

From: Adam Tegen <ategen@manitowoc.org>
Sent: Thursday, May 7, 2020 9:51 AM
To: Beggs, Tauren R - DNR
Cc: Byers, Harris; Greg Minikel; Nicholas Mueller
Subject: Manitowoc Soil Sampling Along Waldo
Attachments: Waldo Soil Sampling.pdf

Good morning Tauren,

Attached is a letter report summarizing the soil testing that was completed with the intent of utilizing soils from our Waldo Boulevard project as fill on the Riverpoint District (CN Peninsula) project. Please review at your earliest convenience and let me know of any questions or concerns.

Sincerely,

Adam Tegen
Community Development Director
900 Quay Street
Manitowoc, WI 54220
920-686-6931
ategen@manitowoc.org
www.manitowoc.org





May 5, 2020
File: 193805824

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

Dear Mr. Tegen,

Reference: Sampling of Excavation Soil Along Waldo Boulevard, Manitowoc, Wisconsin

Stantec Consulting Services Inc. (Stantec) has prepared this letter report following collection and laboratory analysis of soil samples from active excavations and soil piles along Waldo Boulevard. The purpose of this sampling was to complete baseline characterization of representative soil targeted as potential fill for the Riverpoint District property.

BACKGROUND

Vinton Construction Company (Vinton) is completing utility work along Waldo Drive concurrent with replacement of the driving surface. The project is expected to generate roughly 8,000 to 10,000 cubic yards of excess soil that Vinton has offered to the City of Manitowoc for fill at the Riverpoint District property. As the Riverpoint District is undergoing investigation under chapter NR 700 of the Wisconsin Administrative Code (WAC), and at the recommendation of the Wisconsin Department of Natural Resources Project Manager (Tauren Beggs), sampling of representative soil prior to placement on the Riverpoint District property was warranted.

METHODS

Stantec met onsite with Vinton on April 21, 2020 and collected multiple composite soil samples of soils Vinton considered representative of potential fill for the Riverpoint District property. Soil samples were collected from sidewalls of open/active excavations and/or from stockpiles of soils adjacent to previously completed excavations. Sample locations are illustrated on Figure 1 and further summarized below.

| Sample Location | Sample Type | Sample Interval | Photograph (Attachment A) |
|------------------|----------------------------------|-----------------|--------------------------------|
| 18th Excav. | Sidewall of an Active Excavation | 2-10 Feet | Attachment A, Photo No. 3 |
| 16th Excav. | | 6-8 Feet | Attachment A, Photo No. 6-7 |
| 14th Excav. | | 2-7 Feet | Attachment A, Photo No. 8-9 |
| Fleetwood Excav. | | 18-20 Feet | Attachment A, Photo No. 10-12 |
| Fleetwood Pile | Surface of Existing Soil Pile | 0-20 Feet | Attachment A, Photo No. 13-15 |
| 18th Pile | | Unknown | Attachment A, Photo No. 1-2, 4 |
| 17th-18th Pile | | 6-8 Feet | Attachment A, Photo No. 5 |

Reference: Sampling of Excavation Soil Along Waldo Boulevard, Manitowoc, Wisconsin

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

RESULTS

Soils encountered appear to be native or reworked native soils with varying quantities of fines, which is consistent with the geotechnical investigation of Waldo Boulevard completed by River Valley Testing Corp. in 2011. As summarized on Table 1, photoionization detector measurements were all less than 1 instrument unit. Additionally, as noted on Table 1, the concentrations of detected constituents (except arsenic) in soil samples were all less than the most restrictive health-based RCLs. The concentrations of arsenic (a known naturally occurring heavy metal) in soil were greater than select health-based RCLs; however, all concentrations were less than the BTV suggesting the arsenic detections in soil are not likely associated with a hazardous substance discharge.

CONCLUSIONS

As detected constituent concentrations in soil Vinton considered representative of potential fill for the Riverpoint District property are less than health-based RCLs and/or applicable BTVs, soil from the Waldo project appears appropriate for use as fill at the Riverpoint District property. A soil/material management plan should be developed to further guide quality/placement/segregation of soil onsite.

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

Regards,

STANTEC CONSULTING SERVICES INC.


Harris L. Byers, Ph.D.
Sr. Brownfields Project Manager
Harris.Byers@stantec.com
(414) 581-6476

STANTEC CONSULTING SERVICES INC.


Richard J. Binder, P.G.
QA/QC Manager
Rick.Binder@stantec.com

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

Reference: Sampling of Excavation Soil Along Waldo Boulevard, Manitowoc, Wisconsin

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.

FIGURE

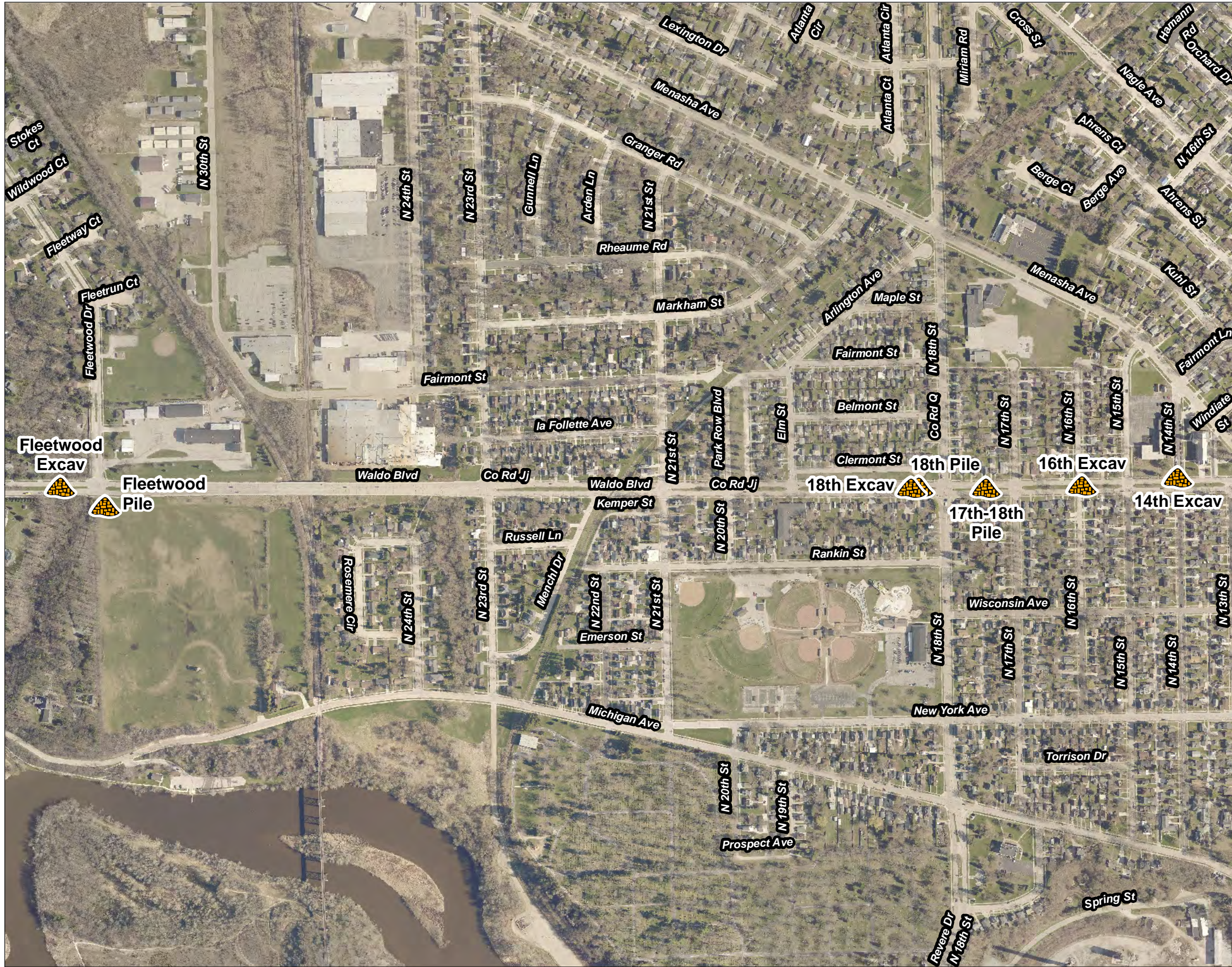
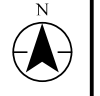


Figure No.
1
 Title
**Soil Sample Locations
 Along Waldo Blvd**
 Client/Project
 Waldo Blvd Sewer Project
 City of Manitowoc
 0 400 800 Feet
 193805824
 Prepared by HLB on 6/20/19

Legend

 Sample Locations



Notes
 1. Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet
 2. 2018 Orthophotograph from the City of Manitowoc



TABLE

Table 1
 Detected Constituents in Soil and Applicable RCLs
 Waldo Boulevard Sampling
 Manitowoc, Wisconsin

| Constituent | Background Threshold Value ^(A) | RCL for Direct Contact at Non-Industrial Properties ^(B) | RCL for Direct Contact at Industrial Properties ^(C) | RCL for Soil to Groundwater ^(D) | Sample ID | 18th Excav 2-10 | 18th Pile | 17th-18th Pile 6-8 | 16th Excav 6-8 | 14th Excav 2-7 | Fleetwood Excav 18-20 | Fleetwood Pile 0-20 |
|--|---|--|--|--|--------------|-----------------|-------------------|--------------------|-------------------|--------------------|-----------------------|------------------------|
| | | | | | Sample Date | 04/21/2020 | 04/21/2020 | 04/21/2020 | 04/21/2020 | 04/21/2020 | 04/21/2020 | 04/21/2020 |
| | | | | | Sample Depth | 2 - 10 ft | Unknown | 6 - 8 ft | 6 - 8 ft | 2 - 7 ft | 18 - 20 ft | 0 - 20 ft |
| | | | | | PID (IU) | 0.4 | 0.3 | 0.3 | 0.2 | 0.3 | 0.3 | 0.2 |
| | | | | | Lithology | Sand | Sand | Sand and Gravel | Sand and Gravel | Blue Clay and Sand | Clay (wet) | Clay, Sand, and Gravel |
| Detected Metals (mg/kg) | | | | | | | | | | | | |
| Arsenic | 8.3 | 8.3* [0.677] | 8.3* [3] | 8.3* [0.584] | | 1 ^{BD} | 1.1 ^{BD} | 1.5 ^{BD} | 1.2 ^{BD} | 2.3 ^{BD} | 4.2 ^{BCD} | 6 ^{BCD} |
| Barium | 364 | 15,300 | 100,000 | 364* [164.8] | | 9.8 | 12 | 22 | 11 | 44 | 66 | 61 |
| Cadmium | 1.07 | 71.1 | 985 | 1.07* [0.752] | | 0.091 J | 0.10 J | 0.10 J | 0.10 J | 0.088 J | 0.084 J | 0.080 J |
| Chromium | 43.5 | n/v | n/v | 360,000 ^{If no Cr-VI} | | 6.1 | 6.2 | 11 | 5.6 | 18 | 21 | 25 |
| Lead | 51.6 | 400 | 800 | 51.5* [27] | | 1.8 | 2.8 | 5.8 | 2.8 | 11 | 9.2 | 18 |
| Mercury | n/v | 3.13 | 3.13 | 0.208 | | <0.0056 | <0.0059 | 0.0066 J | <0.0055 | 0.0095 J | 0.012 J | 0.013 J |
| Silver | n/v | 391 | 5,840 | 0.8491 | | 0.21 J | 0.19 J | 0.15 J | 0.18 J | 0.25 J | 0.40 J | 0.44 J |
| Detected Polycyclic Aromatic Hydrocarbons (ug/kg) | | | | | | | | | | | | |
| Chrysene | n/v | 115,000 | 2,110,000 | 144 | | <9.7 F1 F2 | <9.9 | <10 | <9.8 | <11 | <10 | 32 J |
| Fluoranthene | n/v | 2,390,000 | 30,100,000 | 88,878 | | <6.6 F1 F2 | <6.7 | <7.0 | <6.7 | <7.6 | <7.1 | 55 |
| Methylnaphthalene, 1- | n/v | 17,600 | 72,700 | n/v | | <8.7 F1 F2 | <8.9 | <9.3 | <8.8 | <10 | <9.3 | 23 J |
| Methylnaphthalene, 2- | n/v | 239,000 | 3,010,000 | n/v | | <6.6 F1 F2 | <6.7 | <7.0 | <6.6 | <7.6 | <7.0 | 34 J |
| Phenanthrene | n/v | n/v | n/v | n/v | | <5.0 F1 F2 | <5.1 | <5.3 | <5.0 | <5.7 | <5.3 | 29 J |
| Pyrene | n/v | 1,790,000 | 22,600,000 | 54,546 | | <7.1 F1 F2 | <7.2 | <7.5 | <7.1 | <8.2 | <7.6 | 60 |
| Detected Volatile Organic Compounds (ug/kg) | | | | | | | | | | | | |
| Sixty (60) constituents analyzed | n/v | Various | | | | < DL | < DL | NA | < DL | < DL | < DL | NA |

Notes:


RCL = Residual contaminant limit per NR 720 WAC (December 2018 Update). Individual health based RCLs are distinguished by a superscripted letter.
 Background Threshold Value per Ch. NR 720 WAC (December 2018 Update).
 PID = Measurement with a photoionization detector in instrument units (IU) based on a 100 ppm isobutylene calibration standard.
XX* [XXX] Standard in bold is the background threshold value being used for the purpose of evaluation under Ch. NR700 WAC. The established health-based RCL is noted in brackets.
 X^{BCD} = Concentration "X" exceeds the health-based RCL indicated by superscripted letter; however the concentration is less than the Background Threshold Value
 ug/kg = microgram per kilogram
 mg/kg = milligram per kilogram
 n/v = no standard/guideline value
 < DL = the concentrations of constituents were all less than the laboratory detection limit.
 NA = Not analyzed
 J = Estimated concentration is greater than the laboratory detection limit, but less than the limit of quantitation
 F1 = Matrix spike and/or matrix spike duplicate recovery exceeds control limits
 F2 = Matrix spike/matrix spike duplicate relative percent difference exceeds control limits
 <x = Analyte was not detected at a concentration greater than the laboratory reporting limit of "x"

ATTACHMENT A

Photographic Documentation

| | | | |
|-------------------|--------------------------|-----------------------|----------------------|
| Client: | City of Manitowoc | Project: | 193805824 |
| Site Name: | Waldo Boulevard Sampling | Site Location: | Manitowoc, Wisconsin |

| | |
|---|---|
| Photograph ID: 1 |  |
| Photo Location: 18th Street & Waldo Boulevard | |
| Direction: Looking southeast | |
| Survey Date: 4/21/2020 | |
| Comments: View of the 18th Street excavation and soil stockpile | |

| | |
|---|--|
| Photograph ID: 2 |  |
| Photo Location: 18th Street & Waldo Boulevard | |
| Direction: Looking south | |
| Survey Date: 4/21/2020 | |
| Comments: 18th Street soil stockpile | |

| | | | |
|-------------------|--------------------------|-----------------------|----------------------|
| Client: | City of Manitowoc | Project: | 193805824 |
| Site Name: | Waldo Boulevard Sampling | Site Location: | Manitowoc, Wisconsin |

| | |
|--|---|
| Photograph ID: 3 |  |
| Photo Location: 18th Street & Waldo Boulevard | |
| Direction: | |
| Survey Date: 4/21/2020 | |
| Comments: Sampled material from the 18th Street excavation | |

| | |
|---|--|
| Photograph ID: 4 |  |
| Photo Location: 18th Street & Waldo Boulevard | |
| Direction: Looking east | |
| Survey Date: 4/21/2020 | |
| Comments: 18th Street soil stockpile | |

| | | | |
|-------------------|--------------------------|-----------------------|----------------------|
| Client: | City of Manitowoc | Project: | 193805824 |
| Site Name: | Waldo Boulevard Sampling | Site Location: | Manitowoc, Wisconsin |

| | |
|--|---|
| <p>Photograph ID: 5</p> <p>Photo Location: Between 17th/18th Street & Waldo Boulevard</p> <p>Direction: Looking west</p> <p>Survey Date: 4/21/2020</p> <p>Comments: Sampled material from the stockpile between 17th Street and 18th Street</p> |  |
|--|---|

| | |
|---|--|
| <p>Photograph ID: 6</p> <p>Photo Location: 16th Street & Waldo Boulevard</p> <p>Direction:</p> <p>Survey Date: 4/21/2020</p> <p>Comments: Sampled material from the 16th Street excavation</p> |  |
|---|--|

| | | | |
|-------------------|--------------------------|-----------------------|----------------------|
| Client: | City of Manitowoc | Project: | 193805824 |
| Site Name: | Waldo Boulevard Sampling | Site Location: | Manitowoc, Wisconsin |

| | |
|---|---|
| Photograph ID: 7 |  |
| Photo Location: 16th Street & Waldo Boulevard | |
| Direction: Looking northeast | |
| Survey Date: 4/21/2020 | |
| Comments: View of the 16th Street excavation | |

| | |
|--|--|
| Photograph ID: 8 |  |
| Photo Location: 14th Street & Waldo Boulevard | |
| Direction: Looking northwest | |
| Survey Date: 4/21/2020 | |
| Comments: Sampled material from the 14th Street excavation (behind soil stockpile in foreground) | |

| | | | |
|-------------------|--------------------------|-----------------------|----------------------|
| Client: | City of Manitowoc | Project: | 193805824 |
| Site Name: | Waldo Boulevard Sampling | Site Location: | Manitowoc, Wisconsin |

Photograph ID: 9

Photo Location:
14th Street & Waldo Boulevard

Direction:
Looking northwest

Survey Date:
4/21/2020

Comments:
View of the 14th Street excavation



Photograph ID: 10

Photo Location:
Fleetwood Drive & Waldo Boulevard

Direction:
Looking southwest

Survey Date:
4/21/2020

Comments:
View of the Fleetwood Drive excavation




| | | | |
|-------------------|--------------------------|-----------------------|----------------------|
| Client: | City of Manitowoc | Project: | 193805824 |
| Site Name: | Waldo Boulevard Sampling | Site Location: | Manitowoc, Wisconsin |

| | |
|---|---|
| Photograph ID: 11 |  |
| Photo Location: Fleetwood Drive & Waldo Boulevard | |
| Direction: Looking southeast | |
| Survey Date: 4/21/2020 | |
| Comments: View from Fleetwood Drive excavation floor; sample was collected from the bottom two feet of the sidewall | |

| | |
|--|--|
| Photograph ID: 12 |  |
| Photo Location: Fleetwood Drive & Waldo Boulevard | |
| Direction: | |
| Survey Date: 4/21/2020 | |
| Comments: Sampled material from the Fleetwood Drive excavation | |

| | | | |
|-------------------|--------------------------|-----------------------|----------------------|
| Client: | City of Manitowoc | Project: | 193805824 |
| Site Name: | Waldo Boulevard Sampling | Site Location: | Manitowoc, Wisconsin |

| | |
|--|---|
| Photograph ID: 13 |  |
| Photo Location: Fleetwood Drive & Waldo Boulevard | |
| Direction: | |
| Survey Date: 4/21/2020 | |
| Comments: Sampled material from large soil stockpile south of the Waldo Boulevard & Fleetwood Drive intersection | |

| | |
|--|--|
| Photograph ID: 14 |  |
| Photo Location: Fleetwood Drive & Waldo Boulevard | |
| Direction: Looking south | |
| Survey Date: 4/21/2020 | |
| Comments: Large soil stockpile sampled south of the Waldo Boulevard & Fleetwood Drive intersection | |

| | | | |
|-------------------|---------------------------------|-----------------------|-----------------------------|
| Client: | City of Manitowoc | Project: | 193805824 |
| Site Name: | Waldo Boulevard Sampling | Site Location: | Manitowoc, Wisconsin |

| | |
|--|---|
| Photograph ID: 15 |  |
| Photo Location: Fleetwood Drive & Waldo Boulevard | |
| Direction: Looking south | |
| Survey Date: 4/21/2020 | |
| Comments: Large soil stockpile sampled south of the Waldo Boulevard & Fleetwood Drive intersection | |

ATTACHMENT B

Laboratory Report

ANALYTICAL REPORT

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

Laboratory Job ID: 500-180981-1

Client Project/Site: Waldo Blvd Sampling - 193805824

For:

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

Attn: Harris Byers



*Authorized for release by:
5/5/2020 10:46:08 AM*

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

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

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

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

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



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Case Narrative

Client: Stantec Consulting Corp.
Project/Site: Waldo Blvd Sampling - 193805824

Job ID: 500-180981-1

Job ID: 500-180981-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-180981-1

Comments

No additional comments.

