

From: Byers, Harris <Harris.Byers@stantec.com>
Sent: Friday, August 21, 2020 9:26 AM
To: Beggs, Tauren R - DNR
Cc: Adam Tegen
Subject: RE: Characterization of Soil Along 13th Street, Manitowoc, Wisconsin

To close the loop on this, if I understand your concerns, the utility contractor will stockpile soil from 0.5-2 bgs (soil with possible non-naturally occurring VOC compounds) on River Point (former CN) starting at "13-North" to "13-Central" to segregate this material from the other material. We will sample this material on Monday/Tuesday for further characterization to confirm the presence/magnitude of possible residual VOCs. It's possible this material would make excellent fill on the portions of the Site where petroleum VOC impacts are already present (e.g. Site 2, Site 1, or Site 3).

I was slightly mistaken in the volume estimate; it's likely the volume will decrease to < 900 cubic yards.

Apologies for the rush on this project. We will sample soil next Friday along the next planned utility project corridor to give us more time to review the results.

Sincerely,

Harris Byers, Ph.D.

Sr. Brownfields Project Manager

Direct: 414 581-6476
Harris.Byers@stantec.com

Stantec
12075 Corporate Parkway Suite 200
Mequon WI 53092-2649



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From: Beggs, Tauren R - DNR <Tauren.Beggs@wisconsin.gov>
Sent: Friday, August 21, 2020 8:25 AM
To: Byers, Harris <Harris.Byers@stantec.com>
Cc: Adam Tegen <ategen@manitowoc.org>
Subject: RE: Characterization of Soil Along 13th Street, Manitowoc, Wisconsin

Hi Harris,

As stated before, I can't approve soil to a site without a fee or as part of review through the VPLE process, so this is not a concurrence/approval. Based on a quick look: for metals, it appears less than BTVs. There are no PAHs above RCLs. VOCs (non-naturally occurring compounds) were detected below RCLs, so this is not considered exempt material, but may still be okay for use on-site. Please refer to the guidance document Exempt Soil Management: <https://dnr.wi.gov/files/PDF/pubs/rr/RR103.pdf>.

I also want to note that there is no approval for the site investigation and it is likely not complete for this site based on the data collected so far, so keep that in mind during your progress towards redevelopment of this site. This includes all contaminants of concern (including PFAS in environmental media).

Regards,

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Tauren R. Beggs

Phone: (920) 510-3472

Tauren.Beggs@wisconsin.gov (preferred contact method during work at home)

From: Byers, Harris <Harris.Byers@stantec.com>

Sent: Thursday, August 20, 2020 11:54 AM

To: Beggs, Tauren R - DNR <Tauren.Beggs@wisconsin.gov>; Adam Tegen <ategen@manitowoc.org>

Subject: Characterization of Soil Along 13th Street, Manitowoc, Wisconsin

Tauren:

The attached letter report summarizes the results of recent characterization of spoil to be generated during infrastructure upgrades in Manitowoc. The City is targeting the soil for placement on the River Point District (former CN) property in the NON-VPLE areas.

Can you please review the attached for concurrence the material is of appropriate quality for use as fill on River Point. Eventually, an engineered barrier maintained with an institutional control will be constructed as part of property redevelopment. The contractor would like to start moving soils by tomorrow morning, if possible.

Sincerely,

Harris Byers, Ph.D.

Sr. Brownfields Project Manager

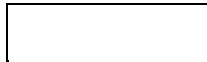
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August 19, 2020
File: 193702757

Attention: Mr. Adam Tegen
Community Development Director
900 Quay Street
Manitowoc, WI 54220

Dear Mr. Tegen,

Reference: Characterization of Soil Along 13th Street, Manitowoc, Wisconsin

Stantec Consulting Services Inc. (Stantec) has prepared this letter report following collection and laboratory analysis of soil samples from active excavations along 13th Street in Manitowoc, Wisconsin. The purpose of this sampling was to characterize representative soil targeted as potential fill for the River Point District property.

BACKGROUND

Vinton Construction Company (Vinton) is completing utility work along 13th Street concurrent with replacement of the driving surface. The project is expected to generate roughly 4,000 cubic yards of soil that Vinton has offered to the City of Manitowoc for fill at the River Point District property. As the River Point District is undergoing investigation under chapter NR 700 of the Wisconsin Administrative Code (WAC), and at the recommendation of the Wisconsin Department of Natural Resources Project Manager (Tauren Beggs), sampling of representative soil prior to placement on the River Point District property was warranted.

METHODS

Stantec met onsite with Vinton on August 12, 2020 and collected multiple discrete soil samples of soils Vinton considered representative of potential fill for the River Point District property. Soil samples were collected from sidewalls of three open/active excavations. Sample locations are illustrated on Figure 1 and photographic documentation is provided in Attachment A.

Soil from each sample location was submitted to Eurofins TestAmerica (Chicago, Illinois) under chain-of-custody procedures for eight Resource Conservation and Recovery Act (RCRA) metals, polycyclic aromatic hydrocarbon (PAH), and volatile organic compound (VOC) analysis. The laboratory report is provided in Attachment B and detected constituents compared to ch. NR 720 WAC health-based residual contaminant levels (RCLs) and background threshold values (BTVs) on Table 1.

RESULTS

Soils encountered appear to be reworked native soils with varying quantities of fines. Photoionization detector measurements were all less than 1 instrument unit. Additionally, as noted on Table 1, the

Reference: Characterization of Soil Along 13th Street, Manitowoc, Wisconsin

concentrations of detected VOCs and PAHs in soil samples were several orders of magnitude less than the most restrictive health-based RCLs.

The concentrations of five heavy metals were less than the most restrictive health-based RCLs. Although the concentrations of arsenic were greater than the non-industrial direct contact RCL, all arsenic concentrations were less than the BTV suggesting the arsenic is not likely associated with a hazardous substance discharge.

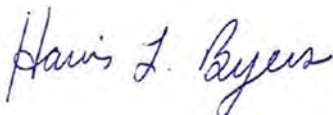
CONCLUSIONS

As detected constituent concentrations in soil Vinton considered representative of potential fill for the River Point District property are significantly less than applicable health-based RCLs or applicable BTVs and the constituents were already documented on the River Point District property, soil from the 13th Street project appears appropriate for use as fill at the River Point District property. The existing soil/material management plan should be used to further guide quality/placement/segregation of soil onsite.

Please be aware that two portions of the Riverpoint District (referred to as Area B-1 and B-2) will be enrolled in the Voluntary Party Liability Exemption (VPLE) program. The VPLE committee may require additional sampling of imported fill to confirm the suitability for use in B-1 and B-2. Fill should not be placed on Area B-1 and B-2 without prior approval from the VPLE committee.

Regards,

Stantec Consulting Services, Inc.



Harris L. Byers, Ph.D.
Sr. Brownfields Project Manager
Tel: 414-581-6476
Email: harris.byers@stantec.com



Richard J. Binder, PG
Senior Associate
Tel: 262 643-9010
Email: rick.binder@stantec.com

Attachment: Figure 1
Table 1
A – Photographic Documentation
B – Laboratory Report

LIMITATIONS

This soil sampling was performed in accordance with generally accepted practices of the profession for performing similar studies at the same time and in the same geographical area. Stantec observed that degree of care and skill generally exercised by the profession under similar circumstances and conditions. No other warranty is expressed or implied.

August 19, 2020
Mr. Adam Tegen
Page 3 of 3

Reference: Characterization of Soil Along 13th Street, Manitowoc, Wisconsin

Stantec observations, findings, and opinions must not be considered as scientific certainties, but only an opinion based on our professional judgment concerning the significance of the data gathered during the course of the investigation. Specifically, Stantec does not and cannot represent that the soil contains no hazardous or toxic materials or other latent condition beyond that observed by Stantec. Further, Stantec does not warrant that this submittal represents an exhaustive study of all possible environmental concerns at the project area.

TABLE

Table 1
 Detected Constituents in Soil
 13th Street Construction Project
 Manitowoc, Wisconsin

Detected Constituents	Units	Non-Industrial Direct Contact RCL	Industrial Direct Contact RCL	Soil to Groundwater RCL	13-North		13-Central			13-South		
					0.5-2	2-6	0.5-2.5	3-4	4-6	0.5-2	2-3.5	4-6
					08/12/2020	08/12/2020	08/12/2020	08/12/2020	08/12/2020	08/12/2020	08/12/2020	08/12/2020
Volatile Organic Compounds												
Toluene	ug/kg	818,000	818,000	1,107	14	<7.6	<7.5	<7.6	<7.9	<10	<9.5	<9.7
Xylenes, Total	ug/kg	260,000	260,000	3,960	34	<11	<11	<11	<12	<15	<14	<15
Polycyclic Aromatic Hydrocarbons												
Benzo[b]fluoranthene	ug/kg	1,150	21,100	478	<7.1	<7.4	<7.0	<7.4	<7.5	8.8 J	<8.1	<7.9
Fluoranthene	ug/kg	2,390,000	30,100,000	88,877	<6.1	28 J	27 J	<6.3	<6.4	<7.0	<6.9	<6.8
Phenanthrene	ug/kg	n/v	n/v	n/v	<4.6	<4.8	26 J	<4.8	<4.8	<5.2	<5.2	<5.1
Heavy Metals												
Arsenic	mg/kg	0.677 (8)	3.0 (8)	0.584 (8)	0.73 J	0.88 J	0.68 J	0.73 J	0.95	2.9	1.6	2
Barium	mg/kg	15,300 (364)	100,000 (364)	164.8 (364)	8	6.6	6.1	6.3	6.6	40	25	29
Cadmium	mg/kg	71.1 (1)	985 (1)	0.752 (1)	0.050 J	0.063 J	0.065 J	0.037 J	0.064 J	<0.042	<0.039	<0.041
Chromium	mg/kg	100,000, 0.301 Cr VI (44)	100,000, 6.36 Cr VI (44)	360,000 (if no Cr VI)	4.4 B	4.2 B	4.1 B	4.4 B	4.2 B	17 B	12 B	14 B
Lead	mg/kg	400 (52)	800 (52)	27 (52)	1.2	2.4	1.9	1.9	1.6	7.7	5.3	5.2
Mercury	mg/kg	3.13	3.13	0.208	<0.0054	<0.0054	<0.0057	<0.0056	<0.0055	0.023	0.024	0.018

Notes:

- mg/kg Milligram per Kilogram
- µg/kg Microgram per Kilogram
- (8) Heavy metal concentrations that are underlined in parenthesis are Wisconsin Soil Background Threshold Values per WDNR, 2018, RCL spreadsheet for use with macro-enabled Excel program, December 2018 Update, available at <https://dnr.wi.gov/topic/Brownfields/documents/tech/RCLs.xlsm>.
- RCL Residual contaminant level for noted pathway per WDNR, 2018, RCL spreadsheet for use with macro-enabled Excel program, December 2018 Update, available at <https://dnr.wi.gov/topic/Brownfields/documents/tech/RCLs.xlsm>.
- X Reported concentration exceeds the RCL for direct contact at non-industrial properties, but is less than the BTV.
- 15.2 Measured concentration did not exceed the indicated standard.
- <0.03 Analyte was not detected at a concentration greater than the laboratory reporting limit.
- n/v No standard/guideline value.
- B Indicates analyte was found in associated blank, as well as in the sample.
- J The reported result is an estimated value.

FIGURE

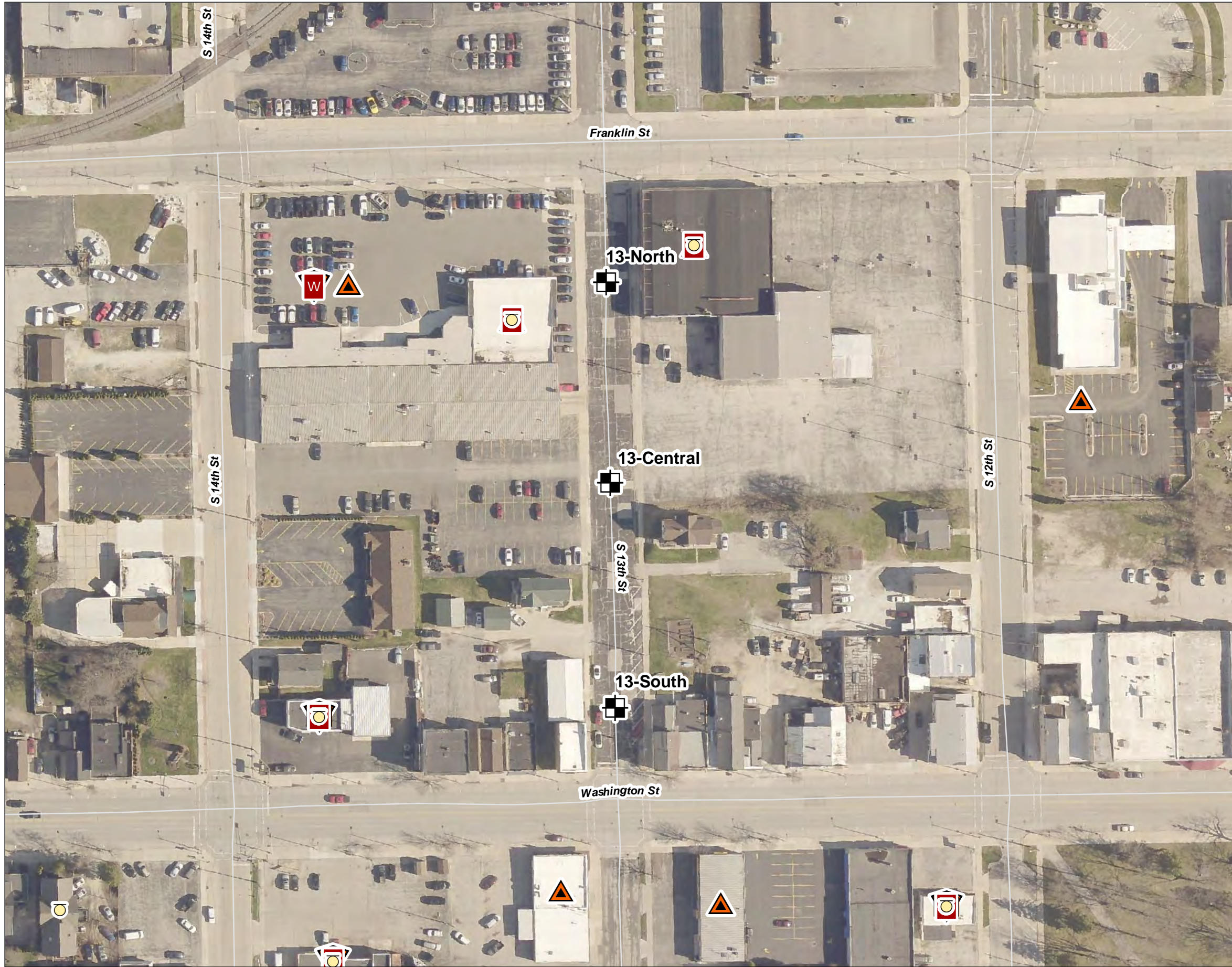








Figure No. **1**
 Title
Brownfield GIS Database Records and Soil Sample Locations
 Client/Project
 River Point Fill Characterization
 13th Street Corridor
 City of Manitowoc
 0 75 150 Feet
 Prepared by HLB on 3/25/2020

Legend

-  Soil Sample Location
-  Wisconsin Tank Registry
-  WDNR BRRS Database of Sites
-  USEPA Facility Registration System
-  Fire Department UST Records
-  PECFA Sites



Notes
 1. Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet
 2. Orthophotograph: Manitowoc County, 2017



ATTACHMENT A

Photographic Documentation

Client:	City of Manitowoc, Wisconsin	Project:	Characterization of Fill for River Point District
Site Name:		Site Location:	13th Street; Manitowoc, Wisconsin

Photograph ID: 1

Photo Location:
13-Central

Direction:

Survey Date:
8/12/2020

Comments:
Removing asphalt driving surface from sample location (typical)



Photograph ID: 2

Photo Location:
13-Central

Direction:

Survey Date:
8/12/2020

Comments:
Breaking concrete underlayment from sample location (typical)



Client:	City of Manitowoc, Wisconsin	Project:	Characterization of Fill for River Point District
Site Name:		Site Location:	13th Street; Manitowoc, Wisconsin

Photograph ID: 3

Photo Location:
13-Central

Direction:

Survey Date:
8/12/2020

Comments:
Removing concrete underlayment from sample location (typical)



Photograph ID: 4

Photo Location:
13-Central

Direction:


Survey Date:
8/12/2020

Comments:
Excavating test pit at sample location (typical)



Client:	City of Manitowoc, Wisconsin	Project:	Characterization of Fill for River Point District
Site Name:		Site Location:	13th Street; Manitowoc, Wisconsin

Photograph ID: 5	
Photo Location: 13-Central	
Direction:	
Survey Date: 8/12/2020	
Comments: Soil at 13-Central	

Photograph ID: 6	
Photo Location: 13-North	
Direction:	
Survey Date: 8/12/2020	
Comments: Soil at 13-North	

Client:	City of Manitowoc, Wisconsin	Project:	Characterization of Fill for River Point District
Site Name:		Site Location:	13th Street; Manitowoc, Wisconsin

Photograph ID: 7
Photo Location: 13-South
Direction:
Survey Date: 8/12/2020
Comments: Soil at 13-South



ATTACHMENT B

Laboratory Reports

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-186359-1

Client Project/Site: 13th Street Soil Sampling - 193702757

For:

Stantec Consulting Corp.
12075 Corporate Pkwy, Suite 200
Mequon, Wisconsin 53092

Attn: Harris Byers



*Authorized for release by:
8/19/2020 2:26:13 PM*

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: Stantec Consulting Corp.
Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Job ID: 500-186359-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-186359-1

Comments

No additional comments.

