/28/2013 19:43
1,2-Dibromo-3-Chloropropane	< 41.2	ug/Kg		10/28/2013 19:43
1,2-Dibromoethane	< 8.24	ug/Kg		10/28/2013 19:43
1,2-Dichlorobenzene	< 8.24	ug/Kg		10/28/2013 19:43
1,2-Dichloroethane	< 8.24	ug/Kg		10/28/2013 19:43
1,2-Dichloropropane	< 8.24	ug/Kg		10/28/2013 19:43
1,3-Dichlorobenzene	< 8.24	ug/Kg		10/28/2013 19:43
1,4-Dichlorobenzene	< 8.24	ug/Kg		10/28/2013 19:43
1,4-dioxane	< 82.4	ug/Kg		10/28/2013 19:43
2-Butanone	< 41.2	ug/Kg		10/28/2013 19:43
2-Hexanone	< 20.6	ug/Kg		10/28/2013 19:43
4-Methyl-2-pentanone	< 20.6	ug/Kg		10/28/2013 19:43
Acetone	< 41.2	ug/Kg		10/28/2013 19:43
Benzene	< 8.24	ug/Kg		10/28/2013 19:43
Bromochloromethane	< 20.6	ug/Kg		10/28/2013 19:43
Bromodichloromethane	< 8.24	ug/Kg		10/28/2013 19:43
Bromoform	< 20.6	ug/Kg		10/28/2013 19:43
Bromomethane	< 8.24	ug/Kg		10/28/2013 19:43
Carbon disulfide	< 8.24	ug/Kg		10/28/2013 19:43
Carbon Tetrachloride	< 8.24	ug/Kg		10/28/2013 19:43
Chlorobenzene	< 8.24	ug/Kg		10/28/2013 19:43
Chloroethane	< 8.24	ug/Kg		10/28/2013 19:43

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

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 134087

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-Y-S13g6
Lab Sample ID: 134087-06
Matrix: Soil

Date/Time Sampled: 10/24/2013 14:55
Date Received: 10/24/2013

Chloroform	< 8.24	ug/Kg	10/28/2013 19:43
Chloromethane	< 8.24	ug/Kg	10/28/2013 19:43
cis-1,2-Dichloroethene	**15.3**	ug/Kg	10/28/2013 19:43
cis-1,3-Dichloropropene	< 8.24	ug/Kg	10/28/2013 19:43
Cyclohexane	< 41.2	ug/Kg	10/28/2013 19:43
Dibromochloromethane	< 8.24	ug/Kg	10/28/2013 19:43
Dichlorodifluoromethane	< 8.24	ug/Kg	10/28/2013 19:43
Ethylbenzene	< 8.24	ug/Kg	10/28/2013 19:43
Freon 113	< 8.24	ug/Kg	10/28/2013 19:43
Isopropylbenzene	< 8.24	ug/Kg	10/28/2013 19:43
m,p-Xylene	< 8.24	ug/Kg	10/28/2013 19:43
Methyl acetate	< 8.24	ug/Kg	10/28/2013 19:43
Methyl tert-butyl Ether	< 8.24	ug/Kg	10/28/2013 19:43
Methylcyclohexane	< 8.24	ug/Kg	10/28/2013 19:43
Methylene chloride	< 20.6	ug/Kg	10/28/2013 19:43
o-Xylene	< 8.24	ug/Kg	10/28/2013 19:43
Styrene	< 20.6	ug/Kg	10/28/2013 19:43
Tetrachloroethene	**191**	ug/Kg	10/28/2013 19:43
Toluene	< 8.24	ug/Kg	10/28/2013 19:43
trans-1,2-Dichloroethene	< 8.24	ug/Kg	10/28/2013 19:43
trans-1,3-Dichloropropene	< 8.24	ug/Kg	10/28/2013 19:43
Trichloroethene	**139**	ug/Kg	10/28/2013 19:43
Trichlorofluoromethane	< 8.24	ug/Kg	10/28/2013 19:43
Vinyl chloride	< 8.24	ug/Kg	10/28/2013 19:43

