

From: [Byers, Harris](#)
To: [Beggs, Tauren R - DNR](#)
Subject: Characterization of Potential Fill for River Point
Date: Wednesday, August 4, 2021 7:10:09 AM
Attachments: [Soil Characterization - Custer.pdf](#)

Tauren:

The City is rebuilding Custer Street this summer and will be generating a significant quantity of spoil from the utility work in the ROW. We sampled the material earlier this month and it looks appropriate for use in constructing the engineered barrier at Site 1 on River Point (see attached). Wanted to send this to you for consideration concurrent with your reviews of the SI and the RAP/MMP.

Sincerely,

Harris Byers, Ph.D.

Sr. Brownfields Project Manager
Contaminant Hydrogeologist / Urban Geochemist

Direct: 414 581-6476

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Stantec

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July 28, 2021
File: 193708022

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

Dear Mr. Tegen,

**Reference: Characterization of Soil in the Custer (35th to 39th Streets) Street Rights of Way;
Manitowoc, Wisconsin**

Stantec Consulting Services Inc. (Stantec) has prepared this letter report for the City of Manitowoc Community Development Authority (CDA) following collection and laboratory analysis of soil samples taken from five test pits installed in the Custer Street rights of way (ROW) from 35th to 39th Streets in Manitowoc, Wisconsin. The purpose of this sampling was to characterize representative soil targeted as potential fill to construct the engineered barrier at Site 1 or Site 3 of the River Point District property. This work was completed using funds from a Brownfield Cleanup Revolving Loan Fund (RLF) loan made to the CDA from the City of Manitowoc (City). The City's Brownfields Cleanup RLF was funded by a grant awarded to the City by the U.S. Environmental Protection Agency (USEPA) in Fiscal Year 2013 under cooperative agreement BF-00E01242. This project was completed pursuant to the petroleum cleanup eligibility determination (Stantec, 2020b) approved by the Wisconsin Department of Natural Resources (WDNR) on June 3, 2020. The USEPA Assessment, Cleanup and Redevelopment Exchange System ID for Site 1 is 239716.

BACKGROUND

Installation of new utilities within the Custer Street ROW is planned for Summer/Fall 2021. The ROW work is expected to generate approximately 3,800 cubic yards of soil that has potential to be used by the City to construct the needed engineered barrier at Site 1 or Site 3 of the River Point District property. As the River Point District is undergoing investigation under the Chapter NR 700 rule series of the Wisconsin Administrative Code (WAC), and at the recommendation of the Wisconsin Department of Natural Resources (WDNR) Project Manager (Tauren Beggs), sampling of representative soil prior to placement on the River Point District property was warranted.

METHODS

On July 9, 2021, Vinton Construction Company (Vinton; a contractor to the City) completed five test pits in the Custer Street ROW between 35th and 39th Streets to provide access to subsurface soils in the ROW. The test pits were extended from the current driving surface downward to 8.5 feet below ground surface, which corresponds to the depth interval of potential fill for River Point Site 1 and Site 3. The locations of the test pits are illustrated on **Figure 1**. Photographic documentation of the test pits and subsurface lithology is provided in **Attachment A**.

Reference: Characterization of Soil in the Custer (35th to 39th Streets) Street Rights of Way; Manitowoc, Wisconsin

The existing driving surface overlays a continuous brown/tan silty sand unit, which appears to be reworked native soil (e.g. Attachment A, Photo Nos. 8 and 13). This material appears similar to reworked native soils encountered in other ROWs in Manitowoc.

Samples of the silty sand were collected from the excavation by Stantec, and a portable photoionization detector (PID) calibrated to a 100 parts per million isobutylene standard was used to screen the soil samples for volatile organic compounds (VOCs). Due to the uniformity of the reworked native soils, one grab sample from each test pit was collected by Stantec and submitted to Eurofins TestAmerica (Chicago, Illinois) under chain-of-custody procedures for analysis of Resource Conservation and Recovery Act (RCRA) metals, polycyclic aromatic hydrocarbons (PAHs), and VOCs. The laboratory report is provided in **Attachment B** and detected constituents are compared to ch. NR 720 WAC health-based residual contaminant levels (RCLs) and background threshold values (BTVs) on **Table 1**.

RESULTS

PID measurements of the brown/tan silty sand unit were all less than one instrument unit, and as summarized on **Table 1**, VOCs were not detected in soil samples. With the exception of arsenic, the concentrations of detected heavy metals and PAHs in the brown/tan silty sand unit are all less than the most restrictive health-based soil quality standards. Although the concentrations of arsenic in select soil samples are greater than the non-industrial direct contact RCL and the soil to groundwater RCL, detected concentrations are less than the BTV suggesting the arsenic detections in the brown/tan silty sand unit are not likely a result of a spill.

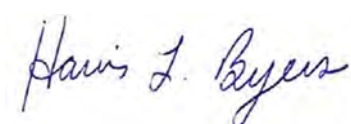
CONCLUSIONS

As detected constituents in the silty sand unit from the Custer Street ROW were less than the BTV and/or the most restrictive health-based standards, excavated material from the characterized horizon generated as part of future utility work from this ROW appears appropriate for use in constructing the engineered barrier on Site 1 or Site 3. However, if encountered in the Custer Street ROW, anthropogenic fills and/or soils with apparent impacts (e.g. unusual odor or colors) should not be used in constructing the engineered barrier on Site 1 or Site 3.

A soil/material management plan should be developed to further guide quality/placement/segregation of soil at Site 1 or Site 3. Stantec recommends submitting this letter to WDNR for concurrence on our conclusions prior to placement of excavation spoil from the ROW at Site 1 or Site 3.

Regards,

Stantec Consulting Services, Inc.



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Sr. Brownfields Project Manager
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Email: harris.byers@stantec.com



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

Reference: Characterization of Soil in the Custer (35th to 39th Streets) Street Rights of Way; Manitowoc, Wisconsin

Enclosures

Figures:

Figure 1: Custer Street Test Pits

Tables:

Table 1: Detected Constituents in Soil from Test Pits

Attachments:

Attachment A: Photographic Log

Attachment 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.

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.

This document was prepared by Stantec for the CDA. Any use which a third party makes of this report, or any reliance on or decisions made based on it, are the responsibilities of such third parties. Stantec accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

TABLE

Table 1
 Detected Constituents in Soil From Test Pits
 Custer Street (Between 35th-39th Streets)
 Manitowoc, Wisconsin

Detected Constituents in Soil	Units	Wisconsin SBTV	Non-Industrial Direct Contact RCL	Industrial Direct Contact RCL	Soil to Groundwater RCL	Sample ID and Collection Date				
						37th	35th	39th	MACARTHUR	ROBALO
						07/09/2021	07/09/2021	07/09/2021	07/09/2021	07/09/2021
Heavy Metals										
Arsenic	mg/kg	8.3	8.3* [0.677]	8.3* [3]	8.3* [0.584]	0.97 J	1.2	1.4	0.75 J	0.66 J
Barium	mg/kg	364	15,300	100,000	364* [164.8]	11	15	21	12	10
Cadmium	mg/kg	1.07	71.1	985	1.07* [0.752]	0.041 J B	0.090 J B	0.068 J B	0.041 J B	0.064 J B
Chromium	mg/kg	43.5	n/v	n/v	360,000	5.8	7.7	9.9	5.5	5.1
Lead	mg/kg	51.6	400	800	51.6* [27]	2.5	6.5	3.9	1.9	2.1
Mercury	mg/kg	n/v	3.13	3.13	0.208	0.0074 J	0.015 J	0.016	0.010 J	0.011 J
Silver	mg/kg	n/v	391	5,840	0.8491	<0.13	<0.14	0.16 J	<0.14	0.17 J
Polycyclic Aromatic Hydrocarbons										
Benzo(a)anthracene	µg/kg	n/v	1,140	20,800	n/v	6.9 J	8.0 J	10 J	<5.2	<4.8
Benzo(a)pyrene	µg/kg	n/v	115	2,110	470	7.4 J	12 J	14 J	<7.4	<7.0
Benzo(b)fluoranthene	µg/kg	n/v	1,150	21,100	478	10 J	16 J	<7.8	<8.3	<7.8
Fluoranthene	µg/kg	n/v	2,390,000	30,100,000	88,878	8.4 J	14 J	12 J	<7.1	<6.7
Methylnaphthalene, 1-	µg/kg	n/v	17,600	72,700	n/v	<9.0	<9.1	10 J	<9.3	<8.8
Phenanthrene	µg/kg	n/v	n/v	n/v	n/v	<5.1	5.6 J	13 J	<5.3	<5.0
Pyrene	µg/kg	n/v	1,790,000	22,600,000	54,546	8.0 J	12 J	18 J	<7.6	<7.1
Volatile Organic Compounds										
Sixty (60) constituents analyzed	µg/kg	n/v	Various			< DL	-	< DL	< DL	< DL

Notes:

- WISCONSIN SBTV Wisconsin Soil Background Threshold Value
- WISCONSIN RCL Wisconsin Soil Residual Contaminant Levels (as of December 2018)
- Concentration exceeds Wisconsin Direct Contact Non-Industrial RCL
- Concentration exceeds Wisconsin Direct Contact Industrial RCL
- Concentration exceeds Wisconsin Soil to Groundwater RCL
- 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.
- Parameter not analyzed.
- < DL All constituents less than the laboratory detection limit
- B Compound was found in the blank and sample.
- J The reported result is an estimated value.
- mg/kg Milligrams per kilogram
- µg/kg Micrograms per kilogram
- XX*** [XXX] Standard in bold is the SBTV being used for the purpose of evaluation under ch. NR700 WAC. The established WAC RCL is noted in brackets.

FIGURE



Figure No.

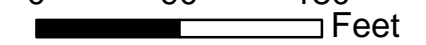
1

Title

Custer Street Test Pits

Client/Project
 Fill Characterization
 2021 Rights of Way Construction Corridors
 City of Manitowoc

0 90 180 Feet Prepared by HLB on 9/28/2020



Legend

 Test Pits

 Parcels



Notes

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



ATTACHMENT A

Photographic Documentation

Client:	Project:
Site Name:	Site Location:

Photograph ID: 1
Photo Location:
Direction:
Survey Date: 7/9/2021
Comments: View of Custer Street near 37th Street



Photograph ID: 2
Photo Location:
Direction:
Survey Date: 7/9/2021
Comments: View of Custer Street near 37th Street



<p>Client:</p> <p>Site Name:</p>	<p>Project:</p> <p>Site Location:</p>
<p>Photograph ID: 3</p> <p>Photo Location:</p> <p>Direction:</p> <p>Survey Date: 7/9/2021</p> <p>Comments: View of Custer Street near 37th Street</p>	
<p>Photograph ID: 4</p> <p>Photo Location:</p> <p>Direction:</p> <p>Survey Date: 7/9/2021</p> <p>Comments: View of test pit at Custer Street and 37th Street</p>	

<p>Client: Site Name:</p>	<p>Project: Site Location:</p>
<p>Photograph ID: 5 Photo Location: Direction: Survey Date: 7/9/2021 Comments: View of test pit at Custer Street and 37th Street</p>	
<p>Photograph ID: 6 Photo Location: Direction: Survey Date: 7/9/2021 Comments: View of test pit at Custer Street and 37th Street</p>	

Client: Site Name:		Project: Site Location:	
Photograph ID: 7			
Photo Location:			
Direction:			
Survey Date: 7/9/2021			
Comments: Spoil from test pit at Custer Street and 37th Street			
Photograph ID: 8			
Photo Location:			
Direction:			
Survey Date: 7/9/2021			
Comments: View of test pit at Custer Street and 37th Street			

Client:	Project:
Site Name:	Site Location:

Photograph ID: 9
Photo Location:
Direction:
Survey Date: 7/9/2021
Comments: View of Custer Street near 35th Street



Photograph ID: 10
Photo Location:
Direction:
Survey Date: 7/9/2021
Comments: View of Custer Street near 35th Street



Client:	Project:
Site Name:	Site Location:

Photograph ID: 11

Photo Location:

Direction:

Survey Date:
7/9/2021

Comments:
View of Custer Street near 35th Street



Photograph ID: 12



Photo Location:

Direction:



Survey Date:
7/9/2021

Comments:
View of Custer Street near 35th Street



Client: Site Name:		Project: Site Location:	
Photograph ID: 13			
Photo Location:			
Direction:			
Survey Date: 7/9/2021			
Comments: View of test pit in Custer Street near 35th Street			
Photograph ID: 14			
Photo Location:			
Direction:			
Survey Date: 7/9/2021			
Comments: View of test pit in Custer Street near 39th Street			

Client:		Project:	
Site Name:		Site Location:	
Photograph ID: 15			
Photo Location:			
Direction:			
Survey Date: 7/9/2021			
Comments: View of material from test pit in Custer Street near 39th Street			
Photograph ID: 16			
Photo Location:			
Direction:			
Survey Date: 7/9/2021			
Comments: View of test pit in Custer Street near Macarthur Drive			

<p>Client: Site Name:</p>	<p>Project: Site Location:</p>
<p>Photograph ID: 17 Photo Location: Direction: Survey Date: 7/9/2021 Comments: View of test pit in Custer Street near Macarthur Drive</p>	
<p>Photograph ID: 18 Photo Location: Direction: Survey Date: 7/9/2021 Comments: View of Custer Street near Robalo Court</p>	

<p>Client: Site Name:</p>	<p>Project: Site Location:</p>
<p>Photograph ID: 19 Photo Location: Direction: Survey Date: 7/9/2021 Comments: View of Custer Street near Robalo Court</p>	
<p>Photograph ID: 20 Photo Location: Direction: Survey Date: 7/9/2021 Comments: View of Custer Street near Robalo Court</p>	



Client:	Project:
Site Name:	Site Location:

Photograph ID: 21
Photo Location:
Direction:
Survey Date: 7/9/2021
Comments: Test Pit in Custer Street near Robalo Court



Photograph ID: 22
Photo Location:
Direction:
Survey Date: 7/9/2021
Comments: View of material from test pit in Custer Street near Robalo Court



<p>Client: Site Name:</p>	<p>Project: Site Location:</p>
<p>Photograph ID: 23 Photo Location: Direction: Survey Date: 7/9/2021 Comments: Test Pit in Custer Street near Robalo Court</p>	
<p>Photograph ID: 24 Photo Location: Direction: Survey Date: 7/9/2021 Comments: Use of PID to screen soil samples from test pits</p>	

ATTACHMENT B

Laboratory Report

ANALYTICAL REPORT

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

Laboratory Job ID: 500-202162-1

Client Project/Site: Custer St. (35th-39th St) - 193708022

For:

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

Attn: Harris Byers



*Authorized for release by:
7/19/2021 2:16:41 PM*

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

LINKS

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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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QC Sample Results	25
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Case Narrative

Client: Stantec Consulting Corp.
Project/Site: Custer St. (35th-39th St) - 193708022

Job ID: 500-202162-1

Job ID: 500-202162-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-202162-1

Comments

No additional comments.

Receipt

The samples were received on 7/10/2021 11:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.5° C.

GC/MS VOA

Method 8260B: The laboratory control sample (LCS) for 608761 recovered outside control limits for bromoform, dibromomethane, and ethylene dibromide. This is a prepped 5035 LCS. All daily instrument LCSs were acceptable, and the data have been reported. 37th (500-202162-1), 39th (500-202162-3), MACARTHUR (500-202162-4) and ROBALO (500-202162-5)

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

GC/MS Semi VOA

Method 8270D: Perylene-d12 Internal standard (ISTD) response for the following samples was outside of acceptance limits: 39th (500-202162-3). Analytes associated to this internal standard were not detected above the reporting limit; therefore, re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or 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: Custer St. (35th-39th St) - 193708022

Job ID: 500-202162-1

Client Sample ID: 37th

Lab Sample ID: 500-202162-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	6.9	J	37	5.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	7.4	J	37	7.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	10	J	37	7.9	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	8.4	J	37	6.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	8.0	J	37	7.3	ug/Kg	1	☼	8270D	Total/NA
Arsenic	0.97	J	1.0	0.35	mg/Kg	1	☼	6010C	Total/NA
Barium	11		1.0	0.12	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.041	J B	0.20	0.037	mg/Kg	1	☼	6010C	Total/NA
Chromium	5.8		1.0	0.51	mg/Kg	1	☼	6010C	Total/NA
Lead	2.5		0.51	0.24	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.0074	J	0.017	0.0058	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 35th

Lab Sample ID: 500-202162-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	8.0	J	37	5.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	12	J	37	7.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	16	J	37	8.1	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	14	J	37	6.9	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	5.6	J	37	5.2	ug/Kg	1	☼	8270D	Total/NA
Pyrene	12	J	37	7.4	ug/Kg	1	☼	8270D	Total/NA
Arsenic	1.2		1.1	0.37	mg/Kg	1	☼	6010C	Total/NA
Barium	15		1.1	0.12	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.090	J B	0.22	0.039	mg/Kg	1	☼	6010C	Total/NA
Chromium	7.7		1.1	0.53	mg/Kg	1	☼	6010C	Total/NA
Lead	6.5		0.54	0.25	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.015	J	0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 39th

Lab Sample ID: 500-202162-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	10	J	73	8.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	10	J	36	4.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	14	J *3	36	7.0	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	12	J	36	6.7	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	13	J	36	5.1	ug/Kg	1	☼	8270D	Total/NA
Pyrene	18	J	36	7.2	ug/Kg	1	☼	8270D	Total/NA
Arsenic	1.4		0.92	0.31	mg/Kg	1	☼	6010C	Total/NA
Barium	21		0.92	0.10	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.068	J B	0.18	0.033	mg/Kg	1	☼	6010C	Total/NA
Chromium	9.9		0.92	0.45	mg/Kg	1	☼	6010C	Total/NA
Lead	3.9		0.46	0.21	mg/Kg	1	☼	6010C	Total/NA
Silver	0.16	J	0.46	0.12	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.016		0.016	0.0055	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: MACARTHUR

Lab Sample ID: 500-202162-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.75	J	1.1	0.36	mg/Kg	1	☼	6010C	Total/NA
Barium	12		1.1	0.12	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.041	J B	0.21	0.038	mg/Kg	1	☼	6010C	Total/NA
Chromium	5.5		1.1	0.52	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: Custer St. (35th-39th St) - 193708022

Job ID: 500-202162-1

Client Sample ID: MACARTHUR (Continued)

Lab Sample ID: 500-202162-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	1.9		0.53	0.24	mg/Kg	1	✳	6010C	Total/NA
Mercury	0.010	J	0.019	0.0062	mg/Kg	1	✳	7471B	Total/NA

Client Sample ID: ROBALO

Lab Sample ID: 500-202162-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.66	J	0.95	0.33	mg/Kg	1	✳	6010C	Total/NA
Barium	10		0.95	0.11	mg/Kg	1	✳	6010C	Total/NA
Cadmium	0.064	J B	0.19	0.034	mg/Kg	1	✳	6010C	Total/NA
Chromium	5.1		0.95	0.47	mg/Kg	1	✳	6010C	Total/NA
Lead	2.1		0.48	0.22	mg/Kg	1	✳	6010C	Total/NA
Silver	0.17	J	0.48	0.12	mg/Kg	1	✳	6010C	Total/NA
Mercury	0.011	J	0.018	0.0059	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: Custer St. (35th-39th St) - 193708022

Job ID: 500-202162-1

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: Custer St. (35th-39th St) - 193708022

Job ID: 500-202162-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-202162-1	37th	Solid	07/09/21 09:05	07/10/21 11:15	
500-202162-2	35th	Solid	07/09/21 09:20	07/10/21 11:15	
500-202162-3	39th	Solid	07/09/21 09:45	07/10/21 11:15	
500-202162-4	MACARTHUR	Solid	07/09/21 09:50	07/10/21 11:15	
500-202162-5	ROBALO	Solid	07/09/21 10:00	07/10/21 11:15	

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Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Custer St. (35th-39th St) - 193708022

Job ID: 500-202162-1

Client Sample ID: 37th

Lab Sample ID: 500-202162-1

Date Collected: 07/09/21 09:05

Matrix: Solid

Date Received: 07/10/21 11:15

Percent Solids: 90.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<29		62	29	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
1,1,1-Trichloroethane	<24		62	24	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
1,1,2,2-Tetrachloroethane	<25		62	25	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
1,1,2-Trichloroethane	<22		62	22	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
1,1-Dichloroethane	<25		62	25	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
1,1-Dichloroethene	<24		62	24	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
1,1-Dichloropropene	<18		62	18	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
1,2,3-Trichlorobenzene	<28		62	28	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
1,2,3-Trichloropropane	<26		120	26	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
1,2,4-Trichlorobenzene	<21		62	21	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
1,2,4-Trimethylbenzene	<22		62	22	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
1,2-Dibromo-3-Chloropropane	<120		310	120	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
1,2-Dibromoethane	<24		62	24	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
1,2-Dichlorobenzene	<21		62	21	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
1,2-Dichloroethane	<24		62	24	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
1,2-Dichloropropane	<27		62	27	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
1,3,5-Trimethylbenzene	<24		62	24	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
1,3-Dichlorobenzene	<25		62	25	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
1,3-Dichloropropane	<22		62	22	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
1,4-Dichlorobenzene	<23		62	23	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
2,2-Dichloropropane	<28		62	28	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
2-Chlorotoluene	<19		62	19	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
4-Chlorotoluene	<22		62	22	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
Benzene	<9.1		16	9.1	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
Bromobenzene	<22		62	22	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
Bromochloromethane	<27		62	27	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
Bromodichloromethane	<23		62	23	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
Bromoform	<30		62	30	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
Bromomethane	<49		190	49	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
Carbon tetrachloride	<24		62	24	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
Chlorobenzene	<24		62	24	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
Chloroethane	<31		62	31	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
Chloroform	<23		120	23	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
Chloromethane	<20		62	20	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
cis-1,2-Dichloroethene	<25		62	25	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
cis-1,3-Dichloropropene	<26		62	26	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
Dibromochloromethane	<30		62	30	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
Dibromomethane	<17		62	17	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
Dichlorodifluoromethane	<42		190	42	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
Ethylbenzene	<11		16	11	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
Hexachlorobutadiene	<28		62	28	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
Isopropyl ether	<17		62	17	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
Isopropylbenzene	<24		62	24	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
Methyl tert-butyl ether	<24		62	24	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
Methylene Chloride	<100		310	100	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
Naphthalene	<21		62	21	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
n-Butylbenzene	<24		62	24	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
N-Propylbenzene	<26		62	26	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50
p-Isopropyltoluene	<22		62	22	ug/Kg	☼	07/09/21 09:05	07/15/21 12:45	50

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Custer St. (35th-39th St) - 193708022