Receipt

The samples were received on 8/13/2020 9:55 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.8° C.

GC/MS VOA

Method 8260B: The laboratory control sample (LCS) for 557063 recovered outside control limits for several analytes. This is a prepped 5035 LCS. The daily instrument LCS was acceptable, and the data have been reported. 13-NORTH 0.5-2 (500-186359-1), 13-NORTH 2-6 (500-186359-2), 13-CENTRAL 0.5-2.5 (500-186359-3), 13-CENTRAL 3-4 (500-186359-4), 13-CENTRAL 4-6 (500-186359-5), 13-SOUTH 0.5-2 (500-186359-6), 13-SOUTH 2-3.5 (500-186359-7) and 13-SOUTH 4-6 (500-186359-8)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Stantec Consulting Corp.
 Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Client Sample ID: 13-NORTH 0.5-2

Lab Sample ID: 500-186359-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	14		13	7.9	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	34		27	12	ug/Kg	50	☼	8260B	Total/NA
Arsenic	0.73	J	1.0	0.35	mg/Kg	1	☼	6010C	Total/NA
Barium	8.0		1.0	0.12	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.050	J	0.20	0.037	mg/Kg	1	☼	6010C	Total/NA
Chromium	4.4	B	1.0	0.50	mg/Kg	1	☼	6010C	Total/NA
Lead	1.2		0.51	0.24	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 13-NORTH 2-6

Lab Sample ID: 500-186359-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	28	J	34	6.4	ug/Kg	1	☼	8270D	Total/NA
Arsenic	0.88	J	0.98	0.33	mg/Kg	1	☼	6010C	Total/NA
Barium	6.6		0.98	0.11	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.063	J	0.20	0.035	mg/Kg	1	☼	6010C	Total/NA
Chromium	4.2	B	0.98	0.48	mg/Kg	1	☼	6010C	Total/NA
Lead	2.4		0.49	0.23	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 13-CENTRAL 0.5-2.5

Lab Sample ID: 500-186359-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	27	J	32	6.0	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	26	J	32	4.5	ug/Kg	1	☼	8270D	Total/NA
Arsenic	0.68	J	0.94	0.32	mg/Kg	1	☼	6010C	Total/NA
Barium	6.1		0.94	0.11	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.065	J	0.19	0.034	mg/Kg	1	☼	6010C	Total/NA
Chromium	4.1	B	0.94	0.46	mg/Kg	1	☼	6010C	Total/NA
Lead	1.9		0.47	0.22	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 13-CENTRAL 3-4

Lab Sample ID: 500-186359-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.73	J	0.93	0.32	mg/Kg	1	☼	6010C	Total/NA
Barium	6.3		0.93	0.11	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.037	J	0.19	0.033	mg/Kg	1	☼	6010C	Total/NA
Chromium	4.4	B	0.93	0.46	mg/Kg	1	☼	6010C	Total/NA
Lead	1.9		0.46	0.21	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 13-CENTRAL 4-6

Lab Sample ID: 500-186359-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.95		0.93	0.32	mg/Kg	1	☼	6010C	Total/NA
Barium	6.6		0.93	0.11	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.064	J	0.19	0.033	mg/Kg	1	☼	6010C	Total/NA
Chromium	4.2	B	0.93	0.46	mg/Kg	1	☼	6010C	Total/NA
Lead	1.6		0.46	0.21	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 13-SOUTH 0.5-2

Lab Sample ID: 500-186359-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	8.8	J	37	8.1	ug/Kg	1	☼	8270D	Total/NA
Arsenic	2.9		1.2	0.39	mg/Kg	1	☼	6010C	Total/NA
Barium	40		1.2	0.13	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Client Sample ID: 13-SOUTH 0.5-2 (Continued)

Lab Sample ID: 500-186359-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	17	B	1.2	0.57	mg/Kg	1	☼	6010C	Total/NA
Lead	7.7		0.58	0.27	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.023		0.019	0.0062	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 13-SOUTH 2-3.5

Lab Sample ID: 500-186359-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.6		1.1	0.37	mg/Kg	1	☼	6010C	Total/NA
Barium	25		1.1	0.12	mg/Kg	1	☼	6010C	Total/NA
Chromium	12	B	1.1	0.54	mg/Kg	1	☼	6010C	Total/NA
Lead	5.3		0.55	0.25	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.024		0.018	0.0062	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 13-SOUTH 4-6

Lab Sample ID: 500-186359-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.0		1.1	0.39	mg/Kg	1	☼	6010C	Total/NA
Barium	29		1.1	0.13	mg/Kg	1	☼	6010C	Total/NA
Chromium	14	B	1.1	0.56	mg/Kg	1	☼	6010C	Total/NA
Lead	5.2		0.57	0.26	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.018		0.018	0.0060	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Method Summary

Client: Stantec Consulting Corp.
Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010C	Metals (ICP)	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Sample Summary

Client: Stantec Consulting Corp.
Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-186359-1	13-NORTH 0.5-2	Solid	08/12/20 09:20	08/13/20 09:55	
500-186359-2	13-NORTH 2-6	Solid	08/12/20 09:23	08/13/20 09:55	
500-186359-3	13-CENTRAL 0.5-2.5	Solid	08/12/20 10:00	08/13/20 09:55	
500-186359-4	13-CENTRAL 3-4	Solid	08/12/20 10:05	08/13/20 09:55	
500-186359-5	13-CENTRAL 4-6	Solid	08/12/20 10:10	08/13/20 09:55	
500-186359-6	13-SOUTH 0.5-2	Solid	08/12/20 10:35	08/13/20 09:55	
500-186359-7	13-SOUTH 2-3.5	Solid	08/12/20 10:37	08/13/20 09:55	
500-186359-8	13-SOUTH 4-6	Solid	08/12/20 10:38	08/13/20 09:55	

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Client Sample ID: 13-NORTH 0.5-2

Lab Sample ID: 500-186359-1

Date Collected: 08/12/20 09:20

Matrix: Solid

Date Received: 08/13/20 09:55

Percent Solids: 95.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<25		54	25	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
1,1,1-Trichloroethane	<20		54	20	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
1,1,2,2-Tetrachloroethane	<21		54	21	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
1,1,2-Trichloroethane	<19		54	19	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
1,1-Dichloroethane	<22 *		54	22	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
1,1-Dichloroethene	<21		54	21	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
1,1-Dichloropropene	<16		54	16	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
1,2,3-Trichlorobenzene	<25		54	25	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
1,2,3-Trichloropropane	<22		110	22	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
1,2,4-Trichlorobenzene	<18		54	18	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
1,2,4-Trimethylbenzene	<19		54	19	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
1,2-Dibromo-3-Chloropropane	<110 *		270	110	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
1,2-Dibromoethane	<21 *		54	21	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
1,2-Dichlorobenzene	<18		54	18	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
1,2-Dichloroethane	<21 *		54	21	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
1,2-Dichloropropane	<23		54	23	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
1,3,5-Trimethylbenzene	<20		54	20	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
1,3-Dichlorobenzene	<21		54	21	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
1,3-Dichloropropane	<19		54	19	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
1,4-Dichlorobenzene	<19		54	19	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
2,2-Dichloropropane	<24		54	24	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
2-Chlorotoluene	<17		54	17	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
4-Chlorotoluene	<19		54	19	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
Benzene	<7.8 *		13	7.8	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
Bromobenzene	<19		54	19	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
Bromochloromethane	<23 *		54	23	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
Bromodichloromethane	<20 *		54	20	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
Bromoform	<26		54	26	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
Bromomethane	<43		160	43	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
Carbon tetrachloride	<21		54	21	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
Chlorobenzene	<21 *		54	21	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
Chloroethane	<27		54	27	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
Chloroform	<20 *		110	20	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
Chloromethane	<17		54	17	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
cis-1,2-Dichloroethene	<22 *		54	22	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
cis-1,3-Dichloropropene	<22		54	22	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
Dibromochloromethane	<26		54	26	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
Dibromomethane	<14 *		54	14	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
Dichlorodifluoromethane	<36		160	36	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
Ethylbenzene	<9.8		13	9.8	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
Hexachlorobutadiene	<24		54	24	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
Isopropyl ether	<15		54	15	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
Isopropylbenzene	<21		54	21	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
Methyl tert-butyl ether	<21 *		54	21	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
Methylene Chloride	<87 *		270	87	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
Naphthalene	<18		54	18	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
n-Butylbenzene	<21		54	21	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
N-Propylbenzene	<22		54	22	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
p-Isopropyltoluene	<19		54	19	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Client Sample ID: 13-NORTH 0.5-2

Lab Sample ID: 500-186359-1

Date Collected: 08/12/20 09:20

Matrix: Solid

Date Received: 08/13/20 09:55

Percent Solids: 95.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<21		54	21	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
Styrene	<21		54	21	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
tert-Butylbenzene	<21		54	21	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
Tetrachloroethene	<20		54	20	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
Toluene	14		13	7.9	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
trans-1,2-Dichloroethene	<19		54	19	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
trans-1,3-Dichloropropene	<19		54	19	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
Trichloroethene	<8.8		27	8.8	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
Trichlorofluoromethane	<23		54	23	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
Vinyl chloride	<14		54	14	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
Xylenes, Total	34		27	12	ug/Kg	☼	08/12/20 09:20	08/18/20 00:36	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		75 - 126				08/12/20 09:20	08/18/20 00:36	50
4-Bromofluorobenzene (Surr)	97		72 - 124				08/12/20 09:20	08/18/20 00:36	50
Dibromofluoromethane (Surr)	108		75 - 120				08/12/20 09:20	08/18/20 00:36	50
Toluene-d8 (Surr)	100		75 - 120				08/12/20 09:20	08/18/20 00:36	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.0		66	8.0	ug/Kg	☼	08/17/20 06:17	08/17/20 23:03	1
2-Methylnaphthalene	<6.0		66	6.0	ug/Kg	☼	08/17/20 06:17	08/17/20 23:03	1
Acenaphthene	<5.9		33	5.9	ug/Kg	☼	08/17/20 06:17	08/17/20 23:03	1
Acenaphthylene	<4.3		33	4.3	ug/Kg	☼	08/17/20 06:17	08/17/20 23:03	1
Anthracene	<5.5		33	5.5	ug/Kg	☼	08/17/20 06:17	08/17/20 23:03	1
Benzo[a]anthracene	<4.4		33	4.4	ug/Kg	☼	08/17/20 06:17	08/17/20 23:03	1
Benzo[a]pyrene	<6.4		33	6.4	ug/Kg	☼	08/17/20 06:17	08/17/20 23:03	1
Benzo[b]fluoranthene	<7.1		33	7.1	ug/Kg	☼	08/17/20 06:17	08/17/20 23:03	1
Benzo[g,h,i]perylene	<11		33	11	ug/Kg	☼	08/17/20 06:17	08/17/20 23:03	1
Benzo[k]fluoranthene	<9.7		33	9.7	ug/Kg	☼	08/17/20 06:17	08/17/20 23:03	1
Chrysene	<9.0		33	9.0	ug/Kg	☼	08/17/20 06:17	08/17/20 23:03	1
Dibenz(a,h)anthracene	<6.3		33	6.3	ug/Kg	☼	08/17/20 06:17	08/17/20 23:03	1
Fluoranthene	<6.1		33	6.1	ug/Kg	☼	08/17/20 06:17	08/17/20 23:03	1
Fluorene	<4.6		33	4.6	ug/Kg	☼	08/17/20 06:17	08/17/20 23:03	1
Indeno[1,2,3-cd]pyrene	<8.5		33	8.5	ug/Kg	☼	08/17/20 06:17	08/17/20 23:03	1
Naphthalene	<5.1		33	5.1	ug/Kg	☼	08/17/20 06:17	08/17/20 23:03	1
Phenanthrene	<4.6		33	4.6	ug/Kg	☼	08/17/20 06:17	08/17/20 23:03	1
Pyrene	<6.5		33	6.5	ug/Kg	☼	08/17/20 06:17	08/17/20 23:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	70		43 - 145				08/17/20 06:17	08/17/20 23:03	1
Nitrobenzene-d5 (Surr)	71		37 - 147				08/17/20 06:17	08/17/20 23:03	1
Terphenyl-d14 (Surr)	80		42 - 157				08/17/20 06:17	08/17/20 23:03	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.73	J	1.0	0.35	mg/Kg	☼	08/17/20 18:11	08/18/20 11:24	1
Barium	8.0		1.0	0.12	mg/Kg	☼	08/17/20 18:11	08/18/20 11:24	1
Cadmium	0.050	J	0.20	0.037	mg/Kg	☼	08/17/20 18:11	08/18/20 11:24	1
Chromium	4.4	B	1.0	0.50	mg/Kg	☼	08/17/20 18:11	08/18/20 11:24	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Client Sample ID: 13-NORTH 0.5-2

Lab Sample ID: 500-186359-1

Date Collected: 08/12/20 09:20

Matrix: Solid

Date Received: 08/13/20 09:55

Percent Solids: 95.6

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.2		0.51	0.24	mg/Kg	☼	08/17/20 18:11	08/18/20 11:24	1
Selenium	<0.60		1.0	0.60	mg/Kg	☼	08/17/20 18:11	08/18/20 11:24	1
Silver	<0.13		0.51	0.13	mg/Kg	☼	08/17/20 18:11	08/18/20 11:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0054		0.016	0.0054	mg/Kg	☼	08/17/20 13:50	08/18/20 07:43	1

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Client Sample ID: 13-NORTH 2-6