Surrogate outliers indicate probable matrix interference

Method Reference(s): EPA 8260C
EPA 5035A

Data File: x09267.D

Any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

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

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 134087

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-Y-S13g7
Lab Sample ID: 134087-07
Matrix: Soil

Date/Time Sampled: 10/24/2013 15:00
Date Received: 10/24/2013

Volatile Organics

Analyte	Result	Units	Qualifier	Date/Time Analyzed
1,1,1-Trichloroethane	< 7.20	ug/Kg		10/28/2013 20:08
1,1,2,2-Tetrachloroethane	< 7.20	ug/Kg		10/28/2013 20:08
1,1,2-Trichloroethane	< 7.20	ug/Kg		10/28/2013 20:08
1,1-Dichloroethane	< 7.20	ug/Kg		10/28/2013 20:08
1,1-Dichloroethene	< 7.20	ug/Kg		10/28/2013 20:08
1,2,3-Trichlorobenzene	< 18.0	ug/Kg		10/28/2013 20:08
1,2,4-Trichlorobenzene	< 18.0	ug/Kg		10/28/2013 20:08
1,2-Dibromo-3-Chloropropane	< 36.0	ug/Kg		10/28/2013 20:08
1,2-Dibromoethane	< 7.20	ug/Kg		10/28/2013 20:08
1,2-Dichlorobenzene	< 7.20	ug/Kg		10/28/2013 20:08
1,2-Dichloroethane	< 7.20	ug/Kg		10/28/2013 20:08
1,2-Dichloropropane	< 7.20	ug/Kg		10/28/2013 20:08
1,3-Dichlorobenzene	< 7.20	ug/Kg		10/28/2013 20:08
1,4-Dichlorobenzene	< 7.20	ug/Kg		10/28/2013 20:08
1,4-dioxane	< 72.0	ug/Kg		10/28/2013 20:08
2-Butanone	< 36.0	ug/Kg		10/28/2013 20:08
2-Hexanone	< 18.0	ug/Kg		10/28/2013 20:08
4-Methyl-2-pentanone	< 18.0	ug/Kg		10/28/2013 20:08
Acetone	< 36.0	ug/Kg		10/28/2013 20:08
Benzene	< 7.20	ug/Kg		10/28/2013 20:08
Bromochloromethane	< 18.0	ug/Kg		10/28/2013 20:08
Bromodichloromethane	< 7.20	ug/Kg		10/28/2013 20:08
Bromoform	< 18.0	ug/Kg		10/28/2013 20:08
Bromomethane	< 7.20	ug/Kg		10/28/2013 20:08
Carbon disulfide	< 7.20	ug/Kg		10/28/2013 20:08
Carbon Tetrachloride	< 7.20	ug/Kg		10/28/2013 20:08
Chlorobenzene	< 7.20	ug/Kg		10/28/2013 20:08
Chloroethane	< 7.20	ug/Kg		10/28/2013 20:08

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

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 134087

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-Y-S13g7
Lab Sample ID: 134087-07
Matrix: Soil

Date/Time Sampled: 10/24/2013 15:00
Date Received: 10/24/2013

Chloroform	< 7.20	ug/Kg	10/28/2013 20:08
Chloromethane	< 7.20	ug/Kg	10/28/2013 20:08
cis-1,2-Dichloroethene	< 7.20	ug/Kg	10/28/2013 20:08
cis-1,3-Dichloropropene	< 7.20	ug/Kg	10/28/2013 20:08
Cyclohexane	< 36.0	ug/Kg	10/28/2013 20:08
Dibromochloromethane	< 7.20	ug/Kg	10/28/2013 20:08
Dichlorodifluoromethane	< 7.20	ug/Kg	10/28/2013 20:08
Ethylbenzene	< 7.20	ug/Kg	10/28/2013 20:08
Freon 113	< 7.20	ug/Kg	10/28/2013 20:08
Isopropylbenzene	< 7.20	ug/Kg	10/28/2013 20:08
m,p-Xylene	< 7.20	ug/Kg	10/28/2013 20:08
Methyl acetate	< 7.20	ug/Kg	10/28/2013 20:08
Methyl tert-butyl Ether	< 7.20	ug/Kg	10/28/2013 20:08
Methylcyclohexane	< 7.20	ug/Kg	10/28/2013 20:08
Methylene chloride	< 18.0	ug/Kg	10/28/2013 20:08
o-Xylene	< 7.20	ug/Kg	10/28/2013 20:08
Styrene	< 18.0	ug/Kg	10/28/2013 20:08
Tetrachloroethene	**124**	ug/Kg	10/28/2013 20:08
Toluene	< 7.20	ug/Kg	10/28/2013 20:08
trans-1,2-Dichloroethene	< 7.20	ug/Kg	10/28/2013 20:08
trans-1,3-Dichloropropene	< 7.20	ug/Kg	10/28/2013 20:08
Trichloroethene	**88.3**	ug/Kg	10/28/2013 20:08
Trichlorofluoromethane	< 7.20	ug/Kg	10/28/2013 20:08
Vinyl chloride	< 7.20	ug/Kg	10/28/2013 20:08