Job ID: 500-202162-1

Client Sample ID: 37th

Lab Sample ID: 500-202162-1

Date Collected: 07/09/21 09:05

Matrix: Solid

Date Received: 07/10/21 11:15

Percent Solids: 90.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<25		62	25	ug/Kg	✳	07/09/21 09:05	07/15/21 12:45	50
Styrene	<24		62	24	ug/Kg	✳	07/09/21 09:05	07/15/21 12:45	50
tert-Butylbenzene	<25		62	25	ug/Kg	✳	07/09/21 09:05	07/15/21 12:45	50
Tetrachloroethene	<23		62	23	ug/Kg	✳	07/09/21 09:05	07/15/21 12:45	50
Toluene	<9.1		16	9.1	ug/Kg	✳	07/09/21 09:05	07/15/21 12:45	50
trans-1,2-Dichloroethene	<22		62	22	ug/Kg	✳	07/09/21 09:05	07/15/21 12:45	50
trans-1,3-Dichloropropene	<22		62	22	ug/Kg	✳	07/09/21 09:05	07/15/21 12:45	50
Trichloroethene	<10		31	10	ug/Kg	✳	07/09/21 09:05	07/15/21 12:45	50
Trichlorofluoromethane	<27		62	27	ug/Kg	✳	07/09/21 09:05	07/15/21 12:45	50
Vinyl chloride	<16		62	16	ug/Kg	✳	07/09/21 09:05	07/15/21 12:45	50
Xylenes, Total	<14		31	14	ug/Kg	✳	07/09/21 09:05	07/15/21 12:45	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		75 - 126				07/09/21 09:05	07/15/21 12:45	50
4-Bromofluorobenzene (Surr)	94		72 - 124				07/09/21 09:05	07/15/21 12:45	50
Dibromofluoromethane (Surr)	105		75 - 120				07/09/21 09:05	07/15/21 12:45	50
Toluene-d8 (Surr)	99		75 - 120				07/09/21 09:05	07/15/21 12:45	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<9.0		74	9.0	ug/Kg	✳	07/14/21 16:02	07/15/21 13:59	1
2-Methylnaphthalene	<6.8		74	6.8	ug/Kg	✳	07/14/21 16:02	07/15/21 13:59	1
Acenaphthene	<6.6		37	6.6	ug/Kg	✳	07/14/21 16:02	07/15/21 13:59	1
Acenaphthylene	<4.9		37	4.9	ug/Kg	✳	07/14/21 16:02	07/15/21 13:59	1
Anthracene	<6.1		37	6.1	ug/Kg	✳	07/14/21 16:02	07/15/21 13:59	1
Benzo[a]anthracene	6.9	J	37	5.0	ug/Kg	✳	07/14/21 16:02	07/15/21 13:59	1
Benzo[a]pyrene	7.4	J	37	7.1	ug/Kg	✳	07/14/21 16:02	07/15/21 13:59	1
Benzo[b]fluoranthene	10	J	37	7.9	ug/Kg	✳	07/14/21 16:02	07/15/21 13:59	1
Benzo[g,h,i]perylene	<12		37	12	ug/Kg	✳	07/14/21 16:02	07/15/21 13:59	1
Benzo[k]fluoranthene	<11		37	11	ug/Kg	✳	07/14/21 16:02	07/15/21 13:59	1
Chrysene	<10		37	10	ug/Kg	✳	07/14/21 16:02	07/15/21 13:59	1
Dibenz(a,h)anthracene	<7.1		37	7.1	ug/Kg	✳	07/14/21 16:02	07/15/21 13:59	1
Fluoranthene	8.4	J	37	6.8	ug/Kg	✳	07/14/21 16:02	07/15/21 13:59	1
Fluorene	<5.2		37	5.2	ug/Kg	✳	07/14/21 16:02	07/15/21 13:59	1
Indeno[1,2,3-cd]pyrene	<9.5		37	9.5	ug/Kg	✳	07/14/21 16:02	07/15/21 13:59	1
Naphthalene	<5.7		37	5.7	ug/Kg	✳	07/14/21 16:02	07/15/21 13:59	1
Phenanthrene	<5.1		37	5.1	ug/Kg	✳	07/14/21 16:02	07/15/21 13:59	1
Pyrene	8.0	J	37	7.3	ug/Kg	✳	07/14/21 16:02	07/15/21 13:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	87		43 - 145				07/14/21 16:02	07/15/21 13:59	1
Nitrobenzene-d5 (Surr)	90		37 - 147				07/14/21 16:02	07/15/21 13:59	1
Terphenyl-d14 (Surr)	94		42 - 157				07/14/21 16:02	07/15/21 13:59	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.97	J	1.0	0.35	mg/Kg	✳	07/15/21 17:40	07/16/21 13:08	1
Barium	11		1.0	0.12	mg/Kg	✳	07/15/21 17:40	07/16/21 13:08	1
Cadmium	0.041	J B	0.20	0.037	mg/Kg	✳	07/15/21 17:40	07/16/21 13:08	1
Chromium	5.8		1.0	0.51	mg/Kg	✳	07/15/21 17:40	07/16/21 13:08	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Custer St. (35th-39th St) - 193708022

Job ID: 500-202162-1

Client Sample ID: 37th

Lab Sample ID: 500-202162-1

Date Collected: 07/09/21 09:05

Matrix: Solid

Date Received: 07/10/21 11:15

Percent Solids: 90.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.5		0.51	0.24	mg/Kg	✱	07/15/21 17:40	07/16/21 13:08	1
Selenium	<0.60		1.0	0.60	mg/Kg	✱	07/15/21 17:40	07/16/21 13:08	1
Silver	<0.13		0.51	0.13	mg/Kg	✱	07/15/21 17:40	07/16/21 13:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0074	J	0.017	0.0058	mg/Kg	✱	07/15/21 13:50	07/16/21 09:36	1



Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Custer St. (35th-39th St) - 193708022

Job ID: 500-202162-1

Client Sample ID: 35th

Lab Sample ID: 500-202162-2

Date Collected: 07/09/21 09:20

Matrix: Solid

Date Received: 07/10/21 11:15

Percent Solids: 88.6

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	☼	07/14/21 16:02	07/15/21 15:11	1
2-Methylnaphthalene	<6.9		75	6.9	ug/Kg	☼	07/14/21 16:02	07/15/21 15:11	1
Acenaphthene	<6.7		37	6.7	ug/Kg	☼	07/14/21 16:02	07/15/21 15:11	1
Acenaphthylene	<4.9		37	4.9	ug/Kg	☼	07/14/21 16:02	07/15/21 15:11	1
Anthracene	<6.2		37	6.2	ug/Kg	☼	07/14/21 16:02	07/15/21 15:11	1
Benzo[a]anthracene	8.0	J	37	5.0	ug/Kg	☼	07/14/21 16:02	07/15/21 15:11	1
Benzo[a]pyrene	12	J	37	7.2	ug/Kg	☼	07/14/21 16:02	07/15/21 15:11	1
Benzo[b]fluoranthene	16	J	37	8.1	ug/Kg	☼	07/14/21 16:02	07/15/21 15:11	1
Benzo[g,h,i]perylene	<12		37	12	ug/Kg	☼	07/14/21 16:02	07/15/21 15:11	1
Benzo[k]fluoranthene	<11		37	11	ug/Kg	☼	07/14/21 16:02	07/15/21 15:11	1
Chrysene	<10		37	10	ug/Kg	☼	07/14/21 16:02	07/15/21 15:11	1
Dibenz(a,h)anthracene	<7.2		37	7.2	ug/Kg	☼	07/14/21 16:02	07/15/21 15:11	1
Fluoranthene	14	J	37	6.9	ug/Kg	☼	07/14/21 16:02	07/15/21 15:11	1
Fluorene	<5.3		37	5.3	ug/Kg	☼	07/14/21 16:02	07/15/21 15:11	1
Indeno[1,2,3-cd]pyrene	<9.7		37	9.7	ug/Kg	☼	07/14/21 16:02	07/15/21 15:11	1
Naphthalene	<5.8		37	5.8	ug/Kg	☼	07/14/21 16:02	07/15/21 15:11	1
Phenanthrene	5.6	J	37	5.2	ug/Kg	☼	07/14/21 16:02	07/15/21 15:11	1
Pyrene	12	J	37	7.4	ug/Kg	☼	07/14/21 16:02	07/15/21 15:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	95		43 - 145	07/14/21 16:02	07/15/21 15:11	1
Nitrobenzene-d5 (Surr)	92		37 - 147	07/14/21 16:02	07/15/21 15:11	1
Terphenyl-d14 (Surr)	88		42 - 157	07/14/21 16:02	07/15/21 15:11	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.2		1.1	0.37	mg/Kg	☼	07/15/21 17:40	07/16/21 13:11	1
Barium	15		1.1	0.12	mg/Kg	☼	07/15/21 17:40	07/16/21 13:11	1
Cadmium	0.090	J B	0.22	0.039	mg/Kg	☼	07/15/21 17:40	07/16/21 13:11	1
Chromium	7.7		1.1	0.53	mg/Kg	☼	07/15/21 17:40	07/16/21 13:11	1
Lead	6.5		0.54	0.25	mg/Kg	☼	07/15/21 17:40	07/16/21 13:11	1
Selenium	<0.63		1.1	0.63	mg/Kg	☼	07/15/21 17:40	07/16/21 13:11	1
Silver	<0.14		0.54	0.14	mg/Kg	☼	07/15/21 17:40	07/16/21 13:11	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.018	0.0061	mg/Kg	☼	07/15/21 13:50	07/16/21 09:38	1

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Custer St. (35th-39th St) - 193708022

Job ID: 500-202162-1

Client Sample ID: 39th

Lab Sample ID: 500-202162-3

Date Collected: 07/09/21 09:45

Matrix: Solid

Date Received: 07/10/21 11:15

Percent Solids: 91.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<27		59	27	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
1,1,1-Trichloroethane	<22		59	22	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
1,1,2,2-Tetrachloroethane	<24		59	24	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
1,1,2-Trichloroethane	<21		59	21	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
1,1-Dichloroethane	<24		59	24	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
1,1-Dichloroethene	<23		59	23	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
1,1-Dichloropropene	<18		59	18	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
1,2,3-Trichlorobenzene	<27		59	27	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
1,2,3-Trichloropropane	<25		120	25	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
1,2,4-Trichlorobenzene	<20		59	20	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
1,2,4-Trimethylbenzene	<21		59	21	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
1,2-Dibromo-3-Chloropropane	<120		300	120	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
1,2-Dibromoethane	<23		59	23	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
1,2-Dichlorobenzene	<20		59	20	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
1,2-Dichloroethane	<23		59	23	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
1,2-Dichloropropane	<25		59	25	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
1,3,5-Trimethylbenzene	<22		59	22	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
1,3-Dichlorobenzene	<24		59	24	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
1,3-Dichloropropane	<21		59	21	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
1,4-Dichlorobenzene	<22		59	22	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
2,2-Dichloropropane	<26		59	26	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
2-Chlorotoluene	<19		59	19	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
4-Chlorotoluene	<21		59	21	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
Benzene	<8.6		15	8.6	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
Bromobenzene	<21		59	21	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
Bromochloromethane	<25		59	25	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
Bromodichloromethane	<22		59	22	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
Bromoform	<29		59	29	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
Bromomethane	<47		180	47	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
Carbon tetrachloride	<23		59	23	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
Chlorobenzene	<23		59	23	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
Chloroethane	<30		59	30	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
Chloroform	<22		120	22	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
Chloromethane	<19		59	19	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
cis-1,2-Dichloroethene	<24		59	24	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
cis-1,3-Dichloropropene	<25		59	25	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
Dibromochloromethane	<29		59	29	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
Dibromomethane	<16		59	16	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
Dichlorodifluoromethane	<40		180	40	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
Ethylbenzene	<11		15	11	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
Hexachlorobutadiene	<26		59	26	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
Isopropyl ether	<16		59	16	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
Isopropylbenzene	<23		59	23	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
Methyl tert-butyl ether	<23		59	23	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
Methylene Chloride	<96		300	96	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
Naphthalene	<20		59	20	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
n-Butylbenzene	<23		59	23	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
N-Propylbenzene	<25		59	25	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50
p-Isopropyltoluene	<21		59	21	ug/Kg	✱	07/09/21 09:45	07/15/21 13:12	50

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Custer St. (35th-39th St) - 193708022