Receipt

The samples were received on 4/22/2020 10:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.3° C.

GC/MS VOA

Method 8260B: The laboratory control sample (LCS) for batches 539941, 540451, 540009 and recovered outside control limits for Bromomethane. This analyte was biased high in the LCSs and was not detected in the associated samples; therefore, the data have been reported. 18th Excav 2-10 (500-180981-1), 16th Excav 6-8 (500-180981-4), 14th Excav 2-7 (500-180981-5) and Fleetwood Excav 18-20 (500-180981-6)

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: The matrix spike duplicate (MSD) spike and surrogate recoveries and precision for preparation batch 500-540441 and analytical batch 500-540575 were outside control limits. Sample prep error was suspected because the associated laboratory control sample(LCS) and matrix spike (MS) spike and surrogate recoveries was within acceptance limits. No corrective action was required.

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: Waldo Blvd Sampling - 193805824

Job ID: 500-180981-1

Client Sample ID: 18th Excav 2-10

Lab Sample ID: 500-180981-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|----------|--------|-----------|------|-------|-------|---------|---|--------|-----------|
| Arsenic | 1.0 | | 0.94 | 0.32 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Barium | 9.8 | | 0.94 | 0.11 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Cadmium | 0.091 | J | 0.19 | 0.034 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Chromium | 6.1 | | 0.94 | 0.47 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Lead | 1.8 | | 0.47 | 0.22 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Silver | 0.21 | J | 0.47 | 0.12 | mg/Kg | 1 | ☼ | 6010C | Total/NA |

Client Sample ID: 18th Pile

Lab Sample ID: 500-180981-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|----------|--------|-----------|------|-------|-------|---------|---|--------|-----------|
| Arsenic | 1.1 | | 1.0 | 0.34 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Barium | 12 | | 1.0 | 0.11 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Cadmium | 0.10 | J | 0.20 | 0.036 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Chromium | 6.2 | | 1.0 | 0.50 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Lead | 2.8 | | 0.50 | 0.23 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Silver | 0.19 | J | 0.50 | 0.13 | mg/Kg | 1 | ☼ | 6010C | Total/NA |

Client Sample ID: 17th-18th Pile 6-8

Lab Sample ID: 500-180981-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|----------|--------|-----------|-------|--------|-------|---------|---|--------|-----------|
| Arsenic | 1.5 | | 1.1 | 0.37 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Barium | 22 | | 1.1 | 0.12 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Cadmium | 0.10 | J | 0.21 | 0.039 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Chromium | 11 | | 1.1 | 0.53 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Lead | 5.8 | | 0.54 | 0.25 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Silver | 0.15 | J | 0.54 | 0.14 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Mercury | 0.0066 | J | 0.018 | 0.0060 | mg/Kg | 1 | ☼ | 7471B | Total/NA |

Client Sample ID: 16th Excav 6-8

Lab Sample ID: 500-180981-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|----------|--------|-----------|------|-------|-------|---------|---|--------|-----------|
| Arsenic | 1.2 | | 0.97 | 0.33 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Barium | 11 | | 0.97 | 0.11 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Cadmium | 0.10 | J | 0.19 | 0.035 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Chromium | 5.6 | | 0.97 | 0.48 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Lead | 2.8 | | 0.48 | 0.22 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Silver | 0.18 | J | 0.48 | 0.12 | mg/Kg | 1 | ☼ | 6010C | Total/NA |

Client Sample ID: 14th Excav 2-7

Lab Sample ID: 500-180981-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|----------|--------|-----------|-------|--------|-------|---------|---|--------|-----------|
| Arsenic | 2.3 | | 1.1 | 0.38 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Barium | 44 | | 1.1 | 0.13 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Cadmium | 0.088 | J | 0.22 | 0.040 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Chromium | 18 | | 1.1 | 0.55 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Lead | 11 | | 0.55 | 0.25 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Silver | 0.25 | J | 0.55 | 0.14 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Mercury | 0.0095 | J | 0.018 | 0.0061 | mg/Kg | 1 | ☼ | 7471B | Total/NA |

Client Sample ID: Fleetwood Excav 18-20

Lab Sample ID: 500-180981-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|-----|------|-------|---------|---|--------|-----------|
| Arsenic | 4.2 | | 1.0 | 0.36 | 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: Waldo Blvd Sampling - 193805824

Job ID: 500-180981-1

Client Sample ID: Fleetwood Excav 18-20 (Continued)

Lab Sample ID: 500-180981-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|----------|--------|-----------|-------|--------|-------|---------|---|--------|-----------|
| Barium | 66 | | 1.0 | 0.12 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Cadmium | 0.084 | J | 0.21 | 0.038 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Chromium | 21 | | 1.0 | 0.52 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Lead | 9.2 | | 0.52 | 0.24 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Silver | 0.40 | J | 0.52 | 0.13 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Mercury | 0.012 | J | 0.018 | 0.0061 | mg/Kg | 1 | ☼ | 7471B | Total/NA |

Client Sample ID: Fleetwood Pile 0-20

Lab Sample ID: 500-180981-7

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------|--------|-----------|-------|--------|-------|---------|---|--------|-----------|
| 1-Methylnaphthalene | 23 | J | 74 | 9.0 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| 2-Methylnaphthalene | 34 | J | 74 | 6.8 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Chrysene | 32 | J | 37 | 10 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Fluoranthene | 55 | | 37 | 6.8 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Phenanthrene | 29 | J | 37 | 5.1 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Pyrene | 60 | | 37 | 7.3 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Arsenic | 6.0 | | 1.0 | 0.36 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Barium | 61 | | 1.0 | 0.12 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Cadmium | 0.080 | J | 0.21 | 0.038 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Chromium | 25 | | 1.0 | 0.52 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Lead | 18 | | 0.52 | 0.24 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Silver | 0.44 | J | 0.52 | 0.14 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Mercury | 0.013 | J | 0.018 | 0.0060 | mg/Kg | 1 | ☼ | 7471B | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Method Summary

Client: Stantec Consulting Corp.
Project/Site: Waldo Blvd Sampling - 193805824

Job ID: 500-180981-1

| 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: Waldo Blvd Sampling - 193805824

Job ID: 500-180981-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---------------|-----------------------|--------|----------------|----------------|----------|
| 500-180981-1 | 18th Excav 2-10 | Solid | 04/21/20 10:15 | 04/22/20 10:10 | |
| 500-180981-2 | 18th Pile | Solid | 04/21/20 10:18 | 04/22/20 10:10 | |
| 500-180981-3 | 17th-18th Pile 6-8 | Solid | 04/21/20 10:22 | 04/22/20 10:10 | |
| 500-180981-4 | 16th Excav 6-8 | Solid | 04/21/20 10:30 | 04/22/20 10:10 | |
| 500-180981-5 | 14th Excav 2-7 | Solid | 04/21/20 10:35 | 04/22/20 10:10 | |
| 500-180981-6 | Fleetwood Excav 18-20 | Solid | 04/21/20 10:40 | 04/22/20 10:10 | |
| 500-180981-7 | Fleetwood Pile 0-20 | Solid | 04/21/20 10:45 | 04/22/20 10:10 | |

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Waldo Blvd Sampling - 193805824

Job ID: 500-180981-1

Client Sample ID: 18th Excav 2-10

Lab Sample ID: 500-180981-1

Date Collected: 04/21/20 10:15

Matrix: Solid

Date Received: 04/22/20 10:10

Percent Solids: 92.9

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,1,1,2-Tetrachloroethane | <25 | | 53 | 25 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| 1,1,1-Trichloroethane | <20 | | 53 | 20 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| 1,1,2,2-Tetrachloroethane | <21 | | 53 | 21 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| 1,1,2-Trichloroethane | <19 | | 53 | 19 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| 1,1-Dichloroethane | <22 | | 53 | 22 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| 1,1-Dichloroethene | <21 | | 53 | 21 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| 1,1-Dichloropropene | <16 | | 53 | 16 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| 1,2,3-Trichlorobenzene | <24 | | 53 | 24 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| 1,2,3-Trichloropropane | <22 | | 110 | 22 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| 1,2,4-Trichlorobenzene | <18 | | 53 | 18 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| 1,2,4-Trimethylbenzene | <19 | | 53 | 19 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| 1,2-Dibromo-3-Chloropropane | <110 | | 270 | 110 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| 1,2-Dibromoethane | <21 | | 53 | 21 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| 1,2-Dichlorobenzene | <18 | | 53 | 18 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| 1,2-Dichloroethane | <21 | | 53 | 21 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| 1,2-Dichloropropane | <23 | | 53 | 23 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| 1,3,5-Trimethylbenzene | <20 | | 53 | 20 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| 1,3-Dichlorobenzene | <21 | | 53 | 21 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| 1,3-Dichloropropane | <19 | | 53 | 19 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| 1,4-Dichlorobenzene | <19 | | 53 | 19 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| 2,2-Dichloropropane | <24 | | 53 | 24 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| 2-Chlorotoluene | <17 | | 53 | 17 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| 4-Chlorotoluene | <19 | | 53 | 19 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| Benzene | <7.8 | | 13 | 7.8 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| Bromobenzene | <19 | | 53 | 19 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| Bromochloromethane | <23 | | 53 | 23 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| Bromodichloromethane | <20 | | 53 | 20 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| Bromoform | <26 | | 53 | 26 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| Bromomethane | <42 * | | 160 | 42 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| Carbon tetrachloride | <20 | | 53 | 20 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| Chlorobenzene | <21 | | 53 | 21 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| Chloroethane | <27 | | 53 | 27 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| Chloroform | <20 | | 110 | 20 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| Chloromethane | <17 | | 53 | 17 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| cis-1,2-Dichloroethene | <22 | | 53 | 22 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| cis-1,3-Dichloropropene | <22 | | 53 | 22 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| Dibromochloromethane | <26 | | 53 | 26 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| Dibromomethane | <14 | | 53 | 14 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| Dichlorodifluoromethane | <36 | | 160 | 36 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| Ethylbenzene | <9.8 | | 13 | 9.8 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| Hexachlorobutadiene | <24 | | 53 | 24 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| Isopropyl ether | <15 | | 53 | 15 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| Isopropylbenzene | <20 | | 53 | 20 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| Methyl tert-butyl ether | <21 | | 53 | 21 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| Methylene Chloride | <87 | | 270 | 87 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| Naphthalene | <18 | | 53 | 18 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| n-Butylbenzene | <21 | | 53 | 21 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| N-Propylbenzene | <22 | | 53 | 22 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| p-Isopropyltoluene | <19 | | 53 | 19 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Waldo Blvd Sampling - 193805824

Job ID: 500-180981-1

Client Sample ID: 18th Excav 2-10

Lab Sample ID: 500-180981-1

Date Collected: 04/21/20 10:15

Matrix: Solid

Date Received: 04/22/20 10:10

Percent Solids: 92.9

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| sec-Butylbenzene | <21 | | 53 | 21 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| Styrene | <21 | | 53 | 21 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| tert-Butylbenzene | <21 | | 53 | 21 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| Tetrachloroethene | <20 | | 53 | 20 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| Toluene | <7.8 | | 13 | 7.8 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| trans-1,2-Dichloroethene | <19 | | 53 | 19 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| trans-1,3-Dichloropropene | <19 | | 53 | 19 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| Trichloroethene | <8.7 | | 27 | 8.7 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| Trichlorofluoromethane | <23 | | 53 | 23 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| Vinyl chloride | <14 | | 53 | 14 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| Xylenes, Total | <12 | | 27 | 12 | ug/Kg | ☼ | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 101 | | 75 - 126 | | | | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| 4-Bromofluorobenzene (Surr) | 87 | | 72 - 124 | | | | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| Dibromofluoromethane | 100 | | 75 - 120 | | | | 04/21/20 10:15 | 04/30/20 15:54 | 50 |
| Toluene-d8 (Surr) | 105 | | 75 - 120 | | | | 04/21/20 10:15 | 04/30/20 15:54 | 50 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| 1-Methylnaphthalene | <8.7 | F1 F2 | 72 | 8.7 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 20:52 | 1 |
| 2-Methylnaphthalene | <6.6 | F1 F2 | 72 | 6.6 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 20:52 | 1 |
| Acenaphthene | <6.4 | F1 F2 | 35 | 6.4 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 20:52 | 1 |
| Acenaphthylene | <4.7 | F1 F2 | 35 | 4.7 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 20:52 | 1 |
| Anthracene | <6.0 | F1 F2 | 35 | 6.0 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 20:52 | 1 |
| Benzo[a]anthracene | <4.8 | F1 F2 | 35 | 4.8 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 20:52 | 1 |
| Benzo[a]pyrene | <6.9 | F1 F2 | 35 | 6.9 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 20:52 | 1 |
| Benzo[b]fluoranthene | <7.7 | F1 F2 | 35 | 7.7 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 20:52 | 1 |
| Benzo[g,h,i]perylene | <11 | F1 F2 | 35 | 11 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 20:52 | 1 |
| Benzo[k]fluoranthene | <11 | F1 F2 | 35 | 11 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 20:52 | 1 |
| Chrysene | <9.7 | F1 F2 | 35 | 9.7 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 20:52 | 1 |
| Dibenz(a,h)anthracene | <6.9 | F1 F2 | 35 | 6.9 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 20:52 | 1 |
| Fluoranthene | <6.6 | F1 F2 | 35 | 6.6 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 20:52 | 1 |
| Fluorene | <5.0 | F1 F2 | 35 | 5.0 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 20:52 | 1 |
| Indeno[1,2,3-cd]pyrene | <9.2 | F1 F2 | 35 | 9.2 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 20:52 | 1 |
| Naphthalene | <5.5 | F1 F2 | 35 | 5.5 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 20:52 | 1 |
| Phenanthrene | <5.0 | F1 F2 | 35 | 5.0 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 20:52 | 1 |
| Pyrene | <7.1 | F1 F2 | 35 | 7.1 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 20:52 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2-Fluorobiphenyl | 83 | | 43 - 145 | | | | 04/30/20 07:30 | 04/30/20 20:52 | 1 |
| Nitrobenzene-d5 (Surr) | 84 | | 37 - 147 | | | | 04/30/20 07:30 | 04/30/20 20:52 | 1 |
| Terphenyl-d14 (Surr) | 98 | | 42 - 157 | | | | 04/30/20 07:30 | 04/30/20 20:52 | 1 |

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Arsenic | 1.0 | | 0.94 | 0.32 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:06 | 1 |
| Barium | 9.8 | | 0.94 | 0.11 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:06 | 1 |
| Cadmium | 0.091 | J | 0.19 | 0.034 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:06 | 1 |
| Chromium | 6.1 | | 0.94 | 0.47 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:06 | 1 |

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Waldo Blvd Sampling - 193805824

Job ID: 500-180981-1

Client Sample ID: 18th Excav 2-10

Lab Sample ID: 500-180981-1

Date Collected: 04/21/20 10:15

Matrix: Solid

Date Received: 04/22/20 10:10

Percent Solids: 92.9

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Lead | 1.8 | | 0.47 | 0.22 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:06 | 1 |
| Selenium | <0.55 | | 0.94 | 0.55 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:06 | 1 |
| Silver | 0.21 | J | 0.47 | 0.12 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:06 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|---------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | <0.0056 | | 0.017 | 0.0056 | mg/Kg | ☼ | 04/29/20 13:25 | 04/30/20 08:21 | 1 |

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Waldo Blvd Sampling - 193805824

Job ID: 500-180981-1

Client Sample ID: 18th Pile

Lab Sample ID: 500-180981-2

Date Collected: 04/21/20 10:18

Matrix: Solid

Date Received: 04/22/20 10:10

Percent Solids: 91.5

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|----|-----|-------|---|----------------|----------------|---------|
| 1-Methylnaphthalene | <8.9 | | 73 | 8.9 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 21:20 | 1 |
| 2-Methylnaphthalene | <6.7 | | 73 | 6.7 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 21:20 | 1 |
| Acenaphthene | <6.5 | | 36 | 6.5 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 21:20 | 1 |
| Acenaphthylene | <4.8 | | 36 | 4.8 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 21:20 | 1 |
| Anthracene | <6.1 | | 36 | 6.1 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 21:20 | 1 |
| Benzo[a]anthracene | <4.9 | | 36 | 4.9 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 21:20 | 1 |
| Benzo[a]pyrene | <7.0 | | 36 | 7.0 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 21:20 | 1 |
| Benzo[b]fluoranthene | <7.8 | | 36 | 7.8 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 21:20 | 1 |
| Benzo[g,h,i]perylene | <12 | | 36 | 12 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 21:20 | 1 |
| Benzo[k]fluoranthene | <11 | | 36 | 11 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 21:20 | 1 |
| Chrysene | <9.9 | | 36 | 9.9 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 21:20 | 1 |
| Dibenz(a,h)anthracene | <7.0 | | 36 | 7.0 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 21:20 | 1 |
| Fluoranthene | <6.7 | | 36 | 6.7 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 21:20 | 1 |
| Fluorene | <5.1 | | 36 | 5.1 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 21:20 | 1 |
| Indeno[1,2,3-cd]pyrene | <9.4 | | 36 | 9.4 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 21:20 | 1 |
| Naphthalene | <5.6 | | 36 | 5.6 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 21:20 | 1 |
| Phenanthrene | <5.1 | | 36 | 5.1 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 21:20 | 1 |
| Pyrene | <7.2 | | 36 | 7.2 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 21:20 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl | 87 | | 43 - 145 | 04/30/20 07:30 | 04/30/20 21:20 | 1 |
| Nitrobenzene-d5 (Surr) | 87 | | 37 - 147 | 04/30/20 07:30 | 04/30/20 21:20 | 1 |
| Terphenyl-d14 (Surr) | 107 | | 42 - 157 | 04/30/20 07:30 | 04/30/20 21:20 | 1 |

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Arsenic | 1.1 | | 1.0 | 0.34 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:10 | 1 |
| Barium | 12 | | 1.0 | 0.11 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:10 | 1 |
| Cadmium | 0.10 | J | 0.20 | 0.036 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:10 | 1 |
| Chromium | 6.2 | | 1.0 | 0.50 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:10 | 1 |
| Lead | 2.8 | | 0.50 | 0.23 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:10 | 1 |
| Selenium | <0.59 | | 1.0 | 0.59 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:10 | 1 |
| Silver | 0.19 | J | 0.50 | 0.13 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:10 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|---------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | <0.0059 | | 0.018 | 0.0059 | mg/Kg | ☼ | 04/29/20 13:25 | 04/30/20 08:24 | 1 |

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Waldo Blvd Sampling - 193805824