Lab Sample ID: 500-186359-2

Date Collected: 08/12/20 09:23

Matrix: Solid

Date Received: 08/13/20 09:55

Percent Solids: 95.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<24		51	24	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
1,1,1-Trichloroethane	<20		51	20	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
1,1,2,2-Tetrachloroethane	<20		51	20	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
1,1,2-Trichloroethane	<18		51	18	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
1,1-Dichloroethane	<21 *		51	21	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
1,1-Dichloroethene	<20		51	20	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
1,1-Dichloropropene	<15		51	15	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
1,2,3-Trichlorobenzene	<24		51	24	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
1,2,3-Trichloropropane	<21		100	21	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
1,2,4-Trichlorobenzene	<18		51	18	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
1,2,4-Trimethylbenzene	<18		51	18	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
1,2-Dibromo-3-Chloropropane	<100 *		260	100	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
1,2-Dibromoethane	<20 *		51	20	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
1,2-Dichlorobenzene	<17		51	17	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
1,2-Dichloroethane	<20 *		51	20	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
1,2-Dichloropropane	<22		51	22	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
1,3,5-Trimethylbenzene	<20		51	20	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
1,3-Dichlorobenzene	<21		51	21	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
1,3-Dichloropropane	<19		51	19	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
1,4-Dichlorobenzene	<19		51	19	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
2,2-Dichloropropane	<23		51	23	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
2-Chlorotoluene	<16		51	16	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
4-Chlorotoluene	<18		51	18	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
Benzene	<7.5 *		13	7.5	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
Bromobenzene	<18		51	18	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
Bromochloromethane	<22 *		51	22	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
Bromodichloromethane	<19 *		51	19	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
Bromoform	<25		51	25	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
Bromomethane	<41		150	41	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
Carbon tetrachloride	<20		51	20	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
Chlorobenzene	<20 *		51	20	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
Chloroethane	<26		51	26	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
Chloroform	<19 *		100	19	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
Chloromethane	<16		51	16	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
cis-1,2-Dichloroethene	<21 *		51	21	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
cis-1,3-Dichloropropene	<21		51	21	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
Dibromochloromethane	<25		51	25	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
Dibromomethane	<14 *		51	14	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
Dichlorodifluoromethane	<35		150	35	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
Ethylbenzene	<9.4		13	9.4	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
Hexachlorobutadiene	<23		51	23	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
Isopropyl ether	<14		51	14	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
Isopropylbenzene	<20		51	20	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
Methyl tert-butyl ether	<20 *		51	20	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
Methylene Chloride	<84 *		260	84	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
Naphthalene	<17		51	17	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
n-Butylbenzene	<20		51	20	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
N-Propylbenzene	<21		51	21	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
p-Isopropyltoluene	<19		51	19	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Client Sample ID: 13-NORTH 2-6

Lab Sample ID: 500-186359-2

Date Collected: 08/12/20 09:23

Matrix: Solid

Date Received: 08/13/20 09:55

Percent Solids: 95.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<20		51	20	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
Styrene	<20		51	20	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
tert-Butylbenzene	<20		51	20	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
Tetrachloroethene	<19		51	19	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
Toluene	<7.6		13	7.6	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
trans-1,2-Dichloroethene	<18		51	18	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
trans-1,3-Dichloropropene	<19		51	19	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
Trichloroethene	<8.4		26	8.4	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
Trichlorofluoromethane	<22		51	22	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
Vinyl chloride	<13		51	13	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
Xylenes, Total	<11		26	11	ug/Kg	☼	08/12/20 09:23	08/18/20 01:03	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	122		75 - 126				08/12/20 09:23	08/18/20 01:03	50
4-Bromofluorobenzene (Surr)	98		72 - 124				08/12/20 09:23	08/18/20 01:03	50
Dibromofluoromethane (Surr)	111		75 - 120				08/12/20 09:23	08/18/20 01:03	50
Toluene-d8 (Surr)	97		75 - 120				08/12/20 09:23	08/18/20 01:03	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.4		69	8.4	ug/Kg	☼	08/17/20 06:17	08/17/20 23:28	1
2-Methylnaphthalene	<6.3		69	6.3	ug/Kg	☼	08/17/20 06:17	08/17/20 23:28	1
Acenaphthene	<6.2		34	6.2	ug/Kg	☼	08/17/20 06:17	08/17/20 23:28	1
Acenaphthylene	<4.5		34	4.5	ug/Kg	☼	08/17/20 06:17	08/17/20 23:28	1
Anthracene	<5.8		34	5.8	ug/Kg	☼	08/17/20 06:17	08/17/20 23:28	1
Benzo[a]anthracene	<4.6		34	4.6	ug/Kg	☼	08/17/20 06:17	08/17/20 23:28	1
Benzo[a]pyrene	<6.7		34	6.7	ug/Kg	☼	08/17/20 06:17	08/17/20 23:28	1
Benzo[b]fluoranthene	<7.4		34	7.4	ug/Kg	☼	08/17/20 06:17	08/17/20 23:28	1
Benzo[g,h,i]perylene	<11		34	11	ug/Kg	☼	08/17/20 06:17	08/17/20 23:28	1
Benzo[k]fluoranthene	<10		34	10	ug/Kg	☼	08/17/20 06:17	08/17/20 23:28	1
Chrysene	<9.4		34	9.4	ug/Kg	☼	08/17/20 06:17	08/17/20 23:28	1
Dibenz(a,h)anthracene	<6.7		34	6.7	ug/Kg	☼	08/17/20 06:17	08/17/20 23:28	1
Fluoranthene	28	J	34	6.4	ug/Kg	☼	08/17/20 06:17	08/17/20 23:28	1
Fluorene	<4.8		34	4.8	ug/Kg	☼	08/17/20 06:17	08/17/20 23:28	1
Indeno[1,2,3-cd]pyrene	<8.9		34	8.9	ug/Kg	☼	08/17/20 06:17	08/17/20 23:28	1
Naphthalene	<5.3		34	5.3	ug/Kg	☼	08/17/20 06:17	08/17/20 23:28	1
Phenanthrene	<4.8		34	4.8	ug/Kg	☼	08/17/20 06:17	08/17/20 23:28	1
Pyrene	<6.8		34	6.8	ug/Kg	☼	08/17/20 06:17	08/17/20 23:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	70		43 - 145				08/17/20 06:17	08/17/20 23:28	1
Nitrobenzene-d5 (Surr)	71		37 - 147				08/17/20 06:17	08/17/20 23:28	1
Terphenyl-d14 (Surr)	78		42 - 157				08/17/20 06:17	08/17/20 23:28	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.88	J	0.98	0.33	mg/Kg	☼	08/17/20 18:11	08/18/20 11:28	1
Barium	6.6		0.98	0.11	mg/Kg	☼	08/17/20 18:11	08/18/20 11:28	1
Cadmium	0.063	J	0.20	0.035	mg/Kg	☼	08/17/20 18:11	08/18/20 11:28	1
Chromium	4.2	B	0.98	0.48	mg/Kg	☼	08/17/20 18:11	08/18/20 11:28	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Client Sample ID: 13-NORTH 2-6

Lab Sample ID: 500-186359-2

Date Collected: 08/12/20 09:23

Matrix: Solid

Date Received: 08/13/20 09:55

Percent Solids: 95.6

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.4		0.49	0.23	mg/Kg	☼	08/17/20 18:11	08/18/20 11:28	1
Selenium	<0.57		0.98	0.57	mg/Kg	☼	08/17/20 18:11	08/18/20 11:28	1
Silver	<0.13		0.49	0.13	mg/Kg	☼	08/17/20 18:11	08/18/20 11:28	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0054		0.016	0.0054	mg/Kg	☼	08/17/20 13:50	08/18/20 07:49	1



Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Client Sample ID: 13-CENTRAL 0.5-2.5

Lab Sample ID: 500-186359-3

Date Collected: 08/12/20 10:00

Matrix: Solid

Date Received: 08/13/20 09:55

Percent Solids: 96.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<24		51	24	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
1,1,1-Trichloroethane	<19		51	19	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
1,1,2,2-Tetrachloroethane	<20		51	20	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
1,1,2-Trichloroethane	<18		51	18	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
1,1-Dichloroethane	<21 *		51	21	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
1,1-Dichloroethene	<20		51	20	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
1,1-Dichloropropene	<15		51	15	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
1,2,3-Trichlorobenzene	<23		51	23	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
1,2,3-Trichloropropane	<21		100	21	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
1,2,4-Trichlorobenzene	<18		51	18	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
1,2,4-Trimethylbenzene	<18		51	18	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
1,2-Dibromo-3-Chloropropane	<100 *		260	100	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
1,2-Dibromoethane	<20 *		51	20	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
1,2-Dichlorobenzene	<17		51	17	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
1,2-Dichloroethane	<20 *		51	20	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
1,2-Dichloropropane	<22		51	22	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
1,3,5-Trimethylbenzene	<19		51	19	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
1,3-Dichlorobenzene	<20		51	20	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
1,3-Dichloropropane	<19		51	19	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
1,4-Dichlorobenzene	<19		51	19	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
2,2-Dichloropropane	<23		51	23	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
2-Chlorotoluene	<16		51	16	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
4-Chlorotoluene	<18		51	18	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
Benzene	<7.5 *		13	7.5	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
Bromobenzene	<18		51	18	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
Bromochloromethane	<22 *		51	22	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
Bromodichloromethane	<19 *		51	19	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
Bromoform	<25		51	25	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
Bromomethane	<41		150	41	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
Carbon tetrachloride	<20		51	20	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
Chlorobenzene	<20 *		51	20	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
Chloroethane	<26		51	26	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
Chloroform	<19 *		100	19	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
Chloromethane	<16		51	16	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
cis-1,2-Dichloroethene	<21 *		51	21	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
cis-1,3-Dichloropropane	<21		51	21	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
Dibromochloromethane	<25		51	25	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
Dibromomethane	<14 *		51	14	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
Dichlorodifluoromethane	<35		150	35	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
Ethylbenzene	<9.4		13	9.4	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
Hexachlorobutadiene	<23		51	23	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
Isopropyl ether	<14		51	14	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
Isopropylbenzene	<20		51	20	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
Methyl tert-butyl ether	<20 *		51	20	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
Methylene Chloride	<83 *		260	83	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
Naphthalene	<17		51	17	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
n-Butylbenzene	<20		51	20	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
N-Propylbenzene	<21		51	21	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
p-Isopropyltoluene	<19		51	19	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Client Sample ID: 13-CENTRAL 0.5-2.5

Lab Sample ID: 500-186359-3

Date Collected: 08/12/20 10:00

Matrix: Solid

Date Received: 08/13/20 09:55

Percent Solids: 96.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<20		51	20	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
Styrene	<20		51	20	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
tert-Butylbenzene	<20		51	20	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
Tetrachloroethene	<19		51	19	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
Toluene	<7.5		13	7.5	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
trans-1,2-Dichloroethene	<18		51	18	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
trans-1,3-Dichloropropene	<19		51	19	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
Trichloroethene	<8.4		26	8.4	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
Trichlorofluoromethane	<22		51	22	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
Vinyl chloride	<13		51	13	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
Xylenes, Total	<11		26	11	ug/Kg	☼	08/12/20 10:00	08/18/20 01:30	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	122		75 - 126				08/12/20 10:00	08/18/20 01:30	50
4-Bromofluorobenzene (Surr)	98		72 - 124				08/12/20 10:00	08/18/20 01:30	50
Dibromofluoromethane (Surr)	111		75 - 120				08/12/20 10:00	08/18/20 01:30	50
Toluene-d8 (Surr)	97		75 - 120				08/12/20 10:00	08/18/20 01:30	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<7.9		66	7.9	ug/Kg	☼	08/17/20 06:17	08/17/20 23:53	1
2-Methylnaphthalene	<6.0		66	6.0	ug/Kg	☼	08/17/20 06:17	08/17/20 23:53	1
Acenaphthene	<5.9		32	5.9	ug/Kg	☼	08/17/20 06:17	08/17/20 23:53	1
Acenaphthylene	<4.3		32	4.3	ug/Kg	☼	08/17/20 06:17	08/17/20 23:53	1
Anthracene	<5.4		32	5.4	ug/Kg	☼	08/17/20 06:17	08/17/20 23:53	1
Benzo[a]anthracene	<4.4		32	4.4	ug/Kg	☼	08/17/20 06:17	08/17/20 23:53	1
Benzo[a]pyrene	<6.3		32	6.3	ug/Kg	☼	08/17/20 06:17	08/17/20 23:53	1
Benzo[b]fluoranthene	<7.0		32	7.0	ug/Kg	☼	08/17/20 06:17	08/17/20 23:53	1
Benzo[g,h,i]perylene	<10		32	10	ug/Kg	☼	08/17/20 06:17	08/17/20 23:53	1
Benzo[k]fluoranthene	<9.6		32	9.6	ug/Kg	☼	08/17/20 06:17	08/17/20 23:53	1
Chrysene	<8.9		32	8.9	ug/Kg	☼	08/17/20 06:17	08/17/20 23:53	1
Dibenz(a,h)anthracene	<6.3		32	6.3	ug/Kg	☼	08/17/20 06:17	08/17/20 23:53	1
Fluoranthene	27	J	32	6.0	ug/Kg	☼	08/17/20 06:17	08/17/20 23:53	1
Fluorene	<4.6		32	4.6	ug/Kg	☼	08/17/20 06:17	08/17/20 23:53	1
Indeno[1,2,3-cd]pyrene	<8.4		32	8.4	ug/Kg	☼	08/17/20 06:17	08/17/20 23:53	1
Naphthalene	<5.0		32	5.0	ug/Kg	☼	08/17/20 06:17	08/17/20 23:53	1
Phenanthrene	26	J	32	4.5	ug/Kg	☼	08/17/20 06:17	08/17/20 23:53	1
Pyrene	<6.5		32	6.5	ug/Kg	☼	08/17/20 06:17	08/17/20 23:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	76		43 - 145				08/17/20 06:17	08/17/20 23:53	1
Nitrobenzene-d5 (Surr)	76		37 - 147				08/17/20 06:17	08/17/20 23:53	1
Terphenyl-d14 (Surr)	79		42 - 157				08/17/20 06:17	08/17/20 23:53	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.68	J	0.94	0.32	mg/Kg	☼	08/17/20 18:11	08/18/20 11:32	1
Barium	6.1		0.94	0.11	mg/Kg	☼	08/17/20 18:11	08/18/20 11:32	1
Cadmium	0.065	J	0.19	0.034	mg/Kg	☼	08/17/20 18:11	08/18/20 11:32	1
Chromium	4.1	B	0.94	0.46	mg/Kg	☼	08/17/20 18:11	08/18/20 11:32	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Client Sample ID: 13-CENTRAL 0.5-2.5

Lab Sample ID: 500-186359-3

Date Collected: 08/12/20 10:00

Matrix: Solid

Date Received: 08/13/20 09:55

Percent Solids: 96.1

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.9		0.47	0.22	mg/Kg	☼	08/17/20 18:11	08/18/20 11:32	1
Selenium	<0.55		0.94	0.55	mg/Kg	☼	08/17/20 18:11	08/18/20 11:32	1
Silver	<0.12		0.47	0.12	mg/Kg	☼	08/17/20 18:11	08/18/20 11:32	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0057		0.017	0.0057	mg/Kg	☼	08/17/20 13:50	08/18/20 07:51	1



Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Client Sample ID: 13-CENTRAL 3-4

Lab Sample ID: 500-186359-4

Date Collected: 08/12/20 10:05

Matrix: Solid

Date Received: 08/13/20 09:55

Percent Solids: 95.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<24		52	24	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
1,1,1-Trichloroethane	<20		52	20	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
1,1,2,2-Tetrachloroethane	<21		52	21	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
1,1,2-Trichloroethane	<18		52	18	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
1,1-Dichloroethane	<21 *		52	21	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
1,1-Dichloroethene	<20		52	20	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
1,1-Dichloropropene	<15		52	15	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
1,2,3-Trichlorobenzene	<24		52	24	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
1,2,3-Trichloropropane	<21		100	21	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
1,2,4-Trichlorobenzene	<18		52	18	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
1,2,4-Trimethylbenzene	<19		52	19	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
1,2-Dibromo-3-Chloropropane	<100 *		260	100	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
1,2-Dibromoethane	<20 *		52	20	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
1,2-Dichlorobenzene	<17		52	17	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
1,2-Dichloroethane	<20 *		52	20	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
1,2-Dichloropropane	<22		52	22	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
1,3,5-Trimethylbenzene	<20		52	20	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
1,3-Dichlorobenzene	<21		52	21	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
1,3-Dichloropropane	<19		52	19	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
1,4-Dichlorobenzene	<19		52	19	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
2,2-Dichloropropane	<23		52	23	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
2-Chlorotoluene	<16		52	16	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
4-Chlorotoluene	<18		52	18	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
Benzene	<7.5 *		13	7.5	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
Bromobenzene	<18		52	18	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
Bromochloromethane	<22 *		52	22	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
Bromodichloromethane	<19 *		52	19	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
Bromoform	<25		52	25	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
Bromomethane	<41		160	41	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
Carbon tetrachloride	<20		52	20	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
Chlorobenzene	<20 *		52	20	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
Chloroethane	<26		52	26	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
Chloroform	<19 *		100	19	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
Chloromethane	<17		52	17	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
cis-1,2-Dichloroethene	<21 *		52	21	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
cis-1,3-Dichloropropene	<22		52	22	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
Dibromochloromethane	<25		52	25	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
Dibromomethane	<14 *		52	14	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
Dichlorodifluoromethane	<35		160	35	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
Ethylbenzene	<9.5		13	9.5	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
Hexachlorobutadiene	<23		52	23	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
Isopropyl ether	<14		52	14	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
Isopropylbenzene	<20		52	20	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
Methyl tert-butyl ether	<20 *		52	20	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
Methylene Chloride	<84 *		260	84	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
Naphthalene	<17		52	17	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
n-Butylbenzene	<20		52	20	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
N-Propylbenzene	<21		52	21	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
p-Isopropyltoluene	<19		52	19	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Client Sample ID: 13-CENTRAL 3-4

