Braun Intertec Corporation
11001 Hampshire Avenue S
Minneapolis, MN 55438

Phone: 952.995.2000
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Web: braunintertec.com

July 15, 2021 Project B1903316.00

Mr. Josh Leable
Project Manager
Incident Response Unit
Minnesota Department of Agriculture
Saint Paul Port Authority
380 St. Peter Street
St. Paul, MN 55102

Re: MDA Submittal – Remedial Site Investigation
Former Hillcrest Golf Course Site
St. Paul, Minnesota
MPCA Brownfields Site ID: BR1281
MDA Project No.: JAL101091523

Dear Mr. Leable:

On behalf of the Saint Paul Port Authority, Braun Intertec Corporation conducted an Environmental Investigation of the above-referenced site (Site) in a manner consistent with the Remedial Work Plan/Sampling and Analysis Plan (2020 RI Work Plan) prepared for the environmental investigation at the Former Hillcrest Golf Course Site in Saint Paul, Ramsey County, Minnesota. Per our previous discussions, some additional sampling and testing was completed that was not specifically outlined in the 2020 RI Work Plan but that was necessary to support the ongoing Master planning process.

The 2020 RI Work Plan was approved by the Minnesota Department of Agriculture (MDA) Incident Response Staff on May 5, 2020. The Site is being investigated for future redevelopment under the oversight of the MDA Voluntary Investigation and Cleanup program (AgVIC), the Site is assigned MDA AgVIC #: JAL101091523.

This letter presents the analytical results for the samples collected during the 2020 RI for MDA review and comment. Per our previous discussion, we do plan on completing additional sampling and testing for mercury in the fairways, but we are waiting for further information on the final approved development configuration and related grades before proposing the additional investigation approach and locations.

If you have questions regarding this letter or the attached report, please contact Mark Keefer at 952.995.2484 or Ken Larsen 952.995.2455.

Sincerely,

BRAUN INTERTEC CORPORATION



Mark D. Keefer PG
Group Manager, Senior Scientist



Kenneth A. Larsen PE, PG
Vice President

Attachments:

1. 2020 RI Figures
2. 2020 RI Analytical Summary Tables
3. 2020 RI Draft Boring/Test Pit Logs
4. 2020 RI Boring/Well Coordinates
5. 2020 RI Laboratory Analytical Reports
6. 2020 RI MDA Laboratory Analytical Report Review Forms

Attachment 1

2020 RI Figures

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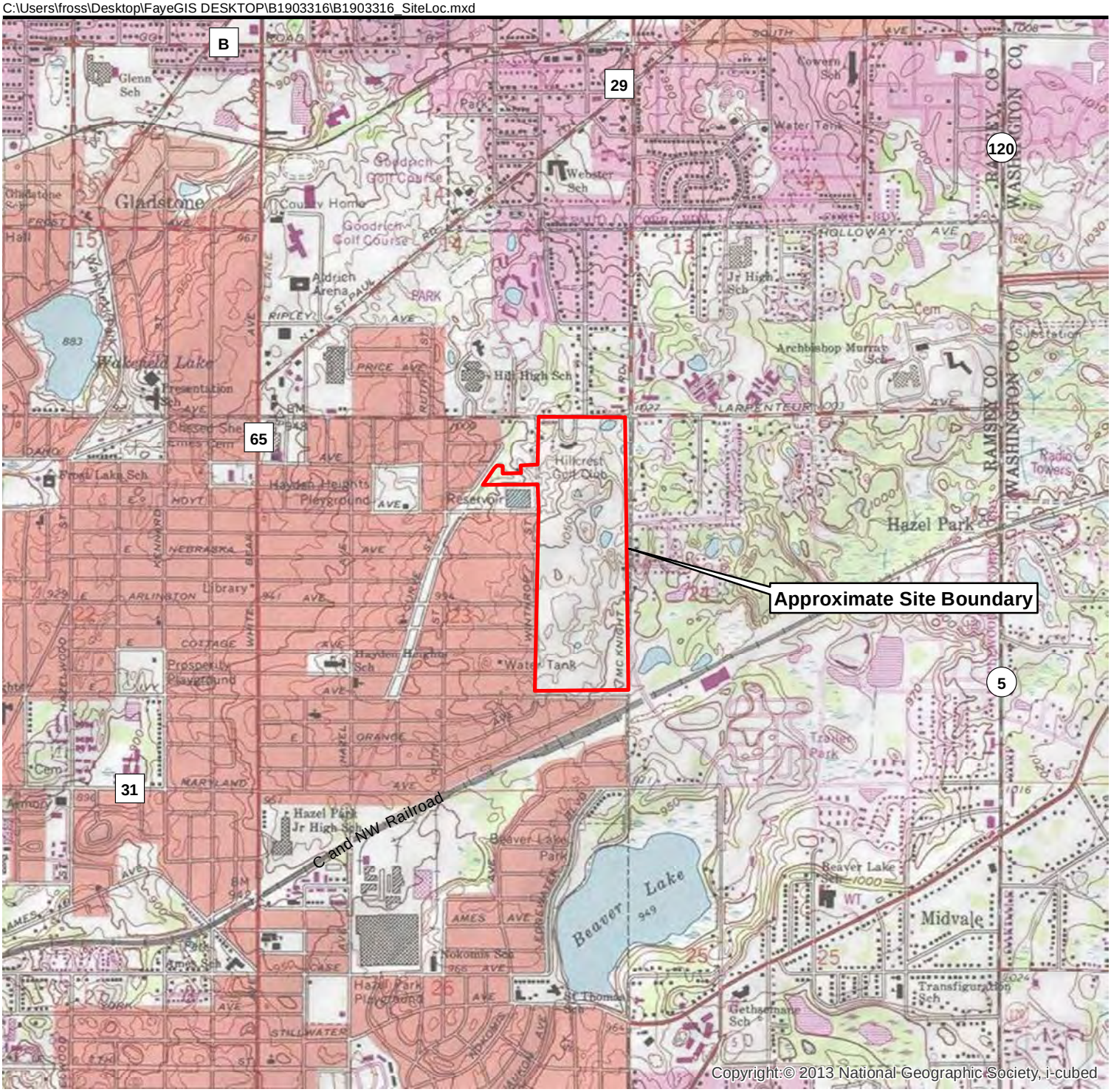
C:\Users\fross\Desktop\FayeGIS DESKTOP\B1903316\B1903316_SiteLoc.mxd