Job ID: 500-202162-1

Client Sample ID: 39th

Lab Sample ID: 500-202162-3

Date Collected: 07/09/21 09:45

Matrix: Solid

Date Received: 07/10/21 11:15

Percent Solids: 91.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<24		59	24	ug/Kg	☼	07/09/21 09:45	07/15/21 13:12	50
Styrene	<23		59	23	ug/Kg	☼	07/09/21 09:45	07/15/21 13:12	50
tert-Butylbenzene	<24		59	24	ug/Kg	☼	07/09/21 09:45	07/15/21 13:12	50
Tetrachloroethene	<22		59	22	ug/Kg	☼	07/09/21 09:45	07/15/21 13:12	50
Toluene	<8.7		15	8.7	ug/Kg	☼	07/09/21 09:45	07/15/21 13:12	50
trans-1,2-Dichloroethene	<21		59	21	ug/Kg	☼	07/09/21 09:45	07/15/21 13:12	50
trans-1,3-Dichloropropene	<21		59	21	ug/Kg	☼	07/09/21 09:45	07/15/21 13:12	50
Trichloroethene	<9.7		30	9.7	ug/Kg	☼	07/09/21 09:45	07/15/21 13:12	50
Trichlorofluoromethane	<25		59	25	ug/Kg	☼	07/09/21 09:45	07/15/21 13:12	50
Vinyl chloride	<16		59	16	ug/Kg	☼	07/09/21 09:45	07/15/21 13:12	50
Xylenes, Total	<13		30	13	ug/Kg	☼	07/09/21 09:45	07/15/21 13:12	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		75 - 126				07/09/21 09:45	07/15/21 13:12	50
4-Bromofluorobenzene (Surr)	93		72 - 124				07/09/21 09:45	07/15/21 13:12	50
Dibromofluoromethane (Surr)	107		75 - 120				07/09/21 09:45	07/15/21 13:12	50
Toluene-d8 (Surr)	99		75 - 120				07/09/21 09:45	07/15/21 13:12	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	10	J	73	8.8	ug/Kg	☼	07/14/21 16:02	07/15/21 15:35	1
2-Methylnaphthalene	<6.7		73	6.7	ug/Kg	☼	07/14/21 16:02	07/15/21 15:35	1
Acenaphthene	<6.5		36	6.5	ug/Kg	☼	07/14/21 16:02	07/15/21 15:35	1
Acenaphthylene	<4.8		36	4.8	ug/Kg	☼	07/14/21 16:02	07/15/21 15:35	1
Anthracene	<6.1		36	6.1	ug/Kg	☼	07/14/21 16:02	07/15/21 15:35	1
Benzo[a]anthracene	10	J	36	4.9	ug/Kg	☼	07/14/21 16:02	07/15/21 15:35	1
Benzo[a]pyrene	14	J *3	36	7.0	ug/Kg	☼	07/14/21 16:02	07/15/21 15:35	1
Benzo[b]fluoranthene	<7.8	*3	36	7.8	ug/Kg	☼	07/14/21 16:02	07/15/21 15:35	1
Benzo[g,h,i]perylene	<12	*3	36	12	ug/Kg	☼	07/14/21 16:02	07/15/21 15:35	1
Benzo[k]fluoranthene	<11	*3	36	11	ug/Kg	☼	07/14/21 16:02	07/15/21 15:35	1
Chrysene	<9.9		36	9.9	ug/Kg	☼	07/14/21 16:02	07/15/21 15:35	1
Dibenz(a,h)anthracene	<7.0	*3	36	7.0	ug/Kg	☼	07/14/21 16:02	07/15/21 15:35	1
Fluoranthene	12	J	36	6.7	ug/Kg	☼	07/14/21 16:02	07/15/21 15:35	1
Fluorene	<5.1		36	5.1	ug/Kg	☼	07/14/21 16:02	07/15/21 15:35	1
Indeno[1,2,3-cd]pyrene	<9.4	*3	36	9.4	ug/Kg	☼	07/14/21 16:02	07/15/21 15:35	1
Naphthalene	<5.6		36	5.6	ug/Kg	☼	07/14/21 16:02	07/15/21 15:35	1
Phenanthrene	13	J	36	5.1	ug/Kg	☼	07/14/21 16:02	07/15/21 15:35	1
Pyrene	18	J	36	7.2	ug/Kg	☼	07/14/21 16:02	07/15/21 15:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	97		43 - 145				07/14/21 16:02	07/15/21 15:35	1
Nitrobenzene-d5 (Surr)	92		37 - 147				07/14/21 16:02	07/15/21 15:35	1
Terphenyl-d14 (Surr)	99		42 - 157				07/14/21 16:02	07/15/21 15:35	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.4		0.92	0.31	mg/Kg	☼	07/15/21 17:40	07/16/21 13:14	1
Barium	21		0.92	0.10	mg/Kg	☼	07/15/21 17:40	07/16/21 13:14	1
Cadmium	0.068	J B	0.18	0.033	mg/Kg	☼	07/15/21 17:40	07/16/21 13:14	1
Chromium	9.9		0.92	0.45	mg/Kg	☼	07/15/21 17:40	07/16/21 13:14	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Custer St. (35th-39th St) - 193708022

Job ID: 500-202162-1

Client Sample ID: 39th

Lab Sample ID: 500-202162-3

Date Collected: 07/09/21 09:45

Matrix: Solid

Date Received: 07/10/21 11:15

Percent Solids: 91.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.9		0.46	0.21	mg/Kg	☼	07/15/21 17:40	07/16/21 13:14	1
Selenium	<0.54		0.92	0.54	mg/Kg	☼	07/15/21 17:40	07/16/21 13:14	1
Silver	0.16	J	0.46	0.12	mg/Kg	☼	07/15/21 17:40	07/16/21 13:14	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016		0.016	0.0055	mg/Kg	☼	07/15/21 13:50	07/16/21 09:40	1



Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Custer St. (35th-39th St) - 193708022

Job ID: 500-202162-1

Client Sample ID: MACARTHUR

Lab Sample ID: 500-202162-4

Date Collected: 07/09/21 09:50

Matrix: Solid

Date Received: 07/10/21 11:15

Percent Solids: 86.5

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	✱	07/09/21 09:50	07/15/21 13:39	50
1,1,1-Trichloroethane	<25		66	25	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
1,1,2,2-Tetrachloroethane	<26		66	26	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
1,1,2-Trichloroethane	<23		66	23	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
1,1-Dichloroethane	<27		66	27	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
1,1-Dichloroethene	<26		66	26	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
1,1-Dichloropropene	<20		66	20	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
1,2,3-Trichlorobenzene	<30		66	30	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
1,2,3-Trichloropropane	<27		130	27	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
1,2,4-Trichlorobenzene	<23		66	23	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
1,2,4-Trimethylbenzene	<24		66	24	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
1,2-Dibromo-3-Chloropropane	<130		330	130	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
1,2-Dibromoethane	<26		66	26	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
1,2-Dichlorobenzene	<22		66	22	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
1,2-Dichloroethane	<26		66	26	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
1,2-Dichloropropane	<28		66	28	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
1,3,5-Trimethylbenzene	<25		66	25	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
1,3-Dichlorobenzene	<26		66	26	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
1,3-Dichloropropane	<24		66	24	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
1,4-Dichlorobenzene	<24		66	24	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
2,2-Dichloropropane	<29		66	29	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
2-Chlorotoluene	<21		66	21	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
4-Chlorotoluene	<23		66	23	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
Benzene	<9.7		17	9.7	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
Bromobenzene	<24		66	24	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
Bromochloromethane	<28		66	28	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
Bromodichloromethane	<25		66	25	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
Bromoform	<32		66	32	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
Bromomethane	<53		200	53	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
Carbon tetrachloride	<25		66	25	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
Chlorobenzene	<26		66	26	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
Chloroethane	<33		66	33	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
Chloroform	<24		130	24	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
Chloromethane	<21		66	21	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
cis-1,2-Dichloroethene	<27		66	27	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
cis-1,3-Dichloropropene	<28		66	28	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
Dibromochloromethane	<32		66	32	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
Dibromomethane	<18		66	18	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
Dichlorodifluoromethane	<45		200	45	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
Ethylbenzene	<12		17	12	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
Hexachlorobutadiene	<30		66	30	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
Isopropyl ether	<18		66	18	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
Isopropylbenzene	<25		66	25	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
Methyl tert-butyl ether	<26		66	26	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
Methylene Chloride	<110		330	110	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
Naphthalene	<22		66	22	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
n-Butylbenzene	<26		66	26	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
N-Propylbenzene	<27		66	27	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50
p-Isopropyltoluene	<24		66	24	ug/Kg	✱	07/09/21 09:50	07/15/21 13:39	50

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Custer St. (35th-39th St) - 193708022

Job ID: 500-202162-1

Client Sample ID: MACARTHUR

Lab Sample ID: 500-202162-4

Date Collected: 07/09/21 09:50

Matrix: Solid

Date Received: 07/10/21 11:15

Percent Solids: 86.5

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	☼	07/09/21 09:50	07/15/21 13:39	50
Styrene	<26		66	26	ug/Kg	☼	07/09/21 09:50	07/15/21 13:39	50
tert-Butylbenzene	<26		66	26	ug/Kg	☼	07/09/21 09:50	07/15/21 13:39	50
Tetrachloroethene	<24		66	24	ug/Kg	☼	07/09/21 09:50	07/15/21 13:39	50
Toluene	<9.7		17	9.7	ug/Kg	☼	07/09/21 09:50	07/15/21 13:39	50
trans-1,2-Dichloroethene	<23		66	23	ug/Kg	☼	07/09/21 09:50	07/15/21 13:39	50
trans-1,3-Dichloropropene	<24		66	24	ug/Kg	☼	07/09/21 09:50	07/15/21 13:39	50
Trichloroethene	<11		33	11	ug/Kg	☼	07/09/21 09:50	07/15/21 13:39	50
Trichlorofluoromethane	<28		66	28	ug/Kg	☼	07/09/21 09:50	07/15/21 13:39	50
Vinyl chloride	<17		66	17	ug/Kg	☼	07/09/21 09:50	07/15/21 13:39	50
Xylenes, Total	<15		33	15	ug/Kg	☼	07/09/21 09:50	07/15/21 13:39	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		75 - 126				07/09/21 09:50	07/15/21 13:39	50
4-Bromofluorobenzene (Surr)	94		72 - 124				07/09/21 09:50	07/15/21 13:39	50
Dibromofluoromethane (Surr)	108		75 - 120				07/09/21 09:50	07/15/21 13:39	50
Toluene-d8 (Surr)	100		75 - 120				07/09/21 09:50	07/15/21 13:39	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<9.3		77	9.3	ug/Kg	☼	07/14/21 16:02	07/15/21 12:48	1
2-Methylnaphthalene	<7.0		77	7.0	ug/Kg	☼	07/14/21 16:02	07/15/21 12:48	1
Acenaphthene	<6.9		38	6.9	ug/Kg	☼	07/14/21 16:02	07/15/21 12:48	1
Acenaphthylene	<5.0		38	5.0	ug/Kg	☼	07/14/21 16:02	07/15/21 12:48	1
Anthracene	<6.4		38	6.4	ug/Kg	☼	07/14/21 16:02	07/15/21 12:48	1
Benzo[a]anthracene	<5.2		38	5.2	ug/Kg	☼	07/14/21 16:02	07/15/21 12:48	1
Benzo[a]pyrene	<7.4		38	7.4	ug/Kg	☼	07/14/21 16:02	07/15/21 12:48	1
Benzo[b]fluoranthene	<8.3		38	8.3	ug/Kg	☼	07/14/21 16:02	07/15/21 12:48	1
Benzo[g,h,i]perylene	<12		38	12	ug/Kg	☼	07/14/21 16:02	07/15/21 12:48	1
Benzo[k]fluoranthene	<11		38	11	ug/Kg	☼	07/14/21 16:02	07/15/21 12:48	1
Chrysene	<10		38	10	ug/Kg	☼	07/14/21 16:02	07/15/21 12:48	1
Dibenz(a,h)anthracene	<7.4		38	7.4	ug/Kg	☼	07/14/21 16:02	07/15/21 12:48	1
Fluoranthene	<7.1		38	7.1	ug/Kg	☼	07/14/21 16:02	07/15/21 12:48	1
Fluorene	<5.4		38	5.4	ug/Kg	☼	07/14/21 16:02	07/15/21 12:48	1
Indeno[1,2,3-cd]pyrene	<9.9		38	9.9	ug/Kg	☼	07/14/21 16:02	07/15/21 12:48	1
Naphthalene	<5.9		38	5.9	ug/Kg	☼	07/14/21 16:02	07/15/21 12:48	1
Phenanthrene	<5.3		38	5.3	ug/Kg	☼	07/14/21 16:02	07/15/21 12:48	1
Pyrene	<7.6		38	7.6	ug/Kg	☼	07/14/21 16:02	07/15/21 12:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	87		43 - 145				07/14/21 16:02	07/15/21 12:48	1
Nitrobenzene-d5 (Surr)	95		37 - 147				07/14/21 16:02	07/15/21 12:48	1
Terphenyl-d14 (Surr)	102		42 - 157				07/14/21 16:02	07/15/21 12:48	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.75	J	1.1	0.36	mg/Kg	☼	07/15/21 17:40	07/16/21 13:18	1
Barium	12		1.1	0.12	mg/Kg	☼	07/15/21 17:40	07/16/21 13:18	1
Cadmium	0.041	J B	0.21	0.038	mg/Kg	☼	07/15/21 17:40	07/16/21 13:18	1
Chromium	5.5		1.1	0.52	mg/Kg	☼	07/15/21 17:40	07/16/21 13:18	1