Surrogate outliers indicate probable matrix interference

Method Reference(s): EPA 8260C
EPA 5035A

Data File: x09268.D

Any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

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PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 134087

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-Y-S13c1
Lab Sample ID: 134087-08
Matrix: Soil

Date/Time Sampled: 10/24/2013 15:10
Date Received: 10/24/2013

Metals

Analyte	Result	Units	Qualifier	Date/Time Analyzed
Lead	**670**	mg/Kg		10/28/2013 16:06

Method Reference(s): EPA 6010C
EPA 3050
Data File: 102813b

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Report Prepared Wednesday, October 30, 2013

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 134087

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-Y-S13c2
Lab Sample ID: 134087-09
Matrix: Soil

Date/Time Sampled: 10/24/2013 15:20
Date Received: 10/24/2013

Metals

Analyte	Result	Units	Qualifier	Date/Time Analyzed
Lead	**303**	mg/Kg		10/28/2013 16:18

Method Reference(s): EPA 6010C
EPA 3050
Data File: 102813b

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Report Prepared Wednesday, October 30, 2013

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report Appendix

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

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

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

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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. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

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 analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"V" = Sample concentration is >10 times the spike. No meaningful Spike Recovery can be calculated.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

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

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT: Stantec		CLIENT: Stantec		134087
ADDRESS: 61 Commercial St		ADDRESS:		
CITY: Rochester	STATE: NY ZIP: 14614	CITY:	STATE: ZIP:	Quotation #:
PHONE: 413 5266		PHONE: 978 5248		Email:
ATTN: Mike Storonsky		ATTN: Ben Harawitch		mike.storonsky@stantec.com

PROJECT REFERENCE: Carriage Factory

Matrix Codes:
AQ - Aqueous Liquid, NQ - Non-Aqueous Liquid, WA - Water, WG - Groundwater, DW - Drinking Water, WW - Wastewater, SO - Soil, SL - Sludge, SD - Solid, PT - Paint, WP - Wipe, CK - Caulk, OL - Oil, AR - Air

REQUESTED ANALYSIS

	DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	TCL VOC	Total Pb	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	10/24/13	14:30		X	LI-Y-S13g1	SO	1	X			01
2	↓	14:35		↓	LI-Y-S13g2	↓	1	X			02
3		14:40			LI-Y-S13g3		1	X			03
4		14:45			LI-Y-S13g4		1	X			04
5		14:50			LI-Y-S13g5		1	X			05
6		14:55			LI-Y-S13g6		1	X			06
7		15:00			LI-Y-S13g7		1	X			07
8		15:10	X		LI-Y-S13c1		3		X	Please composite jars 1-3*	08
9		15:20	X		LI-Y-S13c2		3		X	Please composite jars 1-3*	09
10											

*But retain some in each jar for possible future indiv. analysis

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	X	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☐
Rush 2 day	☐	Category B	☐		
Rush 1 day	☐				
Other please indicate:	☐	Other please indicate:	☐	Other EDD please indicate: Stantec	X

Sampled By	Brian Horvath	Date/Time: 10/24 15:20
Relinquished By	Brian Horvath	Date/Time: 10/24 1700
Received By	[illegible]	Date/Time: 10/24/13 5:00
Received @ Lab By	[illegible]	Date/Time: 10/24/13 17:17

Total Cost:

P.I.F.