Lab Sample ID: 500-186359-4

Date Collected: 08/12/20 10:05

Matrix: Solid

Date Received: 08/13/20 09:55

Percent Solids: 95.9

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<21		52	21	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
Styrene	<20		52	20	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
tert-Butylbenzene	<21		52	21	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
Tetrachloroethene	<19		52	19	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
Toluene	<7.6		13	7.6	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
trans-1,2-Dichloroethene	<18		52	18	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
trans-1,3-Dichloropropene	<19		52	19	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
Trichloroethene	<8.5		26	8.5	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
Trichlorofluoromethane	<22		52	22	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
Vinyl chloride	<14		52	14	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50
Xylenes, Total	<11		26	11	ug/Kg	☼	08/12/20 10:05	08/18/20 01:57	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		75 - 126	08/12/20 10:05	08/18/20 01:57	50
4-Bromofluorobenzene (Surr)	95		72 - 124	08/12/20 10:05	08/18/20 01:57	50
Dibromofluoromethane (Surr)	112		75 - 120	08/12/20 10:05	08/18/20 01:57	50
Toluene-d8 (Surr)	99		75 - 120	08/12/20 10:05	08/18/20 01:57	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.3		69	8.3	ug/Kg	☼	08/17/20 06:17	08/18/20 00:19	1
2-Methylnaphthalene	<6.3		69	6.3	ug/Kg	☼	08/17/20 06:17	08/18/20 00:19	1
Acenaphthene	<6.1		34	6.1	ug/Kg	☼	08/17/20 06:17	08/18/20 00:19	1
Acenaphthylene	<4.5		34	4.5	ug/Kg	☼	08/17/20 06:17	08/18/20 00:19	1
Anthracene	<5.7		34	5.7	ug/Kg	☼	08/17/20 06:17	08/18/20 00:19	1
Benzo[a]anthracene	<4.6		34	4.6	ug/Kg	☼	08/17/20 06:17	08/18/20 00:19	1
Benzo[a]pyrene	<6.6		34	6.6	ug/Kg	☼	08/17/20 06:17	08/18/20 00:19	1
Benzo[b]fluoranthene	<7.4		34	7.4	ug/Kg	☼	08/17/20 06:17	08/18/20 00:19	1
Benzo[g,h,i]perylene	<11		34	11	ug/Kg	☼	08/17/20 06:17	08/18/20 00:19	1
Benzo[k]fluoranthene	<10		34	10	ug/Kg	☼	08/17/20 06:17	08/18/20 00:19	1
Chrysene	<9.3		34	9.3	ug/Kg	☼	08/17/20 06:17	08/18/20 00:19	1
Dibenz(a,h)anthracene	<6.6		34	6.6	ug/Kg	☼	08/17/20 06:17	08/18/20 00:19	1
Fluoranthene	<6.3		34	6.3	ug/Kg	☼	08/17/20 06:17	08/18/20 00:19	1
Fluorene	<4.8		34	4.8	ug/Kg	☼	08/17/20 06:17	08/18/20 00:19	1
Indeno[1,2,3-cd]pyrene	<8.9		34	8.9	ug/Kg	☼	08/17/20 06:17	08/18/20 00:19	1
Naphthalene	<5.3		34	5.3	ug/Kg	☼	08/17/20 06:17	08/18/20 00:19	1
Phenanthrene	<4.8		34	4.8	ug/Kg	☼	08/17/20 06:17	08/18/20 00:19	1
Pyrene	<6.8		34	6.8	ug/Kg	☼	08/17/20 06:17	08/18/20 00:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	62		43 - 145	08/17/20 06:17	08/18/20 00:19	1
Nitrobenzene-d5 (Surr)	60		37 - 147	08/17/20 06:17	08/18/20 00:19	1
Terphenyl-d14 (Surr)	66		42 - 157	08/17/20 06:17	08/18/20 00:19	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.73	J	0.93	0.32	mg/Kg	☼	08/17/20 18:11	08/18/20 11:44	1
Barium	6.3		0.93	0.11	mg/Kg	☼	08/17/20 18:11	08/18/20 11:44	1
Cadmium	0.037	J	0.19	0.033	mg/Kg	☼	08/17/20 18:11	08/18/20 11:44	1
Chromium	4.4	B	0.93	0.46	mg/Kg	☼	08/17/20 18:11	08/18/20 11:44	1

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Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Client Sample ID: 13-CENTRAL 3-4

Lab Sample ID: 500-186359-4

Date Collected: 08/12/20 10:05

Matrix: Solid

Date Received: 08/13/20 09:55

Percent Solids: 95.9

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.9		0.46	0.21	mg/Kg	☼	08/17/20 18:11	08/18/20 11:44	1
Selenium	<0.54		0.93	0.54	mg/Kg	☼	08/17/20 18:11	08/18/20 11:44	1
Silver	<0.12		0.46	0.12	mg/Kg	☼	08/17/20 18:11	08/18/20 11:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg	☼	08/17/20 13:50	08/18/20 07:53	1

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Client Sample ID: 13-CENTRAL 4-6

Lab Sample ID: 500-186359-5

Date Collected: 08/12/20 10:10

Matrix: Solid

Date Received: 08/13/20 09:55

Percent Solids: 92.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<25		54	25	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
1,1,1-Trichloroethane	<20		54	20	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
1,1,2,2-Tetrachloroethane	<21		54	21	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
1,1,2-Trichloroethane	<19		54	19	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
1,1-Dichloroethane	<22 *		54	22	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
1,1-Dichloroethene	<21		54	21	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
1,1-Dichloropropene	<16		54	16	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
1,2,3-Trichlorobenzene	<25		54	25	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
1,2,3-Trichloropropane	<22		110	22	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
1,2,4-Trichlorobenzene	<18		54	18	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
1,2,4-Trimethylbenzene	<19		54	19	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
1,2-Dibromo-3-Chloropropane	<110 *		270	110	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
1,2-Dibromoethane	<21 *		54	21	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
1,2-Dichlorobenzene	<18		54	18	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
1,2-Dichloroethane	<21 *		54	21	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
1,2-Dichloropropane	<23		54	23	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
1,3,5-Trimethylbenzene	<20		54	20	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
1,3-Dichlorobenzene	<22		54	22	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
1,3-Dichloropropane	<19		54	19	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
1,4-Dichlorobenzene	<20		54	20	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
2,2-Dichloropropane	<24		54	24	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
2-Chlorotoluene	<17		54	17	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
4-Chlorotoluene	<19		54	19	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
Benzene	<7.8 *		13	7.8	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
Bromobenzene	<19		54	19	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
Bromochloromethane	<23 *		54	23	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
Bromodichloromethane	<20 *		54	20	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
Bromoform	<26		54	26	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
Bromomethane	<43		160	43	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
Carbon tetrachloride	<21		54	21	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
Chlorobenzene	<21 *		54	21	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
Chloroethane	<27		54	27	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
Chloroform	<20 *		110	20	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
Chloromethane	<17		54	17	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
cis-1,2-Dichloroethene	<22 *		54	22	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
cis-1,3-Dichloropropene	<22		54	22	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
Dibromochloromethane	<26		54	26	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
Dibromomethane	<15 *		54	15	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
Dichlorodifluoromethane	<36		160	36	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
Ethylbenzene	<9.8		13	9.8	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
Hexachlorobutadiene	<24		54	24	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
Isopropyl ether	<15		54	15	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
Isopropylbenzene	<21		54	21	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
Methyl tert-butyl ether	<21 *		54	21	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
Methylene Chloride	<88 *		270	88	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
Naphthalene	<18		54	18	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
n-Butylbenzene	<21		54	21	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
N-Propylbenzene	<22		54	22	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
p-Isopropyltoluene	<19		54	19	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Client Sample ID: 13-CENTRAL 4-6

Lab Sample ID: 500-186359-5

Date Collected: 08/12/20 10:10

Matrix: Solid

Date Received: 08/13/20 09:55

Percent Solids: 92.4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<21		54	21	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
Styrene	<21		54	21	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
tert-Butylbenzene	<21		54	21	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
Tetrachloroethene	<20		54	20	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
Toluene	<7.9		13	7.9	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
trans-1,2-Dichloroethene	<19		54	19	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
trans-1,3-Dichloropropene	<19		54	19	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
Trichloroethene	<8.8		27	8.8	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
Trichlorofluoromethane	<23		54	23	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
Vinyl chloride	<14		54	14	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
Xylenes, Total	<12		27	12	ug/Kg	☼	08/12/20 10:10	08/18/20 02:24	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	123		75 - 126				08/12/20 10:10	08/18/20 02:24	50
4-Bromofluorobenzene (Surr)	98		72 - 124				08/12/20 10:10	08/18/20 02:24	50
Dibromofluoromethane (Surr)	109		75 - 120				08/12/20 10:10	08/18/20 02:24	50
Toluene-d8 (Surr)	100		75 - 120				08/12/20 10:10	08/18/20 02:24	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.5		70	8.5	ug/Kg	☼	08/17/20 06:17	08/18/20 20:43	1
2-Methylnaphthalene	<6.4		70	6.4	ug/Kg	☼	08/17/20 06:17	08/18/20 20:43	1
Acenaphthene	<6.2		35	6.2	ug/Kg	☼	08/17/20 06:17	08/18/20 20:43	1
Acenaphthylene	<4.6		35	4.6	ug/Kg	☼	08/17/20 06:17	08/18/20 20:43	1
Anthracene	<5.8		35	5.8	ug/Kg	☼	08/17/20 06:17	08/18/20 20:43	1
Benzo[a]anthracene	<4.7		35	4.7	ug/Kg	☼	08/17/20 06:17	08/18/20 20:43	1
Benzo[a]pyrene	<6.7		35	6.7	ug/Kg	☼	08/17/20 06:17	08/18/20 20:43	1
Benzo[b]fluoranthene	<7.5		35	7.5	ug/Kg	☼	08/17/20 06:17	08/18/20 20:43	1
Benzo[g,h,i]perylene	<11		35	11	ug/Kg	☼	08/17/20 06:17	08/18/20 20:43	1
Benzo[k]fluoranthene	<10		35	10	ug/Kg	☼	08/17/20 06:17	08/18/20 20:43	1
Chrysene	<9.5		35	9.5	ug/Kg	☼	08/17/20 06:17	08/18/20 20:43	1
Dibenz(a,h)anthracene	<6.7		35	6.7	ug/Kg	☼	08/17/20 06:17	08/18/20 20:43	1
Fluoranthene	<6.4		35	6.4	ug/Kg	☼	08/17/20 06:17	08/18/20 20:43	1
Fluorene	<4.9		35	4.9	ug/Kg	☼	08/17/20 06:17	08/18/20 20:43	1
Indeno[1,2,3-cd]pyrene	<9.0		35	9.0	ug/Kg	☼	08/17/20 06:17	08/18/20 20:43	1
Naphthalene	<5.3		35	5.3	ug/Kg	☼	08/17/20 06:17	08/18/20 20:43	1
Phenanthrene	<4.8		35	4.8	ug/Kg	☼	08/17/20 06:17	08/18/20 20:43	1
Pyrene	<6.9		35	6.9	ug/Kg	☼	08/17/20 06:17	08/18/20 20:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	66		43 - 145				08/17/20 06:17	08/18/20 20:43	1
Nitrobenzene-d5 (Surr)	69		37 - 147				08/17/20 06:17	08/18/20 20:43	1
Terphenyl-d14 (Surr)	72		42 - 157				08/17/20 06:17	08/18/20 20:43	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.95		0.93	0.32	mg/Kg	☼	08/17/20 18:11	08/18/20 11:48	1
Barium	6.6		0.93	0.11	mg/Kg	☼	08/17/20 18:11	08/18/20 11:48	1
Cadmium	0.064	J	0.19	0.033	mg/Kg	☼	08/17/20 18:11	08/18/20 11:48	1
Chromium	4.2	B	0.93	0.46	mg/Kg	☼	08/17/20 18:11	08/18/20 11:48	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Client Sample ID: 13-CENTRAL 4-6

Lab Sample ID: 500-186359-5

Date Collected: 08/12/20 10:10

Matrix: Solid

Date Received: 08/13/20 09:55

Percent Solids: 92.4

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.6		0.46	0.21	mg/Kg	☼	08/17/20 18:11	08/18/20 11:48	1
Selenium	<0.55		0.93	0.55	mg/Kg	☼	08/17/20 18:11	08/18/20 11:48	1
Silver	<0.12		0.46	0.12	mg/Kg	☼	08/17/20 18:11	08/18/20 11:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0055		0.016	0.0055	mg/Kg	☼	08/17/20 13:50	08/18/20 07:55	1

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Client Sample ID: 13-SOUTH 0.5-2

Lab Sample ID: 500-186359-6

Date Collected: 08/12/20 10:35

Matrix: Solid

Date Received: 08/13/20 09:55

Percent Solids: 84.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<32		69	32	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
1,1,1-Trichloroethane	<26		69	26	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
1,1,2,2-Tetrachloroethane	<27		69	27	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
1,1,2-Trichloroethane	<24		69	24	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
1,1-Dichloroethane	<28 *		69	28	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
1,1-Dichloroethene	<27		69	27	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
1,1-Dichloropropene	<20		69	20	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
1,2,3-Trichlorobenzene	<31		69	31	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
1,2,3-Trichloropropane	<28		140	28	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
1,2,4-Trichlorobenzene	<23		69	23	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
1,2,4-Trimethylbenzene	<25		69	25	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
1,2-Dibromo-3-Chloropropane	<140 *		340	140	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
1,2-Dibromoethane	<26 *		69	26	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
1,2-Dichlorobenzene	<23		69	23	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
1,2-Dichloroethane	<27 *		69	27	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
1,2-Dichloropropane	<29		69	29	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
1,3,5-Trimethylbenzene	<26		69	26	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
1,3-Dichlorobenzene	<27		69	27	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
1,3-Dichloropropane	<25		69	25	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
1,4-Dichlorobenzene	<25		69	25	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
2,2-Dichloropropane	<30		69	30	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
2-Chlorotoluene	<22		69	22	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
4-Chlorotoluene	<24		69	24	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
Benzene	<10 *		17	10	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
Bromobenzene	<24		69	24	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
Bromochloromethane	<29 *		69	29	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
Bromodichloromethane	<26 *		69	26	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
Bromoform	<33		69	33	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
Bromomethane	<55		210	55	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
Carbon tetrachloride	<26		69	26	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
Chlorobenzene	<26 *		69	26	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
Chloroethane	<35		69	35	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
Chloroform	<25 *		140	25	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
Chloromethane	<22		69	22	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
cis-1,2-Dichloroethene	<28 *		69	28	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
cis-1,3-Dichloropropene	<29		69	29	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
Dibromochloromethane	<33		69	33	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
Dibromomethane	<19 *		69	19	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
Dichlorodifluoromethane	<46		210	46	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
Ethylbenzene	<13		17	13	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
Hexachlorobutadiene	<31		69	31	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
Isopropyl ether	<19		69	19	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
Isopropylbenzene	<26		69	26	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
Methyl tert-butyl ether	<27 *		69	27	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
Methylene Chloride	<110 *		340	110	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
Naphthalene	<23		69	23	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
n-Butylbenzene	<27		69	27	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
N-Propylbenzene	<28		69	28	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
p-Isopropyltoluene	<25		69	25	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Client Sample ID: 13-SOUTH 0.5-2