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Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Custer St. (35th-39th St) - 193708022

Job ID: 500-202162-1

Client Sample ID: MACARTHUR

Lab Sample ID: 500-202162-4

Date Collected: 07/09/21 09:50

Matrix: Solid

Date Received: 07/10/21 11:15

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.9		0.53	0.24	mg/Kg	✱	07/15/21 17:40	07/16/21 13:18	1
Selenium	<0.62		1.1	0.62	mg/Kg	✱	07/15/21 17:40	07/16/21 13:18	1
Silver	<0.14		0.53	0.14	mg/Kg	✱	07/15/21 17:40	07/16/21 13:18	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.010	J	0.019	0.0062	mg/Kg	✱	07/15/21 13:50	07/16/21 09:42	1

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Custer St. (35th-39th St) - 193708022

Job ID: 500-202162-1

Client Sample ID: ROBALO

Lab Sample ID: 500-202162-5

Date Collected: 07/09/21 10:00

Matrix: Solid

Date Received: 07/10/21 11:15

Percent Solids: 92.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<27		58	27	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
1,1,1-Trichloroethane	<22		58	22	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
1,1,2,2-Tetrachloroethane	<23		58	23	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
1,1,2-Trichloroethane	<20		58	20	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
1,1-Dichloroethane	<24		58	24	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
1,1-Dichloroethene	<23		58	23	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
1,1-Dichloropropene	<17		58	17	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
1,2,3-Trichlorobenzene	<27		58	27	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
1,2,3-Trichloropropane	<24		120	24	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
1,2,4-Trichlorobenzene	<20		58	20	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
1,2,4-Trimethylbenzene	<21		58	21	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
1,2-Dibromo-3-Chloropropane	<120		290	120	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
1,2-Dibromoethane	<22		58	22	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
1,2-Dichlorobenzene	<19		58	19	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
1,2-Dichloroethane	<23		58	23	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
1,2-Dichloropropane	<25		58	25	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
1,3,5-Trimethylbenzene	<22		58	22	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
1,3-Dichlorobenzene	<23		58	23	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
1,3-Dichloropropane	<21		58	21	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
1,4-Dichlorobenzene	<21		58	21	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
2,2-Dichloropropane	<26		58	26	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
2-Chlorotoluene	<18		58	18	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
4-Chlorotoluene	<20		58	20	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
Benzene	<8.5		15	8.5	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
Bromobenzene	<21		58	21	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
Bromochloromethane	<25		58	25	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
Bromodichloromethane	<22		58	22	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
Bromoform	<28		58	28	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
Bromomethane	<46		170	46	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
Carbon tetrachloride	<22		58	22	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
Chlorobenzene	<22		58	22	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
Chloroethane	<29		58	29	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
Chloroform	<22		120	22	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
Chloromethane	<19		58	19	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
cis-1,2-Dichloroethene	<24		58	24	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
cis-1,3-Dichloropropene	<24		58	24	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
Dibromochloromethane	<28		58	28	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
Dibromomethane	<16		58	16	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
Dichlorodifluoromethane	<39		170	39	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
Ethylbenzene	<11		15	11	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
Hexachlorobutadiene	<26		58	26	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
Isopropyl ether	<16		58	16	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
Isopropylbenzene	<22		58	22	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
Methyl tert-butyl ether	<23		58	23	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
Methylene Chloride	<95		290	95	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
Naphthalene	<19		58	19	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
n-Butylbenzene	<23		58	23	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
N-Propylbenzene	<24		58	24	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50
p-Isopropyltoluene	<21		58	21	ug/Kg	☼	07/09/21 10:00	07/15/21 14:06	50

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Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Custer St. (35th-39th St) - 193708022

Job ID: 500-202162-1

Client Sample ID: ROBALO

Lab Sample ID: 500-202162-5

Date Collected: 07/09/21 10:00

Matrix: Solid

Date Received: 07/10/21 11:15

Percent Solids: 92.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<23		58	23	ug/Kg	✳	07/09/21 10:00	07/15/21 14:06	50
Styrene	<22		58	22	ug/Kg	✳	07/09/21 10:00	07/15/21 14:06	50
tert-Butylbenzene	<23		58	23	ug/Kg	✳	07/09/21 10:00	07/15/21 14:06	50
Tetrachloroethene	<22		58	22	ug/Kg	✳	07/09/21 10:00	07/15/21 14:06	50
Toluene	<8.6		15	8.6	ug/Kg	✳	07/09/21 10:00	07/15/21 14:06	50
trans-1,2-Dichloroethene	<20		58	20	ug/Kg	✳	07/09/21 10:00	07/15/21 14:06	50
trans-1,3-Dichloropropene	<21		58	21	ug/Kg	✳	07/09/21 10:00	07/15/21 14:06	50
Trichloroethene	<9.5		29	9.5	ug/Kg	✳	07/09/21 10:00	07/15/21 14:06	50
Trichlorofluoromethane	<25		58	25	ug/Kg	✳	07/09/21 10:00	07/15/21 14:06	50
Vinyl chloride	<15		58	15	ug/Kg	✳	07/09/21 10:00	07/15/21 14:06	50
Xylenes, Total	<13		29	13	ug/Kg	✳	07/09/21 10:00	07/15/21 14:06	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		75 - 126				07/09/21 10:00	07/15/21 14:06	50
4-Bromofluorobenzene (Surr)	92		72 - 124				07/09/21 10:00	07/15/21 14:06	50
Dibromofluoromethane (Surr)	109		75 - 120				07/09/21 10:00	07/15/21 14:06	50
Toluene-d8 (Surr)	97		75 - 120				07/09/21 10:00	07/15/21 14:06	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.8		73	8.8	ug/Kg	✳	07/14/21 16:02	07/15/21 13:11	1
2-Methylnaphthalene	<6.6		73	6.6	ug/Kg	✳	07/14/21 16:02	07/15/21 13:11	1
Acenaphthene	<6.5		36	6.5	ug/Kg	✳	07/14/21 16:02	07/15/21 13:11	1
Acenaphthylene	<4.7		36	4.7	ug/Kg	✳	07/14/21 16:02	07/15/21 13:11	1
Anthracene	<6.0		36	6.0	ug/Kg	✳	07/14/21 16:02	07/15/21 13:11	1
Benzo[a]anthracene	<4.8		36	4.8	ug/Kg	✳	07/14/21 16:02	07/15/21 13:11	1
Benzo[a]pyrene	<7.0		36	7.0	ug/Kg	✳	07/14/21 16:02	07/15/21 13:11	1
Benzo[b]fluoranthene	<7.8		36	7.8	ug/Kg	✳	07/14/21 16:02	07/15/21 13:11	1
Benzo[g,h,i]perylene	<12		36	12	ug/Kg	✳	07/14/21 16:02	07/15/21 13:11	1
Benzo[k]fluoranthene	<11		36	11	ug/Kg	✳	07/14/21 16:02	07/15/21 13:11	1
Chrysene	<9.8		36	9.8	ug/Kg	✳	07/14/21 16:02	07/15/21 13:11	1
Dibenz(a,h)anthracene	<6.9		36	6.9	ug/Kg	✳	07/14/21 16:02	07/15/21 13:11	1
Fluoranthene	<6.7		36	6.7	ug/Kg	✳	07/14/21 16:02	07/15/21 13:11	1
Fluorene	<5.1		36	5.1	ug/Kg	✳	07/14/21 16:02	07/15/21 13:11	1
Indeno[1,2,3-cd]pyrene	<9.3		36	9.3	ug/Kg	✳	07/14/21 16:02	07/15/21 13:11	1
Naphthalene	<5.5		36	5.5	ug/Kg	✳	07/14/21 16:02	07/15/21 13:11	1
Phenanthrene	<5.0		36	5.0	ug/Kg	✳	07/14/21 16:02	07/15/21 13:11	1
Pyrene	<7.1		36	7.1	ug/Kg	✳	07/14/21 16:02	07/15/21 13:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	87		43 - 145				07/14/21 16:02	07/15/21 13:11	1
Nitrobenzene-d5 (Surr)	91		37 - 147				07/14/21 16:02	07/15/21 13:11	1
Terphenyl-d14 (Surr)	100		42 - 157				07/14/21 16:02	07/15/21 13:11	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.66	J	0.95	0.33	mg/Kg	✳	07/15/21 17:40	07/19/21 11:53	1
Barium	10		0.95	0.11	mg/Kg	✳	07/15/21 17:40	07/19/21 11:53	1
Cadmium	0.064	J B	0.19	0.034	mg/Kg	✳	07/15/21 17:40	07/19/21 11:53	1
Chromium	5.1		0.95	0.47	mg/Kg	✳	07/15/21 17:40	07/19/21 11:53	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Custer St. (35th-39th St) - 193708022

Job ID: 500-202162-1

Client Sample ID: ROBALO

Lab Sample ID: 500-202162-5

Date Collected: 07/09/21 10:00

Matrix: Solid

Date Received: 07/10/21 11:15

Percent Solids: 92.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.1		0.48	0.22	mg/Kg	☼	07/15/21 17:40	07/19/21 11:53	1
Selenium	<0.56		0.95	0.56	mg/Kg	☼	07/15/21 17:40	07/19/21 11:53	1
Silver	0.17	J	0.48	0.12	mg/Kg	☼	07/15/21 17:40	07/19/21 11:53	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	J	0.018	0.0059	mg/Kg	☼	07/15/21 13:50	07/16/21 09:43	1

Definitions/Glossary

Client: Stantec Consulting Corp.
Project/Site: Custer St. (35th-39th St) - 193708022

Job ID: 500-202162-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
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.
¤	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: Custer St. (35th-39th St) - 193708022

Job ID: 500-202162-1

GC/MS VOA

Prep Batch: 608761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202162-1	37th	Total/NA	Solid	5035	
500-202162-3	39th	Total/NA	Solid	5035	
500-202162-4	MACARTHUR	Total/NA	Solid	5035	
500-202162-5	ROBALO	Total/NA	Solid	5035	
LB3 500-608761/17-A	Method Blank	Total/NA	Solid	5035	
LCS 500-608761/18-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 609467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202162-1	37th	Total/NA	Solid	8260B	608761
500-202162-3	39th	Total/NA	Solid	8260B	608761
500-202162-4	MACARTHUR	Total/NA	Solid	8260B	608761
500-202162-5	ROBALO	Total/NA	Solid	8260B	608761
LB3 500-608761/17-A	Method Blank	Total/NA	Solid	8260B	608761
MB 500-609467/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-609467/28	Lab Control Sample	Total/NA	Solid	8260B	

Analysis Batch: 609670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-609670/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-608761/18-A	Lab Control Sample	Total/NA	Solid	8260B	608761