Job ID: 500-180981-1

Client Sample ID: 17th-18th Pile 6-8

Lab Sample ID: 500-180981-3

Date Collected: 04/21/20 10:22

Matrix: Solid

Date Received: 04/22/20 10:10

Percent Solids: 87.3

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|----|-----|-------|---|----------------|----------------|---------|
| 1-Methylnaphthalene | <9.3 | | 76 | 9.3 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 21:48 | 1 |
| 2-Methylnaphthalene | <7.0 | | 76 | 7.0 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 21:48 | 1 |
| Acenaphthene | <6.8 | | 38 | 6.8 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 21:48 | 1 |
| Acenaphthylene | <5.0 | | 38 | 5.0 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 21:48 | 1 |
| Anthracene | <6.3 | | 38 | 6.3 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 21:48 | 1 |
| Benzo[a]anthracene | <5.1 | | 38 | 5.1 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 21:48 | 1 |
| Benzo[a]pyrene | <7.3 | | 38 | 7.3 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 21:48 | 1 |
| Benzo[b]fluoranthene | <8.2 | | 38 | 8.2 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 21:48 | 1 |
| Benzo[g,h,i]perylene | <12 | | 38 | 12 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 21:48 | 1 |
| Benzo[k]fluoranthene | <11 | | 38 | 11 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 21:48 | 1 |
| Chrysene | <10 | | 38 | 10 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 21:48 | 1 |
| Dibenz(a,h)anthracene | <7.3 | | 38 | 7.3 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 21:48 | 1 |
| Fluoranthene | <7.0 | | 38 | 7.0 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 21:48 | 1 |
| Fluorene | <5.3 | | 38 | 5.3 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 21:48 | 1 |
| Indeno[1,2,3-cd]pyrene | <9.8 | | 38 | 9.8 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 21:48 | 1 |
| Naphthalene | <5.8 | | 38 | 5.8 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 21:48 | 1 |
| Phenanthrene | <5.3 | | 38 | 5.3 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 21:48 | 1 |
| Pyrene | <7.5 | | 38 | 7.5 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 21:48 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl | 97 | | 43 - 145 | 04/30/20 07:30 | 04/30/20 21:48 | 1 |
| Nitrobenzene-d5 (Surr) | 95 | | 37 - 147 | 04/30/20 07:30 | 04/30/20 21:48 | 1 |
| Terphenyl-d14 (Surr) | 117 | | 42 - 157 | 04/30/20 07:30 | 04/30/20 21:48 | 1 |

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Arsenic | 1.5 | | 1.1 | 0.37 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:14 | 1 |
| Barium | 22 | | 1.1 | 0.12 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:14 | 1 |
| Cadmium | 0.10 | J | 0.21 | 0.039 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:14 | 1 |
| Chromium | 11 | | 1.1 | 0.53 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:14 | 1 |
| Lead | 5.8 | | 0.54 | 0.25 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:14 | 1 |
| Selenium | <0.63 | | 1.1 | 0.63 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:14 | 1 |
| Silver | 0.15 | J | 0.54 | 0.14 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:14 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.0066 | J | 0.018 | 0.0060 | mg/Kg | ☼ | 04/29/20 13:25 | 04/30/20 08:26 | 1 |

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Waldo Blvd Sampling - 193805824

Job ID: 500-180981-1

Client Sample ID: 16th Excav 6-8

Lab Sample ID: 500-180981-4

Date Collected: 04/21/20 10:30

Matrix: Solid

Date Received: 04/22/20 10:10

Percent Solids: 92.0

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 | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| 1,1,1-Trichloroethane | <22 | | 58 | 22 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| 1,1,2,2-Tetrachloroethane | <23 | | 58 | 23 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| 1,1,2-Trichloroethane | <20 | | 58 | 20 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| 1,1-Dichloroethane | <24 | | 58 | 24 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| 1,1-Dichloroethene | <23 | | 58 | 23 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| 1,1-Dichloropropene | <17 | | 58 | 17 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| 1,2,3-Trichlorobenzene | <27 | | 58 | 27 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| 1,2,3-Trichloropropane | <24 | | 120 | 24 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| 1,2,4-Trichlorobenzene | <20 | | 58 | 20 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| 1,2,4-Trimethylbenzene | <21 | | 58 | 21 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| 1,2-Dibromo-3-Chloropropane | <120 | | 290 | 120 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| 1,2-Dibromoethane | <22 | | 58 | 22 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| 1,2-Dichlorobenzene | <19 | | 58 | 19 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| 1,2-Dichloroethane | <23 | | 58 | 23 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| 1,2-Dichloropropane | <25 | | 58 | 25 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| 1,3,5-Trimethylbenzene | <22 | | 58 | 22 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| 1,3-Dichlorobenzene | <23 | | 58 | 23 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| 1,3-Dichloropropane | <21 | | 58 | 21 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| 1,4-Dichlorobenzene | <21 | | 58 | 21 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| 2,2-Dichloropropane | <26 | | 58 | 26 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| 2-Chlorotoluene | <18 | | 58 | 18 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| 4-Chlorotoluene | <20 | | 58 | 20 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| Benzene | <8.5 | | 15 | 8.5 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| Bromobenzene | <21 | | 58 | 21 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| Bromochloromethane | <25 | | 58 | 25 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| Bromodichloromethane | <22 | | 58 | 22 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| Bromoform | <28 | | 58 | 28 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| Bromomethane | <46 * | | 170 | 46 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| Carbon tetrachloride | <22 | | 58 | 22 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| Chlorobenzene | <22 | | 58 | 22 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| Chloroethane | <29 | | 58 | 29 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| Chloroform | <21 | | 120 | 21 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| Chloromethane | <19 | | 58 | 19 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| cis-1,2-Dichloroethene | <24 | | 58 | 24 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| cis-1,3-Dichloropropene | <24 | | 58 | 24 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| Dibromochloromethane | <28 | | 58 | 28 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| Dibromomethane | <16 | | 58 | 16 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| Dichlorodifluoromethane | <39 | | 170 | 39 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| Ethylbenzene | <11 | | 15 | 11 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| Hexachlorobutadiene | <26 | | 58 | 26 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| Isopropyl ether | <16 | | 58 | 16 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| Isopropylbenzene | <22 | | 58 | 22 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| Methyl tert-butyl ether | <23 | | 58 | 23 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| Methylene Chloride | <95 | | 290 | 95 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| Naphthalene | <19 | | 58 | 19 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| n-Butylbenzene | <23 | | 58 | 23 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| N-Propylbenzene | <24 | | 58 | 24 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| p-Isopropyltoluene | <21 | | 58 | 21 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Waldo Blvd Sampling - 193805824

Job ID: 500-180981-1

Client Sample ID: 16th Excav 6-8

Lab Sample ID: 500-180981-4

Date Collected: 04/21/20 10:30

Matrix: Solid

Date Received: 04/22/20 10:10

Percent Solids: 92.0

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 | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| Styrene | <22 | | 58 | 22 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| tert-Butylbenzene | <23 | | 58 | 23 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| Tetrachloroethene | <21 | | 58 | 21 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| Toluene | <8.5 | | 15 | 8.5 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| trans-1,2-Dichloroethene | <20 | | 58 | 20 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| trans-1,3-Dichloropropene | <21 | | 58 | 21 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| Trichloroethene | <9.5 | | 29 | 9.5 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| Trichlorofluoromethane | <25 | | 58 | 25 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| Vinyl chloride | <15 | | 58 | 15 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| Xylenes, Total | <13 | | 29 | 13 | ug/Kg | ☼ | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 75 - 126 | | | | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| 4-Bromofluorobenzene (Surr) | 88 | | 72 - 124 | | | | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| Dibromofluoromethane | 103 | | 75 - 120 | | | | 04/21/20 10:30 | 04/30/20 16:17 | 50 |
| Toluene-d8 (Surr) | 102 | | 75 - 120 | | | | 04/21/20 10:30 | 04/30/20 16:17 | 50 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| 1-Methylnaphthalene | <8.8 | | 72 | 8.8 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 22:15 | 1 |
| 2-Methylnaphthalene | <6.6 | | 72 | 6.6 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 22:15 | 1 |
| Acenaphthene | <6.5 | | 36 | 6.5 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 22:15 | 1 |
| Acenaphthylene | <4.7 | | 36 | 4.7 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 22:15 | 1 |
| Anthracene | <6.0 | | 36 | 6.0 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 22:15 | 1 |
| Benzo[a]anthracene | <4.8 | | 36 | 4.8 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 22:15 | 1 |
| Benzo[a]pyrene | <7.0 | | 36 | 7.0 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 22:15 | 1 |
| Benzo[b]fluoranthene | <7.8 | | 36 | 7.8 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 22:15 | 1 |
| Benzo[g,h,i]perylene | <12 | | 36 | 12 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 22:15 | 1 |
| Benzo[k]fluoranthene | <11 | | 36 | 11 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 22:15 | 1 |
| Chrysene | <9.8 | | 36 | 9.8 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 22:15 | 1 |
| Dibenz(a,h)anthracene | <6.9 | | 36 | 6.9 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 22:15 | 1 |
| Fluoranthene | <6.7 | | 36 | 6.7 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 22:15 | 1 |
| Fluorene | <5.1 | | 36 | 5.1 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 22:15 | 1 |
| Indeno[1,2,3-cd]pyrene | <9.3 | | 36 | 9.3 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 22:15 | 1 |
| Naphthalene | <5.5 | | 36 | 5.5 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 22:15 | 1 |
| Phenanthrene | <5.0 | | 36 | 5.0 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 22:15 | 1 |
| Pyrene | <7.1 | | 36 | 7.1 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 22:15 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2-Fluorobiphenyl | 102 | | 43 - 145 | | | | 04/30/20 07:30 | 04/30/20 22:15 | 1 |
| Nitrobenzene-d5 (Surr) | 97 | | 37 - 147 | | | | 04/30/20 07:30 | 04/30/20 22:15 | 1 |
| Terphenyl-d14 (Surr) | 124 | | 42 - 157 | | | | 04/30/20 07:30 | 04/30/20 22:15 | 1 |

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|-------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Arsenic | 1.2 | | 0.97 | 0.33 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:25 | 1 |
| Barium | 11 | | 0.97 | 0.11 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:25 | 1 |
| Cadmium | 0.10 | J | 0.19 | 0.035 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:25 | 1 |
| Chromium | 5.6 | | 0.97 | 0.48 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:25 | 1 |

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Waldo Blvd Sampling - 193805824

Job ID: 500-180981-1

Client Sample ID: 16th Excav 6-8

Lab Sample ID: 500-180981-4

Date Collected: 04/21/20 10:30

Matrix: Solid

Date Received: 04/22/20 10:10

Percent Solids: 92.0

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Lead | 2.8 | | 0.48 | 0.22 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:25 | 1 |
| Selenium | <0.57 | | 0.97 | 0.57 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:25 | 1 |
| Silver | 0.18 | J | 0.48 | 0.12 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:25 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|---------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | <0.0055 | | 0.017 | 0.0055 | mg/Kg | ☼ | 04/29/20 13:25 | 04/30/20 08:28 | 1 |



Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Waldo Blvd Sampling - 193805824

Job ID: 500-180981-1

Client Sample ID: 14th Excav 2-7

Lab Sample ID: 500-180981-5

Date Collected: 04/21/20 10:35

Matrix: Solid

Date Received: 04/22/20 10:10

Percent Solids: 80.5

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,1,1,2-Tetrachloroethane | <34 | | 74 | 34 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| 1,1,1-Trichloroethane | <28 | | 74 | 28 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| 1,1,2,2-Tetrachloroethane | <29 | | 74 | 29 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| 1,1,2-Trichloroethane | <26 | | 74 | 26 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| 1,1-Dichloroethane | <30 | | 74 | 30 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| 1,1-Dichloroethene | <29 | | 74 | 29 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| 1,1-Dichloropropene | <22 | | 74 | 22 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| 1,2,3-Trichlorobenzene | <34 | | 74 | 34 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| 1,2,3-Trichloropropane | <30 | | 150 | 30 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| 1,2,4-Trichlorobenzene | <25 | | 74 | 25 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| 1,2,4-Trimethylbenzene | <26 | | 74 | 26 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| 1,2-Dibromo-3-Chloropropane | <150 | | 370 | 150 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| 1,2-Dibromoethane | <28 | | 74 | 28 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| 1,2-Dichlorobenzene | <25 | | 74 | 25 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| 1,2-Dichloroethane | <29 | | 74 | 29 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| 1,2-Dichloropropane | <31 | | 74 | 31 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| 1,3,5-Trimethylbenzene | <28 | | 74 | 28 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| 1,3-Dichlorobenzene | <29 | | 74 | 29 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| 1,3-Dichloropropane | <27 | | 74 | 27 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| 1,4-Dichlorobenzene | <27 | | 74 | 27 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| 2,2-Dichloropropane | <33 | | 74 | 33 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| 2-Chlorotoluene | <23 | | 74 | 23 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| 4-Chlorotoluene | <26 | | 74 | 26 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| Benzene | <11 | | 18 | 11 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| Bromobenzene | <26 | | 74 | 26 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| Bromochloromethane | <31 | | 74 | 31 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| Bromodichloromethane | <27 | | 74 | 27 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| Bromoform | <36 | | 74 | 36 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| Bromomethane | <59 * | | 220 | 59 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| Carbon tetrachloride | <28 | | 74 | 28 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| Chlorobenzene | <28 | | 74 | 28 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| Chloroethane | <37 | | 74 | 37 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| Chloroform | <27 | | 150 | 27 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| Chloromethane | <24 | | 74 | 24 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| cis-1,2-Dichloroethene | <30 | | 74 | 30 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| cis-1,3-Dichloropropane | <31 | | 74 | 31 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| Dibromochloromethane | <36 | | 74 | 36 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| Dibromomethane | <20 | | 74 | 20 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| Dichlorodifluoromethane | <50 | | 220 | 50 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| Ethylbenzene | <13 | | 18 | 13 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| Hexachlorobutadiene | <33 | | 74 | 33 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| Isopropyl ether | <20 | | 74 | 20 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| Isopropylbenzene | <28 | | 74 | 28 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| Methyl tert-butyl ether | <29 | | 74 | 29 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| Methylene Chloride | <120 | | 370 | 120 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| Naphthalene | <25 | | 74 | 25 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| n-Butylbenzene | <29 | | 74 | 29 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| N-Propylbenzene | <30 | | 74 | 30 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| p-Isopropyltoluene | <27 | | 74 | 27 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Waldo Blvd Sampling - 193805824

Job ID: 500-180981-1

Client Sample ID: 14th Excav 2-7

Lab Sample ID: 500-180981-5

Date Collected: 04/21/20 10:35

Matrix: Solid

Date Received: 04/22/20 10:10

Percent Solids: 80.5

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| sec-Butylbenzene | <29 | | 74 | 29 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| Styrene | <28 | | 74 | 28 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| tert-Butylbenzene | <29 | | 74 | 29 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| Tetrachloroethene | <27 | | 74 | 27 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| Toluene | <11 | | 18 | 11 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| trans-1,2-Dichloroethene | <26 | | 74 | 26 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| trans-1,3-Dichloropropene | <27 | | 74 | 27 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| Trichloroethene | <12 | | 37 | 12 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| Trichlorofluoromethane | <31 | | 74 | 31 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| Vinyl chloride | <19 | | 74 | 19 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| Xylenes, Total | <16 | | 37 | 16 | ug/Kg | ☼ | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 102 | | 75 - 126 | | | | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| 4-Bromofluorobenzene (Surr) | 87 | | 72 - 124 | | | | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| Dibromofluoromethane | 101 | | 75 - 120 | | | | 04/21/20 10:35 | 04/30/20 16:42 | 50 |
| Toluene-d8 (Surr) | 104 | | 75 - 120 | | | | 04/21/20 10:35 | 04/30/20 16:42 | 50 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| 1-Methylnaphthalene | <10 | | 83 | 10 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 22:43 | 1 |
| 2-Methylnaphthalene | <7.6 | | 83 | 7.6 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 22:43 | 1 |
| Acenaphthene | <7.4 | | 41 | 7.4 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 22:43 | 1 |
| Acenaphthylene | <5.4 | | 41 | 5.4 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 22:43 | 1 |
| Anthracene | <6.9 | | 41 | 6.9 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 22:43 | 1 |
| Benzo[a]anthracene | <5.5 | | 41 | 5.5 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 22:43 | 1 |
| Benzo[a]pyrene | <8.0 | | 41 | 8.0 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 22:43 | 1 |
| Benzo[b]fluoranthene | <8.9 | | 41 | 8.9 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 22:43 | 1 |
| Benzo[g,h,i]perylene | <13 | | 41 | 13 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 22:43 | 1 |
| Benzo[k]fluoranthene | <12 | | 41 | 12 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 22:43 | 1 |
| Chrysene | <11 | | 41 | 11 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 22:43 | 1 |
| Dibenz(a,h)anthracene | <8.0 | | 41 | 8.0 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 22:43 | 1 |
| Fluoranthene | <7.6 | | 41 | 7.6 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 22:43 | 1 |
| Fluorene | <5.8 | | 41 | 5.8 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 22:43 | 1 |
| Indeno[1,2,3-cd]pyrene | <11 | | 41 | 11 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 22:43 | 1 |
| Naphthalene | <6.3 | | 41 | 6.3 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 22:43 | 1 |
| Phenanthrene | <5.7 | | 41 | 5.7 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 22:43 | 1 |
| Pyrene | <8.2 | | 41 | 8.2 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 22:43 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2-Fluorobiphenyl | 93 | | 43 - 145 | | | | 04/30/20 07:30 | 04/30/20 22:43 | 1 |
| Nitrobenzene-d5 (Surr) | 94 | | 37 - 147 | | | | 04/30/20 07:30 | 04/30/20 22:43 | 1 |
| Terphenyl-d14 (Surr) | 111 | | 42 - 157 | | | | 04/30/20 07:30 | 04/30/20 22:43 | 1 |

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Arsenic | 2.3 | | 1.1 | 0.38 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:29 | 1 |
| Barium | 44 | | 1.1 | 0.13 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:29 | 1 |
| Cadmium | 0.088 | J | 0.22 | 0.040 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:29 | 1 |
| Chromium | 18 | | 1.1 | 0.55 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:29 | 1 |

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Waldo Blvd Sampling - 193805824

Job ID: 500-180981-1

Client Sample ID: 14th Excav 2-7

Lab Sample ID: 500-180981-5

Date Collected: 04/21/20 10:35

Matrix: Solid

Date Received: 04/22/20 10:10

Percent Solids: 80.5

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Lead | 11 | | 0.55 | 0.25 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:29 | 1 |
| Selenium | <0.65 | | 1.1 | 0.65 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:29 | 1 |
| Silver | 0.25 | J | 0.55 | 0.14 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:29 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.0095 | J | 0.018 | 0.0061 | mg/Kg | ☼ | 04/29/20 13:25 | 04/30/20 08:30 | 1 |



Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Waldo Blvd Sampling - 193805824