Lab Sample ID: 500-186359-6

Date Collected: 08/12/20 10:35

Matrix: Solid

Date Received: 08/13/20 09:55

Percent Solids: 84.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<27		69	27	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
Styrene	<26		69	26	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
tert-Butylbenzene	<27		69	27	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
Tetrachloroethene	<25		69	25	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
Toluene	<10		17	10	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
trans-1,2-Dichloroethene	<24		69	24	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
trans-1,3-Dichloropropene	<25		69	25	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
Trichloroethene	<11		34	11	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
Trichlorofluoromethane	<29		69	29	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
Vinyl chloride	<18		69	18	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
Xylenes, Total	<15		34	15	ug/Kg	☼	08/12/20 10:35	08/18/20 02:52	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	123		75 - 126				08/12/20 10:35	08/18/20 02:52	50
4-Bromofluorobenzene (Surr)	95		72 - 124				08/12/20 10:35	08/18/20 02:52	50
Dibromofluoromethane (Surr)	110		75 - 120				08/12/20 10:35	08/18/20 02:52	50
Toluene-d8 (Surr)	100		75 - 120				08/12/20 10:35	08/18/20 02:52	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<9.2		76	9.2	ug/Kg	☼	08/17/20 06:17	08/18/20 21:05	1
2-Methylnaphthalene	<6.9		76	6.9	ug/Kg	☼	08/17/20 06:17	08/18/20 21:05	1
Acenaphthene	<6.7		37	6.7	ug/Kg	☼	08/17/20 06:17	08/18/20 21:05	1
Acenaphthylene	<4.9		37	4.9	ug/Kg	☼	08/17/20 06:17	08/18/20 21:05	1
Anthracene	<6.3		37	6.3	ug/Kg	☼	08/17/20 06:17	08/18/20 21:05	1
Benzo[a]anthracene	<5.0		37	5.0	ug/Kg	☼	08/17/20 06:17	08/18/20 21:05	1
Benzo[a]pyrene	<7.3		37	7.3	ug/Kg	☼	08/17/20 06:17	08/18/20 21:05	1
Benzo[b]fluoranthene	8.8 J		37	8.1	ug/Kg	☼	08/17/20 06:17	08/18/20 21:05	1
Benzo[g,h,i]perylene	<12		37	12	ug/Kg	☼	08/17/20 06:17	08/18/20 21:05	1
Benzo[k]fluoranthene	<11		37	11	ug/Kg	☼	08/17/20 06:17	08/18/20 21:05	1
Chrysene	<10		37	10	ug/Kg	☼	08/17/20 06:17	08/18/20 21:05	1
Dibenz(a,h)anthracene	<7.3		37	7.3	ug/Kg	☼	08/17/20 06:17	08/18/20 21:05	1
Fluoranthene	<7.0		37	7.0	ug/Kg	☼	08/17/20 06:17	08/18/20 21:05	1
Fluorene	<5.3		37	5.3	ug/Kg	☼	08/17/20 06:17	08/18/20 21:05	1
Indeno[1,2,3-cd]pyrene	<9.7		37	9.7	ug/Kg	☼	08/17/20 06:17	08/18/20 21:05	1
Naphthalene	<5.8		37	5.8	ug/Kg	☼	08/17/20 06:17	08/18/20 21:05	1
Phenanthrene	<5.2		37	5.2	ug/Kg	☼	08/17/20 06:17	08/18/20 21:05	1
Pyrene	<7.5		37	7.5	ug/Kg	☼	08/17/20 06:17	08/18/20 21:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	64		43 - 145				08/17/20 06:17	08/18/20 21:05	1
Nitrobenzene-d5 (Surr)	68		37 - 147				08/17/20 06:17	08/18/20 21:05	1
Terphenyl-d14 (Surr)	72		42 - 157				08/17/20 06:17	08/18/20 21:05	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.9		1.2	0.39	mg/Kg	☼	08/17/20 18:11	08/18/20 11:52	1
Barium	40		1.2	0.13	mg/Kg	☼	08/17/20 18:11	08/18/20 11:52	1
Cadmium	<0.042		0.23	0.042	mg/Kg	☼	08/17/20 18:11	08/18/20 11:52	1
Chromium	17 B		1.2	0.57	mg/Kg	☼	08/17/20 18:11	08/18/20 11:52	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Client Sample ID: 13-SOUTH 0.5-2

Lab Sample ID: 500-186359-6

Date Collected: 08/12/20 10:35

Matrix: Solid

Date Received: 08/13/20 09:55

Percent Solids: 84.6

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	7.7		0.58	0.27	mg/Kg	☼	08/17/20 18:11	08/18/20 11:52	1
Selenium	<0.68		1.2	0.68	mg/Kg	☼	08/17/20 18:11	08/18/20 11:52	1
Silver	<0.15		0.58	0.15	mg/Kg	☼	08/17/20 18:11	08/18/20 11:52	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.019	0.0062	mg/Kg	☼	08/17/20 13:50	08/18/20 07:56	1



Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Client Sample ID: 13-SOUTH 2-3.5

Lab Sample ID: 500-186359-7

Date Collected: 08/12/20 10:37

Matrix: Solid

Date Received: 08/13/20 09:55

Percent Solids: 87.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<30		64	30	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
1,1,1-Trichloroethane	<24		64	24	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
1,1,2,2-Tetrachloroethane	<26		64	26	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
1,1,2-Trichloroethane	<23		64	23	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
1,1-Dichloroethane	<26 *		64	26	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
1,1-Dichloroethene	<25		64	25	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
1,1-Dichloropropene	<19		64	19	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
1,2,3-Trichlorobenzene	<29		64	29	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
1,2,3-Trichloropropane	<27		130	27	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
1,2,4-Trichlorobenzene	<22		64	22	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
1,2,4-Trimethylbenzene	<23		64	23	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
1,2-Dibromo-3-Chloropropane	<130 *		320	130	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
1,2-Dibromoethane	<25 *		64	25	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
1,2-Dichlorobenzene	<22		64	22	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
1,2-Dichloroethane	<25 *		64	25	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
1,2-Dichloropropane	<28		64	28	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
1,3,5-Trimethylbenzene	<24		64	24	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
1,3-Dichlorobenzene	<26		64	26	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
1,3-Dichloropropane	<23		64	23	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
1,4-Dichlorobenzene	<23		64	23	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
2,2-Dichloropropane	<29		64	29	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
2-Chlorotoluene	<20		64	20	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
4-Chlorotoluene	<23		64	23	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
Benzene	<9.4 *		16	9.4	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
Bromobenzene	<23		64	23	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
Bromochloromethane	<28 *		64	28	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
Bromodichloromethane	<24 *		64	24	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
Bromoform	<31		64	31	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
Bromomethane	<51		190	51	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
Carbon tetrachloride	<25		64	25	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
Chlorobenzene	<25 *		64	25	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
Chloroethane	<32		64	32	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
Chloroform	<24 *		130	24	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
Chloromethane	<21		64	21	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
cis-1,2-Dichloroethene	<26 *		64	26	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
cis-1,3-Dichloropropene	<27		64	27	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
Dibromochloromethane	<31		64	31	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
Dibromomethane	<17 *		64	17	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
Dichlorodifluoromethane	<43		190	43	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
Ethylbenzene	<12		16	12	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
Hexachlorobutadiene	<29		64	29	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
Isopropyl ether	<18		64	18	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
Isopropylbenzene	<25		64	25	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
Methyl tert-butyl ether	<25 *		64	25	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
Methylene Chloride	<100 *		320	100	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
Naphthalene	<22		64	22	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
n-Butylbenzene	<25		64	25	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
N-Propylbenzene	<27		64	27	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
p-Isopropyltoluene	<23		64	23	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Client Sample ID: 13-SOUTH 2-3.5

Lab Sample ID: 500-186359-7

Date Collected: 08/12/20 10:37

Matrix: Solid

Date Received: 08/13/20 09:55

Percent Solids: 87.5

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<26		64	26	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
Styrene	<25		64	25	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
tert-Butylbenzene	<26		64	26	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
Tetrachloroethene	<24		64	24	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
Toluene	<9.5		16	9.5	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
trans-1,2-Dichloroethene	<23		64	23	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
trans-1,3-Dichloropropene	<23		64	23	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
Trichloroethene	<11		32	11	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
Trichlorofluoromethane	<28		64	28	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
Vinyl chloride	<17		64	17	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
Xylenes, Total	<14		32	14	ug/Kg	☼	08/12/20 10:37	08/18/20 03:19	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120		75 - 126				08/12/20 10:37	08/18/20 03:19	50
4-Bromofluorobenzene (Surr)	97		72 - 124				08/12/20 10:37	08/18/20 03:19	50
Dibromofluoromethane (Surr)	108		75 - 120				08/12/20 10:37	08/18/20 03:19	50
Toluene-d8 (Surr)	99		75 - 120				08/12/20 10:37	08/18/20 03:19	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<9.1		75	9.1	ug/Kg	☼	08/17/20 06:17	08/18/20 21:28	1
2-Methylnaphthalene	<6.9		75	6.9	ug/Kg	☼	08/17/20 06:17	08/18/20 21:28	1
Acenaphthene	<6.7		37	6.7	ug/Kg	☼	08/17/20 06:17	08/18/20 21:28	1
Acenaphthylene	<4.9		37	4.9	ug/Kg	☼	08/17/20 06:17	08/18/20 21:28	1
Anthracene	<6.3		37	6.3	ug/Kg	☼	08/17/20 06:17	08/18/20 21:28	1
Benzo[a]anthracene	<5.0		37	5.0	ug/Kg	☼	08/17/20 06:17	08/18/20 21:28	1
Benzo[a]pyrene	<7.2		37	7.2	ug/Kg	☼	08/17/20 06:17	08/18/20 21:28	1
Benzo[b]fluoranthene	<8.1		37	8.1	ug/Kg	☼	08/17/20 06:17	08/18/20 21:28	1
Benzo[g,h,i]perylene	<12		37	12	ug/Kg	☼	08/17/20 06:17	08/18/20 21:28	1
Benzo[k]fluoranthene	<11		37	11	ug/Kg	☼	08/17/20 06:17	08/18/20 21:28	1
Chrysene	<10		37	10	ug/Kg	☼	08/17/20 06:17	08/18/20 21:28	1
Dibenz(a,h)anthracene	<7.2		37	7.2	ug/Kg	☼	08/17/20 06:17	08/18/20 21:28	1
Fluoranthene	<6.9		37	6.9	ug/Kg	☼	08/17/20 06:17	08/18/20 21:28	1
Fluorene	<5.3		37	5.3	ug/Kg	☼	08/17/20 06:17	08/18/20 21:28	1
Indeno[1,2,3-cd]pyrene	<9.7		37	9.7	ug/Kg	☼	08/17/20 06:17	08/18/20 21:28	1
Naphthalene	<5.8		37	5.8	ug/Kg	☼	08/17/20 06:17	08/18/20 21:28	1
Phenanthrene	<5.2		37	5.2	ug/Kg	☼	08/17/20 06:17	08/18/20 21:28	1
Pyrene	<7.4		37	7.4	ug/Kg	☼	08/17/20 06:17	08/18/20 21:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	57		43 - 145				08/17/20 06:17	08/18/20 21:28	1
Nitrobenzene-d5 (Surr)	60		37 - 147				08/17/20 06:17	08/18/20 21:28	1
Terphenyl-d14 (Surr)	64		42 - 157				08/17/20 06:17	08/18/20 21:28	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.6		1.1	0.37	mg/Kg	☼	08/17/20 18:11	08/18/20 11:56	1
Barium	25		1.1	0.12	mg/Kg	☼	08/17/20 18:11	08/18/20 11:56	1
Cadmium	<0.039		0.22	0.039	mg/Kg	☼	08/17/20 18:11	08/18/20 11:56	1
Chromium	12	B	1.1	0.54	mg/Kg	☼	08/17/20 18:11	08/18/20 11:56	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Client Sample ID: 13-SOUTH 2-3.5

Lab Sample ID: 500-186359-7

Date Collected: 08/12/20 10:37

Matrix: Solid

Date Received: 08/13/20 09:55

Percent Solids: 87.5

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5.3		0.55	0.25	mg/Kg	☼	08/17/20 18:11	08/18/20 11:56	1
Selenium	<0.64		1.1	0.64	mg/Kg	☼	08/17/20 18:11	08/18/20 11:56	1
Silver	<0.14		0.55	0.14	mg/Kg	☼	08/17/20 18:11	08/18/20 11:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.018	0.0062	mg/Kg	☼	08/17/20 13:50	08/18/20 07:58	1

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Client Sample ID: 13-SOUTH 4-6

Lab Sample ID: 500-186359-8

Date Collected: 08/12/20 10:38

Matrix: Solid

Date Received: 08/13/20 09:55

Percent Solids: 85.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<31		66	31	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
1,1,1-Trichloroethane	<25		66	25	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
1,1,2,2-Tetrachloroethane	<26		66	26	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
1,1,2-Trichloroethane	<23		66	23	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
1,1-Dichloroethane	<27 *		66	27	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
1,1-Dichloroethene	<26		66	26	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
1,1-Dichloropropene	<20		66	20	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
1,2,3-Trichlorobenzene	<30		66	30	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
1,2,3-Trichloropropane	<27		130	27	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
1,2,4-Trichlorobenzene	<23		66	23	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
1,2,4-Trimethylbenzene	<24		66	24	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
1,2-Dibromo-3-Chloropropane	<130 *		330	130	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
1,2-Dibromoethane	<26 *		66	26	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
1,2-Dichlorobenzene	<22		66	22	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
1,2-Dichloroethane	<26 *		66	26	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
1,2-Dichloropropane	<28		66	28	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
1,3,5-Trimethylbenzene	<25		66	25	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
1,3-Dichlorobenzene	<26		66	26	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
1,3-Dichloropropane	<24		66	24	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
1,4-Dichlorobenzene	<24		66	24	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
2,2-Dichloropropane	<29		66	29	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
2-Chlorotoluene	<21		66	21	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
4-Chlorotoluene	<23		66	23	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
Benzene	<9.7 *		17	9.7	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
Bromobenzene	<24		66	24	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
Bromochloromethane	<28 *		66	28	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
Bromodichloromethane	<25 *		66	25	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
Bromoform	<32		66	32	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
Bromomethane	<53		200	53	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
Carbon tetrachloride	<25		66	25	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
Chlorobenzene	<26 *		66	26	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
Chloroethane	<33		66	33	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
Chloroform	<24 *		130	24	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
Chloromethane	<21		66	21	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
cis-1,2-Dichloroethene	<27 *		66	27	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
cis-1,3-Dichloropropene	<28		66	28	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
Dibromochloromethane	<32		66	32	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
Dibromomethane	<18 *		66	18	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
Dichlorodifluoromethane	<45		200	45	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
Ethylbenzene	<12		17	12	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
Hexachlorobutadiene	<30		66	30	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
Isopropyl ether	<18		66	18	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
Isopropylbenzene	<25		66	25	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
Methyl tert-butyl ether	<26 *		66	26	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
Methylene Chloride	<110 *		330	110	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
Naphthalene	<22		66	22	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
n-Butylbenzene	<26		66	26	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
N-Propylbenzene	<27		66	27	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
p-Isopropyltoluene	<24		66	24	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Client Sample ID: 13-SOUTH 4-6