GC/MS Semi VOA

Prep Batch: 609391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202162-1	37th	Total/NA	Solid	3541	
500-202162-2	35th	Total/NA	Solid	3541	
500-202162-3	39th	Total/NA	Solid	3541	
500-202162-4	MACARTHUR	Total/NA	Solid	3541	
500-202162-5	ROBALO	Total/NA	Solid	3541	
MB 500-609391/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-609391/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 609481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202162-1	37th	Total/NA	Solid	8270D	609391
500-202162-2	35th	Total/NA	Solid	8270D	609391
500-202162-3	39th	Total/NA	Solid	8270D	609391
500-202162-4	MACARTHUR	Total/NA	Solid	8270D	609391
500-202162-5	ROBALO	Total/NA	Solid	8270D	609391
MB 500-609391/1-A	Method Blank	Total/NA	Solid	8270D	609391
LCS 500-609391/2-A	Lab Control Sample	Total/NA	Solid	8270D	609391

Metals

Prep Batch: 609557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202162-1	37th	Total/NA	Solid	7471B	
500-202162-2	35th	Total/NA	Solid	7471B	
500-202162-3	39th	Total/NA	Solid	7471B	
500-202162-4	MACARTHUR	Total/NA	Solid	7471B	

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QC Association Summary

Client: Stantec Consulting Corp.
 Project/Site: Custer St. (35th-39th St) - 193708022

Job ID: 500-202162-1

Metals (Continued)

Prep Batch: 609557 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202162-5	ROBALO	Total/NA	Solid	7471B	
MB 500-609557/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-609557/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 609596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202162-1	37th	Total/NA	Solid	3050B	
500-202162-2	35th	Total/NA	Solid	3050B	
500-202162-3	39th	Total/NA	Solid	3050B	
500-202162-4	MACARTHUR	Total/NA	Solid	3050B	
500-202162-5	ROBALO	Total/NA	Solid	3050B	
MB 500-609596/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-609596/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 609737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202162-1	37th	Total/NA	Solid	7471B	609557
500-202162-2	35th	Total/NA	Solid	7471B	609557
500-202162-3	39th	Total/NA	Solid	7471B	609557
500-202162-4	MACARTHUR	Total/NA	Solid	7471B	609557
500-202162-5	ROBALO	Total/NA	Solid	7471B	609557
MB 500-609557/12-A	Method Blank	Total/NA	Solid	7471B	609557
LCS 500-609557/13-A	Lab Control Sample	Total/NA	Solid	7471B	609557

Analysis Batch: 609785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202162-1	37th	Total/NA	Solid	6010C	609596
500-202162-2	35th	Total/NA	Solid	6010C	609596
500-202162-3	39th	Total/NA	Solid	6010C	609596
500-202162-4	MACARTHUR	Total/NA	Solid	6010C	609596
MB 500-609596/1-A	Method Blank	Total/NA	Solid	6010C	609596
LCS 500-609596/2-A	Lab Control Sample	Total/NA	Solid	6010C	609596

Analysis Batch: 610027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202162-5	ROBALO	Total/NA	Solid	6010C	609596

General Chemistry

Analysis Batch: 609556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202162-1	37th	Total/NA	Solid	Moisture	
500-202162-2	35th	Total/NA	Solid	Moisture	
500-202162-3	39th	Total/NA	Solid	Moisture	
500-202162-4	MACARTHUR	Total/NA	Solid	Moisture	
500-202162-5	ROBALO	Total/NA	Solid	Moisture	
500-202162-1 DU	37th	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Stantec Consulting Corp.
Project/Site: Custer St. (35th-39th St) - 193708022

Job ID: 500-202162-1

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	BFB	DBFM	TOL
		(75-126)	(72-124)	(75-120)	(75-120)
500-202162-1	37th	102	94	105	99
500-202162-3	39th	102	93	107	99
500-202162-4	MACARTHUR	102	94	108	100
500-202162-5	ROBALO	102	92	109	97
LB3 500-608761/17-A	Method Blank	101	95	106	98
LCS 500-608761/18-A	Lab Control Sample	98	98	98	111
LCS 500-609467/28	Lab Control Sample	118	93	110	97
MB 500-609467/6	Method Blank	99	96	106	98
MB 500-609670/7	Method Blank	106	117	104	107

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	NBZ	TPHL
		(43-145)	(37-147)	(42-157)
500-202162-1	37th	87	90	94
500-202162-2	35th	95	92	88
500-202162-3	39th	97	92	99
500-202162-4	MACARTHUR	87	95	102
500-202162-5	ROBALO	87	91	100
LCS 500-609391/2-A	Lab Control Sample	117	120	116
MB 500-609391/1-A	Method Blank	103	104	111

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)

NBZ = Nitrobenzene-d5 (Surr)

TPHL = Terphenyl-d14 (Surr)

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Custer St. (35th-39th St) - 193708022

Job ID: 500-202162-1

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

Lab Sample ID: LB3 500-608761/17-A
Matrix: Solid
Analysis Batch: 609467

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 608761

Analyte	LB3	LB3	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,1-Dichloroethane	<21		50	21	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,1-Dichloroethene	<20		50	20	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,1-Dichloropropene	<15		50	15	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,2,3-Trichloropropane	<21		100	21	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,2,4-Trichlorobenzene	19.7	J	50	17	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,2-Dibromoethane	<19		50	19	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,2-Dichloroethane	<20		50	20	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,2-Dichloropropane	<21		50	21	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,3-Dichloropropane	<18		50	18	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
2,2-Dichloropropane	<22		50	22	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
2-Chlorotoluene	<16		50	16	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
4-Chlorotoluene	<18		50	18	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Benzene	<7.3		13	7.3	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Bromobenzene	<18		50	18	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Bromochloromethane	<21		50	21	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Bromodichloromethane	<19		50	19	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Bromoform	<24		50	24	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Bromomethane	<40		150	40	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Carbon tetrachloride	<19		50	19	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Chlorobenzene	<19		50	19	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Chloroethane	<25		50	25	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Chloroform	<19		100	19	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Chloromethane	<16		50	16	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Dibromochloromethane	<24		50	24	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Dibromomethane	<14		50	14	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Dichlorodifluoromethane	<34		150	34	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Hexachlorobutadiene	<22		50	22	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Isopropyl ether	<14		50	14	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Isopropylbenzene	<19		50	19	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Methylene Chloride	<82		250	82	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Naphthalene	<17		50	17	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
n-Butylbenzene	<19		50	19	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
N-Propylbenzene	<21		50	21	ug/Kg		07/11/21 18:50	07/15/21 11:52	50

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Custer St. (35th-39th St) - 193708022

Job ID: 500-202162-1

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

Lab Sample ID: LB3 500-608761/17-A
Matrix: Solid
Analysis Batch: 609467

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 608761

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<18		50	18	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
sec-Butylbenzene	<20		50	20	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Styrene	<19		50	19	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
tert-Butylbenzene	<20		50	20	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Tetrachloroethene	<19		50	19	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Toluene	<7.4		13	7.4	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Trichloroethene	<8.2		25	8.2	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Trichlorofluoromethane	<21		50	21	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Vinyl chloride	<13		50	13	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Xylenes, Total	<11		25	11	ug/Kg		07/11/21 18:50	07/15/21 11:52	50

Surrogate	LB3 %Recovery	LB3 Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		75 - 126	07/11/21 18:50	07/15/21 11:52	50
4-Bromofluorobenzene (Surr)	95		72 - 124	07/11/21 18:50	07/15/21 11:52	50
Dibromofluoromethane (Surr)	106		75 - 120	07/11/21 18:50	07/15/21 11:52	50
Toluene-d8 (Surr)	98		75 - 120	07/11/21 18:50	07/15/21 11:52	50

Lab Sample ID: LCS 500-608761/18-A
Matrix: Solid
Analysis Batch: 609670

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 608761

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,1,1,2-Tetrachloroethane	2500	2650		ug/Kg		106	70 - 125
1,1,1-Trichloroethane	2500	2890		ug/Kg		115	70 - 125
1,1,1,2-Tetrachloroethane	2500	2050		ug/Kg		82	62 - 140
1,1,2-Trichloroethane	2500	2150		ug/Kg		86	71 - 130
1,1-Dichloroethane	2500	2530		ug/Kg		101	70 - 125
1,1-Dichloroethene	2500	2020		ug/Kg		81	67 - 122
1,1-Dichloropropene	2500	2520		ug/Kg		101	70 - 121
1,2,3-Trichlorobenzene	2500	2390		ug/Kg		95	51 - 145
1,2,3-Trichloropropane	2500	2140		ug/Kg		86	50 - 133
1,2,4-Trichlorobenzene	2500	2500		ug/Kg		100	57 - 137
1,2,4-Trimethylbenzene	2500	2340		ug/Kg		94	70 - 123
1,2-Dibromo-3-Chloropropane	2500	2040		ug/Kg		82	56 - 123
1,2-Dibromoethane	2500	2180		ug/Kg		87	70 - 125
1,2-Dichlorobenzene	2500	2100		ug/Kg		84	70 - 125
1,2-Dichloroethane	2500	2370		ug/Kg		95	68 - 127
1,2-Dichloropropane	2500	2360		ug/Kg		94	67 - 130
1,3,5-Trimethylbenzene	2500	2380		ug/Kg		95	70 - 123
1,3-Dichlorobenzene	2500	2220		ug/Kg		89	70 - 125
1,3-Dichloropropane	2500	2260		ug/Kg		90	62 - 136
1,4-Dichlorobenzene	2500	2170		ug/Kg		87	70 - 120
2,2-Dichloropropane	2500	3160		ug/Kg		127	58 - 139
2-Chlorotoluene	2500	2360		ug/Kg		95	70 - 125
4-Chlorotoluene	2500	2340		ug/Kg		93	68 - 124
Benzene	2500	2180		ug/Kg		87	70 - 120

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Custer St. (35th-39th St) - 193708022

Job ID: 500-202162-1

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

Lab Sample ID: LCS 500-608761/18-A
Matrix: Solid
Analysis Batch: 609670

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 608761

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	2500	2270		ug/Kg		91	70 - 122
Bromochloromethane	2500	2120		ug/Kg		85	65 - 122
Bromodichloromethane	2500	2390		ug/Kg		96	69 - 120
Bromoform	2500	2630		ug/Kg		105	56 - 132
Bromomethane	2500	2100		ug/Kg		84	40 - 152
Carbon tetrachloride	2500	2560		ug/Kg		103	59 - 133
Chlorobenzene	2500	2290		ug/Kg		92	70 - 120
Chloroethane	2500	2150		ug/Kg		86	48 - 136
Chloroform	2500	2370		ug/Kg		95	70 - 120
Chloromethane	2500	1770		ug/Kg		71	56 - 152
cis-1,2-Dichloroethene	2500	2250		ug/Kg		90	70 - 125
cis-1,3-Dichloropropene	2500	2390		ug/Kg		96	64 - 127
Dibromochloromethane	2500	2520		ug/Kg		101	68 - 125
Dibromomethane	2500	2070		ug/Kg		83	70 - 120
Dichlorodifluoromethane	2500	1060		ug/Kg		43	40 - 159
Ethylbenzene	2500	2470		ug/Kg		99	70 - 123
Hexachlorobutadiene	2500	3300		ug/Kg		132	51 - 150
Isopropylbenzene	2500	2380		ug/Kg		95	70 - 126
Methyl tert-butyl ether	2500	1890		ug/Kg		75	55 - 123
Methylene Chloride	2500	2080		ug/Kg		83	69 - 125
Naphthalene	2500	1860		ug/Kg		74	53 - 144
n-Butylbenzene	2500	2580		ug/Kg		103	68 - 125
N-Propylbenzene	2500	2410		ug/Kg		96	69 - 127
p-Isopropyltoluene	2500	2460		ug/Kg		98	70 - 125
sec-Butylbenzene	2500	2380		ug/Kg		95	70 - 123
Styrene	2500	2350		ug/Kg		94	70 - 120
tert-Butylbenzene	2500	2370		ug/Kg		95	70 - 121
Tetrachloroethene	2500	2730		ug/Kg		109	70 - 128
Toluene	2500	2450		ug/Kg		98	70 - 125
trans-1,2-Dichloroethene	2500	2320		ug/Kg		93	70 - 125
trans-1,3-Dichloropropene	2500	2350		ug/Kg		94	62 - 128
Trichloroethene	2500	2260		ug/Kg		90	70 - 125
Trichlorofluoromethane	2500	2270		ug/Kg		91	55 - 128
Vinyl chloride	2500	1930		ug/Kg		77	64 - 126
Xylenes, Total	5000	5060		ug/Kg		101	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		75 - 126
4-Bromofluorobenzene (Surr)	98		72 - 124
Dibromofluoromethane (Surr)	98		75 - 120
Toluene-d8 (Surr)	111		75 - 120