Approximate Site Boundary

Data Source:
USGS Quadrangle

N

0 1,000 2,000
Feet

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Project No:	B1903316
Drawing No:	B1903316_SiteLoc
Drawn By:	FER
Date Drawn:	4/12/2019
Checked By:	MPE
Last Modified:	4/12/2019

Former Hillcrest Golf Course

McKnight Road N and Larpenteur Avenue E

St. Paul, Minneosta

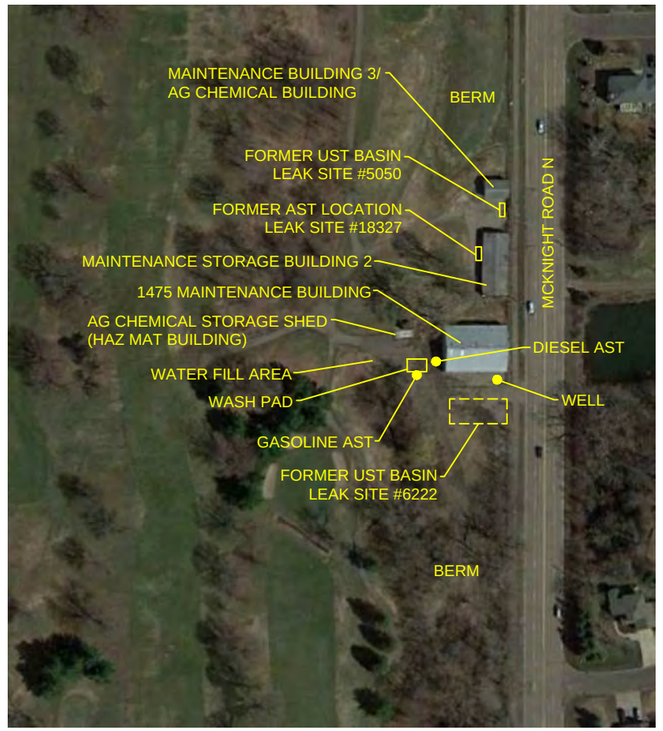
Site Location Map

Figure 1





INSET 1: CLUBHOUSE AREA
SCALE: 1" = 120'



INSET 2: MAINTENANCE FACILITY
SCALE: 1" = 200'

250' 0 500'
SCALE: 1"= 500'

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Drawing Information

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Drawn By:	LAO
Date Drawn:	5/15/19
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Last Modified:	1/18/21