Job ID: 500-180981-1

Client Sample ID: Fleetwood Excav 18-20

Lab Sample ID: 500-180981-6

Date Collected: 04/21/20 10:40

Matrix: Solid

Date Received: 04/22/20 10:10

Percent Solids: 84.4

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,1,1,2-Tetrachloroethane | <31 | | 68 | 31 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| 1,1,1-Trichloroethane | <26 | | 68 | 26 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| 1,1,2,2-Tetrachloroethane | <27 | | 68 | 27 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| 1,1,2-Trichloroethane | <24 | | 68 | 24 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| 1,1-Dichloroethane | <28 | | 68 | 28 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| 1,1-Dichloroethene | <27 | | 68 | 27 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| 1,1-Dichloropropene | <20 | | 68 | 20 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| 1,2,3-Trichlorobenzene | <31 | | 68 | 31 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| 1,2,3-Trichloropropane | <28 | | 140 | 28 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| 1,2,4-Trichlorobenzene | <23 | | 68 | 23 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| 1,2,4-Trimethylbenzene | <24 | | 68 | 24 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| 1,2-Dibromo-3-Chloropropane | <140 | | 340 | 140 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| 1,2-Dibromoethane | <26 | | 68 | 26 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| 1,2-Dichlorobenzene | <23 | | 68 | 23 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| 1,2-Dichloroethane | <27 | | 68 | 27 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| 1,2-Dichloropropane | <29 | | 68 | 29 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| 1,3,5-Trimethylbenzene | <26 | | 68 | 26 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| 1,3-Dichlorobenzene | <27 | | 68 | 27 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| 1,3-Dichloropropane | <25 | | 68 | 25 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| 1,4-Dichlorobenzene | <25 | | 68 | 25 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| 2,2-Dichloropropane | <30 | | 68 | 30 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| 2-Chlorotoluene | <21 | | 68 | 21 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| 4-Chlorotoluene | <24 | | 68 | 24 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| Benzene | <9.9 | | 17 | 9.9 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| Bromobenzene | <24 | | 68 | 24 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| Bromochloromethane | <29 | | 68 | 29 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| Bromodichloromethane | <25 | | 68 | 25 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| Bromoform | <33 | | 68 | 33 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| Bromomethane | <54 * | | 200 | 54 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| Carbon tetrachloride | <26 | | 68 | 26 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| Chlorobenzene | <26 | | 68 | 26 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| Chloroethane | <34 | | 68 | 34 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| Chloroform | <25 | | 140 | 25 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| Chloromethane | <22 | | 68 | 22 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| cis-1,2-Dichloroethene | <28 | | 68 | 28 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| cis-1,3-Dichloropropene | <28 | | 68 | 28 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| Dibromochloromethane | <33 | | 68 | 33 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| Dibromomethane | <18 | | 68 | 18 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| Dichlorodifluoromethane | <46 | | 200 | 46 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| Ethylbenzene | <12 | | 17 | 12 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| Hexachlorobutadiene | <30 | | 68 | 30 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| Isopropyl ether | <19 | | 68 | 19 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| Isopropylbenzene | <26 | | 68 | 26 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| Methyl tert-butyl ether | <27 | | 68 | 27 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| Methylene Chloride | <110 | | 340 | 110 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| Naphthalene | <23 | | 68 | 23 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| n-Butylbenzene | <26 | | 68 | 26 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| N-Propylbenzene | <28 | | 68 | 28 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| p-Isopropyltoluene | <25 | | 68 | 25 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Waldo Blvd Sampling - 193805824

Job ID: 500-180981-1

Client Sample ID: Fleetwood Excav 18-20

Lab Sample ID: 500-180981-6

Date Collected: 04/21/20 10:40

Matrix: Solid

Date Received: 04/22/20 10:10

Percent Solids: 84.4

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| sec-Butylbenzene | <27 | | 68 | 27 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| Styrene | <26 | | 68 | 26 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| tert-Butylbenzene | <27 | | 68 | 27 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| Tetrachloroethene | <25 | | 68 | 25 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| Toluene | <10 | | 17 | 10 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| trans-1,2-Dichloroethene | <24 | | 68 | 24 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| trans-1,3-Dichloropropene | <25 | | 68 | 25 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| Trichloroethene | <11 | | 34 | 11 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| Trichlorofluoromethane | <29 | | 68 | 29 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| Vinyl chloride | <18 | | 68 | 18 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| Xylenes, Total | <15 | | 34 | 15 | ug/Kg | ☼ | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 75 - 126 | | | | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| 4-Bromofluorobenzene (Surr) | 90 | | 72 - 124 | | | | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| Dibromofluoromethane | 103 | | 75 - 120 | | | | 04/21/20 10:40 | 04/30/20 17:05 | 50 |
| Toluene-d8 (Surr) | 104 | | 75 - 120 | | | | 04/21/20 10:40 | 04/30/20 17:05 | 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 | ☼ | 04/30/20 07:30 | 04/30/20 23:11 | 1 |
| 2-Methylnaphthalene | <7.0 | | 77 | 7.0 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 23:11 | 1 |
| Acenaphthene | <6.8 | | 38 | 6.8 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 23:11 | 1 |
| Acenaphthylene | <5.0 | | 38 | 5.0 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 23:11 | 1 |
| Anthracene | <6.4 | | 38 | 6.4 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 23:11 | 1 |
| Benzo[a]anthracene | <5.1 | | 38 | 5.1 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 23:11 | 1 |
| Benzo[a]pyrene | <7.4 | | 38 | 7.4 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 23:11 | 1 |
| Benzo[b]fluoranthene | <8.2 | | 38 | 8.2 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 23:11 | 1 |
| Benzo[g,h,i]perylene | <12 | | 38 | 12 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 23:11 | 1 |
| Benzo[k]fluoranthene | <11 | | 38 | 11 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 23:11 | 1 |
| Chrysene | <10 | | 38 | 10 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 23:11 | 1 |
| Dibenz(a,h)anthracene | <7.3 | | 38 | 7.3 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 23:11 | 1 |
| Fluoranthene | <7.1 | | 38 | 7.1 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 23:11 | 1 |
| Fluorene | <5.3 | | 38 | 5.3 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 23:11 | 1 |
| Indeno[1,2,3-cd]pyrene | <9.9 | | 38 | 9.9 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 23:11 | 1 |
| Naphthalene | <5.9 | | 38 | 5.9 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 23:11 | 1 |
| Phenanthrene | <5.3 | | 38 | 5.3 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 23:11 | 1 |
| Pyrene | <7.6 | | 38 | 7.6 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 23:11 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2-Fluorobiphenyl | 98 | | 43 - 145 | | | | 04/30/20 07:30 | 04/30/20 23:11 | 1 |
| Nitrobenzene-d5 (Surr) | 97 | | 37 - 147 | | | | 04/30/20 07:30 | 04/30/20 23:11 | 1 |
| Terphenyl-d14 (Surr) | 117 | | 42 - 157 | | | | 04/30/20 07:30 | 04/30/20 23:11 | 1 |

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Arsenic | 4.2 | | 1.0 | 0.36 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:33 | 1 |
| Barium | 66 | | 1.0 | 0.12 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:33 | 1 |
| Cadmium | 0.084 | J | 0.21 | 0.038 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:33 | 1 |
| Chromium | 21 | | 1.0 | 0.52 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:33 | 1 |

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Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Waldo Blvd Sampling - 193805824

Job ID: 500-180981-1

Client Sample ID: Fleetwood Excav 18-20

Lab Sample ID: 500-180981-6

Date Collected: 04/21/20 10:40

Matrix: Solid

Date Received: 04/22/20 10:10

Percent Solids: 84.4

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Lead | 9.2 | | 0.52 | 0.24 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:33 | 1 |
| Selenium | <0.61 | | 1.0 | 0.61 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:33 | 1 |
| Silver | 0.40 | J | 0.52 | 0.13 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:33 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.012 | J | 0.018 | 0.0061 | mg/Kg | ☼ | 04/29/20 13:25 | 04/30/20 08:32 | 1 |



Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Waldo Blvd Sampling - 193805824

Job ID: 500-180981-1

Client Sample ID: Fleetwood Pile 0-20

Lab Sample ID: 500-180981-7

Date Collected: 04/21/20 10:45

Matrix: Solid

Date Received: 04/22/20 10:10

Percent Solids: 86.5

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| 1-Methylnaphthalene | 23 | J | 74 | 9.0 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 23:39 | 1 |
| 2-Methylnaphthalene | 34 | J | 74 | 6.8 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 23:39 | 1 |
| Acenaphthene | <6.6 | | 37 | 6.6 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 23:39 | 1 |
| Acenaphthylene | <4.9 | | 37 | 4.9 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 23:39 | 1 |
| Anthracene | <6.2 | | 37 | 6.2 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 23:39 | 1 |
| Benzo[a]anthracene | <5.0 | | 37 | 5.0 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 23:39 | 1 |
| Benzo[a]pyrene | <7.1 | | 37 | 7.1 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 23:39 | 1 |
| Benzo[b]fluoranthene | <7.9 | | 37 | 7.9 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 23:39 | 1 |
| Benzo[g,h,i]perylene | <12 | | 37 | 12 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 23:39 | 1 |
| Benzo[k]fluoranthene | <11 | | 37 | 11 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 23:39 | 1 |
| Chrysene | 32 | J | 37 | 10 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 23:39 | 1 |
| Dibenz(a,h)anthracene | <7.1 | | 37 | 7.1 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 23:39 | 1 |
| Fluoranthene | 55 | | 37 | 6.8 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 23:39 | 1 |
| Fluorene | <5.2 | | 37 | 5.2 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 23:39 | 1 |
| Indeno[1,2,3-cd]pyrene | <9.5 | | 37 | 9.5 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 23:39 | 1 |
| Naphthalene | <5.7 | | 37 | 5.7 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 23:39 | 1 |
| Phenanthrene | 29 | J | 37 | 5.1 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 23:39 | 1 |
| Pyrene | 60 | | 37 | 7.3 | ug/Kg | ☼ | 04/30/20 07:30 | 04/30/20 23:39 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2-Fluorobiphenyl | 81 | | 43 - 145 | | | | 04/30/20 07:30 | 04/30/20 23:39 | 1 |
| Nitrobenzene-d5 (Surr) | 75 | | 37 - 147 | | | | 04/30/20 07:30 | 04/30/20 23:39 | 1 |
| Terphenyl-d14 (Surr) | 105 | | 42 - 157 | | | | 04/30/20 07:30 | 04/30/20 23:39 | 1 |

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Arsenic | 6.0 | | 1.0 | 0.36 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:38 | 1 |
| Barium | 61 | | 1.0 | 0.12 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:38 | 1 |
| Cadmium | 0.080 | J | 0.21 | 0.038 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:38 | 1 |
| Chromium | 25 | | 1.0 | 0.52 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:38 | 1 |
| Lead | 18 | | 0.52 | 0.24 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:38 | 1 |
| Selenium | <0.62 | | 1.0 | 0.62 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:38 | 1 |
| Silver | 0.44 | J | 0.52 | 0.14 | mg/Kg | ☼ | 04/22/20 17:04 | 04/23/20 10:38 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.013 | J | 0.018 | 0.0060 | mg/Kg | ☼ | 04/29/20 13:25 | 04/30/20 08:34 | 1 |

Definitions/Glossary

Client: Stantec Consulting Corp.
Project/Site: Waldo Blvd Sampling - 193805824

Job ID: 500-180981-1

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|--|
| * | LCS or LCSD is outside acceptance limits. |
| 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 |
|-----------|--|
| F1 | MS and/or MSD recovery exceeds control limits. |
| F2 | MS/MSD RPD exceeds control limits |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| X | Surrogate recovery exceeds control limits |

Metals

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

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| α | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| 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) |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| 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) |

QC Association Summary

Client: Stantec Consulting Corp.
Project/Site: Waldo Blvd Sampling - 193805824

Job ID: 500-180981-1

GC/MS VOA

Prep Batch: 539941

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|-----------------------|-----------|--------|--------|------------|
| 500-180981-1 | 18th Excav 2-10 | Total/NA | Solid | 5035 | |
| 500-180981-4 | 16th Excav 6-8 | Total/NA | Solid | 5035 | |
| 500-180981-5 | 14th Excav 2-7 | Total/NA | Solid | 5035 | |
| 500-180981-6 | Fleetwood Excav 18-20 | Total/NA | Solid | 5035 | |
| LB3 500-539941/20-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 500-539941/21-A | Lab Control Sample | Total/NA | Solid | 5035 | |

Analysis Batch: 540009

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| LB3 500-539941/20-A | Method Blank | Total/NA | Solid | 8260B | 539941 |
| MB 500-540009/6 | Method Blank | Total/NA | Solid | 8260B | |
| LCS 500-539941/21-A | Lab Control Sample | Total/NA | Solid | 8260B | 539941 |
| LCS 500-540009/4 | Lab Control Sample | Total/NA | Solid | 8260B | |

Analysis Batch: 540451

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|-----------------------|-----------|--------|--------|------------|
| 500-180981-1 | 18th Excav 2-10 | Total/NA | Solid | 8260B | 539941 |
| 500-180981-4 | 16th Excav 6-8 | Total/NA | Solid | 8260B | 539941 |
| 500-180981-5 | 14th Excav 2-7 | Total/NA | Solid | 8260B | 539941 |
| 500-180981-6 | Fleetwood Excav 18-20 | Total/NA | Solid | 8260B | 539941 |
| MB 500-540451/6 | Method Blank | Total/NA | Solid | 8260B | |
| LCS 500-540451/4 | Lab Control Sample | Total/NA | Solid | 8260B | |

GC/MS Semi VOA

Prep Batch: 540441

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|-----------------------|-----------|--------|--------|------------|
| 500-180981-1 | 18th Excav 2-10 | Total/NA | Solid | 3541 | |
| 500-180981-2 | 18th Pile | Total/NA | Solid | 3541 | |
| 500-180981-3 | 17th-18th Pile 6-8 | Total/NA | Solid | 3541 | |
| 500-180981-4 | 16th Excav 6-8 | Total/NA | Solid | 3541 | |
| 500-180981-5 | 14th Excav 2-7 | Total/NA | Solid | 3541 | |
| 500-180981-6 | Fleetwood Excav 18-20 | Total/NA | Solid | 3541 | |
| 500-180981-7 | Fleetwood Pile 0-20 | Total/NA | Solid | 3541 | |
| MB 500-540441/1-A | Method Blank | Total/NA | Solid | 3541 | |
| LCS 500-540441/2-A | Lab Control Sample | Total/NA | Solid | 3541 | |
| 500-180981-1 MS | 18th Excav 2-10 | Total/NA | Solid | 3541 | |
| 500-180981-1 MSD | 18th Excav 2-10 | Total/NA | Solid | 3541 | |

Analysis Batch: 540575

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|-----------------------|-----------|--------|--------|------------|
| 500-180981-1 | 18th Excav 2-10 | Total/NA | Solid | 8270D | 540441 |
| 500-180981-2 | 18th Pile | Total/NA | Solid | 8270D | 540441 |
| 500-180981-3 | 17th-18th Pile 6-8 | Total/NA | Solid | 8270D | 540441 |
| 500-180981-4 | 16th Excav 6-8 | Total/NA | Solid | 8270D | 540441 |
| 500-180981-5 | 14th Excav 2-7 | Total/NA | Solid | 8270D | 540441 |
| 500-180981-6 | Fleetwood Excav 18-20 | Total/NA | Solid | 8270D | 540441 |
| 500-180981-7 | Fleetwood Pile 0-20 | Total/NA | Solid | 8270D | 540441 |
| MB 500-540441/1-A | Method Blank | Total/NA | Solid | 8270D | 540441 |
| LCS 500-540441/2-A | Lab Control Sample | Total/NA | Solid | 8270D | 540441 |
| 500-180981-1 MS | 18th Excav 2-10 | Total/NA | Solid | 8270D | 540441 |

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QC Association Summary

Client: Stantec Consulting Corp.
Project/Site: Waldo Blvd Sampling - 193805824

Job ID: 500-180981-1

GC/MS Semi VOA (Continued)

Analysis Batch: 540575 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| 500-180981-1 MSD | 18th Excav 2-10 | Total/NA | Solid | 8270D | 540441 |

Metals

Prep Batch: 539349

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|-----------------------|-----------|--------|--------|------------|
| 500-180981-1 | 18th Excav 2-10 | Total/NA | Solid | 3050B | |
| 500-180981-2 | 18th Pile | Total/NA | Solid | 3050B | |
| 500-180981-3 | 17th-18th Pile 6-8 | Total/NA | Solid | 3050B | |
| 500-180981-4 | 16th Excav 6-8 | Total/NA | Solid | 3050B | |
| 500-180981-5 | 14th Excav 2-7 | Total/NA | Solid | 3050B | |
| 500-180981-6 | Fleetwood Excav 18-20 | Total/NA | Solid | 3050B | |
| 500-180981-7 | Fleetwood Pile 0-20 | Total/NA | Solid | 3050B | |
| MB 500-539349/1-A | Method Blank | Total/NA | Solid | 3050B | |
| LCS 500-539349/2-A | Lab Control Sample | Total/NA | Solid | 3050B | |

Analysis Batch: 539510

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|-----------------------|-----------|--------|--------|------------|
| 500-180981-1 | 18th Excav 2-10 | Total/NA | Solid | 6010C | 539349 |
| 500-180981-2 | 18th Pile | Total/NA | Solid | 6010C | 539349 |
| 500-180981-3 | 17th-18th Pile 6-8 | Total/NA | Solid | 6010C | 539349 |
| 500-180981-4 | 16th Excav 6-8 | Total/NA | Solid | 6010C | 539349 |
| 500-180981-5 | 14th Excav 2-7 | Total/NA | Solid | 6010C | 539349 |
| 500-180981-6 | Fleetwood Excav 18-20 | Total/NA | Solid | 6010C | 539349 |
| 500-180981-7 | Fleetwood Pile 0-20 | Total/NA | Solid | 6010C | 539349 |
| MB 500-539349/1-A | Method Blank | Total/NA | Solid | 6010C | 539349 |
| LCS 500-539349/2-A | Lab Control Sample | Total/NA | Solid | 6010C | 539349 |

Prep Batch: 540301

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|-----------------------|-----------|--------|--------|------------|
| 500-180981-1 | 18th Excav 2-10 | Total/NA | Solid | 7471B | |
| 500-180981-2 | 18th Pile | Total/NA | Solid | 7471B | |
| 500-180981-3 | 17th-18th Pile 6-8 | Total/NA | Solid | 7471B | |
| 500-180981-4 | 16th Excav 6-8 | Total/NA | Solid | 7471B | |
| 500-180981-5 | 14th Excav 2-7 | Total/NA | Solid | 7471B | |
| 500-180981-6 | Fleetwood Excav 18-20 | Total/NA | Solid | 7471B | |
| 500-180981-7 | Fleetwood Pile 0-20 | Total/NA | Solid | 7471B | |
| MB 500-540301/12-A | Method Blank | Total/NA | Solid | 7471B | |
| LCS 500-540301/13-A | Lab Control Sample | Total/NA | Solid | 7471B | |

Analysis Batch: 540516

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|-----------------------|-----------|--------|--------|------------|
| 500-180981-1 | 18th Excav 2-10 | Total/NA | Solid | 7471B | 540301 |
| 500-180981-2 | 18th Pile | Total/NA | Solid | 7471B | 540301 |
| 500-180981-3 | 17th-18th Pile 6-8 | Total/NA | Solid | 7471B | 540301 |
| 500-180981-4 | 16th Excav 6-8 | Total/NA | Solid | 7471B | 540301 |
| 500-180981-5 | 14th Excav 2-7 | Total/NA | Solid | 7471B | 540301 |
| 500-180981-6 | Fleetwood Excav 18-20 | Total/NA | Solid | 7471B | 540301 |
| 500-180981-7 | Fleetwood Pile 0-20 | Total/NA | Solid | 7471B | 540301 |
| MB 500-540301/12-A | Method Blank | Total/NA | Solid | 7471B | 540301 |
| LCS 500-540301/13-A | Lab Control Sample | Total/NA | Solid | 7471B | 540301 |

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QC Association Summary

Client: Stantec Consulting Corp.
Project/Site: Waldo Blvd Sampling - 193805824

Job ID: 500-180981-1

General Chemistry

Analysis Batch: 539325

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------|-----------------------|-----------|--------|----------|------------|
| 500-180981-1 | 18th Excav 2-10 | Total/NA | Solid | Moisture | |
| 500-180981-2 | 18th Pile | Total/NA | Solid | Moisture | |
| 500-180981-3 | 17th-18th Pile 6-8 | Total/NA | Solid | Moisture | |
| 500-180981-4 | 16th Excav 6-8 | Total/NA | Solid | Moisture | |
| 500-180981-5 | 14th Excav 2-7 | Total/NA | Solid | Moisture | |
| 500-180981-6 | Fleetwood Excav 18-20 | Total/NA | Solid | Moisture | |
| 500-180981-7 | Fleetwood Pile 0-20 | Total/NA | Solid | Moisture | |
| 500-180981-1 DU | 18th Excav 2-10 | Total/NA | Solid | Moisture | |