Lab Sample ID: 500-186359-8

Date Collected: 08/12/20 10:38

Matrix: Solid

Date Received: 08/13/20 09:55

Percent Solids: 85.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<26		66	26	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
Styrene	<26		66	26	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
tert-Butylbenzene	<26		66	26	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
Tetrachloroethene	<24		66	24	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
Toluene	<9.7		17	9.7	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
trans-1,2-Dichloroethene	<23		66	23	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
trans-1,3-Dichloropropene	<24		66	24	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
Trichloroethene	<11		33	11	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
Trichlorofluoromethane	<28		66	28	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
Vinyl chloride	<17		66	17	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
Xylenes, Total	<15		33	15	ug/Kg	☼	08/12/20 10:38	08/18/20 03:46	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	122		75 - 126				08/12/20 10:38	08/18/20 03:46	50
4-Bromofluorobenzene (Surr)	97		72 - 124				08/12/20 10:38	08/18/20 03:46	50
Dibromofluoromethane (Surr)	110		75 - 120				08/12/20 10:38	08/18/20 03:46	50
Toluene-d8 (Surr)	98		75 - 120				08/12/20 10:38	08/18/20 03:46	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.9		74	8.9	ug/Kg	☼	08/17/20 06:17	08/18/20 21:50	1
2-Methylnaphthalene	<6.7		74	6.7	ug/Kg	☼	08/17/20 06:17	08/18/20 21:50	1
Acenaphthene	<6.5		36	6.5	ug/Kg	☼	08/17/20 06:17	08/18/20 21:50	1
Acenaphthylene	<4.8		36	4.8	ug/Kg	☼	08/17/20 06:17	08/18/20 21:50	1
Anthracene	<6.1		36	6.1	ug/Kg	☼	08/17/20 06:17	08/18/20 21:50	1
Benzo[a]anthracene	<4.9		36	4.9	ug/Kg	☼	08/17/20 06:17	08/18/20 21:50	1
Benzo[a]pyrene	<7.1		36	7.1	ug/Kg	☼	08/17/20 06:17	08/18/20 21:50	1
Benzo[b]fluoranthene	<7.9		36	7.9	ug/Kg	☼	08/17/20 06:17	08/18/20 21:50	1
Benzo[g,h,i]perylene	<12		36	12	ug/Kg	☼	08/17/20 06:17	08/18/20 21:50	1
Benzo[k]fluoranthene	<11		36	11	ug/Kg	☼	08/17/20 06:17	08/18/20 21:50	1
Chrysene	<9.9		36	9.9	ug/Kg	☼	08/17/20 06:17	08/18/20 21:50	1
Dibenz(a,h)anthracene	<7.0		36	7.0	ug/Kg	☼	08/17/20 06:17	08/18/20 21:50	1
Fluoranthene	<6.8		36	6.8	ug/Kg	☼	08/17/20 06:17	08/18/20 21:50	1
Fluorene	<5.1		36	5.1	ug/Kg	☼	08/17/20 06:17	08/18/20 21:50	1
Indeno[1,2,3-cd]pyrene	<9.4		36	9.4	ug/Kg	☼	08/17/20 06:17	08/18/20 21:50	1
Naphthalene	<5.6		36	5.6	ug/Kg	☼	08/17/20 06:17	08/18/20 21:50	1
Phenanthrene	<5.1		36	5.1	ug/Kg	☼	08/17/20 06:17	08/18/20 21:50	1
Pyrene	<7.2		36	7.2	ug/Kg	☼	08/17/20 06:17	08/18/20 21:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	47		43 - 145				08/17/20 06:17	08/18/20 21:50	1
Nitrobenzene-d5 (Surr)	48		37 - 147				08/17/20 06:17	08/18/20 21:50	1
Terphenyl-d14 (Surr)	60		42 - 157				08/17/20 06:17	08/18/20 21:50	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0		1.1	0.39	mg/Kg	☼	08/17/20 18:11	08/18/20 12:00	1
Barium	29		1.1	0.13	mg/Kg	☼	08/17/20 18:11	08/18/20 12:00	1
Cadmium	<0.041		0.23	0.041	mg/Kg	☼	08/17/20 18:11	08/18/20 12:00	1
Chromium	14 B		1.1	0.56	mg/Kg	☼	08/17/20 18:11	08/18/20 12:00	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Client Sample ID: 13-SOUTH 4-6

Lab Sample ID: 500-186359-8

Date Collected: 08/12/20 10:38

Matrix: Solid

Date Received: 08/13/20 09:55

Percent Solids: 85.3

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5.2		0.57	0.26	mg/Kg	☼	08/17/20 18:11	08/18/20 12:00	1
Selenium	<0.67		1.1	0.67	mg/Kg	☼	08/17/20 18:11	08/18/20 12:00	1
Silver	<0.15		0.57	0.15	mg/Kg	☼	08/17/20 18:11	08/18/20 12:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.018	0.0060	mg/Kg	☼	08/17/20 13:50	08/18/20 08:06	1



Definitions/Glossary

Client: Stantec Consulting Corp.
 Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Stantec Consulting Corp.
 Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

GC/MS VOA

Prep Batch: 557063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-186359-1	13-NORTH 0.5-2	Total/NA	Solid	5035	
500-186359-2	13-NORTH 2-6	Total/NA	Solid	5035	
500-186359-3	13-CENTRAL 0.5-2.5	Total/NA	Solid	5035	
500-186359-4	13-CENTRAL 3-4	Total/NA	Solid	5035	
500-186359-5	13-CENTRAL 4-6	Total/NA	Solid	5035	
500-186359-6	13-SOUTH 0.5-2	Total/NA	Solid	5035	
500-186359-7	13-SOUTH 2-3.5	Total/NA	Solid	5035	
500-186359-8	13-SOUTH 4-6	Total/NA	Solid	5035	
LB3 500-557063/9-A	Method Blank	Total/NA	Solid	5035	
LCS 500-557063/10-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 557252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-186359-1	13-NORTH 0.5-2	Total/NA	Solid	8260B	557063
500-186359-2	13-NORTH 2-6	Total/NA	Solid	8260B	557063
500-186359-3	13-CENTRAL 0.5-2.5	Total/NA	Solid	8260B	557063
500-186359-4	13-CENTRAL 3-4	Total/NA	Solid	8260B	557063
500-186359-5	13-CENTRAL 4-6	Total/NA	Solid	8260B	557063
500-186359-6	13-SOUTH 0.5-2	Total/NA	Solid	8260B	557063
500-186359-7	13-SOUTH 2-3.5	Total/NA	Solid	8260B	557063
500-186359-8	13-SOUTH 4-6	Total/NA	Solid	8260B	557063
LB3 500-557063/9-A	Method Blank	Total/NA	Solid	8260B	557063
MB 500-557252/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-557063/10-A	Lab Control Sample	Total/NA	Solid	8260B	557063
LCS 500-557252/4	Lab Control Sample	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 557088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-186359-1	13-NORTH 0.5-2	Total/NA	Solid	3541	
500-186359-2	13-NORTH 2-6	Total/NA	Solid	3541	
500-186359-3	13-CENTRAL 0.5-2.5	Total/NA	Solid	3541	
500-186359-4	13-CENTRAL 3-4	Total/NA	Solid	3541	
500-186359-5	13-CENTRAL 4-6	Total/NA	Solid	3541	
500-186359-6	13-SOUTH 0.5-2	Total/NA	Solid	3541	
500-186359-7	13-SOUTH 2-3.5	Total/NA	Solid	3541	
500-186359-8	13-SOUTH 4-6	Total/NA	Solid	3541	
MB 500-557088/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-557088/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 557246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-186359-1	13-NORTH 0.5-2	Total/NA	Solid	8270D	557088
500-186359-2	13-NORTH 2-6	Total/NA	Solid	8270D	557088
500-186359-3	13-CENTRAL 0.5-2.5	Total/NA	Solid	8270D	557088
500-186359-4	13-CENTRAL 3-4	Total/NA	Solid	8270D	557088
MB 500-557088/1-A	Method Blank	Total/NA	Solid	8270D	557088
LCS 500-557088/2-A	Lab Control Sample	Total/NA	Solid	8270D	557088

QC Association Summary

Client: Stantec Consulting Corp.
Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

GC/MS Semi VOA

Analysis Batch: 557446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-186359-5	13-CENTRAL 4-6	Total/NA	Solid	8270D	557088
500-186359-6	13-SOUTH 0.5-2	Total/NA	Solid	8270D	557088
500-186359-7	13-SOUTH 2-3.5	Total/NA	Solid	8270D	557088
500-186359-8	13-SOUTH 4-6	Total/NA	Solid	8270D	557088

Metals

Prep Batch: 557202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-186359-1	13-NORTH 0.5-2	Total/NA	Solid	7471B	
500-186359-2	13-NORTH 2-6	Total/NA	Solid	7471B	
500-186359-3	13-CENTRAL 0.5-2.5	Total/NA	Solid	7471B	
500-186359-4	13-CENTRAL 3-4	Total/NA	Solid	7471B	
500-186359-5	13-CENTRAL 4-6	Total/NA	Solid	7471B	
500-186359-6	13-SOUTH 0.5-2	Total/NA	Solid	7471B	
500-186359-7	13-SOUTH 2-3.5	Total/NA	Solid	7471B	
500-186359-8	13-SOUTH 4-6	Total/NA	Solid	7471B	
MB 500-557202/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-557202/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-186359-1 MS	13-NORTH 0.5-2	Total/NA	Solid	7471B	
500-186359-1 MSD	13-NORTH 0.5-2	Total/NA	Solid	7471B	
500-186359-1 DU	13-NORTH 0.5-2	Total/NA	Solid	7471B	

Prep Batch: 557260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-186359-1	13-NORTH 0.5-2	Total/NA	Solid	3050B	
500-186359-2	13-NORTH 2-6	Total/NA	Solid	3050B	
500-186359-3	13-CENTRAL 0.5-2.5	Total/NA	Solid	3050B	
500-186359-4	13-CENTRAL 3-4	Total/NA	Solid	3050B	
500-186359-5	13-CENTRAL 4-6	Total/NA	Solid	3050B	
500-186359-6	13-SOUTH 0.5-2	Total/NA	Solid	3050B	
500-186359-7	13-SOUTH 2-3.5	Total/NA	Solid	3050B	
500-186359-8	13-SOUTH 4-6	Total/NA	Solid	3050B	
MB 500-557260/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-557260/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 557387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-186359-1	13-NORTH 0.5-2	Total/NA	Solid	7471B	557202
500-186359-2	13-NORTH 2-6	Total/NA	Solid	7471B	557202
500-186359-3	13-CENTRAL 0.5-2.5	Total/NA	Solid	7471B	557202
500-186359-4	13-CENTRAL 3-4	Total/NA	Solid	7471B	557202
500-186359-5	13-CENTRAL 4-6	Total/NA	Solid	7471B	557202
500-186359-6	13-SOUTH 0.5-2	Total/NA	Solid	7471B	557202
500-186359-7	13-SOUTH 2-3.5	Total/NA	Solid	7471B	557202
500-186359-8	13-SOUTH 4-6	Total/NA	Solid	7471B	557202
MB 500-557202/12-A	Method Blank	Total/NA	Solid	7471B	557202
LCS 500-557202/13-A	Lab Control Sample	Total/NA	Solid	7471B	557202
500-186359-1 MS	13-NORTH 0.5-2	Total/NA	Solid	7471B	557202
500-186359-1 MSD	13-NORTH 0.5-2	Total/NA	Solid	7471B	557202
500-186359-1 DU	13-NORTH 0.5-2	Total/NA	Solid	7471B	557202

QC Association Summary

Client: Stantec Consulting Corp.
Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Metals

Analysis Batch: 557412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-186359-1	13-NORTH 0.5-2	Total/NA	Solid	6010C	557260
500-186359-2	13-NORTH 2-6	Total/NA	Solid	6010C	557260
500-186359-3	13-CENTRAL 0.5-2.5	Total/NA	Solid	6010C	557260
500-186359-4	13-CENTRAL 3-4	Total/NA	Solid	6010C	557260
500-186359-5	13-CENTRAL 4-6	Total/NA	Solid	6010C	557260
500-186359-6	13-SOUTH 0.5-2	Total/NA	Solid	6010C	557260
500-186359-7	13-SOUTH 2-3.5	Total/NA	Solid	6010C	557260
500-186359-8	13-SOUTH 4-6	Total/NA	Solid	6010C	557260
MB 500-557260/1-A	Method Blank	Total/NA	Solid	6010C	557260
LCS 500-557260/2-A	Lab Control Sample	Total/NA	Solid	6010C	557260

General Chemistry

Analysis Batch: 557193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-186359-1	13-NORTH 0.5-2	Total/NA	Solid	Moisture	
500-186359-2	13-NORTH 2-6	Total/NA	Solid	Moisture	
500-186359-3	13-CENTRAL 0.5-2.5	Total/NA	Solid	Moisture	
500-186359-4	13-CENTRAL 3-4	Total/NA	Solid	Moisture	
500-186359-5	13-CENTRAL 4-6	Total/NA	Solid	Moisture	
500-186359-6	13-SOUTH 0.5-2	Total/NA	Solid	Moisture	
500-186359-7	13-SOUTH 2-3.5	Total/NA	Solid	Moisture	
500-186359-8	13-SOUTH 4-6	Total/NA	Solid	Moisture	
500-186359-1 DU	13-NORTH 0.5-2	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Stantec Consulting Corp.
Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA (75-126)	BFB (72-124)	DBFM (75-120)	TOL (75-120)
500-186359-1	13-NORTH 0.5-2	119	97	108	100
500-186359-2	13-NORTH 2-6	122	98	111	97
500-186359-3	13-CENTRAL 0.5-2.5	122	98	111	97
500-186359-4	13-CENTRAL 3-4	119	95	112	99
500-186359-5	13-CENTRAL 4-6	123	98	109	100
500-186359-6	13-SOUTH 0.5-2	123	95	110	100
500-186359-7	13-SOUTH 2-3.5	120	97	108	99
500-186359-8	13-SOUTH 4-6	122	97	110	98
LB3 500-557063/9-A	Method Blank	121	96	112	98
LCS 500-557063/10-A	Lab Control Sample	126	99	114	97
LCS 500-557252/4	Lab Control Sample	114	97	108	99
MB 500-557252/6	Method Blank	117	92	113	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP (43-145)	NBZ (37-147)	TPHL (42-157)
500-186359-1	13-NORTH 0.5-2	70	71	80
500-186359-2	13-NORTH 2-6	70	71	78
500-186359-3	13-CENTRAL 0.5-2.5	76	76	79
500-186359-4	13-CENTRAL 3-4	62	60	66
500-186359-5	13-CENTRAL 4-6	66	69	72
500-186359-6	13-SOUTH 0.5-2	64	68	72
500-186359-7	13-SOUTH 2-3.5	57	60	64
500-186359-8	13-SOUTH 4-6	47	48	60
LCS 500-557088/2-A	Lab Control Sample	98	107	114
MB 500-557088/1-A	Method Blank	91	102	117

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)

NBZ = Nitrobenzene-d5 (Surr)

TPHL = Terphenyl-d14 (Surr)

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LB3 500-557063/9-A
Matrix: Solid
Analysis Batch: 557252

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 557063

Analyte	LB3	LB3	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
1,1-Dichloroethane	<21		50	21	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
1,1-Dichloroethene	<20		50	20	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
1,1-Dichloropropene	<15		50	15	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
1,2,3-Trichloropropane	<21		100	21	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
1,2-Dibromoethane	<19		50	19	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
1,2-Dichloroethane	<20		50	20	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
1,2-Dichloropropane	<21		50	21	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
1,3-Dichloropropane	<18		50	18	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
2,2-Dichloropropane	<22		50	22	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
2-Chlorotoluene	<16		50	16	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
4-Chlorotoluene	<18		50	18	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
Benzene	<7.3		13	7.3	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
Bromobenzene	<18		50	18	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
Bromochloromethane	<21		50	21	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
Bromodichloromethane	<19		50	19	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
Bromoform	<24		50	24	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
Bromomethane	<40		150	40	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
Carbon tetrachloride	<19		50	19	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
Chlorobenzene	<19		50	19	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
Chloroethane	<25		50	25	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
Chloroform	<19		100	19	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
Chloromethane	<16		50	16	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
Dibromochloromethane	<24		50	24	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
Dibromomethane	<14		50	14	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
Dichlorodifluoromethane	<34		150	34	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
Hexachlorobutadiene	<22		50	22	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
Isopropyl ether	<14		50	14	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
Isopropylbenzene	<19		50	19	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
Methylene Chloride	<82		250	82	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
Naphthalene	<17		50	17	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
n-Butylbenzene	<19		50	19	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
N-Propylbenzene	<21		50	21	ug/Kg		08/16/20 20:30	08/18/20 05:33	50