Lab Sample ID: MB 500-609467/6
Matrix: Solid
Analysis Batch: 609467

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			07/15/21 11:25	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Custer St. (35th-39th St) - 193708022

Job ID: 500-202162-1

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

Lab Sample ID: MB 500-609467/6
Matrix: Solid
Analysis Batch: 609467

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			07/15/21 11:25	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			07/15/21 11:25	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			07/15/21 11:25	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			07/15/21 11:25	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			07/15/21 11:25	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			07/15/21 11:25	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			07/15/21 11:25	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			07/15/21 11:25	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			07/15/21 11:25	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			07/15/21 11:25	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			07/15/21 11:25	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			07/15/21 11:25	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			07/15/21 11:25	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			07/15/21 11:25	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			07/15/21 11:25	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			07/15/21 11:25	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			07/15/21 11:25	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			07/15/21 11:25	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			07/15/21 11:25	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			07/15/21 11:25	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			07/15/21 11:25	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			07/15/21 11:25	1
Benzene	<0.15		0.25	0.15	ug/Kg			07/15/21 11:25	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			07/15/21 11:25	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			07/15/21 11:25	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			07/15/21 11:25	1
Bromoform	<0.48		1.0	0.48	ug/Kg			07/15/21 11:25	1
Bromomethane	<0.80		3.0	0.80	ug/Kg			07/15/21 11:25	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			07/15/21 11:25	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			07/15/21 11:25	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			07/15/21 11:25	1
Chloroform	<0.37		2.0	0.37	ug/Kg			07/15/21 11:25	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			07/15/21 11:25	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			07/15/21 11:25	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			07/15/21 11:25	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			07/15/21 11:25	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			07/15/21 11:25	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/Kg			07/15/21 11:25	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			07/15/21 11:25	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			07/15/21 11:25	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			07/15/21 11:25	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			07/15/21 11:25	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			07/15/21 11:25	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			07/15/21 11:25	1
Naphthalene	0.382	J	1.0	0.33	ug/Kg			07/15/21 11:25	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			07/15/21 11:25	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			07/15/21 11:25	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			07/15/21 11:25	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			07/15/21 11:25	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Custer St. (35th-39th St) - 193708022

Job ID: 500-202162-1

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

Lab Sample ID: MB 500-609467/6
Matrix: Solid
Analysis Batch: 609467

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			07/15/21 11:25	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			07/15/21 11:25	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			07/15/21 11:25	1
Toluene	<0.15		0.25	0.15	ug/Kg			07/15/21 11:25	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			07/15/21 11:25	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			07/15/21 11:25	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			07/15/21 11:25	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			07/15/21 11:25	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			07/15/21 11:25	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			07/15/21 11:25	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	99		75 - 126		07/15/21 11:25	1
4-Bromofluorobenzene (Surr)	96		72 - 124		07/15/21 11:25	1
Dibromofluoromethane (Surr)	106		75 - 120		07/15/21 11:25	1
Toluene-d8 (Surr)	98		75 - 120		07/15/21 11:25	1

Lab Sample ID: LCS 500-609467/28
Matrix: Solid
Analysis Batch: 609467

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	48.2		ug/Kg		96	70 - 125
1,1,2,2-Tetrachloroethane	50.0	61.3		ug/Kg		123	62 - 140
1,1,2-Trichloroethane	50.0	63.3		ug/Kg		127	71 - 130
1,1-Dichloroethane	50.0	47.5		ug/Kg		95	70 - 125
1,1-Dichloroethene	50.0	49.0		ug/Kg		98	67 - 122
1,1-Dichloropropene	50.0	45.0		ug/Kg		90	70 - 121
1,2,3-Trichlorobenzene	50.0	53.7		ug/Kg		107	51 - 145
1,2,3-Trichloropropane	50.0	64.0		ug/Kg		128	50 - 133
1,2,4-Trichlorobenzene	50.0	50.6		ug/Kg		101	57 - 137
1,2,4-Trimethylbenzene	50.0	46.2		ug/Kg		92	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	60.3		ug/Kg		121	56 - 123
1,2-Dibromoethane	50.0	64.0	*+	ug/Kg		128	70 - 125
1,2-Dichlorobenzene	50.0	52.6		ug/Kg		105	70 - 125
1,2-Dichloroethane	50.0	58.6		ug/Kg		117	68 - 127
1,2-Dichloropropane	50.0	50.8		ug/Kg		102	67 - 130
1,3,5-Trimethylbenzene	50.0	44.7		ug/Kg		89	70 - 123
1,3-Dichlorobenzene	50.0	49.5		ug/Kg		99	70 - 125
1,3-Dichloropropane	50.0	61.6		ug/Kg		123	62 - 136
1,4-Dichlorobenzene	50.0	50.4		ug/Kg		101	70 - 120
2,2-Dichloropropane	50.0	47.0		ug/Kg		94	58 - 139
2-Chlorotoluene	50.0	45.9		ug/Kg		92	70 - 125
4-Chlorotoluene	50.0	48.1		ug/Kg		96	68 - 124
Benzene	50.0	50.9		ug/Kg		102	70 - 120
Bromobenzene	50.0	51.6		ug/Kg		103	70 - 122
Bromochloromethane	50.0	60.3		ug/Kg		121	65 - 122

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Custer St. (35th-39th St) - 193708022

Job ID: 500-202162-1

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

Lab Sample ID: LCS 500-609467/28
Matrix: Solid
Analysis Batch: 609467

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	55.9		ug/Kg		112	69 - 120
Bromoform	50.0	66.6	*+	ug/Kg		133	56 - 132
Bromomethane	50.0	49.3		ug/Kg		99	40 - 152
Carbon tetrachloride	50.0	46.7		ug/Kg		93	59 - 133
Chlorobenzene	50.0	53.3		ug/Kg		107	70 - 120
Chloroethane	50.0	51.8		ug/Kg		104	48 - 136
Chloroform	50.0	53.5		ug/Kg		107	70 - 120
Chloromethane	50.0	43.5		ug/Kg		87	56 - 152
cis-1,2-Dichloroethene	50.0	52.6		ug/Kg		105	70 - 125
cis-1,3-Dichloropropene	50.0	52.7		ug/Kg		105	64 - 127
Dibromochloromethane	50.0	57.8		ug/Kg		116	68 - 125
Dibromomethane	50.0	64.8	*+	ug/Kg		130	70 - 120
Dichlorodifluoromethane	50.0	50.3		ug/Kg		101	40 - 159
Ethylbenzene	50.0	46.9		ug/Kg		94	70 - 123
Hexachlorobutadiene	50.0	48.6		ug/Kg		97	51 - 150
Isopropylbenzene	50.0	41.8		ug/Kg		84	70 - 126
Methyl tert-butyl ether	50.0	57.5		ug/Kg		115	55 - 123
Methylene Chloride	50.0	58.7		ug/Kg		117	69 - 125
Naphthalene	50.0	54.4		ug/Kg		109	53 - 144
n-Butylbenzene	50.0	43.6		ug/Kg		87	68 - 125
N-Propylbenzene	50.0	44.5		ug/Kg		89	69 - 127
p-Isopropyltoluene	50.0	42.8		ug/Kg		86	70 - 125
sec-Butylbenzene	50.0	41.9		ug/Kg		84	70 - 123
Styrene	50.0	53.0		ug/Kg		106	70 - 120
tert-Butylbenzene	50.0	40.8		ug/Kg		82	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	50.7		ug/Kg		101	70 - 125
trans-1,3-Dichloropropene	50.0	54.1		ug/Kg		108	62 - 128
Trichloroethene	50.0	48.9		ug/Kg		98	70 - 125
Trichlorofluoromethane	50.0	45.8		ug/Kg		92	55 - 128
Vinyl chloride	50.0	48.7		ug/Kg		97	64 - 126
Xylenes, Total	100	94.2		ug/Kg		94	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	118		75 - 126
4-Bromofluorobenzene (Surr)	93		72 - 124
Dibromofluoromethane (Surr)	110		75 - 120
Toluene-d8 (Surr)	97		75 - 120

Lab Sample ID: MB 500-609670/7
Matrix: Solid
Analysis Batch: 609670

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			07/16/21 11:14	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			07/16/21 11:14	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			07/16/21 11:14	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Custer St. (35th-39th St) - 193708022

Job ID: 500-202162-1

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

Lab Sample ID: MB 500-609670/7
Matrix: Solid
Analysis Batch: 609670

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			07/16/21 11:14	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			07/16/21 11:14	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			07/16/21 11:14	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			07/16/21 11:14	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			07/16/21 11:14	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			07/16/21 11:14	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			07/16/21 11:14	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			07/16/21 11:14	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			07/16/21 11:14	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			07/16/21 11:14	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			07/16/21 11:14	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			07/16/21 11:14	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			07/16/21 11:14	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			07/16/21 11:14	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			07/16/21 11:14	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			07/16/21 11:14	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			07/16/21 11:14	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			07/16/21 11:14	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			07/16/21 11:14	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			07/16/21 11:14	1
Benzene	<0.15		0.25	0.15	ug/Kg			07/16/21 11:14	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			07/16/21 11:14	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			07/16/21 11:14	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			07/16/21 11:14	1
Bromoform	<0.48		1.0	0.48	ug/Kg			07/16/21 11:14	1
Bromomethane	<0.80		3.0	0.80	ug/Kg			07/16/21 11:14	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			07/16/21 11:14	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			07/16/21 11:14	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			07/16/21 11:14	1
Chloroform	<0.37		2.0	0.37	ug/Kg			07/16/21 11:14	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			07/16/21 11:14	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			07/16/21 11:14	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			07/16/21 11:14	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			07/16/21 11:14	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			07/16/21 11:14	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/Kg			07/16/21 11:14	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			07/16/21 11:14	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			07/16/21 11:14	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			07/16/21 11:14	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			07/16/21 11:14	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			07/16/21 11:14	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			07/16/21 11:14	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			07/16/21 11:14	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			07/16/21 11:14	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			07/16/21 11:14	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			07/16/21 11:14	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			07/16/21 11:14	1
Styrene	<0.39		1.0	0.39	ug/Kg			07/16/21 11:14	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			07/16/21 11:14	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Custer St. (35th-39th St) - 193708022

Job ID: 500-202162-1

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

Lab Sample ID: MB 500-609670/7
Matrix: Solid
Analysis Batch: 609670

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			07/16/21 11:14	1
Toluene	<0.15		0.25	0.15	ug/Kg			07/16/21 11:14	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			07/16/21 11:14	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			07/16/21 11:14	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			07/16/21 11:14	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			07/16/21 11:14	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			07/16/21 11:14	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			07/16/21 11:14	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	106		75 - 126		07/16/21 11:14	1
4-Bromofluorobenzene (Surr)	117		72 - 124		07/16/21 11:14	1
Dibromofluoromethane (Surr)	104		75 - 120		07/16/21 11:14	1
Toluene-d8 (Surr)	107		75 - 120		07/16/21 11:14	1