2 of 2

Chain of Custody Supplement

Client: Stantec **Completed by:** SSL

Lab Project ID: 134087 **Date:** 10/24/13

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	*NELAC compliance with the sample condition requirements upon receipt* Yes	No	N/A
Container Type	X	X 5035	
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)			X
Comments			
Preservation			X
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature		X	X Metals
Comments	10°C		
Sufficient Sample Quantity	X		
Comments			

PARADIGM

PARADIGM
ENVIRONMENTAL SERVICES, INC

Analytical Report For

Stantec

For Lab Project ID

134152

Referencing

Carriage Factory

Prepared

Monday, November 04, 2013

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

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

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

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 134152

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-Y-S13c1		
Lab Sample ID:	134152-01	**Date Sampled:**	10/24/2013
Matrix:	TCLP Extract	**Date Received:**	10/30/2013

TCLP Metals (ICP)

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Lead	**1.07**	mg/L	5		11/1/2013

Method Reference(s): EPA 6010C
EPA 1311 / 3005

Data File: 110113a

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 134152

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-Y-S13c2		
Lab Sample ID:	134152-02	**Date Sampled:**	10/24/2013
Matrix:	TCLP Extract	**Date Received:**	10/30/2013

TCLP Metals (ICP)

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Lead	**1.47**	mg/L	5		11/1/2013

Method Reference(s): EPA 6010C
EPA 1311 / 3005

Data File: 110113a

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Report Prepared Monday, November 04, 2013

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report Appendix

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"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
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"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"V" = Sample concentration is >10 times the spike. No meaningful Spike Recovery can be calculated.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.

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

1 of 2

relog 134152

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT:	Stantec	CLIENT:	Stantec	134087
ADDRESS:	61 Commercial St	ADDRESS:		Quotation #:
CITY:	Rochester STATE: NY ZIP: 14614	CITY: STATE: ZIP:		
PHONE:	413 5266	PHONE:	978 5248	Email: Mike.Staronsky@stantec.com
ATTN:	Mike Staronsky	ATTN:	Ben Harowitch	

PROJECT REFERENCE

Carriage Factory

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

	DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	TCL VOC	Total Pb	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	10/24/13	14:30		X	LI-Y-S13g1	SO	1	X		Relog 08 and 09 for	01
2		14:35			LI-Y-S13g2		1	X		TCLP Pb per client	02
3		14:40			LI-Y-S13g3		1	X		request SSL 10/30	03
4		14:45			LI-Y-S13g4		1	X			04
5		14:50			LI-Y-S13g5		1	X			05
6		14:55			LI-Y-S13g6		1	X			06
7		15:00			LI-Y-S13g7		1	X			07
8		15:10	X		LI-Y-S13c1		3		X	Please composite jars 1-3*	08
9		15:20	X		LI-Y-S13c2		3		X	Please composite jars 1-3*	09
10											

* But retain some in each jar for possible future indiv. analys.

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	X	Batch QC		Basic EDD	
Rush 3 day		Category A		NYSDEC EDD	
Rush 2 day		Category B			
Rush 1 day					
Other please indicate:		Other please indicate:		Other EDD please indicate: Stantec	X

Sampled By: Brian Horvath	10/24 15:20	Date/Time
Relinquished By: Brian Horvath	10/24 1700	Date/Time
Received By: [signature]	10/24/13 5:00	Date/Time
Received @ Lab By: [signature]	10/24/13 17:7	Date/Time
relog [signature]	10/30/13 1630	

Total Cost:

P.I.F.

PARADIGM

Chain of Custody Supplement

Client: Stantec **Completed by:** SSL

Lab Project ID: 134087 **Date:** 10/24/13

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	X	X 5035	
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)			X
Comments			
Preservation			X
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature		X	X Metals
Comments	11°C		
Sufficient Sample Quantity	X		
Comments			