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QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB3 500-557063/9-A
Matrix: Solid
Analysis Batch: 557252

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 557063

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<18		50	18	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
sec-Butylbenzene	<20		50	20	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
Styrene	<19		50	19	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
tert-Butylbenzene	<20		50	20	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
Tetrachloroethene	<19		50	19	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
Toluene	<7.4		13	7.4	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
Trichloroethene	<8.2		25	8.2	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
Trichlorofluoromethane	<21		50	21	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
Vinyl chloride	<13		50	13	ug/Kg		08/16/20 20:30	08/18/20 05:33	50
Xylenes, Total	<11		25	11	ug/Kg		08/16/20 20:30	08/18/20 05:33	50

Surrogate	LB3 %Recovery	LB3 Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121		75 - 126	08/16/20 20:30	08/18/20 05:33	50
4-Bromofluorobenzene (Surr)	96		72 - 124	08/16/20 20:30	08/18/20 05:33	50
Dibromofluoromethane (Surr)	112		75 - 120	08/16/20 20:30	08/18/20 05:33	50
Toluene-d8 (Surr)	98		75 - 120	08/16/20 20:30	08/18/20 05:33	50

Lab Sample ID: LCS 500-557063/10-A
Matrix: Solid
Analysis Batch: 557252

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 557063

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,1,1,2-Tetrachloroethane	2500	3130		ug/Kg		125	70 - 125
1,1,1-Trichloroethane	2500	3060		ug/Kg		122	70 - 125
1,1,1,2-Tetrachloroethane	2500	3160		ug/Kg		126	62 - 140
1,1,2-Trichloroethane	2500	3060		ug/Kg		122	71 - 130
1,1-Dichloroethane	2500	3160	*	ug/Kg		126	70 - 125
1,1-Dichloroethene	2500	2800		ug/Kg		112	67 - 122
1,1-Dichloropropene	2500	2860		ug/Kg		114	70 - 121
1,2,3-Trichlorobenzene	2500	2960		ug/Kg		118	51 - 145
1,2,3-Trichloropropane	2500	3150		ug/Kg		126	50 - 133
1,2,4-Trichlorobenzene	2500	2680		ug/Kg		107	57 - 137
1,2,4-Trimethylbenzene	2500	2960		ug/Kg		118	70 - 123
1,2-Dibromo-3-Chloropropane	2500	3380	*	ug/Kg		135	56 - 123
1,2-Dibromoethane	2500	3240	*	ug/Kg		129	70 - 125
1,2-Dichlorobenzene	2500	3100		ug/Kg		124	70 - 125
1,2-Dichloroethane	2500	3650	*	ug/Kg		146	68 - 127
1,2-Dichloropropane	2500	3150		ug/Kg		126	67 - 130
1,3,5-Trimethylbenzene	2500	2930		ug/Kg		117	70 - 123
1,3-Dichlorobenzene	2500	2880		ug/Kg		115	70 - 125
1,3-Dichloropropane	2500	3110		ug/Kg		124	62 - 136
1,4-Dichlorobenzene	2500	2890		ug/Kg		116	70 - 120
2,2-Dichloropropane	2500	2850		ug/Kg		114	58 - 139
2-Chlorotoluene	2500	2930		ug/Kg		117	70 - 125
4-Chlorotoluene	2500	2910		ug/Kg		117	68 - 124
Benzene	2500	3190	*	ug/Kg		127	70 - 120

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QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-557063/10-A
Matrix: Solid
Analysis Batch: 557252

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 557063

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	2500	2940		ug/Kg		118	70 - 122
Bromochloromethane	2500	3310	*	ug/Kg		133	65 - 122
Bromodichloromethane	2500	3300	*	ug/Kg		132	69 - 120
Bromoform	2500	2960		ug/Kg		118	56 - 132
Bromomethane	2500	3640		ug/Kg		146	40 - 152
Carbon tetrachloride	2500	2930		ug/Kg		117	59 - 133
Chlorobenzene	2500	3030	*	ug/Kg		121	70 - 120
Chloroethane	2500	2690		ug/Kg		107	48 - 136
Chloroform	2500	3280	*	ug/Kg		131	70 - 120
Chloromethane	2500	2230		ug/Kg		89	56 - 152
cis-1,2-Dichloroethene	2500	3220	*	ug/Kg		129	70 - 125
cis-1,3-Dichloropropene	2500	2980		ug/Kg		119	64 - 127
Dibromochloromethane	2500	3110		ug/Kg		125	68 - 125
Dibromomethane	2500	3440	*	ug/Kg		137	70 - 120
Dichlorodifluoromethane	2500	1470		ug/Kg		59	40 - 159
Ethylbenzene	2500	2920		ug/Kg		117	70 - 123
Hexachlorobutadiene	2500	2520		ug/Kg		101	51 - 150
Isopropylbenzene	2500	2890		ug/Kg		116	70 - 126
Methyl tert-butyl ether	2500	3550	*	ug/Kg		142	55 - 123
Methylene Chloride	2500	3290	*	ug/Kg		132	69 - 125
Naphthalene	2500	3100		ug/Kg		124	53 - 144
n-Butylbenzene	2500	2660		ug/Kg		106	68 - 125
N-Propylbenzene	2500	2790		ug/Kg		112	69 - 127
p-Isopropyltoluene	2500	2690		ug/Kg		108	70 - 125
sec-Butylbenzene	2500	2860		ug/Kg		114	70 - 123
Styrene	2500	3010		ug/Kg		120	70 - 120
tert-Butylbenzene	2500	2870		ug/Kg		115	70 - 121
Tetrachloroethene	2500	2640		ug/Kg		106	70 - 128
Toluene	2500	2950		ug/Kg		118	70 - 125
trans-1,2-Dichloroethene	2500	3000		ug/Kg		120	70 - 125
trans-1,3-Dichloropropene	2500	2910		ug/Kg		117	62 - 128
Trichloroethene	2500	3090		ug/Kg		124	70 - 125
Trichlorofluoromethane	2500	2790		ug/Kg		111	55 - 128
Vinyl chloride	2500	2350		ug/Kg		94	64 - 126
Xylenes, Total	5000	5890		ug/Kg		118	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	126		75 - 126
4-Bromofluorobenzene (Surr)	99		72 - 124
Dibromofluoromethane (Surr)	114		75 - 120
Toluene-d8 (Surr)	97		75 - 120

Lab Sample ID: MB 500-557252/6
Matrix: Solid
Analysis Batch: 557252

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			08/17/20 21:24	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-557252/6
Matrix: Solid
Analysis Batch: 557252

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			08/17/20 21:24	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			08/17/20 21:24	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			08/17/20 21:24	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			08/17/20 21:24	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			08/17/20 21:24	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			08/17/20 21:24	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			08/17/20 21:24	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			08/17/20 21:24	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			08/17/20 21:24	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			08/17/20 21:24	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			08/17/20 21:24	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			08/17/20 21:24	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			08/17/20 21:24	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			08/17/20 21:24	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			08/17/20 21:24	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			08/17/20 21:24	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			08/17/20 21:24	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			08/17/20 21:24	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			08/17/20 21:24	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			08/17/20 21:24	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			08/17/20 21:24	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			08/17/20 21:24	1
Benzene	<0.15		0.25	0.15	ug/Kg			08/17/20 21:24	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			08/17/20 21:24	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			08/17/20 21:24	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			08/17/20 21:24	1
Bromoform	<0.48		1.0	0.48	ug/Kg			08/17/20 21:24	1
Bromomethane	<0.80		3.0	0.80	ug/Kg			08/17/20 21:24	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			08/17/20 21:24	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			08/17/20 21:24	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			08/17/20 21:24	1
Chloroform	<0.37		2.0	0.37	ug/Kg			08/17/20 21:24	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			08/17/20 21:24	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			08/17/20 21:24	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			08/17/20 21:24	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			08/17/20 21:24	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			08/17/20 21:24	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/Kg			08/17/20 21:24	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			08/17/20 21:24	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			08/17/20 21:24	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			08/17/20 21:24	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			08/17/20 21:24	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			08/17/20 21:24	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			08/17/20 21:24	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			08/17/20 21:24	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			08/17/20 21:24	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			08/17/20 21:24	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			08/17/20 21:24	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			08/17/20 21:24	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-557252/6
Matrix: Solid
Analysis Batch: 557252

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Styrene	<0.39		1.0	0.39	ug/Kg			08/17/20 21:24	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			08/17/20 21:24	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			08/17/20 21:24	1
Toluene	<0.15		0.25	0.15	ug/Kg			08/17/20 21:24	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			08/17/20 21:24	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			08/17/20 21:24	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			08/17/20 21:24	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			08/17/20 21:24	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			08/17/20 21:24	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			08/17/20 21:24	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	117		75 - 126		08/17/20 21:24	1
4-Bromofluorobenzene (Surr)	92		72 - 124		08/17/20 21:24	1
Dibromofluoromethane (Surr)	113		75 - 120		08/17/20 21:24	1
Toluene-d8 (Surr)	100		75 - 120		08/17/20 21:24	1

Lab Sample ID: LCS 500-557252/4
Matrix: Solid
Analysis Batch: 557252

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	51.3		ug/Kg		103	70 - 125
1,1,2,2-Tetrachloroethane	50.0	45.4		ug/Kg		91	62 - 140
1,1,2-Trichloroethane	50.0	46.3		ug/Kg		93	71 - 130
1,1-Dichloroethane	50.0	50.4		ug/Kg		101	70 - 125
1,1-Dichloroethene	50.0	50.1		ug/Kg		100	67 - 122
1,1-Dichloropropene	50.0	51.5		ug/Kg		103	70 - 121
1,2,3-Trichlorobenzene	50.0	47.2		ug/Kg		94	51 - 145
1,2,3-Trichloropropane	50.0	45.8		ug/Kg		92	50 - 133
1,2,4-Trichlorobenzene	50.0	46.9		ug/Kg		94	57 - 137
1,2,4-Trimethylbenzene	50.0	47.8		ug/Kg		96	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	47.0		ug/Kg		94	56 - 123
1,2-Dibromoethane	50.0	49.8		ug/Kg		100	70 - 125
1,2-Dichlorobenzene	50.0	47.5		ug/Kg		95	70 - 125
1,2-Dichloroethane	50.0	54.9		ug/Kg		110	68 - 127
1,2-Dichloropropane	50.0	47.4		ug/Kg		95	67 - 130
1,3,5-Trimethylbenzene	50.0	48.6		ug/Kg		97	70 - 123
1,3-Dichlorobenzene	50.0	46.5		ug/Kg		93	70 - 125
1,3-Dichloropropane	50.0	48.6		ug/Kg		97	62 - 136
1,4-Dichlorobenzene	50.0	45.6		ug/Kg		91	70 - 120
2,2-Dichloropropane	50.0	50.6		ug/Kg		101	58 - 139
2-Chlorotoluene	50.0	47.6		ug/Kg		95	70 - 125
4-Chlorotoluene	50.0	47.2		ug/Kg		94	68 - 124
Benzene	50.0	50.7		ug/Kg		101	70 - 120
Bromobenzene	50.0	44.7		ug/Kg		89	70 - 122
Bromochloromethane	50.0	48.5		ug/Kg		97	65 - 122

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Stantec Consulting Corp.
Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-557252/4

Matrix: Solid

Analysis Batch: 557252

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromodichloromethane	50.0	50.6		ug/Kg		101	69 - 120
Bromoform	50.0	44.4		ug/Kg		89	56 - 132
Bromomethane	50.0	66.0		ug/Kg		132	40 - 152
Carbon tetrachloride	50.0	51.5		ug/Kg		103	59 - 133
Chlorobenzene	50.0	49.8		ug/Kg		100	70 - 120
Chloroethane	50.0	57.2		ug/Kg		114	48 - 136
Chloroform	50.0	50.2		ug/Kg		100	70 - 120
Chloromethane	50.0	46.6		ug/Kg		93	56 - 152
cis-1,2-Dichloroethene	50.0	50.9		ug/Kg		102	70 - 125
cis-1,3-Dichloropropene	50.0	48.3		ug/Kg		97	64 - 127
Dibromochloromethane	50.0	47.1		ug/Kg		94	68 - 125
Dibromomethane	50.0	50.6		ug/Kg		101	70 - 120
Dichlorodifluoromethane	50.0	44.6		ug/Kg		89	40 - 159
Ethylbenzene	50.0	50.2		ug/Kg		100	70 - 123
Hexachlorobutadiene	50.0	45.1		ug/Kg		90	51 - 150
Isopropylbenzene	50.0	48.2		ug/Kg		96	70 - 126
Methyl tert-butyl ether	50.0	51.9		ug/Kg		104	55 - 123
Methylene Chloride	50.0	50.7		ug/Kg		101	69 - 125
Naphthalene	50.0	44.8		ug/Kg		90	53 - 144
n-Butylbenzene	50.0	49.7		ug/Kg		99	68 - 125
N-Propylbenzene	50.0	48.4		ug/Kg		97	69 - 127
p-Isopropyltoluene	50.0	47.4		ug/Kg		95	70 - 125
sec-Butylbenzene	50.0	49.3		ug/Kg		99	70 - 123
Styrene	50.0	48.8		ug/Kg		98	70 - 120
tert-Butylbenzene	50.0	48.0		ug/Kg		96	70 - 121
Tetrachloroethene	50.0	48.0		ug/Kg		96	70 - 128
Toluene	50.0	48.7		ug/Kg		97	70 - 125
trans-1,2-Dichloroethene	50.0	52.1		ug/Kg		104	70 - 125
trans-1,3-Dichloropropene	50.0	47.5		ug/Kg		95	62 - 128
Trichloroethene	50.0	49.9		ug/Kg		100	70 - 125
Trichlorofluoromethane	50.0	56.0		ug/Kg		112	55 - 128
Vinyl chloride	50.0	48.0		ug/Kg		96	64 - 126
Xylenes, Total	100	98.3		ug/Kg		98	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	114		75 - 126
4-Bromofluorobenzene (Surr)	97		72 - 124
Dibromofluoromethane (Surr)	108		75 - 120
Toluene-d8 (Surr)	99		75 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-557088/1-A

Matrix: Solid

Analysis Batch: 557246

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 557088

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.1		67	8.1	ug/Kg		08/17/20 06:17	08/17/20 20:54	1
2-Methylnaphthalene	<6.1		67	6.1	ug/Kg		08/17/20 06:17	08/17/20 20:54	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-557088/1-A
Matrix: Solid
Analysis Batch: 557246