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

Lab Sample ID: MB 500-609391/1-A
Matrix: Solid
Analysis Batch: 609481

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 609391

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1-Methylnaphthalene	<8.1		67	8.1	ug/Kg		07/14/21 16:02	07/15/21 12:00	1
2-Methylnaphthalene	<6.1		67	6.1	ug/Kg		07/14/21 16:02	07/15/21 12:00	1
Acenaphthene	<6.0		33	6.0	ug/Kg		07/14/21 16:02	07/15/21 12:00	1
Acenaphthylene	<4.4		33	4.4	ug/Kg		07/14/21 16:02	07/15/21 12:00	1
Anthracene	<5.6		33	5.6	ug/Kg		07/14/21 16:02	07/15/21 12:00	1
Benzo[a]anthracene	<4.5		33	4.5	ug/Kg		07/14/21 16:02	07/15/21 12:00	1
Benzo[a]pyrene	<6.4		33	6.4	ug/Kg		07/14/21 16:02	07/15/21 12:00	1
Benzo[b]fluoranthene	<7.2		33	7.2	ug/Kg		07/14/21 16:02	07/15/21 12:00	1
Benzo[g,h,i]perylene	<11		33	11	ug/Kg		07/14/21 16:02	07/15/21 12:00	1
Benzo[k]fluoranthene	<9.8		33	9.8	ug/Kg		07/14/21 16:02	07/15/21 12:00	1
Chrysene	<9.1		33	9.1	ug/Kg		07/14/21 16:02	07/15/21 12:00	1
Dibenz(a,h)anthracene	<6.4		33	6.4	ug/Kg		07/14/21 16:02	07/15/21 12:00	1
Fluoranthene	<6.2		33	6.2	ug/Kg		07/14/21 16:02	07/15/21 12:00	1
Fluorene	<4.7		33	4.7	ug/Kg		07/14/21 16:02	07/15/21 12:00	1
Indeno[1,2,3-cd]pyrene	<8.6		33	8.6	ug/Kg		07/14/21 16:02	07/15/21 12:00	1
Naphthalene	<5.1		33	5.1	ug/Kg		07/14/21 16:02	07/15/21 12:00	1
Phenanthrene	<4.6		33	4.6	ug/Kg		07/14/21 16:02	07/15/21 12:00	1
Pyrene	<6.6		33	6.6	ug/Kg		07/14/21 16:02	07/15/21 12:00	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl (Surr)	103		43 - 145	07/14/21 16:02	07/15/21 12:00	1
Nitrobenzene-d5 (Surr)	104		37 - 147	07/14/21 16:02	07/15/21 12:00	1
Terphenyl-d14 (Surr)	111		42 - 157	07/14/21 16:02	07/15/21 12:00	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Custer St. (35th-39th St) - 193708022

Job ID: 500-202162-1

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

Lab Sample ID: LCS 500-609391/2-A
Matrix: Solid
Analysis Batch: 609481

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 609391

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1-Methylnaphthalene	1330	1440		ug/Kg		108	68 - 111
2-Methylnaphthalene	1330	1450		ug/Kg		109	69 - 112
Acenaphthene	1330	1300		ug/Kg		97	65 - 124
Acenaphthylene	1330	1250		ug/Kg		94	68 - 120
Anthracene	1330	1230		ug/Kg		92	70 - 114
Benzo[a]anthracene	1330	1290		ug/Kg		96	67 - 122
Benzo[a]pyrene	1330	1510		ug/Kg		114	65 - 133
Benzo[b]fluoranthene	1330	1370		ug/Kg		103	69 - 129
Benzo[g,h,i]perylene	1330	1690		ug/Kg		127	72 - 131
Benzo[k]fluoranthene	1330	1330		ug/Kg		100	68 - 127
Chrysene	1330	1320		ug/Kg		99	63 - 120
Dibenz(a,h)anthracene	1330	1540		ug/Kg		116	64 - 131
Fluoranthene	1330	1440		ug/Kg		108	62 - 120
Fluorene	1330	1360		ug/Kg		102	62 - 120
Indeno[1,2,3-cd]pyrene	1330	1590		ug/Kg		119	68 - 130
Naphthalene	1330	1290		ug/Kg		97	63 - 110
Phenanthrene	1330	1230		ug/Kg		92	62 - 120
Pyrene	1330	1390		ug/Kg		104	61 - 128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	117		43 - 145
Nitrobenzene-d5 (Surr)	120		37 - 147
Terphenyl-d14 (Surr)	116		42 - 157

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 500-609596/1-A
Matrix: Solid
Analysis Batch: 609785

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 609596

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.34		1.0	0.34	mg/Kg		07/15/21 17:40	07/16/21 12:36	1
Barium	<0.11		1.0	0.11	mg/Kg		07/15/21 17:40	07/16/21 12:36	1
Cadmium	0.0364	J	0.20	0.036	mg/Kg		07/15/21 17:40	07/16/21 12:36	1
Chromium	<0.50		1.0	0.50	mg/Kg		07/15/21 17:40	07/16/21 12:36	1
Lead	<0.23		0.50	0.23	mg/Kg		07/15/21 17:40	07/16/21 12:36	1
Selenium	<0.59		1.0	0.59	mg/Kg		07/15/21 17:40	07/16/21 12:36	1
Silver	<0.13		0.50	0.13	mg/Kg		07/15/21 17:40	07/16/21 12:36	1

Lab Sample ID: LCS 500-609596/2-A
Matrix: Solid
Analysis Batch: 609785

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 609596

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	10.0	9.67		mg/Kg		97	80 - 120
Barium	200	200		mg/Kg		100	80 - 120
Cadmium	5.00	4.74		mg/Kg		95	80 - 120
Chromium	20.0	19.1		mg/Kg		96	80 - 120
Lead	10.0	9.69		mg/Kg		97	80 - 120

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Custer St. (35th-39th St) - 193708022

Job ID: 500-202162-1

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

Lab Sample ID: LCS 500-609596/2-A
 Matrix: Solid
 Analysis Batch: 609785

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 609596

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	10.0	9.18		mg/Kg		92	80 - 120
Silver	5.00	4.82		mg/Kg		96	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-609557/12-A
 Matrix: Solid
 Analysis Batch: 609737

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 609557

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		07/15/21 13:50	07/16/21 08:29	1

Lab Sample ID: LCS 500-609557/13-A
 Matrix: Solid
 Analysis Batch: 609737

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 609557

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.169		mg/Kg		102	80 - 120

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: Custer St. (35th-39th St) - 193708022

Job ID: 500-202162-1

Client Sample ID: 37th

Date Collected: 07/09/21 09:05

Date Received: 07/10/21 11:15

Lab Sample ID: 500-202162-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	609556	07/15/21 11:49	LWN	TAL CHI

Client Sample ID: 37th

Date Collected: 07/09/21 09:05

Date Received: 07/10/21 11:15

Lab Sample ID: 500-202162-1

Matrix: Solid

Percent Solids: 90.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			608761	07/09/21 09:05	WRE	TAL CHI
Total/NA	Analysis	8260B		50	609467	07/15/21 12:45	PMF	TAL CHI
Total/NA	Prep	3541			609391	07/14/21 16:02	JP1	TAL CHI
Total/NA	Analysis	8270D		1	609481	07/15/21 13:59	EF	TAL CHI
Total/NA	Prep	3050B			609596	07/15/21 17:40	LMN	TAL CHI
Total/NA	Analysis	6010C		1	609785	07/16/21 13:08	PFK	TAL CHI
Total/NA	Prep	7471B			609557	07/15/21 13:50	MJG	TAL CHI
Total/NA	Analysis	7471B		1	609737	07/16/21 09:36	MJG	TAL CHI

Client Sample ID: 35th

Date Collected: 07/09/21 09:20

Date Received: 07/10/21 11:15

Lab Sample ID: 500-202162-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	609556	07/15/21 11:49	LWN	TAL CHI

Client Sample ID: 35th

Date Collected: 07/09/21 09:20

Date Received: 07/10/21 11:15

Lab Sample ID: 500-202162-2

Matrix: Solid

Percent Solids: 88.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			609391	07/14/21 16:02	JP1	TAL CHI
Total/NA	Analysis	8270D		1	609481	07/15/21 15:11	EF	TAL CHI
Total/NA	Prep	3050B			609596	07/15/21 17:40	LMN	TAL CHI
Total/NA	Analysis	6010C		1	609785	07/16/21 13:11	PFK	TAL CHI
Total/NA	Prep	7471B			609557	07/15/21 13:50	MJG	TAL CHI
Total/NA	Analysis	7471B		1	609737	07/16/21 09:38	MJG	TAL CHI

Client Sample ID: 39th

Date Collected: 07/09/21 09:45

Date Received: 07/10/21 11:15

Lab Sample ID: 500-202162-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	609556	07/15/21 11:49	LWN	TAL CHI

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: Custer St. (35th-39th St) - 193708022

Job ID: 500-202162-1

Client Sample ID: 39th

Date Collected: 07/09/21 09:45

Date Received: 07/10/21 11:15

Lab Sample ID: 500-202162-3

Matrix: Solid

Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			608761	07/09/21 09:45	WRE	TAL CHI
Total/NA	Analysis	8260B		50	609467	07/15/21 13:12	PMF	TAL CHI
Total/NA	Prep	3541			609391	07/14/21 16:02	JP1	TAL CHI
Total/NA	Analysis	8270D		1	609481	07/15/21 15:35	EF	TAL CHI
Total/NA	Prep	3050B			609596	07/15/21 17:40	LMN	TAL CHI
Total/NA	Analysis	6010C		1	609785	07/16/21 13:14	PFK	TAL CHI
Total/NA	Prep	7471B			609557	07/15/21 13:50	MJG	TAL CHI
Total/NA	Analysis	7471B		1	609737	07/16/21 09:40	MJG	TAL CHI

Client Sample ID: MACARTHUR

Date Collected: 07/09/21 09:50

Date Received: 07/10/21 11:15

Lab Sample ID: 500-202162-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	609556	07/15/21 11:49	LWN	TAL CHI

Client Sample ID: MACARTHUR

Date Collected: 07/09/21 09:50

Date Received: 07/10/21 11:15

Lab Sample ID: 500-202162-4

Matrix: Solid

Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			608761	07/09/21 09:50	WRE	TAL CHI
Total/NA	Analysis	8260B		50	609467	07/15/21 13:39	PMF	TAL CHI
Total/NA	Prep	3541			609391	07/14/21 16:02	JP1	TAL CHI
Total/NA	Analysis	8270D		1	609481	07/15/21 12:48	EF	TAL CHI
Total/NA	Prep	3050B			609596	07/15/21 17:40	LMN	TAL CHI
Total/NA	Analysis	6010C		1	609785	07/16/21 13:18	PFK	TAL CHI
Total/NA	Prep	7471B			609557	07/15/21 13:50	MJG	TAL CHI
Total/NA	Analysis	7471B		1	609737	07/16/21 09:42	MJG	TAL CHI

Client Sample ID: ROBALO

Date Collected: 07/09/21 10:00

Date Received: 07/10/21 11:15

Lab Sample ID: 500-202162-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	609556	07/15/21 11:49	LWN	TAL CHI

Client Sample ID: ROBALO

Date Collected: 07/09/21 10:00

Date Received: 07/10/21 11:15

Lab Sample ID: 500-202162-5

Matrix: Solid

Percent Solids: 92.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			608761	07/09/21 10:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	609467	07/15/21 14:06	PMF	TAL CHI
Total/NA	Prep	3541			609391	07/14/21 16:02	JP1	TAL CHI
Total/NA	Analysis	8270D		1	609481	07/15/21 13:11	EF	TAL CHI

Eurofins TestAmerica, Chicago

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: Custer St. (35th-39th St) - 193708022

Job ID: 500-202162-1

Client Sample ID: ROBALO

Lab Sample ID: 500-202162-5

Date Collected: 07/09/21 10:00

Matrix: Solid

Date Received: 07/10/21 11:15

Percent Solids: 92.3

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Prep	3050B			609596	07/15/21 17:40	LMN	TAL CHI
Total/NA	Analysis	6010C		1	610027	07/19/21 11:53	JJB	TAL CHI
Total/NA	Prep	7471B			609557	07/15/21 13:50	MJG	TAL CHI
Total/NA	Analysis	7471B		1	609737	07/16/21 09:43	MJG	TAL CHI

Laboratory References:

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

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Accreditation/Certification Summary

Client: Stantec Consulting Corp.
Project/Site: Custer St. (35th-39th St) - 193708022

Job ID: 500-202162-1

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

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Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 500-202162-1

Login Number: 202162

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Hernandez, Stephanie

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	1.5
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	