Surrogate Summary

Client: Stantec Consulting Corp.
 Project/Site: Waldo Blvd Sampling - 193805824

Job ID: 500-180981-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---------------------|-----------------------|--|-----------------|------------------|-----------------|
| | | DCA (75-126) | BFB (72-124) | DBFM (75-120) | TOL (75-120) |
| 500-180981-1 | 18th Excav 2-10 | 101 | 87 | 100 | 105 |
| 500-180981-4 | 16th Excav 6-8 | 103 | 88 | 103 | 102 |
| 500-180981-5 | 14th Excav 2-7 | 102 | 87 | 101 | 104 |
| 500-180981-6 | Fleetwood Excav 18-20 | 100 | 90 | 103 | 104 |
| LB3 500-539941/20-A | Method Blank | 95 | 89 | 99 | 106 |
| LCS 500-539941/21-A | Lab Control Sample | 103 | 88 | 107 | 101 |
| LCS 500-540009/4 | Lab Control Sample | 95 | 89 | 101 | 106 |
| LCS 500-540451/4 | Lab Control Sample | 94 | 91 | 101 | 105 |
| MB 500-540009/6 | Method Blank | 99 | 88 | 103 | 103 |
| MB 500-540451/6 | Method Blank | 104 | 88 | 105 | 100 |

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
 BFB = 4-Bromofluorobenzene (Surr)
 DBFM = Dibromofluoromethane
 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 | Percent Surrogate Recovery (Acceptance Limits) | | |
|--------------------|-----------------------|--|-----------------|------------------|
| | | FBP (43-145) | NBZ (37-147) | TPHL (42-157) |
| 500-180981-1 | 18th Excav 2-10 | 83 | 84 | 98 |
| 500-180981-1 MS | 18th Excav 2-10 | 113 | 99 | 107 |
| 500-180981-1 MSD | 18th Excav 2-10 | 22 X | 19 X | 24 X |
| 500-180981-2 | 18th Pile | 87 | 87 | 107 |
| 500-180981-3 | 17th-18th Pile 6-8 | 97 | 95 | 117 |
| 500-180981-4 | 16th Excav 6-8 | 102 | 97 | 124 |
| 500-180981-5 | 14th Excav 2-7 | 93 | 94 | 111 |
| 500-180981-6 | Fleetwood Excav 18-20 | 98 | 97 | 117 |
| 500-180981-7 | Fleetwood Pile 0-20 | 81 | 75 | 105 |
| LCS 500-540441/2-A | Lab Control Sample | 111 | 106 | 107 |
| MB 500-540441/1-A | Method Blank | 111 | 99 | 117 |

Surrogate Legend

FBP = 2-Fluorobiphenyl
 NBZ = Nitrobenzene-d5 (Surr)
 TPHL = Terphenyl-d14 (Surr)

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Waldo Blvd Sampling - 193805824

Job ID: 500-180981-1

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

Lab Sample ID: LB3 500-539941/20-A

Matrix: Solid

Analysis Batch: 540009

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 539941

| Analyte | LB3 | LB3 | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <23 | | 50 | 23 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| 1,1,1-Trichloroethane | <19 | | 50 | 19 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| 1,1,2,2-Tetrachloroethane | <20 | | 50 | 20 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| 1,1,2-Trichloroethane | <18 | | 50 | 18 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| 1,1-Dichloroethane | <21 | | 50 | 21 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| 1,1-Dichloroethene | <20 | | 50 | 20 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| 1,1-Dichloropropene | <15 | | 50 | 15 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| 1,2,3-Trichlorobenzene | <23 | | 50 | 23 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| 1,2,3-Trichloropropane | <21 | | 100 | 21 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| 1,2,4-Trichlorobenzene | <17 | | 50 | 17 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| 1,2,4-Trimethylbenzene | <18 | | 50 | 18 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| 1,2-Dibromo-3-Chloropropane | <100 | | 250 | 100 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| 1,2-Dibromoethane | <19 | | 50 | 19 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| 1,2-Dichlorobenzene | <17 | | 50 | 17 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| 1,2-Dichloroethane | <20 | | 50 | 20 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| 1,2-Dichloropropane | <21 | | 50 | 21 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| 1,3,5-Trimethylbenzene | <19 | | 50 | 19 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| 1,3-Dichlorobenzene | <20 | | 50 | 20 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| 1,3-Dichloropropane | <18 | | 50 | 18 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| 1,4-Dichlorobenzene | <18 | | 50 | 18 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| 2,2-Dichloropropane | <22 | | 50 | 22 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| 2-Chlorotoluene | <16 | | 50 | 16 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| 4-Chlorotoluene | <18 | | 50 | 18 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| Benzene | <7.3 | | 13 | 7.3 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| Bromobenzene | <18 | | 50 | 18 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| Bromochloromethane | <21 | | 50 | 21 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| Bromodichloromethane | <19 | | 50 | 19 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| Bromoform | <24 | | 50 | 24 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| Bromomethane | <40 | | 150 | 40 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| Carbon tetrachloride | <19 | | 50 | 19 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| Chlorobenzene | <19 | | 50 | 19 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| Chloroethane | <25 | | 50 | 25 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| Chloroform | <19 | | 100 | 19 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| Chloromethane | <16 | | 50 | 16 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| cis-1,2-Dichloroethene | <20 | | 50 | 20 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| cis-1,3-Dichloropropene | <21 | | 50 | 21 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| Dibromochloromethane | <24 | | 50 | 24 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| Dibromomethane | <14 | | 50 | 14 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| Dichlorodifluoromethane | <34 | | 150 | 34 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| Ethylbenzene | <9.2 | | 13 | 9.2 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| Hexachlorobutadiene | <22 | | 50 | 22 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| Isopropyl ether | <14 | | 50 | 14 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| Isopropylbenzene | <19 | | 50 | 19 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| Methyl tert-butyl ether | <20 | | 50 | 20 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| Methylene Chloride | <82 | | 250 | 82 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| Naphthalene | 18.9 | J | 50 | 17 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| n-Butylbenzene | <19 | | 50 | 19 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| N-Propylbenzene | <21 | | 50 | 21 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Waldo Blvd Sampling - 193805824

Job ID: 500-180981-1

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

Lab Sample ID: LB3 500-539941/20-A
Matrix: Solid
Analysis Batch: 540009

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 539941

| Analyte | LB3 | LB3 | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|----|-----|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| p-Isopropyltoluene | <18 | | 50 | 18 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| sec-Butylbenzene | <20 | | 50 | 20 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| Styrene | <19 | | 50 | 19 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| tert-Butylbenzene | <20 | | 50 | 20 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| Tetrachloroethene | <19 | | 50 | 19 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| Toluene | <7.4 | | 13 | 7.4 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| trans-1,2-Dichloroethene | <18 | | 50 | 18 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| trans-1,3-Dichloropropene | <18 | | 50 | 18 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| Trichloroethene | <8.2 | | 25 | 8.2 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| Trichlorofluoromethane | <21 | | 50 | 21 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| Vinyl chloride | <13 | | 50 | 13 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| Xylenes, Total | <11 | | 25 | 11 | ug/Kg | | 04/27/20 18:30 | 04/28/20 10:59 | 50 |

| Surrogate | LB3 | LB3 | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 95 | | 75 - 126 | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| 4-Bromofluorobenzene (Surr) | 89 | | 72 - 124 | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| Dibromofluoromethane | 99 | | 75 - 120 | 04/27/20 18:30 | 04/28/20 10:59 | 50 |
| Toluene-d8 (Surr) | 106 | | 75 - 120 | 04/27/20 18:30 | 04/28/20 10:59 | 50 |

Lab Sample ID: LCS 500-539941/21-A
Matrix: Solid
Analysis Batch: 540009

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 539941

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|-----------------------------|-------------|------------|---------------|-------|---|------|----------|
| | | | | | | | |
| 1,1,1-Trichloroethane | 2500 | 2580 | | ug/Kg | | 103 | 70 - 125 |
| 1,1,1,2-Tetrachloroethane | 2500 | 2680 | | ug/Kg | | 107 | 62 - 140 |
| 1,1,2-Trichloroethane | 2500 | 2800 | | ug/Kg | | 112 | 71 - 130 |
| 1,1-Dichloroethane | 2500 | 2630 | | ug/Kg | | 105 | 70 - 125 |
| 1,1-Dichloroethene | 2500 | 2690 | | ug/Kg | | 107 | 67 - 122 |
| 1,1-Dichloropropene | 2500 | 2550 | | ug/Kg | | 102 | 70 - 121 |
| 1,2,3-Trichlorobenzene | 2500 | 2590 | | ug/Kg | | 104 | 51 - 145 |
| 1,2,3-Trichloropropane | 2500 | 2600 | | ug/Kg | | 104 | 50 - 133 |
| 1,2,4-Trichlorobenzene | 2500 | 2500 | | ug/Kg | | 100 | 57 - 137 |
| 1,2,4-Trimethylbenzene | 2500 | 2490 | | ug/Kg | | 100 | 70 - 123 |
| 1,2-Dibromo-3-Chloropropane | 2500 | 2290 | | ug/Kg | | 92 | 56 - 123 |
| 1,2-Dibromoethane | 2500 | 2830 | | ug/Kg | | 113 | 70 - 125 |
| 1,2-Dichlorobenzene | 2500 | 2710 | | ug/Kg | | 108 | 70 - 125 |
| 1,2-Dichloroethane | 2500 | 2790 | | ug/Kg | | 112 | 68 - 127 |
| 1,2-Dichloropropane | 2500 | 2560 | | ug/Kg | | 102 | 67 - 130 |
| 1,3,5-Trimethylbenzene | 2500 | 2490 | | ug/Kg | | 100 | 70 - 123 |
| 1,3-Dichlorobenzene | 2500 | 2620 | | ug/Kg | | 105 | 70 - 125 |
| 1,3-Dichloropropane | 2500 | 2760 | | ug/Kg | | 110 | 62 - 136 |
| 1,4-Dichlorobenzene | 2500 | 2610 | | ug/Kg | | 104 | 70 - 120 |
| 2,2-Dichloropropane | 2500 | 2450 | | ug/Kg | | 98 | 58 - 139 |
| 2-Chlorotoluene | 2500 | 2510 | | ug/Kg | | 100 | 70 - 125 |
| 4-Chlorotoluene | 2500 | 2510 | | ug/Kg | | 100 | 68 - 124 |
| Benzene | 2500 | 2890 | | ug/Kg | | 116 | 70 - 120 |

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QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Waldo Blvd Sampling - 193805824

Job ID: 500-180981-1

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

Lab Sample ID: LCS 500-539941/21-A
Matrix: Solid
Analysis Batch: 540009

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 539941

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------|-------------|------------|---------------|-------|---|------|--------------|
| Bromobenzene | 2500 | 2640 | | ug/Kg | | 105 | 70 - 122 |
| Bromochloromethane | 2500 | 2950 | | ug/Kg | | 118 | 65 - 122 |
| Bromodichloromethane | 2500 | 2770 | | ug/Kg | | 111 | 69 - 120 |
| Bromoform | 2500 | 2800 | | ug/Kg | | 112 | 56 - 132 |
| Bromomethane | 2500 | 4490 | * | ug/Kg | | 180 | 40 - 152 |
| Carbon tetrachloride | 2500 | 2440 | | ug/Kg | | 98 | 59 - 133 |
| Chlorobenzene | 2500 | 2780 | | ug/Kg | | 111 | 70 - 120 |
| Chloroethane | 2500 | 3340 | | ug/Kg | | 134 | 48 - 136 |
| Chloroform | 2500 | 2760 | | ug/Kg | | 111 | 70 - 120 |
| Chloromethane | 2500 | 1770 | | ug/Kg | | 71 | 56 - 152 |
| cis-1,2-Dichloroethene | 2500 | 2920 | | ug/Kg | | 117 | 70 - 125 |
| cis-1,3-Dichloropropene | 2500 | 2710 | | ug/Kg | | 108 | 64 - 127 |
| Dibromochloromethane | 2500 | 2660 | | ug/Kg | | 107 | 68 - 125 |
| Dibromomethane | 2500 | 2950 | | ug/Kg | | 118 | 70 - 120 |
| Dichlorodifluoromethane | 2500 | 1480 | | ug/Kg | | 59 | 40 - 159 |
| Ethylbenzene | 2500 | 2740 | | ug/Kg | | 109 | 70 - 123 |
| Hexachlorobutadiene | 2500 | 2140 | | ug/Kg | | 86 | 51 - 150 |
| Isopropylbenzene | 2500 | 2430 | | ug/Kg | | 97 | 70 - 126 |
| Methyl tert-butyl ether | 2500 | 2940 | | ug/Kg | | 117 | 55 - 123 |
| Methylene Chloride | 2500 | 3030 | | ug/Kg | | 121 | 69 - 125 |
| Naphthalene | 2500 | 2600 | | ug/Kg | | 104 | 53 - 144 |
| n-Butylbenzene | 2500 | 2390 | | ug/Kg | | 96 | 68 - 125 |
| N-Propylbenzene | 2500 | 2440 | | ug/Kg | | 97 | 69 - 127 |
| p-Isopropyltoluene | 2500 | 2350 | | ug/Kg | | 94 | 70 - 125 |
| sec-Butylbenzene | 2500 | 2410 | | ug/Kg | | 96 | 70 - 123 |
| Styrene | 2500 | 2720 | | ug/Kg | | 109 | 70 - 120 |
| tert-Butylbenzene | 2500 | 2400 | | ug/Kg | | 96 | 70 - 121 |
| Tetrachloroethene | 2500 | 2650 | | ug/Kg | | 106 | 70 - 128 |
| Toluene | 2500 | 2760 | | ug/Kg | | 110 | 70 - 125 |
| trans-1,2-Dichloroethene | 2500 | 2850 | | ug/Kg | | 114 | 70 - 125 |
| trans-1,3-Dichloropropene | 2500 | 2630 | | ug/Kg | | 105 | 62 - 128 |
| Trichloroethene | 2500 | 2730 | | ug/Kg | | 109 | 70 - 125 |
| Trichlorofluoromethane | 2500 | 2410 | | ug/Kg | | 96 | 55 - 128 |
| Vinyl chloride | 2500 | 2020 | | ug/Kg | | 81 | 64 - 126 |
| Xylenes, Total | 5000 | 5360 | | ug/Kg | | 107 | 70 - 125 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 75 - 126 |
| 4-Bromofluorobenzene (Surr) | 88 | | 72 - 124 |
| Dibromofluoromethane | 107 | | 75 - 120 |
| Toluene-d8 (Surr) | 101 | | 75 - 120 |

Lab Sample ID: MB 500-540009/6
Matrix: Solid
Analysis Batch: 540009

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 | | | 04/28/20 10:35 | 1 |

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QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Waldo Blvd Sampling - 193805824

Job ID: 500-180981-1

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

Lab Sample ID: MB 500-540009/6

Matrix: Solid

Analysis Batch: 540009

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 | | | 04/28/20 10:35 | 1 |
| 1,1,2,2-Tetrachloroethane | <0.40 | | 1.0 | 0.40 | ug/Kg | | | 04/28/20 10:35 | 1 |
| 1,1,2-Trichloroethane | <0.35 | | 1.0 | 0.35 | ug/Kg | | | 04/28/20 10:35 | 1 |
| 1,1-Dichloroethane | <0.41 | | 1.0 | 0.41 | ug/Kg | | | 04/28/20 10:35 | 1 |
| 1,1-Dichloroethene | <0.39 | | 1.0 | 0.39 | ug/Kg | | | 04/28/20 10:35 | 1 |
| 1,1-Dichloropropene | <0.30 | | 1.0 | 0.30 | ug/Kg | | | 04/28/20 10:35 | 1 |
| 1,2,3-Trichlorobenzene | <0.46 | | 1.0 | 0.46 | ug/Kg | | | 04/28/20 10:35 | 1 |
| 1,2,3-Trichloropropane | <0.41 | | 2.0 | 0.41 | ug/Kg | | | 04/28/20 10:35 | 1 |
| 1,2,4-Trichlorobenzene | <0.34 | | 1.0 | 0.34 | ug/Kg | | | 04/28/20 10:35 | 1 |
| 1,2,4-Trimethylbenzene | <0.36 | | 1.0 | 0.36 | ug/Kg | | | 04/28/20 10:35 | 1 |
| 1,2-Dibromo-3-Chloropropane | <2.0 | | 5.0 | 2.0 | ug/Kg | | | 04/28/20 10:35 | 1 |
| 1,2-Dibromoethane | <0.39 | | 1.0 | 0.39 | ug/Kg | | | 04/28/20 10:35 | 1 |
| 1,2-Dichlorobenzene | <0.33 | | 1.0 | 0.33 | ug/Kg | | | 04/28/20 10:35 | 1 |
| 1,2-Dichloroethane | <0.39 | | 1.0 | 0.39 | ug/Kg | | | 04/28/20 10:35 | 1 |
| 1,2-Dichloropropane | <0.43 | | 1.0 | 0.43 | ug/Kg | | | 04/28/20 10:35 | 1 |
| 1,3,5-Trimethylbenzene | <0.38 | | 1.0 | 0.38 | ug/Kg | | | 04/28/20 10:35 | 1 |
| 1,3-Dichlorobenzene | <0.40 | | 1.0 | 0.40 | ug/Kg | | | 04/28/20 10:35 | 1 |
| 1,3-Dichloropropane | <0.36 | | 1.0 | 0.36 | ug/Kg | | | 04/28/20 10:35 | 1 |
| 1,4-Dichlorobenzene | <0.36 | | 1.0 | 0.36 | ug/Kg | | | 04/28/20 10:35 | 1 |
| 2,2-Dichloropropane | <0.44 | | 1.0 | 0.44 | ug/Kg | | | 04/28/20 10:35 | 1 |
| 2-Chlorotoluene | <0.31 | | 1.0 | 0.31 | ug/Kg | | | 04/28/20 10:35 | 1 |
| 4-Chlorotoluene | <0.35 | | 1.0 | 0.35 | ug/Kg | | | 04/28/20 10:35 | 1 |
| Benzene | <0.15 | | 0.25 | 0.15 | ug/Kg | | | 04/28/20 10:35 | 1 |
| Bromobenzene | <0.36 | | 1.0 | 0.36 | ug/Kg | | | 04/28/20 10:35 | 1 |
| Bromochloromethane | <0.43 | | 1.0 | 0.43 | ug/Kg | | | 04/28/20 10:35 | 1 |
| Bromodichloromethane | <0.37 | | 1.0 | 0.37 | ug/Kg | | | 04/28/20 10:35 | 1 |
| Bromoform | <0.48 | | 1.0 | 0.48 | ug/Kg | | | 04/28/20 10:35 | 1 |
| Bromomethane | <0.80 | | 3.0 | 0.80 | ug/Kg | | | 04/28/20 10:35 | 1 |
| Carbon tetrachloride | <0.38 | | 1.0 | 0.38 | ug/Kg | | | 04/28/20 10:35 | 1 |
| Chlorobenzene | <0.39 | | 1.0 | 0.39 | ug/Kg | | | 04/28/20 10:35 | 1 |
| Chloroethane | <0.50 | | 1.0 | 0.50 | ug/Kg | | | 04/28/20 10:35 | 1 |
| Chloroform | <0.37 | | 2.0 | 0.37 | ug/Kg | | | 04/28/20 10:35 | 1 |
| Chloromethane | <0.32 | | 1.0 | 0.32 | ug/Kg | | | 04/28/20 10:35 | 1 |
| cis-1,2-Dichloroethene | <0.41 | | 1.0 | 0.41 | ug/Kg | | | 04/28/20 10:35 | 1 |
| cis-1,3-Dichloropropene | <0.42 | | 1.0 | 0.42 | ug/Kg | | | 04/28/20 10:35 | 1 |
| Dibromochloromethane | <0.49 | | 1.0 | 0.49 | ug/Kg | | | 04/28/20 10:35 | 1 |
| Dibromomethane | <0.27 | | 1.0 | 0.27 | ug/Kg | | | 04/28/20 10:35 | 1 |
| Dichlorodifluoromethane | <0.67 | | 3.0 | 0.67 | ug/Kg | | | 04/28/20 10:35 | 1 |
| Ethylbenzene | <0.18 | | 0.25 | 0.18 | ug/Kg | | | 04/28/20 10:35 | 1 |
| Hexachlorobutadiene | <0.45 | | 1.0 | 0.45 | ug/Kg | | | 04/28/20 10:35 | 1 |
| Isopropyl ether | <0.28 | | 1.0 | 0.28 | ug/Kg | | | 04/28/20 10:35 | 1 |
| Isopropylbenzene | <0.38 | | 1.0 | 0.38 | ug/Kg | | | 04/28/20 10:35 | 1 |
| Methyl tert-butyl ether | <0.39 | | 1.0 | 0.39 | ug/Kg | | | 04/28/20 10:35 | 1 |
| Methylene Chloride | <1.6 | | 5.0 | 1.6 | ug/Kg | | | 04/28/20 10:35 | 1 |
| Naphthalene | 0.460 | J | 1.0 | 0.33 | ug/Kg | | | 04/28/20 10:35 | 1 |
| n-Butylbenzene | <0.39 | | 1.0 | 0.39 | ug/Kg | | | 04/28/20 10:35 | 1 |
| N-Propylbenzene | <0.41 | | 1.0 | 0.41 | ug/Kg | | | 04/28/20 10:35 | 1 |
| p-Isopropyltoluene | <0.36 | | 1.0 | 0.36 | ug/Kg | | | 04/28/20 10:35 | 1 |
| sec-Butylbenzene | <0.40 | | 1.0 | 0.40 | ug/Kg | | | 04/28/20 10:35 | 1 |