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 557088

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<6.0		33	6.0	ug/Kg		08/17/20 06:17	08/17/20 20:54	1
Acenaphthylene	<4.4		33	4.4	ug/Kg		08/17/20 06:17	08/17/20 20:54	1
Anthracene	<5.6		33	5.6	ug/Kg		08/17/20 06:17	08/17/20 20:54	1
Benzo[a]anthracene	<4.5		33	4.5	ug/Kg		08/17/20 06:17	08/17/20 20:54	1
Benzo[a]pyrene	<6.4		33	6.4	ug/Kg		08/17/20 06:17	08/17/20 20:54	1
Benzo[b]fluoranthene	<7.2		33	7.2	ug/Kg		08/17/20 06:17	08/17/20 20:54	1
Benzo[g,h,i]perylene	<11		33	11	ug/Kg		08/17/20 06:17	08/17/20 20:54	1
Benzo[k]fluoranthene	<9.8		33	9.8	ug/Kg		08/17/20 06:17	08/17/20 20:54	1
Chrysene	<9.1		33	9.1	ug/Kg		08/17/20 06:17	08/17/20 20:54	1
Dibenz(a,h)anthracene	<6.4		33	6.4	ug/Kg		08/17/20 06:17	08/17/20 20:54	1
Fluoranthene	<6.2		33	6.2	ug/Kg		08/17/20 06:17	08/17/20 20:54	1
Fluorene	<4.7		33	4.7	ug/Kg		08/17/20 06:17	08/17/20 20:54	1
Indeno[1,2,3-cd]pyrene	<8.6		33	8.6	ug/Kg		08/17/20 06:17	08/17/20 20:54	1
Naphthalene	<5.1		33	5.1	ug/Kg		08/17/20 06:17	08/17/20 20:54	1
Phenanthrene	<4.6		33	4.6	ug/Kg		08/17/20 06:17	08/17/20 20:54	1
Pyrene	<6.6		33	6.6	ug/Kg		08/17/20 06:17	08/17/20 20:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	91		43 - 145	08/17/20 06:17	08/17/20 20:54	1
Nitrobenzene-d5 (Surr)	102		37 - 147	08/17/20 06:17	08/17/20 20:54	1
Terphenyl-d14 (Surr)	117		42 - 157	08/17/20 06:17	08/17/20 20:54	1

Lab Sample ID: LCS 500-557088/2-A
Matrix: Solid
Analysis Batch: 557246

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 557088

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1-Methylnaphthalene	1330	1220		ug/Kg		91	68 - 111
2-Methylnaphthalene	1330	1250		ug/Kg		94	69 - 112
Acenaphthene	1330	1360		ug/Kg		102	65 - 124
Acenaphthylene	1330	1350		ug/Kg		101	68 - 120
Anthracene	1330	1130		ug/Kg		84	70 - 114
Benzo[a]anthracene	1330	1310		ug/Kg		98	67 - 122
Benzo[a]pyrene	1330	1300		ug/Kg		98	65 - 133
Benzo[b]fluoranthene	1330	1200		ug/Kg		90	69 - 129
Benzo[g,h,i]perylene	1330	1300		ug/Kg		98	72 - 131
Benzo[k]fluoranthene	1330	1330		ug/Kg		100	68 - 127
Chrysene	1330	1310		ug/Kg		98	63 - 120
Dibenz(a,h)anthracene	1330	1360		ug/Kg		102	64 - 131
Fluoranthene	1330	1150		ug/Kg		86	62 - 120
Fluorene	1330	1350		ug/Kg		101	62 - 120
Indeno[1,2,3-cd]pyrene	1330	1300		ug/Kg		98	68 - 130
Naphthalene	1330	1230		ug/Kg		93	63 - 110
Phenanthrene	1330	1160		ug/Kg		87	62 - 120
Pyrene	1330	1400		ug/Kg		105	61 - 128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	98		43 - 145

Eurolins TestAmerica, Chicago

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-557088/2-A
Matrix: Solid
Analysis Batch: 557246

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 557088

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5 (Surr)	107		37 - 147
Terphenyl-d14 (Surr)	114		42 - 157

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 500-557260/1-A
Matrix: Solid
Analysis Batch: 557412

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 557260

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.34		1.0	0.34	mg/Kg		08/17/20 18:11	08/18/20 11:16	1
Barium	<0.11		1.0	0.11	mg/Kg		08/17/20 18:11	08/18/20 11:16	1
Cadmium	<0.036		0.20	0.036	mg/Kg		08/17/20 18:11	08/18/20 11:16	1
Chromium	0.663	J	1.0	0.50	mg/Kg		08/17/20 18:11	08/18/20 11:16	1
Lead	<0.23		0.50	0.23	mg/Kg		08/17/20 18:11	08/18/20 11:16	1
Selenium	<0.59		1.0	0.59	mg/Kg		08/17/20 18:11	08/18/20 11:16	1
Silver	<0.13		0.50	0.13	mg/Kg		08/17/20 18:11	08/18/20 11:16	1

Lab Sample ID: LCS 500-557260/2-A
Matrix: Solid
Analysis Batch: 557412

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 557260

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Arsenic	10.0	9.23		mg/Kg		92	80 - 120
Barium	200	194		mg/Kg		97	80 - 120
Cadmium	5.00	4.61		mg/Kg		92	80 - 120
Chromium	20.0	20.4		mg/Kg		102	80 - 120
Lead	10.0	9.50		mg/Kg		95	80 - 120
Selenium	10.0	8.52		mg/Kg		85	80 - 120
Silver	5.00	4.49		mg/Kg		90	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-557202/12-A
Matrix: Solid
Analysis Batch: 557387

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 557202

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.0056		0.017	0.0056	mg/Kg		08/17/20 13:50	08/18/20 07:22	1

Lab Sample ID: LCS 500-557202/13-A
Matrix: Solid
Analysis Batch: 557387

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 557202

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Mercury	0.167	0.175		mg/Kg		105	80 - 120

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 500-186359-1 MS
Matrix: Solid
Analysis Batch: 557387

Client Sample ID: 13-NORTH 0.5-2
Prep Type: Total/NA
Prep Batch: 557202
 %Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.0054		0.0812	0.0910		mg/Kg	☼	112	75 - 125

Lab Sample ID: 500-186359-1 MSD
Matrix: Solid
Analysis Batch: 557387

Client Sample ID: 13-NORTH 0.5-2
Prep Type: Total/NA
Prep Batch: 557202
 %Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.0054		0.0811	0.0875		mg/Kg	☼	108	75 - 125	4	20

Lab Sample ID: 500-186359-1 DU
Matrix: Solid
Analysis Batch: 557387

Client Sample ID: 13-NORTH 0.5-2
Prep Type: Total/NA
Prep Batch: 557202
 RPD

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.0054		<0.0054		mg/Kg	☼	NC	20

Lab Chronicle

Client: Stantec Consulting Corp.
 Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Client Sample ID: 13-NORTH 0.5-2

Lab Sample ID: 500-186359-1

Date Collected: 08/12/20 09:20

Matrix: Solid

Date Received: 08/13/20 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	557193	08/17/20 11:03	LWN	TAL CHI

Client Sample ID: 13-NORTH 0.5-2

Lab Sample ID: 500-186359-1

Date Collected: 08/12/20 09:20

Matrix: Solid

Date Received: 08/13/20 09:55

Percent Solids: 95.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			557063	08/12/20 09:20	WRE	TAL CHI
Total/NA	Analysis	8260B		50	557252	08/18/20 00:36	JDD	TAL CHI
Total/NA	Prep	3541			557088	08/17/20 06:17	DAK	TAL CHI
Total/NA	Analysis	8270D		1	557246	08/17/20 23:03	SS	TAL CHI
Total/NA	Prep	3050B			557260	08/17/20 18:11	BDE	TAL CHI
Total/NA	Analysis	6010C		1	557412	08/18/20 11:24	JEF	TAL CHI
Total/NA	Prep	7471B			557202	08/17/20 13:50	MJG	TAL CHI
Total/NA	Analysis	7471B		1	557387	08/18/20 07:43	MJG	TAL CHI

Client Sample ID: 13-NORTH 2-6

Lab Sample ID: 500-186359-2

Date Collected: 08/12/20 09:23

Matrix: Solid

Date Received: 08/13/20 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	557193	08/17/20 11:03	LWN	TAL CHI

Client Sample ID: 13-NORTH 2-6

Lab Sample ID: 500-186359-2

Date Collected: 08/12/20 09:23

Matrix: Solid

Date Received: 08/13/20 09:55

Percent Solids: 95.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			557063	08/12/20 09:23	WRE	TAL CHI
Total/NA	Analysis	8260B		50	557252	08/18/20 01:03	JDD	TAL CHI
Total/NA	Prep	3541			557088	08/17/20 06:17	DAK	TAL CHI
Total/NA	Analysis	8270D		1	557246	08/17/20 23:28	SS	TAL CHI
Total/NA	Prep	3050B			557260	08/17/20 18:11	BDE	TAL CHI
Total/NA	Analysis	6010C		1	557412	08/18/20 11:28	JEF	TAL CHI
Total/NA	Prep	7471B			557202	08/17/20 13:50	MJG	TAL CHI
Total/NA	Analysis	7471B		1	557387	08/18/20 07:49	MJG	TAL CHI

Client Sample ID: 13-CENTRAL 0.5-2.5

Lab Sample ID: 500-186359-3

Date Collected: 08/12/20 10:00

Matrix: Solid

Date Received: 08/13/20 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	557193	08/17/20 11:03	LWN	TAL CHI

Lab Chronicle

Client: Stantec Consulting Corp.
 Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Client Sample ID: 13-CENTRAL 0.5-2.5

Lab Sample ID: 500-186359-3

Date Collected: 08/12/20 10:00

Matrix: Solid

Date Received: 08/13/20 09:55

Percent Solids: 96.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			557063	08/12/20 10:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	557252	08/18/20 01:30	JDD	TAL CHI
Total/NA	Prep	3541			557088	08/17/20 06:17	DAK	TAL CHI
Total/NA	Analysis	8270D		1	557246	08/17/20 23:53	SS	TAL CHI
Total/NA	Prep	3050B			557260	08/17/20 18:11	BDE	TAL CHI
Total/NA	Analysis	6010C		1	557412	08/18/20 11:32	JEF	TAL CHI
Total/NA	Prep	7471B			557202	08/17/20 13:50	MJG	TAL CHI
Total/NA	Analysis	7471B		1	557387	08/18/20 07:51	MJG	TAL CHI

Client Sample ID: 13-CENTRAL 3-4

Lab Sample ID: 500-186359-4

Date Collected: 08/12/20 10:05

Matrix: Solid

Date Received: 08/13/20 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	557193	08/17/20 11:03	LWN	TAL CHI

Client Sample ID: 13-CENTRAL 3-4

Lab Sample ID: 500-186359-4

Date Collected: 08/12/20 10:05

Matrix: Solid

Date Received: 08/13/20 09:55

Percent Solids: 95.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			557063	08/12/20 10:05	WRE	TAL CHI
Total/NA	Analysis	8260B		50	557252	08/18/20 01:57	JDD	TAL CHI
Total/NA	Prep	3541			557088	08/17/20 06:17	DAK	TAL CHI
Total/NA	Analysis	8270D		1	557246	08/18/20 00:19	SS	TAL CHI
Total/NA	Prep	3050B			557260	08/17/20 18:11	BDE	TAL CHI
Total/NA	Analysis	6010C		1	557412	08/18/20 11:44	JEF	TAL CHI
Total/NA	Prep	7471B			557202	08/17/20 13:50	MJG	TAL CHI
Total/NA	Analysis	7471B		1	557387	08/18/20 07:53	MJG	TAL CHI

Client Sample ID: 13-CENTRAL 4-6

Lab Sample ID: 500-186359-5

Date Collected: 08/12/20 10:10

Matrix: Solid

Date Received: 08/13/20 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	557193	08/17/20 11:03	LWN	TAL CHI

Client Sample ID: 13-CENTRAL 4-6

Lab Sample ID: 500-186359-5

Date Collected: 08/12/20 10:10

Matrix: Solid

Date Received: 08/13/20 09:55

Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			557063	08/12/20 10:10	WRE	TAL CHI
Total/NA	Analysis	8260B		50	557252	08/18/20 02:24	JDD	TAL CHI
Total/NA	Prep	3541			557088	08/17/20 06:17	DAK	TAL CHI
Total/NA	Analysis	8270D		1	557446	08/18/20 20:43	SS	TAL CHI

Eurofins TestAmerica, Chicago

Lab Chronicle

Client: Stantec Consulting Corp.
 Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Client Sample ID: 13-CENTRAL 4-6

Lab Sample ID: 500-186359-5

Date Collected: 08/12/20 10:10

Matrix: Solid

Date Received: 08/13/20 09:55

Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			557260	08/17/20 18:11	BDE	TAL CHI
Total/NA	Analysis	6010C		1	557412	08/18/20 11:48	JEF	TAL CHI
Total/NA	Prep	7471B			557202	08/17/20 13:50	MJG	TAL CHI
Total/NA	Analysis	7471B		1	557387	08/18/20 07:55	MJG	TAL CHI

Client Sample ID: 13-SOUTH 0.5-2

Lab Sample ID: 500-186359-6

Date Collected: 08/12/20 10:35

Matrix: Solid

Date Received: 08/13/20 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	557193	08/17/20 11:03	LWN	TAL CHI

Client Sample ID: 13-SOUTH 0.5-2

Lab Sample ID: 500-186359-6

Date Collected: 08/12/20 10:35

Matrix: Solid

Date Received: 08/13/20 09:55

Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			557063	08/12/20 10:35	WRE	TAL CHI
Total/NA	Analysis	8260B		50	557252	08/18/20 02:52	JDD	TAL CHI
Total/NA	Prep	3541			557088	08/17/20 06:17	DAK	TAL CHI
Total/NA	Analysis	8270D		1	557446	08/18/20 21:05	SS	TAL CHI
Total/NA	Prep	3050B			557260	08/17/20 18:11	BDE	TAL CHI
Total/NA	Analysis	6010C		1	557412	08/18/20 11:52	JEF	TAL CHI
Total/NA	Prep	7471B			557202	08/17/20 13:50	MJG	TAL CHI
Total/NA	Analysis	7471B		1	557387	08/18/20 07:56	MJG	TAL CHI

Client Sample ID: 13-SOUTH 2-3.5

Lab Sample ID: 500-186359-7

Date Collected: 08/12/20 10:37

Matrix: Solid

Date Received: 08/13/20 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	557193	08/17/20 11:03	LWN	TAL CHI

Client Sample ID: 13-SOUTH 2-3.5

Lab Sample ID: 500-186359-7

Date Collected: 08/12/20 10:37

Matrix: Solid

Date Received: 08/13/20 09:55

Percent Solids: 87.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			557063	08/12/20 10:37	WRE	TAL CHI
Total/NA	Analysis	8260B		50	557252	08/18/20 03:19	JDD	TAL CHI
Total/NA	Prep	3541			557088	08/17/20 06:17	DAK	TAL CHI
Total/NA	Analysis	8270D		1	557446	08/18/20 21:28	SS	TAL CHI
Total/NA	Prep	3050B			557260	08/17/20 18:11	BDE	TAL CHI
Total/NA	Analysis	6010C		1	557412	08/18/20 11:56	JEF	TAL CHI
Total/NA	Prep	7471B			557202	08/17/20 13:50	MJG	TAL CHI
Total/NA	Analysis	7471B		1	557387	08/18/20 07:58	MJG	TAL CHI

Eurofins TestAmerica, Chicago

Lab Chronicle

Client: Stantec Consulting Corp.
 Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Client Sample ID: 13-SOUTH 4-6

Lab Sample ID: 500-186359-8

Date Collected: 08/12/20 10:38

Matrix: Solid

Date Received: 08/13/20 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	557193	08/17/20 11:03	LWN	TAL CHI

Client Sample ID: 13-SOUTH 4-6

Lab Sample ID: 500-186359-8

Date Collected: 08/12/20 10:38

Matrix: Solid

Date Received: 08/13/20 09:55

Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			557063	08/12/20 10:38	WRE	TAL CHI
Total/NA	Analysis	8260B		50	557252	08/18/20 03:46	JDD	TAL CHI
Total/NA	Prep	3541			557088	08/17/20 06:17	DAK	TAL CHI
Total/NA	Analysis	8270D		1	557446	08/18/20 21:50	SS	TAL CHI
Total/NA	Prep	3050B			557260	08/17/20 18:11	BDE	TAL CHI
Total/NA	Analysis	6010C		1	557412	08/18/20 12:00	JEF	TAL CHI
Total/NA	Prep	7471B			557202	08/17/20 13:50	MJG	TAL CHI
Total/NA	Analysis	7471B		1	557387	08/18/20 08:06	MJG	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Stantec Consulting Corp.
Project/Site: 13th Street Soil Sampling - 193702757

Job ID: 500-186359-1

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-21

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 500-186359-1

Login Number: 186359

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: James, Jeff A

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