Project Information

Former Hillcrest Golf Course

McKnight Road N and Larpenteur Avenue E

St. Paul, Minnesota

Site Diagram

Figure 2

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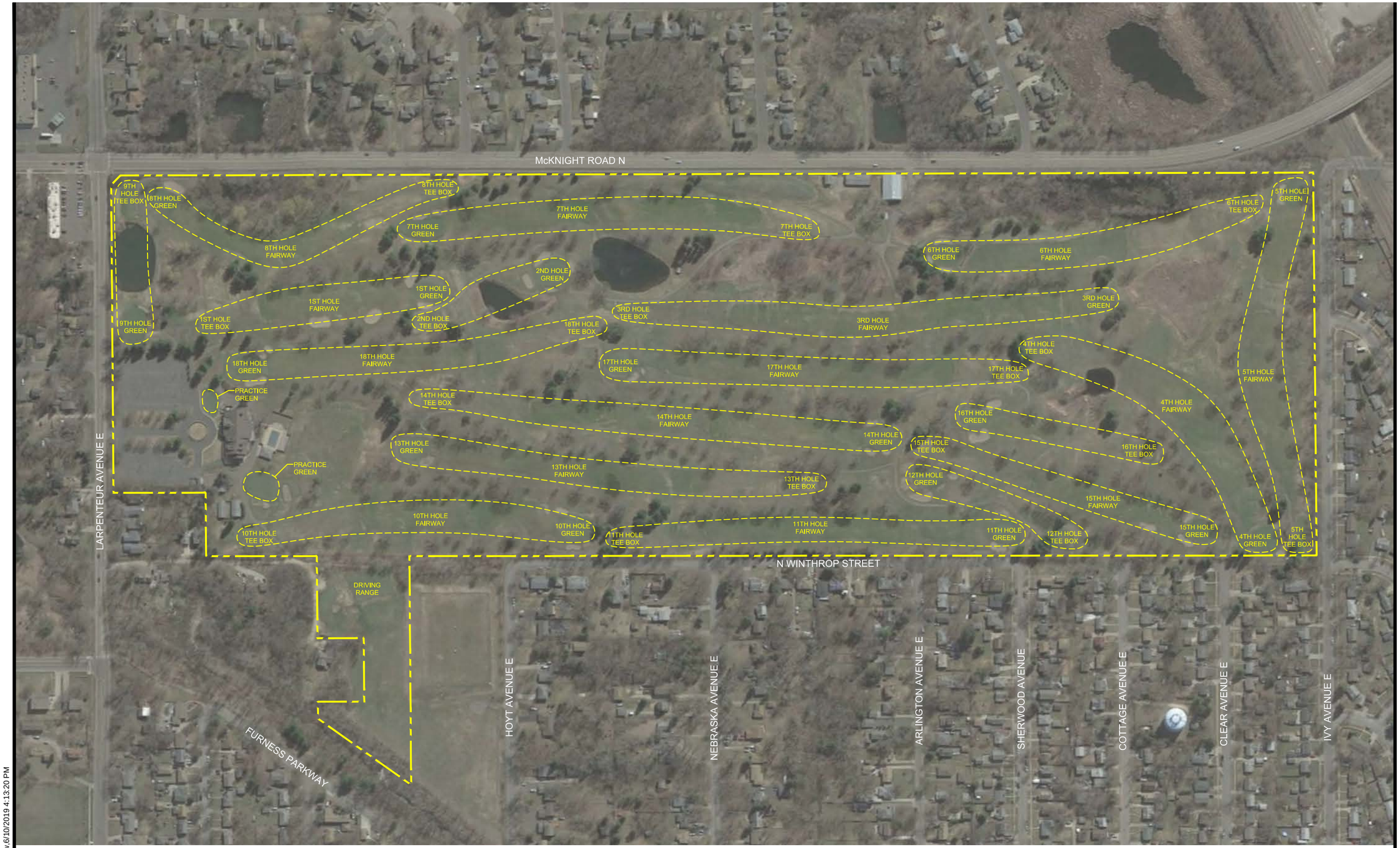

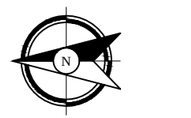

150' 0 300'

SCALE: 1" = 300'

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Drawing Information

Project No:	B1903316
Drawing No:	B1903316A
Drawn By:	BJB
Date Drawn:	5/23/19
Checked By:	MK
Last Modified:	6/10/19