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Waldo Blvd Sampling - 193805824

Job ID: 500-180981-1

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

Lab Sample ID: MB 500-540009/6
Matrix: Solid
Analysis Batch: 540009

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 | | | 04/28/20 10:35 | 1 |
| tert-Butylbenzene | <0.40 | | 1.0 | 0.40 | ug/Kg | | | 04/28/20 10:35 | 1 |
| Tetrachloroethene | <0.37 | | 1.0 | 0.37 | ug/Kg | | | 04/28/20 10:35 | 1 |
| Toluene | <0.15 | | 0.25 | 0.15 | ug/Kg | | | 04/28/20 10:35 | 1 |
| trans-1,2-Dichloroethene | <0.35 | | 1.0 | 0.35 | ug/Kg | | | 04/28/20 10:35 | 1 |
| trans-1,3-Dichloropropene | <0.36 | | 1.0 | 0.36 | ug/Kg | | | 04/28/20 10:35 | 1 |
| Trichloroethene | <0.16 | | 0.50 | 0.16 | ug/Kg | | | 04/28/20 10:35 | 1 |
| Trichlorofluoromethane | <0.43 | | 1.0 | 0.43 | ug/Kg | | | 04/28/20 10:35 | 1 |
| Vinyl chloride | <0.26 | | 1.0 | 0.26 | ug/Kg | | | 04/28/20 10:35 | 1 |
| Xylenes, Total | <0.22 | | 0.50 | 0.22 | ug/Kg | | | 04/28/20 10:35 | 1 |

| Surrogate | MB MB | | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 99 | | 75 - 126 | | 04/28/20 10:35 | 1 |
| 4-Bromofluorobenzene (Surr) | 88 | | 72 - 124 | | 04/28/20 10:35 | 1 |
| Dibromofluoromethane | 103 | | 75 - 120 | | 04/28/20 10:35 | 1 |
| Toluene-d8 (Surr) | 103 | | 75 - 120 | | 04/28/20 10:35 | 1 |

Lab Sample ID: LCS 500-540009/4
Matrix: Solid
Analysis Batch: 540009

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|-------------|------------|---------------|-------|---|------|--------------|
| | | | | | | | |
| 1,1,1-Trichloroethane | 50.0 | 51.6 | | ug/Kg | | 103 | 70 - 125 |
| 1,1,1,2-Tetrachloroethane | 50.0 | 48.1 | | ug/Kg | | 96 | 62 - 140 |
| 1,1,2-Trichloroethane | 50.0 | 50.0 | | ug/Kg | | 100 | 71 - 130 |
| 1,1-Dichloroethane | 50.0 | 47.1 | | ug/Kg | | 94 | 70 - 125 |
| 1,1-Dichloroethene | 50.0 | 54.6 | | ug/Kg | | 109 | 67 - 122 |
| 1,1-Dichloropropene | 50.0 | 50.4 | | ug/Kg | | 101 | 70 - 121 |
| 1,2,3-Trichlorobenzene | 50.0 | 49.2 | | ug/Kg | | 98 | 51 - 145 |
| 1,2,3-Trichloropropane | 50.0 | 45.3 | | ug/Kg | | 91 | 50 - 133 |
| 1,2,4-Trichlorobenzene | 50.0 | 49.2 | | ug/Kg | | 98 | 57 - 137 |
| 1,2,4-Trimethylbenzene | 50.0 | 48.4 | | ug/Kg | | 97 | 70 - 123 |
| 1,2-Dibromo-3-Chloropropane | 50.0 | 42.8 | | ug/Kg | | 86 | 56 - 123 |
| 1,2-Dibromoethane | 50.0 | 51.2 | | ug/Kg | | 102 | 70 - 125 |
| 1,2-Dichlorobenzene | 50.0 | 50.4 | | ug/Kg | | 101 | 70 - 125 |
| 1,2-Dichloroethane | 50.0 | 46.7 | | ug/Kg | | 93 | 68 - 127 |
| 1,2-Dichloropropane | 50.0 | 44.5 | | ug/Kg | | 89 | 67 - 130 |
| 1,3,5-Trimethylbenzene | 50.0 | 49.6 | | ug/Kg | | 99 | 70 - 123 |
| 1,3-Dichlorobenzene | 50.0 | 49.5 | | ug/Kg | | 99 | 70 - 125 |
| 1,3-Dichloropropane | 50.0 | 49.5 | | ug/Kg | | 99 | 62 - 136 |
| 1,4-Dichlorobenzene | 50.0 | 48.9 | | ug/Kg | | 98 | 70 - 120 |
| 2,2-Dichloropropane | 50.0 | 49.0 | | ug/Kg | | 98 | 58 - 139 |
| 2-Chlorotoluene | 50.0 | 49.1 | | ug/Kg | | 98 | 70 - 125 |
| 4-Chlorotoluene | 50.0 | 48.3 | | ug/Kg | | 97 | 68 - 124 |
| Benzene | 50.0 | 51.2 | | ug/Kg | | 102 | 70 - 120 |
| Bromobenzene | 50.0 | 47.7 | | ug/Kg | | 95 | 70 - 122 |
| Bromochloromethane | 50.0 | 48.6 | | ug/Kg | | 97 | 65 - 122 |

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Waldo Blvd Sampling - 193805824

Job ID: 500-180981-1

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

Lab Sample ID: LCS 500-540009/4
Matrix: Solid
Analysis Batch: 540009

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 | 47.4 | | ug/Kg | | 95 | 69 - 120 |
| Bromoform | 50.0 | 52.9 | | ug/Kg | | 106 | 56 - 132 |
| Bromomethane | 50.0 | 76.7 | * | ug/Kg | | 153 | 40 - 152 |
| Carbon tetrachloride | 50.0 | 51.5 | | ug/Kg | | 103 | 59 - 133 |
| Chlorobenzene | 50.0 | 51.6 | | ug/Kg | | 103 | 70 - 120 |
| Chloroethane | 50.0 | 57.1 | | ug/Kg | | 114 | 48 - 136 |
| Chloroform | 50.0 | 48.3 | | ug/Kg | | 97 | 70 - 120 |
| Chloromethane | 50.0 | 31.4 | | ug/Kg | | 63 | 56 - 152 |
| cis-1,2-Dichloroethene | 50.0 | 52.1 | | ug/Kg | | 104 | 70 - 125 |
| cis-1,3-Dichloropropene | 50.0 | 49.2 | | ug/Kg | | 98 | 64 - 127 |
| Dibromochloromethane | 50.0 | 50.1 | | ug/Kg | | 100 | 68 - 125 |
| Dibromomethane | 50.0 | 50.4 | | ug/Kg | | 101 | 70 - 120 |
| Dichlorodifluoromethane | 50.0 | 34.5 | | ug/Kg | | 69 | 40 - 159 |
| Ethylbenzene | 50.0 | 53.0 | | ug/Kg | | 106 | 70 - 123 |
| Hexachlorobutadiene | 50.0 | 48.0 | | ug/Kg | | 96 | 51 - 150 |
| Isopropylbenzene | 50.0 | 50.4 | | ug/Kg | | 101 | 70 - 126 |
| Methyl tert-butyl ether | 50.0 | 48.9 | | ug/Kg | | 98 | 55 - 123 |
| Methylene Chloride | 50.0 | 52.1 | | ug/Kg | | 104 | 69 - 125 |
| Naphthalene | 50.0 | 47.2 | | ug/Kg | | 94 | 53 - 144 |
| n-Butylbenzene | 50.0 | 52.7 | | ug/Kg | | 105 | 68 - 125 |
| N-Propylbenzene | 50.0 | 50.5 | | ug/Kg | | 101 | 69 - 127 |
| p-Isopropyltoluene | 50.0 | 48.9 | | ug/Kg | | 98 | 70 - 125 |
| sec-Butylbenzene | 50.0 | 51.1 | | ug/Kg | | 102 | 70 - 123 |
| Styrene | 50.0 | 50.5 | | ug/Kg | | 101 | 70 - 120 |
| tert-Butylbenzene | 50.0 | 48.0 | | ug/Kg | | 96 | 70 - 121 |
| Tetrachloroethene | 50.0 | 56.2 | | ug/Kg | | 112 | 70 - 128 |
| Toluene | 50.0 | 52.6 | | ug/Kg | | 105 | 70 - 125 |
| trans-1,2-Dichloroethene | 50.0 | 53.8 | | ug/Kg | | 108 | 70 - 125 |
| trans-1,3-Dichloropropene | 50.0 | 48.3 | | ug/Kg | | 97 | 62 - 128 |
| Trichloroethene | 50.0 | 49.9 | | ug/Kg | | 100 | 70 - 125 |
| Trichlorofluoromethane | 50.0 | 51.9 | | ug/Kg | | 104 | 55 - 128 |
| Vinyl chloride | 50.0 | 43.2 | | ug/Kg | | 86 | 64 - 126 |
| Xylenes, Total | 100 | 103 | | ug/Kg | | 103 | 70 - 125 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 95 | | 75 - 126 |
| 4-Bromofluorobenzene (Surr) | 89 | | 72 - 124 |
| Dibromofluoromethane | 101 | | 75 - 120 |
| Toluene-d8 (Surr) | 106 | | 75 - 120 |

Lab Sample ID: MB 500-540451/6
Matrix: Solid
Analysis Batch: 540451

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 | | | 04/30/20 11:29 | 1 |
| 1,1,1-Trichloroethane | <0.38 | | 1.0 | 0.38 | ug/Kg | | | 04/30/20 11:29 | 1 |
| 1,1,2,2-Tetrachloroethane | <0.40 | | 1.0 | 0.40 | ug/Kg | | | 04/30/20 11:29 | 1 |

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Waldo Blvd Sampling - 193805824

Job ID: 500-180981-1

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

Lab Sample ID: MB 500-540451/6

Matrix: Solid

Analysis Batch: 540451

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 | | | 04/30/20 11:29 | 1 |
| 1,1-Dichloroethane | <0.41 | | 1.0 | 0.41 | ug/Kg | | | 04/30/20 11:29 | 1 |
| 1,1-Dichloroethene | <0.39 | | 1.0 | 0.39 | ug/Kg | | | 04/30/20 11:29 | 1 |
| 1,1-Dichloropropene | <0.30 | | 1.0 | 0.30 | ug/Kg | | | 04/30/20 11:29 | 1 |
| 1,2,3-Trichlorobenzene | 0.494 | J | 1.0 | 0.46 | ug/Kg | | | 04/30/20 11:29 | 1 |
| 1,2,3-Trichloropropane | <0.41 | | 2.0 | 0.41 | ug/Kg | | | 04/30/20 11:29 | 1 |
| 1,2,4-Trichlorobenzene | <0.34 | | 1.0 | 0.34 | ug/Kg | | | 04/30/20 11:29 | 1 |
| 1,2,4-Trimethylbenzene | <0.36 | | 1.0 | 0.36 | ug/Kg | | | 04/30/20 11:29 | 1 |
| 1,2-Dibromo-3-Chloropropane | <2.0 | | 5.0 | 2.0 | ug/Kg | | | 04/30/20 11:29 | 1 |
| 1,2-Dibromoethane | <0.39 | | 1.0 | 0.39 | ug/Kg | | | 04/30/20 11:29 | 1 |
| 1,2-Dichlorobenzene | <0.33 | | 1.0 | 0.33 | ug/Kg | | | 04/30/20 11:29 | 1 |
| 1,2-Dichloroethane | <0.39 | | 1.0 | 0.39 | ug/Kg | | | 04/30/20 11:29 | 1 |
| 1,2-Dichloropropane | <0.43 | | 1.0 | 0.43 | ug/Kg | | | 04/30/20 11:29 | 1 |
| 1,3,5-Trimethylbenzene | <0.38 | | 1.0 | 0.38 | ug/Kg | | | 04/30/20 11:29 | 1 |
| 1,3-Dichlorobenzene | <0.40 | | 1.0 | 0.40 | ug/Kg | | | 04/30/20 11:29 | 1 |
| 1,3-Dichloropropane | <0.36 | | 1.0 | 0.36 | ug/Kg | | | 04/30/20 11:29 | 1 |
| 1,4-Dichlorobenzene | <0.36 | | 1.0 | 0.36 | ug/Kg | | | 04/30/20 11:29 | 1 |
| 2,2-Dichloropropane | <0.44 | | 1.0 | 0.44 | ug/Kg | | | 04/30/20 11:29 | 1 |
| 2-Chlorotoluene | <0.31 | | 1.0 | 0.31 | ug/Kg | | | 04/30/20 11:29 | 1 |
| 4-Chlorotoluene | <0.35 | | 1.0 | 0.35 | ug/Kg | | | 04/30/20 11:29 | 1 |
| Benzene | <0.15 | | 0.25 | 0.15 | ug/Kg | | | 04/30/20 11:29 | 1 |
| Bromobenzene | <0.36 | | 1.0 | 0.36 | ug/Kg | | | 04/30/20 11:29 | 1 |
| Bromochloromethane | <0.43 | | 1.0 | 0.43 | ug/Kg | | | 04/30/20 11:29 | 1 |
| Bromodichloromethane | <0.37 | | 1.0 | 0.37 | ug/Kg | | | 04/30/20 11:29 | 1 |
| Bromoform | <0.48 | | 1.0 | 0.48 | ug/Kg | | | 04/30/20 11:29 | 1 |
| Bromomethane | <0.80 | | 3.0 | 0.80 | ug/Kg | | | 04/30/20 11:29 | 1 |
| Carbon tetrachloride | <0.38 | | 1.0 | 0.38 | ug/Kg | | | 04/30/20 11:29 | 1 |
| Chlorobenzene | <0.39 | | 1.0 | 0.39 | ug/Kg | | | 04/30/20 11:29 | 1 |
| Chloroethane | <0.50 | | 1.0 | 0.50 | ug/Kg | | | 04/30/20 11:29 | 1 |
| Chloroform | <0.37 | | 2.0 | 0.37 | ug/Kg | | | 04/30/20 11:29 | 1 |
| Chloromethane | <0.32 | | 1.0 | 0.32 | ug/Kg | | | 04/30/20 11:29 | 1 |
| cis-1,2-Dichloroethene | <0.41 | | 1.0 | 0.41 | ug/Kg | | | 04/30/20 11:29 | 1 |
| cis-1,3-Dichloropropene | <0.42 | | 1.0 | 0.42 | ug/Kg | | | 04/30/20 11:29 | 1 |
| Dibromochloromethane | <0.49 | | 1.0 | 0.49 | ug/Kg | | | 04/30/20 11:29 | 1 |
| Dibromomethane | <0.27 | | 1.0 | 0.27 | ug/Kg | | | 04/30/20 11:29 | 1 |
| Dichlorodifluoromethane | <0.67 | | 3.0 | 0.67 | ug/Kg | | | 04/30/20 11:29 | 1 |
| Ethylbenzene | <0.18 | | 0.25 | 0.18 | ug/Kg | | | 04/30/20 11:29 | 1 |
| Hexachlorobutadiene | <0.45 | | 1.0 | 0.45 | ug/Kg | | | 04/30/20 11:29 | 1 |
| Isopropyl ether | <0.28 | | 1.0 | 0.28 | ug/Kg | | | 04/30/20 11:29 | 1 |
| Isopropylbenzene | <0.38 | | 1.0 | 0.38 | ug/Kg | | | 04/30/20 11:29 | 1 |
| Methyl tert-butyl ether | <0.39 | | 1.0 | 0.39 | ug/Kg | | | 04/30/20 11:29 | 1 |
| Methylene Chloride | <1.6 | | 5.0 | 1.6 | ug/Kg | | | 04/30/20 11:29 | 1 |
| Naphthalene | 0.538 | J | 1.0 | 0.33 | ug/Kg | | | 04/30/20 11:29 | 1 |
| n-Butylbenzene | <0.39 | | 1.0 | 0.39 | ug/Kg | | | 04/30/20 11:29 | 1 |
| N-Propylbenzene | <0.41 | | 1.0 | 0.41 | ug/Kg | | | 04/30/20 11:29 | 1 |
| p-Isopropyltoluene | <0.36 | | 1.0 | 0.36 | ug/Kg | | | 04/30/20 11:29 | 1 |
| sec-Butylbenzene | <0.40 | | 1.0 | 0.40 | ug/Kg | | | 04/30/20 11:29 | 1 |
| Styrene | <0.39 | | 1.0 | 0.39 | ug/Kg | | | 04/30/20 11:29 | 1 |
| tert-Butylbenzene | <0.40 | | 1.0 | 0.40 | ug/Kg | | | 04/30/20 11:29 | 1 |

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Stantec Consulting Corp.
Project/Site: Waldo Blvd Sampling - 193805824

Job ID: 500-180981-1

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

Lab Sample ID: MB 500-540451/6
Matrix: Solid
Analysis Batch: 540451

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 | | | 04/30/20 11:29 | 1 |
| Toluene | 0.170 | J | 0.25 | 0.15 | ug/Kg | | | 04/30/20 11:29 | 1 |
| trans-1,2-Dichloroethene | <0.35 | | 1.0 | 0.35 | ug/Kg | | | 04/30/20 11:29 | 1 |
| trans-1,3-Dichloropropene | <0.36 | | 1.0 | 0.36 | ug/Kg | | | 04/30/20 11:29 | 1 |
| Trichloroethene | <0.16 | | 0.50 | 0.16 | ug/Kg | | | 04/30/20 11:29 | 1 |
| Trichlorofluoromethane | <0.43 | | 1.0 | 0.43 | ug/Kg | | | 04/30/20 11:29 | 1 |
| Vinyl chloride | <0.26 | | 1.0 | 0.26 | ug/Kg | | | 04/30/20 11:29 | 1 |
| Xylenes, Total | <0.22 | | 0.50 | 0.22 | ug/Kg | | | 04/30/20 11:29 | 1 |

| Surrogate | MB MB | | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 104 | | 75 - 126 | | 04/30/20 11:29 | 1 |
| 4-Bromofluorobenzene (Surr) | 88 | | 72 - 124 | | 04/30/20 11:29 | 1 |
| Dibromofluoromethane | 105 | | 75 - 120 | | 04/30/20 11:29 | 1 |
| Toluene-d8 (Surr) | 100 | | 75 - 120 | | 04/30/20 11:29 | 1 |

Lab Sample ID: LCS 500-540451/4
Matrix: Solid
Analysis Batch: 540451

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

| Analyte | Spike Added | LCS LCS | | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|-------------|---------|-----------|-------|---|------|--------------|
| | | Result | Qualifier | | | | |
| 1,1,1,2-Tetrachloroethane | 50.0 | 52.0 | | ug/Kg | | 104 | 70 - 125 |
| 1,1,1-Trichloroethane | 50.0 | 52.1 | | ug/Kg | | 104 | 70 - 125 |
| 1,1,1,2-Tetrachloroethane | 50.0 | 45.4 | | ug/Kg | | 91 | 62 - 140 |
| 1,1,2-Trichloroethane | 50.0 | 49.6 | | ug/Kg | | 99 | 71 - 130 |
| 1,1-Dichloroethane | 50.0 | 47.8 | | ug/Kg | | 96 | 70 - 125 |
| 1,1-Dichloroethene | 50.0 | 54.9 | | ug/Kg | | 110 | 67 - 122 |
| 1,1-Dichloropropene | 50.0 | 50.7 | | ug/Kg | | 101 | 70 - 121 |
| 1,2,3-Trichlorobenzene | 50.0 | 50.3 | | ug/Kg | | 101 | 51 - 145 |
| 1,2,3-Trichloropropane | 50.0 | 44.4 | | ug/Kg | | 89 | 50 - 133 |
| 1,2,4-Trichlorobenzene | 50.0 | 49.6 | | ug/Kg | | 99 | 57 - 137 |
| 1,2,4-Trimethylbenzene | 50.0 | 48.8 | | ug/Kg | | 98 | 70 - 123 |
| 1,2-Dibromo-3-Chloropropane | 50.0 | 40.8 | | ug/Kg | | 82 | 56 - 123 |
| 1,2-Dibromoethane | 50.0 | 49.5 | | ug/Kg | | 99 | 70 - 125 |
| 1,2-Dichlorobenzene | 50.0 | 50.4 | | ug/Kg | | 101 | 70 - 125 |
| 1,2-Dichloroethane | 50.0 | 46.6 | | ug/Kg | | 93 | 68 - 127 |
| 1,2-Dichloropropane | 50.0 | 45.8 | | ug/Kg | | 92 | 67 - 130 |
| 1,3,5-Trimethylbenzene | 50.0 | 49.4 | | ug/Kg | | 99 | 70 - 123 |
| 1,3-Dichlorobenzene | 50.0 | 49.4 | | ug/Kg | | 99 | 70 - 125 |
| 1,3-Dichloropropane | 50.0 | 48.8 | | ug/Kg | | 98 | 62 - 136 |
| 1,4-Dichlorobenzene | 50.0 | 49.0 | | ug/Kg | | 98 | 70 - 120 |
| 2,2-Dichloropropane | 50.0 | 50.6 | | ug/Kg | | 101 | 58 - 139 |
| 2-Chlorotoluene | 50.0 | 48.4 | | ug/Kg | | 97 | 70 - 125 |
| 4-Chlorotoluene | 50.0 | 48.1 | | ug/Kg | | 96 | 68 - 124 |
| Benzene | 50.0 | 51.8 | | ug/Kg | | 104 | 70 - 120 |
| Bromobenzene | 50.0 | 47.3 | | ug/Kg | | 95 | 70 - 122 |
| Bromochloromethane | 50.0 | 48.3 | | ug/Kg | | 97 | 65 - 122 |
| Bromodichloromethane | 50.0 | 47.9 | | ug/Kg | | 96 | 69 - 120 |
| Bromoform | 50.0 | 50.6 | | ug/Kg | | 101 | 56 - 132 |

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Stantec Consulting Corp.
Project/Site: Waldo Blvd Sampling - 193805824

Job ID: 500-180981-1

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

Lab Sample ID: LCS 500-540451/4
Matrix: Solid
Analysis Batch: 540451

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------|-------------|------------|---------------|-------|---|------|--------------|
| Bromomethane | 50.0 | 88.2 | * | ug/Kg | | 176 | 40 - 152 |
| Carbon tetrachloride | 50.0 | 52.5 | | ug/Kg | | 105 | 59 - 133 |
| Chlorobenzene | 50.0 | 52.0 | | ug/Kg | | 104 | 70 - 120 |
| Chloroethane | 50.0 | 61.4 | | ug/Kg | | 123 | 48 - 136 |
| Chloroform | 50.0 | 49.8 | | ug/Kg | | 100 | 70 - 120 |
| Chloromethane | 50.0 | 31.5 | | ug/Kg | | 63 | 56 - 152 |
| cis-1,2-Dichloroethene | 50.0 | 52.8 | | ug/Kg | | 106 | 70 - 125 |
| cis-1,3-Dichloropropene | 50.0 | 50.2 | | ug/Kg | | 100 | 64 - 127 |
| Dibromochloromethane | 50.0 | 48.3 | | ug/Kg | | 97 | 68 - 125 |
| Dibromomethane | 50.0 | 49.8 | | ug/Kg | | 100 | 70 - 120 |
| Dichlorodifluoromethane | 50.0 | 37.6 | | ug/Kg | | 75 | 40 - 159 |
| Ethylbenzene | 50.0 | 54.1 | | ug/Kg | | 108 | 70 - 123 |
| Hexachlorobutadiene | 50.0 | 49.0 | | ug/Kg | | 98 | 51 - 150 |
| Isopropylbenzene | 50.0 | 49.8 | | ug/Kg | | 100 | 70 - 126 |
| Methyl tert-butyl ether | 50.0 | 49.7 | | ug/Kg | | 99 | 55 - 123 |
| Methylene Chloride | 50.0 | 52.3 | | ug/Kg | | 105 | 69 - 125 |
| Naphthalene | 50.0 | 47.1 | | ug/Kg | | 94 | 53 - 144 |
| n-Butylbenzene | 50.0 | 53.7 | | ug/Kg | | 107 | 68 - 125 |
| N-Propylbenzene | 50.0 | 50.7 | | ug/Kg | | 101 | 69 - 127 |
| p-Isopropyltoluene | 50.0 | 49.4 | | ug/Kg | | 99 | 70 - 125 |
| sec-Butylbenzene | 50.0 | 51.4 | | ug/Kg | | 103 | 70 - 123 |
| Styrene | 50.0 | 51.1 | | ug/Kg | | 102 | 70 - 120 |
| tert-Butylbenzene | 50.0 | 48.2 | | ug/Kg | | 96 | 70 - 121 |
| Tetrachloroethene | 50.0 | 55.1 | | ug/Kg | | 110 | 70 - 128 |
| Toluene | 50.0 | 53.0 | | ug/Kg | | 106 | 70 - 125 |
| trans-1,2-Dichloroethene | 50.0 | 54.5 | | ug/Kg | | 109 | 70 - 125 |
| trans-1,3-Dichloropropene | 50.0 | 47.5 | | ug/Kg | | 95 | 62 - 128 |
| Trichloroethene | 50.0 | 51.5 | | ug/Kg | | 103 | 70 - 125 |
| Trichlorofluoromethane | 50.0 | 52.4 | | ug/Kg | | 105 | 55 - 128 |
| Vinyl chloride | 50.0 | 43.1 | | ug/Kg | | 86 | 64 - 126 |
| Xylenes, Total | 100 | 105 | | ug/Kg | | 105 | 70 - 125 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 94 | | 75 - 126 |
| 4-Bromofluorobenzene (Surr) | 91 | | 72 - 124 |
| Dibromofluoromethane | 101 | | 75 - 120 |
| Toluene-d8 (Surr) | 105 | | 75 - 120 |

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

Lab Sample ID: MB 500-540441/1-A
Matrix: Solid
Analysis Batch: 540575

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 540441

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|-----------|--------------|----|-----|-------|---|----------------|----------------|---------|
| 1-Methylnaphthalene | <8.1 | | 67 | 8.1 | ug/Kg | | 04/30/20 07:30 | 04/30/20 20:24 | 1 |
| 2-Methylnaphthalene | <6.1 | | 67 | 6.1 | ug/Kg | | 04/30/20 07:30 | 04/30/20 20:24 | 1 |
| Acenaphthene | <6.0 | | 33 | 6.0 | ug/Kg | | 04/30/20 07:30 | 04/30/20 20:24 | 1 |
| Acenaphthylene | <4.4 | | 33 | 4.4 | ug/Kg | | 04/30/20 07:30 | 04/30/20 20:24 | 1 |

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QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Waldo Blvd Sampling - 193805824

Job ID: 500-180981-1

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

Lab Sample ID: MB 500-540441/1-A
Matrix: Solid
Analysis Batch: 540575

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 540441

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|----|-----|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Anthracene | <5.6 | | 33 | 5.6 | ug/Kg | | 04/30/20 07:30 | 04/30/20 20:24 | 1 |
| Benzo[a]anthracene | <4.5 | | 33 | 4.5 | ug/Kg | | 04/30/20 07:30 | 04/30/20 20:24 | 1 |
| Benzo[a]pyrene | <6.4 | | 33 | 6.4 | ug/Kg | | 04/30/20 07:30 | 04/30/20 20:24 | 1 |
| Benzo[b]fluoranthene | <7.2 | | 33 | 7.2 | ug/Kg | | 04/30/20 07:30 | 04/30/20 20:24 | 1 |
| Benzo[g,h,i]perylene | <11 | | 33 | 11 | ug/Kg | | 04/30/20 07:30 | 04/30/20 20:24 | 1 |
| Benzo[k]fluoranthene | <9.8 | | 33 | 9.8 | ug/Kg | | 04/30/20 07:30 | 04/30/20 20:24 | 1 |
| Chrysene | <9.1 | | 33 | 9.1 | ug/Kg | | 04/30/20 07:30 | 04/30/20 20:24 | 1 |
| Dibenz(a,h)anthracene | <6.4 | | 33 | 6.4 | ug/Kg | | 04/30/20 07:30 | 04/30/20 20:24 | 1 |
| Fluoranthene | <6.2 | | 33 | 6.2 | ug/Kg | | 04/30/20 07:30 | 04/30/20 20:24 | 1 |
| Fluorene | <4.7 | | 33 | 4.7 | ug/Kg | | 04/30/20 07:30 | 04/30/20 20:24 | 1 |
| Indeno[1,2,3-cd]pyrene | <8.6 | | 33 | 8.6 | ug/Kg | | 04/30/20 07:30 | 04/30/20 20:24 | 1 |
| Naphthalene | <5.1 | | 33 | 5.1 | ug/Kg | | 04/30/20 07:30 | 04/30/20 20:24 | 1 |
| Phenanthrene | <4.6 | | 33 | 4.6 | ug/Kg | | 04/30/20 07:30 | 04/30/20 20:24 | 1 |
| Pyrene | <6.6 | | 33 | 6.6 | ug/Kg | | 04/30/20 07:30 | 04/30/20 20:24 | 1 |

| Surrogate | MB | MB | Limits | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 2-Fluorobiphenyl | 111 | | 43 - 145 | 04/30/20 07:30 | 04/30/20 20:24 | 1 |
| Nitrobenzene-d5 (Surr) | 99 | | 37 - 147 | 04/30/20 07:30 | 04/30/20 20:24 | 1 |
| Terphenyl-d14 (Surr) | 117 | | 42 - 157 | 04/30/20 07:30 | 04/30/20 20:24 | 1 |

Lab Sample ID: LCS 500-540441/2-A
Matrix: Solid
Analysis Batch: 540575

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540441

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|------------------------|-------------|------------|---------------|-------|---|------|----------|
| | | | | | | | |
| 2-Methylnaphthalene | 1330 | 1420 | | ug/Kg | | 106 | 69 - 112 |
| Acenaphthene | 1330 | 1420 | | ug/Kg | | 106 | 65 - 124 |
| Acenaphthylene | 1330 | 1400 | | ug/Kg | | 105 | 68 - 120 |
| Anthracene | 1330 | 1410 | | ug/Kg | | 106 | 70 - 114 |
| Benzo[a]anthracene | 1330 | 1400 | | ug/Kg | | 105 | 67 - 122 |
| Benzo[a]pyrene | 1330 | 1480 | | ug/Kg | | 111 | 65 - 133 |
| Benzo[b]fluoranthene | 1330 | 1460 | | ug/Kg | | 109 | 69 - 129 |
| Benzo[g,h,i]perylene | 1330 | 1460 | | ug/Kg | | 110 | 72 - 131 |
| Benzo[k]fluoranthene | 1330 | 1410 | | ug/Kg | | 106 | 68 - 127 |
| Chrysene | 1330 | 1440 | | ug/Kg | | 108 | 63 - 120 |
| Dibenz(a,h)anthracene | 1330 | 1440 | | ug/Kg | | 108 | 64 - 131 |
| Fluoranthene | 1330 | 1410 | | ug/Kg | | 106 | 62 - 120 |
| Fluorene | 1330 | 1370 | | ug/Kg | | 102 | 62 - 120 |
| Indeno[1,2,3-cd]pyrene | 1330 | 1410 | | ug/Kg | | 106 | 68 - 130 |
| Naphthalene | 1330 | 1410 | | ug/Kg | | 106 | 63 - 110 |
| Phenanthrene | 1330 | 1330 | | ug/Kg | | 100 | 62 - 120 |
| Pyrene | 1330 | 1380 | | ug/Kg | | 104 | 61 - 128 |

| Surrogate | LCS | LCS | Limits |
|------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 2-Fluorobiphenyl | 111 | | 43 - 145 |
| Nitrobenzene-d5 (Surr) | 106 | | 37 - 147 |
| Terphenyl-d14 (Surr) | 107 | | 42 - 157 |

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QC Sample Results

Client: Stantec Consulting Corp.
Project/Site: Waldo Blvd Sampling - 193805824

Job ID: 500-180981-1

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

Lab Sample ID: 500-180981-1 MS

Matrix: Solid

Analysis Batch: 540575

Client Sample ID: 18th Excav 2-10

Prep Type: Total/NA

Prep Batch: 540441

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | %Rec. | |
|------------------------|------------------|------------------|---------------|--------|-----------|-------|---|------|----------|-----|
| | Result | Qualifier | Added | Result | Qualifier | | | | Limits | RPD |
| 1-Methylnaphthalene | <8.7 | F1 F2 | 1410 | 1420 | | ug/Kg | ☼ | 100 | 68 - 111 | |
| 2-Methylnaphthalene | <6.6 | F1 F2 | 1410 | 1460 | | ug/Kg | ☼ | 103 | 69 - 112 | |
| Acenaphthene | <6.4 | F1 F2 | 1410 | 1510 | | ug/Kg | ☼ | 107 | 65 - 124 | |
| Acenaphthylene | <4.7 | F1 F2 | 1410 | 1450 | | ug/Kg | ☼ | 103 | 68 - 120 | |
| Anthracene | <6.0 | F1 F2 | 1410 | 1460 | | ug/Kg | ☼ | 103 | 70 - 114 | |
| Benzo[a]anthracene | <4.8 | F1 F2 | 1410 | 1420 | | ug/Kg | ☼ | 101 | 67 - 122 | |
| Benzo[a]pyrene | <6.9 | F1 F2 | 1410 | 1560 | | ug/Kg | ☼ | 110 | 65 - 133 | |
| Benzo[b]fluoranthene | <7.7 | F1 F2 | 1410 | 1530 | | ug/Kg | ☼ | 108 | 69 - 129 | |
| Benzo[g,h,i]perylene | <11 | F1 F2 | 1410 | 1320 | | ug/Kg | ☼ | 94 | 72 - 131 | |
| Benzo[k]fluoranthene | <11 | F1 F2 | 1410 | 1520 | | ug/Kg | ☼ | 108 | 68 - 127 | |
| Chrysene | <9.7 | F1 F2 | 1410 | 1410 | | ug/Kg | ☼ | 100 | 63 - 120 | |
| Dibenz(a,h)anthracene | <6.9 | F1 F2 | 1410 | 1370 | | ug/Kg | ☼ | 97 | 64 - 131 | |
| Fluoranthene | <6.6 | F1 F2 | 1410 | 1500 | | ug/Kg | ☼ | 106 | 62 - 120 | |
| Fluorene | <5.0 | F1 F2 | 1410 | 1550 | | ug/Kg | ☼ | 109 | 62 - 120 | |
| Indeno[1,2,3-cd]pyrene | <9.2 | F1 F2 | 1410 | 1360 | | ug/Kg | ☼ | 96 | 68 - 130 | |
| Naphthalene | <5.5 | F1 F2 | 1410 | 1390 | | ug/Kg | ☼ | 98 | 63 - 110 | |
| Phenanthrene | <5.0 | F1 F2 | 1410 | 1430 | | ug/Kg | ☼ | 102 | 62 - 120 | |
| Pyrene | <7.1 | F1 F2 | 1410 | 1530 | | ug/Kg | ☼ | 108 | 61 - 128 | |
| MS MS | | | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | |
| 2-Fluorobiphenyl | 113 | | 43 - 145 | | | | | | | |
| Nitrobenzene-d5 (Surr) | 99 | | 37 - 147 | | | | | | | |
| Terphenyl-d14 (Surr) | 107 | | 42 - 157 | | | | | | | |

Lab Sample ID: 500-180981-1 MSD

Matrix: Solid

Analysis Batch: 540575

Client Sample ID: 18th Excav 2-10

Prep Type: Total/NA

Prep Batch: 540441

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec. | | RPD | Limit |
|------------------------|--------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-----|-------|
| | Result | Qualifier | Added | Result | Qualifier | | | | Limits | RPD | | |
| 1-Methylnaphthalene | <8.7 | F1 F2 | 1410 | 297 | F1 F2 | ug/Kg | ☼ | 21 | 68 - 111 | | 131 | 30 |
| 2-Methylnaphthalene | <6.6 | F1 F2 | 1410 | 303 | F1 F2 | ug/Kg | ☼ | 21 | 69 - 112 | | 131 | 30 |
| Acenaphthene | <6.4 | F1 F2 | 1410 | 311 | F1 F2 | ug/Kg | ☼ | 22 | 65 - 124 | | 132 | 30 |
| Acenaphthylene | <4.7 | F1 F2 | 1410 | 293 | F1 F2 | ug/Kg | ☼ | 21 | 68 - 120 | | 133 | 30 |
| Anthracene | <6.0 | F1 F2 | 1410 | 315 | F1 F2 | ug/Kg | ☼ | 22 | 70 - 114 | | 129 | 30 |
| Benzo[a]anthracene | <4.8 | F1 F2 | 1410 | 350 | F1 F2 | ug/Kg | ☼ | 25 | 67 - 122 | | 121 | 30 |
| Benzo[a]pyrene | <6.9 | F1 F2 | 1410 | 358 | F1 F2 | ug/Kg | ☼ | 25 | 65 - 133 | | 125 | 30 |
| Benzo[b]fluoranthene | <7.7 | F1 F2 | 1410 | 357 | F1 F2 | ug/Kg | ☼ | 25 | 69 - 129 | | 124 | 30 |
| Benzo[g,h,i]perylene | <11 | F1 F2 | 1410 | 302 | F1 F2 | ug/Kg | ☼ | 21 | 72 - 131 | | 126 | 30 |
| Benzo[k]fluoranthene | <11 | F1 F2 | 1410 | 351 | F1 F2 | ug/Kg | ☼ | 25 | 68 - 127 | | 125 | 30 |
| Chrysene | <9.7 | F1 F2 | 1410 | 348 | F1 F2 | ug/Kg | ☼ | 25 | 63 - 120 | | 121 | 30 |
| Dibenz(a,h)anthracene | <6.9 | F1 F2 | 1410 | 306 | F1 F2 | ug/Kg | ☼ | 22 | 64 - 131 | | 127 | 30 |
| Fluoranthene | <6.6 | F1 F2 | 1410 | 341 | F1 F2 | ug/Kg | ☼ | 24 | 62 - 120 | | 126 | 30 |
| Fluorene | <5.0 | F1 F2 | 1410 | 312 | F1 F2 | ug/Kg | ☼ | 22 | 62 - 120 | | 133 | 30 |
| Indeno[1,2,3-cd]pyrene | <9.2 | F1 F2 | 1410 | 317 | F1 F2 | ug/Kg | ☼ | 22 | 68 - 130 | | 124 | 30 |
| Naphthalene | <5.5 | F1 F2 | 1410 | 296 | F1 F2 | ug/Kg | ☼ | 21 | 63 - 110 | | 130 | 30 |
| Phenanthrene | <5.0 | F1 F2 | 1410 | 305 | F1 F2 | ug/Kg | ☼ | 22 | 62 - 120 | | 130 | 30 |
| Pyrene | <7.1 | F1 F2 | 1410 | 367 | F1 F2 | ug/Kg | ☼ | 26 | 61 - 128 | | 123 | 30 |