Project Information

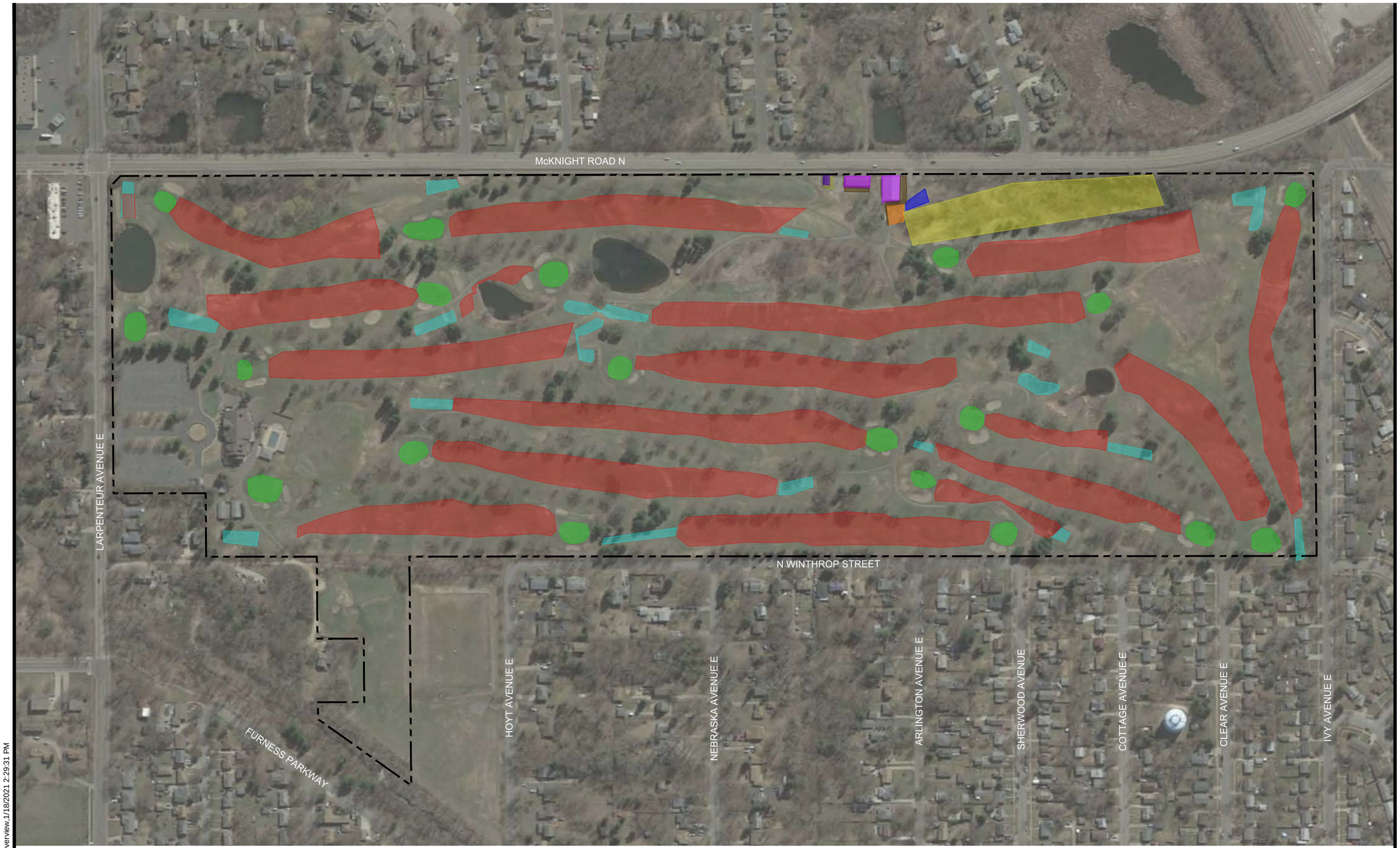
Former Hillcrest Golf Course

2200 Larpenteur Avenue E

Saint Paul, Minnesota

Golf Course Layout

Figure 3



- AGRICULTURAL CHEMICAL STORAGE BUILDINGS LOADING AREAS
- FLOORS IN THE AGRICULTURAL CHEMICAL STORAGE BUILDINGS (2 BUILDINGS)
- PESTICIDE / FERTILIZER STORAGE BUILDING LOADING AREA
- PESTICIDE / FERTILIZER STORAGE BUILDING
- AGRICULTURAL CHEMICAL MIXING / WASHOUT AREA
- DRAINAGE AREA ADJACENT TO MIXING / WASH AREA
- BERMS ON EASTERN PORTION OF PROPERTY
- GOLF GREENS / PRACTICE GREENS CONSTRUCTED BEFORE 1994*
- TEE BOXES
- FAIRWAYS

N

150' 0 300'

SCALE: 1" = 300'

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Last Modified:	1/18/21

Project Information

Remedial Investigation

Former Hillcrest Golf Course

2200 Larpenteur Avenue E

Saint Paul, Minnesota

High Risk Areas - Overview

Figure 4



- AGRICULTURAL CHEMICAL STORAGE BUILDINGS LOADING AREAS
- FLOORS IN THE AGRICULTURAL CHEMICAL STORAGE BUILDINGS (2 BUILDINGS)
- PESTICIDE / FERTILIZER STORAGE BUILDING LOADING AREA
- PESTICIDE / FERTILIZER STORAGE BUILDING
- AGRICULTURAL CHEMICAL MIXING / WASHOUT AREA
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- BERMS ON EASTERN PORTION OF PROPERTY
- GOLF GREENS / PRACTICE GREENS CONSTRUCTED BEFORE 1994*
- TEE BOXES
- FAIRWAYS

N

75' 0 150'

SCALE: 1" = 150'

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Project Information

Remedial Investigation

Former Hillcrest Golf Course

2200 Larpenteur Avenue E

Saint Paul, Minnesota

High Risk Areas - North

Figure 4A



- AGRICULTURAL CHEMICAL STORAGE BUILDINGS LOADING AREAS
- FLOORS IN THE AGRICULTURAL CHEMICAL STORAGE BUILDINGS (2 BUILDINGS)
- PESTICIDE / FERTILIZER STORAGE BUILDING LOADING AREA
- PESTICIDE / FERTILIZER STORAGE BUILDING
- AGRICULTURAL CHEMICAL MIXING / WASHOUT AREA
- DRAINAGE AREA ADJACENT TO MIXING / WASH AREA
- BERMS ON EASTERN PORTION OF PROPERTY
- GOLF GREENS / PRACTICE GREENS CONSTRUCTED BEFORE 1994*
- TEE BOXES
- FAIRWAYS

N

75' 0 150'

SCALE: 1" = 150'

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Date Drawn:	2/6/20
Checked By:	MK
Last Modified:	1/18/21

Project Information

Remedial Investigation

Former Hillcrest Golf Course

2200 Larpenteur Avenue E

Saint Paul, Minnesota

High Risk Areas - North Central

Figure 4B



AGRICULTURAL CHEMICAL STORAGE BUILDINGS LOADING AREAS

FLOORS IN THE AGRICULTURAL CHEMICAL STORAGE BUILDINGS (2 BUILDINGS)

PESTICIDE / FERTILIZER STORAGE BUILDING LOADING AREA

PESTICIDE / FERTILIZER STORAGE BUILDING

AGRICULTURAL CHEMICAL MIXING / WASHOUT AREA

DRAINAGE AREA ADJACENT TO MIXING / WASH AREA

BERMS ON EASTERN PORTION OF PROPERTY

GOLF GREENS / PRACTICE GREENS CONSTRUCTED BEFORE 1994*

TEE BOXES

FAIRWAYS

N

75' 0 150'

SCALE: 1" = 150'

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Drawing No: B1903316-00

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Date Drawn:	2/6/20
Checked By:	MK
Last Modified:	1/18/21