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QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Waldo Blvd Sampling - 193805824

Job ID: 500-180981-1

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

Lab Sample ID: 500-180981-1 MSD
Matrix: Solid
Analysis Batch: 540575

Client Sample ID: 18th Excav 2-10
Prep Type: Total/NA
Prep Batch: 540441

| Surrogate | MSD MSD | | Limits |
|------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 2-Fluorobiphenyl | 22 | X | 43 - 145 |
| Nitrobenzene-d5 (Surr) | 19 | X | 37 - 147 |
| Terphenyl-d14 (Surr) | 24 | X | 42 - 157 |

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 500-539349/1-A
Matrix: Solid
Analysis Batch: 539510

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 539349

| Analyte | MB MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Arsenic | <0.34 | | 1.0 | 0.34 | mg/Kg | | 04/22/20 17:04 | 04/23/20 09:25 | 1 |
| Barium | <0.11 | | 1.0 | 0.11 | mg/Kg | | 04/22/20 17:04 | 04/23/20 09:25 | 1 |
| Cadmium | <0.036 | | 0.20 | 0.036 | mg/Kg | | 04/22/20 17:04 | 04/23/20 09:25 | 1 |
| Chromium | <0.50 | | 1.0 | 0.50 | mg/Kg | | 04/22/20 17:04 | 04/23/20 09:25 | 1 |
| Lead | <0.23 | | 0.50 | 0.23 | mg/Kg | | 04/22/20 17:04 | 04/23/20 09:25 | 1 |
| Selenium | <0.59 | | 1.0 | 0.59 | mg/Kg | | 04/22/20 17:04 | 04/23/20 09:25 | 1 |
| Silver | <0.13 | | 0.50 | 0.13 | mg/Kg | | 04/22/20 17:04 | 04/23/20 09:25 | 1 |

Lab Sample ID: LCS 500-539349/2-A
Matrix: Solid
Analysis Batch: 539510

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 539349

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. | |
|----------|-------------|------------|---------------|-------|---|------|----------|--|
| | | | | | | | Limits | |
| Arsenic | 10.0 | 8.81 | | mg/Kg | | 88 | 80 - 120 | |
| Barium | 200 | 182 | | mg/Kg | | 91 | 80 - 120 | |
| Cadmium | 5.00 | 4.38 | | mg/Kg | | 88 | 80 - 120 | |
| Chromium | 20.0 | 18.2 | | mg/Kg | | 91 | 80 - 120 | |
| Lead | 10.0 | 8.91 | | mg/Kg | | 89 | 80 - 120 | |
| Selenium | 10.0 | 8.55 | | mg/Kg | | 86 | 80 - 120 | |
| Silver | 5.00 | 4.47 | | mg/Kg | | 89 | 80 - 120 | |

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-540301/12-A
Matrix: Solid
Analysis Batch: 540516

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 540301

| Analyte | MB MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|---------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Mercury | <0.0056 | | 0.017 | 0.0056 | mg/Kg | | 04/29/20 13:25 | 04/30/20 08:17 | 1 |

Lab Sample ID: LCS 500-540301/13-A
Matrix: Solid
Analysis Batch: 540516

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540301

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. | |
|---------|-------------|------------|---------------|-------|---|------|----------|--|
| | | | | | | | Limits | |
| Mercury | 0.167 | 0.165 | | mg/Kg | | 99 | 80 - 120 | |

Lab Chronicle

Client: Stantec Consulting Corp.
 Project/Site: Waldo Blvd Sampling - 193805824

Job ID: 500-180981-1

Client Sample ID: 18th Excav 2-10

Lab Sample ID: 500-180981-1

Date Collected: 04/21/20 10:15

Matrix: Solid

Date Received: 04/22/20 10:10

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | Moisture | | 1 | 539325 | 04/22/20 13:42 | LWN | TAL CHI |

Client Sample ID: 18th Excav 2-10

Lab Sample ID: 500-180981-1

Date Collected: 04/21/20 10:15

Matrix: Solid

Date Received: 04/22/20 10:10

Percent Solids: 92.9

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 539941 | 04/21/20 10:15 | WRE | TAL CHI |
| Total/NA | Analysis | 8260B | | 50 | 540451 | 04/30/20 15:54 | JDD | TAL CHI |
| Total/NA | Prep | 3541 | | | 540441 | 04/30/20 07:30 | BSO | TAL CHI |
| Total/NA | Analysis | 8270D | | 1 | 540575 | 04/30/20 20:52 | NRJ | TAL CHI |
| Total/NA | Prep | 3050B | | | 539349 | 04/22/20 17:04 | BDE | TAL CHI |
| Total/NA | Analysis | 6010C | | 1 | 539510 | 04/23/20 10:06 | JEF | TAL CHI |
| Total/NA | Prep | 7471B | | | 540301 | 04/29/20 13:25 | MJG | TAL CHI |
| Total/NA | Analysis | 7471B | | 1 | 540516 | 04/30/20 08:21 | MJG | TAL CHI |

Client Sample ID: 18th Pile

Lab Sample ID: 500-180981-2

Date Collected: 04/21/20 10:18

Matrix: Solid

Date Received: 04/22/20 10:10

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | Moisture | | 1 | 539325 | 04/22/20 13:42 | LWN | TAL CHI |

Client Sample ID: 18th Pile

Lab Sample ID: 500-180981-2

Date Collected: 04/21/20 10:18

Matrix: Solid

Date Received: 04/22/20 10:10

Percent Solids: 91.5

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3541 | | | 540441 | 04/30/20 07:30 | BSO | TAL CHI |
| Total/NA | Analysis | 8270D | | 1 | 540575 | 04/30/20 21:20 | NRJ | TAL CHI |
| Total/NA | Prep | 3050B | | | 539349 | 04/22/20 17:04 | BDE | TAL CHI |
| Total/NA | Analysis | 6010C | | 1 | 539510 | 04/23/20 10:10 | JEF | TAL CHI |
| Total/NA | Prep | 7471B | | | 540301 | 04/29/20 13:25 | MJG | TAL CHI |
| Total/NA | Analysis | 7471B | | 1 | 540516 | 04/30/20 08:24 | MJG | TAL CHI |

Client Sample ID: 17th-18th Pile 6-8

Lab Sample ID: 500-180981-3

Date Collected: 04/21/20 10:22

Matrix: Solid

Date Received: 04/22/20 10:10

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | Moisture | | 1 | 539325 | 04/22/20 13:42 | LWN | TAL CHI |

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: Waldo Blvd Sampling - 193805824

Job ID: 500-180981-1

Client Sample ID: 17th-18th Pile 6-8

Lab Sample ID: 500-180981-3

Date Collected: 04/21/20 10:22

Matrix: Solid

Date Received: 04/22/20 10:10

Percent Solids: 87.3

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3541 | | | 540441 | 04/30/20 07:30 | BSO | TAL CHI |
| Total/NA | Analysis | 8270D | | 1 | 540575 | 04/30/20 21:48 | NRJ | TAL CHI |
| Total/NA | Prep | 3050B | | | 539349 | 04/22/20 17:04 | BDE | TAL CHI |
| Total/NA | Analysis | 6010C | | 1 | 539510 | 04/23/20 10:14 | JEF | TAL CHI |
| Total/NA | Prep | 7471B | | | 540301 | 04/29/20 13:25 | MJG | TAL CHI |
| Total/NA | Analysis | 7471B | | 1 | 540516 | 04/30/20 08:26 | MJG | TAL CHI |

Client Sample ID: 16th Excav 6-8

Lab Sample ID: 500-180981-4

Date Collected: 04/21/20 10:30

Matrix: Solid

Date Received: 04/22/20 10:10

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | Moisture | | 1 | 539325 | 04/22/20 13:42 | LWN | TAL CHI |

Client Sample ID: 16th Excav 6-8

Lab Sample ID: 500-180981-4

Date Collected: 04/21/20 10:30

Matrix: Solid

Date Received: 04/22/20 10:10

Percent Solids: 92.0

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 539941 | 04/21/20 10:30 | WRE | TAL CHI |
| Total/NA | Analysis | 8260B | | 50 | 540451 | 04/30/20 16:17 | JDD | TAL CHI |
| Total/NA | Prep | 3541 | | | 540441 | 04/30/20 07:30 | BSO | TAL CHI |
| Total/NA | Analysis | 8270D | | 1 | 540575 | 04/30/20 22:15 | NRJ | TAL CHI |
| Total/NA | Prep | 3050B | | | 539349 | 04/22/20 17:04 | BDE | TAL CHI |
| Total/NA | Analysis | 6010C | | 1 | 539510 | 04/23/20 10:25 | JEF | TAL CHI |
| Total/NA | Prep | 7471B | | | 540301 | 04/29/20 13:25 | MJG | TAL CHI |
| Total/NA | Analysis | 7471B | | 1 | 540516 | 04/30/20 08:28 | MJG | TAL CHI |

Client Sample ID: 14th Excav 2-7

Lab Sample ID: 500-180981-5

Date Collected: 04/21/20 10:35

Matrix: Solid

Date Received: 04/22/20 10:10

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | Moisture | | 1 | 539325 | 04/22/20 13:42 | LWN | TAL CHI |

Client Sample ID: 14th Excav 2-7

Lab Sample ID: 500-180981-5

Date Collected: 04/21/20 10:35

Matrix: Solid

Date Received: 04/22/20 10:10

Percent Solids: 80.5

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 539941 | 04/21/20 10:35 | WRE | TAL CHI |
| Total/NA | Analysis | 8260B | | 50 | 540451 | 04/30/20 16:42 | JDD | TAL CHI |
| Total/NA | Prep | 3541 | | | 540441 | 04/30/20 07:30 | BSO | TAL CHI |
| Total/NA | Analysis | 8270D | | 1 | 540575 | 04/30/20 22:43 | NRJ | TAL CHI |
| Total/NA | Prep | 3050B | | | 539349 | 04/22/20 17:04 | BDE | TAL CHI |
| Total/NA | Analysis | 6010C | | 1 | 539510 | 04/23/20 10:29 | JEF | TAL CHI |

Eurofins TestAmerica, Chicago

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: Waldo Blvd Sampling - 193805824

Job ID: 500-180981-1

Client Sample ID: 14th Excav 2-7

Lab Sample ID: 500-180981-5

Date Collected: 04/21/20 10:35

Matrix: Solid

Date Received: 04/22/20 10:10

Percent Solids: 80.5

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 7471B | | | 540301 | 04/29/20 13:25 | MJG | TAL CHI |
| Total/NA | Analysis | 7471B | | 1 | 540516 | 04/30/20 08:30 | MJG | TAL CHI |

Client Sample ID: Fleetwood Excav 18-20

Lab Sample ID: 500-180981-6

Date Collected: 04/21/20 10:40

Matrix: Solid

Date Received: 04/22/20 10:10

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | Moisture | | 1 | 539325 | 04/22/20 13:42 | LWN | TAL CHI |

Client Sample ID: Fleetwood Excav 18-20

Lab Sample ID: 500-180981-6

Date Collected: 04/21/20 10:40

Matrix: Solid

Date Received: 04/22/20 10:10

Percent Solids: 84.4

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 539941 | 04/21/20 10:40 | WRE | TAL CHI |
| Total/NA | Analysis | 8260B | | 50 | 540451 | 04/30/20 17:05 | JDD | TAL CHI |
| Total/NA | Prep | 3541 | | | 540441 | 04/30/20 07:30 | BSO | TAL CHI |
| Total/NA | Analysis | 8270D | | 1 | 540575 | 04/30/20 23:11 | NRJ | TAL CHI |
| Total/NA | Prep | 3050B | | | 539349 | 04/22/20 17:04 | BDE | TAL CHI |
| Total/NA | Analysis | 6010C | | 1 | 539510 | 04/23/20 10:33 | JEF | TAL CHI |
| Total/NA | Prep | 7471B | | | 540301 | 04/29/20 13:25 | MJG | TAL CHI |
| Total/NA | Analysis | 7471B | | 1 | 540516 | 04/30/20 08:32 | MJG | TAL CHI |

Client Sample ID: Fleetwood Pile 0-20

Lab Sample ID: 500-180981-7

Date Collected: 04/21/20 10:45

Matrix: Solid

Date Received: 04/22/20 10:10

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | Moisture | | 1 | 539325 | 04/22/20 13:42 | LWN | TAL CHI |

Client Sample ID: Fleetwood Pile 0-20

Lab Sample ID: 500-180981-7

Date Collected: 04/21/20 10:45

Matrix: Solid

Date Received: 04/22/20 10:10

Percent Solids: 86.5

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3541 | | | 540441 | 04/30/20 07:30 | BSO | TAL CHI |
| Total/NA | Analysis | 8270D | | 1 | 540575 | 04/30/20 23:39 | NRJ | TAL CHI |
| Total/NA | Prep | 3050B | | | 539349 | 04/22/20 17:04 | BDE | TAL CHI |
| Total/NA | Analysis | 6010C | | 1 | 539510 | 04/23/20 10:38 | JEF | TAL CHI |
| Total/NA | Prep | 7471B | | | 540301 | 04/29/20 13:25 | MJG | TAL CHI |
| Total/NA | Analysis | 7471B | | 1 | 540516 | 04/30/20 08:34 | MJG | TAL CHI |

Laboratory References:

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

Eurofins TestAmerica, Chicago

Accreditation/Certification Summary

Client: Stantec Consulting Corp.
Project/Site: Waldo Blvd Sampling - 193805824

Job ID: 500-180981-1

Laboratory: Eurofins TestAmerica, Chicago

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Wisconsin | State | 999580010 | 08-31-20 |

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TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 61
Phone: 708.534.5200 Fax: 708.534.5200



500-180981 COC

Report To (optional)
Contact: HARRIS BUEBS
Company: STANTEC
Address: 12075 CORPORATE PKWY
#200 MEQUON WI 53092
Phone: (414) 581-6476
Fax: -
E-Mail: HARRIS.BUEBS@STANTEC.COM

Bill To (optional)
Contact: (SAME)
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference# 193805824

Chain of Custody Record

Lab Job #: 500-180981

Chain of Custody Number: _____

Page 1 of 1

Temperature °C of Cooler: 4.3

| Client | | Client Project # | | Preservative | | Parameter | | Matrix | | Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other |
|------------------------|--------|-----------------------|---------|--------------|-----------------|-----------|-----|--------|-------------|---|
| Project Name | | Lab Project # | | Matrix | | Matrix | | Matrix | | |
| Project Location/State | | Lab Project # | | Matrix | | Matrix | | Matrix | | |
| Sampler | | Lab PM | | Matrix | | Matrix | | Matrix | | |
| Lab ID | MS/MSD | Sample ID | Date | Time | # of Containers | Matrix | VOC | PAH | PCBA METALS | Comments |
| 1 | | 18TH EXCAV 2-18 | 4/21/20 | 1015 | 5 | S | X | X | X | |
| 2 | | 18TH PILE | | 1018 | | | | X | X | |
| 3 | | 17TH-18TH PILE 6-8 | | 1022 | | | | X | X | |
| 4 | | 16TH EXCAV 6-8 | | 1030 | | | X | X | X | |
| 5 | | 14TH EXCAV 2-7 | | 1035 | | | X | X | X | |
| 6 | | FLEETWOOD EXCAV 18-20 | | 1040 | | | X | X | X | |
| 7 | | FLEETWOOD PILE 0-20 | | 1045 | | | | X | X | |

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 10 Days ___ 15 Days ___ Other

Sample Disposal

Return to Client Disposal by Lab Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

| | | | | | | | |
|-----------------------------------|---------------------------|--------------------------|---------------------|--------------------------------|---------------------------|------------------------|---------------------|
| Relinquished By <u>W. Gull</u> | Company <u>STANTEC</u> | Date <u>4/21/2020</u> | Time <u>1500</u> | Received By <u>(FED EX)</u> | Company <u>STANTEC</u> | Date <u>4/22/20</u> | Time <u>1010</u> |
| Relinquished By | Company | Date | Time | Received By | Company | Date | Time |
| Relinquished By | Company | Date | Time | Received By | Company | Date | Time |

Lab Courier: _____
Shipped: Fed Ex
Hand Delivered: _____

Matrix Key

WW - Wastewater SE - Sediment
W - Water SO - Soil
S - Soil L - Leachate
SL - Sludge WI - Wipe
MS - Miscellaneous DW - Drinking Water
CL - Oil O - Other
A - Air

Client Comments

Lab Comments:

ORIGIN ID:RRLA (262) 202-5955
HARRIS BYERS
STANTEC CONSULTING
12075 CORPORATE PARKWAY

SHIP DATE: 11MAR19
ACTWGT: 15.00 LB MAN
CAD: 525155/CAFE3211

MEQUON, WI 53092
UNITED STATES US

TO

TESTAMERICA CHICAGO
2417 BOND STREET

UNIVERSITY PARK IL 60484 - 3101

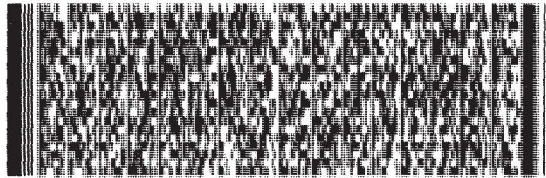
(700) 634-6200
JNU:
PO:

REF:

DEPT:

500-180981 Way!

RMA: 011 0011 001



FedEx
Express



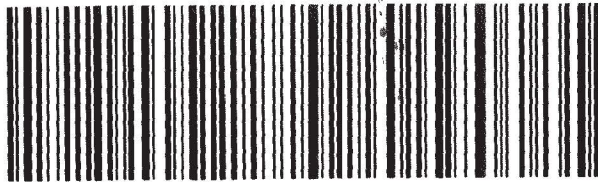
FedEx

TRK# 7125 4939 6274
0221

WED - 22 APR 10:30A
PRIORITY OVERNIGHT

79 JOTA

60484
IL-US ORD



489t

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 500-180981-1

Login Number: 180981

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

| 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 | 4.3 |
| 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 | |