Project Information

Remedial Investigation

Former Hillcrest Golf Course

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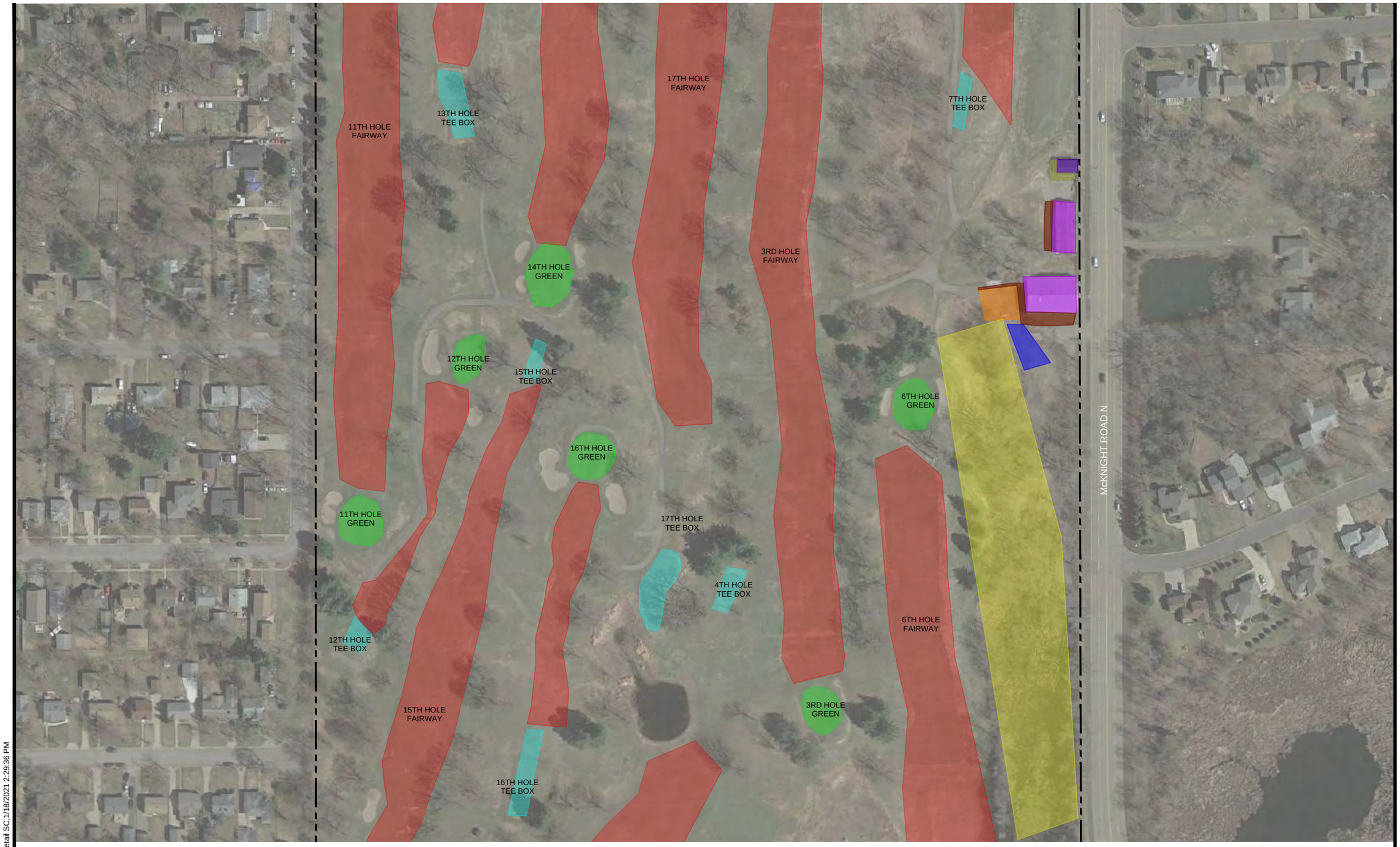
Saint Paul, Minnesota

High Risk Areas - Central

Figure 4C



AGRICULTURAL CHEMICAL STORAGE BUILDINGS LOADING AREAS

FLOORS IN THE AGRICULTURAL CHEMICAL STORAGE BUILDINGS (2 BUILDINGS)

PESTICIDE / FERTILIZER STORAGE BUILDING LOADING AREA

PESTICIDE / FERTILIZER STORAGE BUILDING

AGRICULTURAL CHEMICAL MIXING / WASHOUT AREA

DRAINAGE AREA ADJACENT TO MIXING / WASH AREA

BERMS ON EASTERN PORTION OF PROPERTY

GOLF GREENS / PRACTICE GREENS CONSTRUCTED BEFORE 1994*

TEE BOXES

FAIRWAYS

N

75' 0 150'

SCALE: 1" = 150'

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Project Information

Remedial Investigation

Former Hillcrest Golf Course

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Saint Paul, Minnesota

High Risk Areas - South Central

Figure 4D

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AGRICULTURAL CHEMICAL STORAGE BUILDINGS LOADING AREAS

FLOORS IN THE AGRICULTURAL CHEMICAL STORAGE BUILDINGS (2 BUILDINGS)

PESTICIDE / FERTILIZER STORAGE BUILDING LOADING AREA

PESTICIDE / FERTILIZER STORAGE BUILDING

AGRICULTURAL CHEMICAL MIXING / WASHOUT AREA

DRAINAGE AREA ADJACENT TO MIXING / WASH AREA

BERMS ON EASTERN PORTION OF PROPERTY

GOLF GREENS / PRACTICE GREENS CONSTRUCTED BEFORE 1994*

TEE BOXES

FAIRWAYS

N

75' 0 150'

SCALE: 1" = 150'

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Project Information

Remedial Investigation

Former Hillcrest Golf Course

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Saint Paul, Minnesota

High Risk Areas - South

Figure 4E

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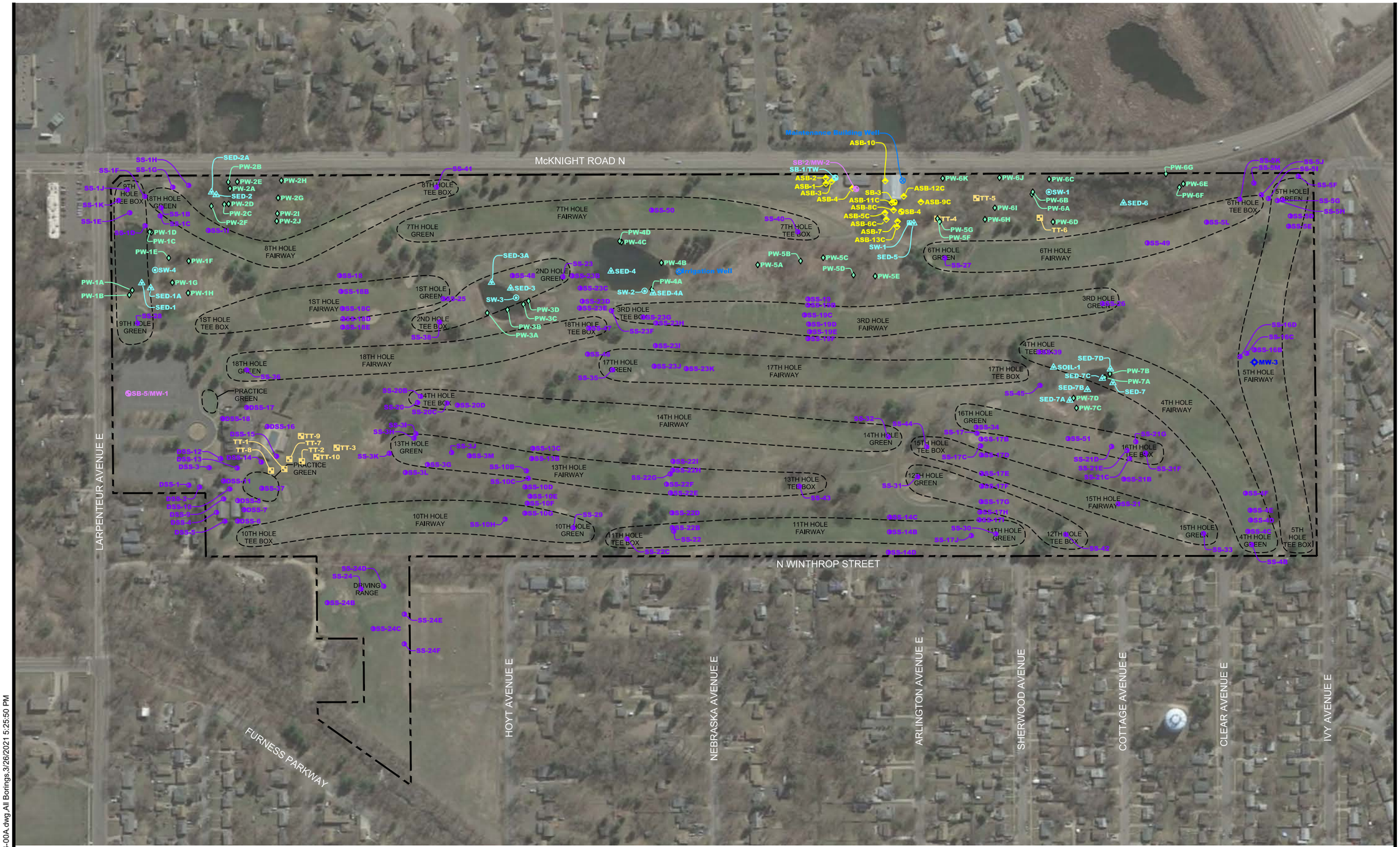

SOIL BORING LOCATION
SOIL BORING / TEMPORARY WELL LOCATION
SOIL BORING / PERMANENT WELL LOCATION
MONITORING WELL LOCATION

AGRICULTURAL CHEMICAL SOIL BORING LOCATION
TEST TRENCH LOCATION
SHALLOW HAND AUGER BORING LOCATION
WELL LOCATION

SURFACE WATER SAMPLE
SEDIMENT SAMPLE LOCATION
POTENTIAL WETLAND SAMPLE LOCATION
SURFACE WATER SAMPLE LOCATION

150' 0 300'

SCALE: 1" = 300'

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Drawing No:	B1903316-00A
Drawn By:	BJB
Date Drawn:	5/23/19
Checked By:	MK
Last Modified:	3/26/21

Project Information

Former Hillcrest Golf Course

2200 Larpenteur Avenue E

Saint Paul, Minnesota

Investigation Locations

Figure 5

DSS-1		
7/2/2020		
Depth	0-6"	1-1.5'
Mercury	0.37	0.38

DSS-2		
7/2/2020		
Depth	0-6"	1-1.5'
Mercury	0.38	0.31
BaP Equivalent	3.0	1.3

DSS-3	
7/2/2020	
Depth	0-6"
Mercury	0.11

SS-1F		
6/7/2020		
Depth	0-0.5'	1-1.5'
Arsenic	7.4	2.9
Mercury	6.6	0.057

SS-1K		
6/7/2020		
Depth	0-0.5'	1-1.5'
Mercury	1.1	0.1

SS-28		
6/7/2020		
Depth	0-0.5'	1-1.5'
Mercury	110 [M6]	0.22

SS-1E		
6/7/2020		
Depth	0-0.5'	1-1.5'
Mercury	3.9	0.11

SS-1J		
6/7/2020		
Depth	0-0.5'	1-1.5'
Mercury	5.1	0.087

DSS-11		
7/2/2020		
Depth	0-6"	1-1.5'
Mercury	0.29	0.089

SS-1D		
6/7/2020		
Depth	0-0.5'	1-1.5'
Mercury	0.039	0.028

DSS-9		
7/2/2020		
Depth	0-6"	1-1.5'
Mercury	0.52	0.099

DSS-12		
7/2/2020		
Depth	0-6"	
Mercury	0.042	

SS-1C		
6/7/2020		
Depth	0-0.5'	1-1.5'
Arsenic	3.2	3.7
Mercury	0.08	0.057

DSS-4		
7/2/2020		
Depth	0-6"	1-1.5'
Mercury	0.08	0.062

DSS-18		
7/2/2020		
Depth	0-6"	1-1.5'
Mercury	0.62	0.89

DSS-5		
7/2/2020		
Depth	0-6"	1-1.5'
Mercury	0.21	0.06

DSS-17		
7/2/2020		
Depth	0-6"	1-1.5'
Mercury	0.79	0.062

SS-1B		
6/7/2020		
Depth	0-0.5'	1-1.5'
Arsenic	117	29.1
Mercury	38.2	11.6

DSS-10	
7/2/2020	
Depth	0-6"
Mercury	0.16

SS-1I		
6/7/2020		
Depth	0-0.5'	1-1.5'
Mercury	6.7 [M6]	0.2

SS-1H		
6/7/2020		
Depth	0-0.5'	1-1.5'
Mercury	0.13	<0.021

DSS-6		
7/2/2020		
Depth	0-6"	1-1.5'
Mercury	0.076	0.11

SS-1G		
6/7/2020		
Depth	0-0.5'	1-1.5'
Mercury	<0.022	0.028

SS-36		
6/15/2020		
Depth	0-0.5'	1-1.5'
Mercury	2.0	0.1

DSS-8			
7/2/2020			
Depth	0-6"	1-1.5'	DUP (1-1.5')
Mercury	0.31	0.3	0.38

SS-18B		
6/7/2020		
Depth	0-0.5'	1-1.5'
Mercury	3.1	2.7

DSS-16			
7/2/2020			
Depth	0-6"	1-1.5'	DUP (0-6")
Mercury	1.6	0.11	1.1

DSS-7		
7/2/2020		
Depth	0-6"	1-1.5'
Mercury	3.3	0.3

DSS-15		
7/2/2020		
Depth	0-6"	1-1.5'
Mercury	0.31	0.24

SS-18		
6/7/2020		
Depth	0-0.5'	1-1.5'
Mercury	0.48	0.054

SS-24B		
6/12/2020		
Depth	0-0.5'	1-1.5'
Mercury	<0.021	<0.021

SS-37		
6/11/2020		
Depth	0-0.5'	1-1.5'
Mercury	2.0	0.089

SS-18C			
6/7/2020			
Depth	0-0.5'	DUP (0-0.5)	1-1.5'
Mercury	4.1	0.85	0.11

DSS-13		
7/2/2020		
Depth	0-6"	1-1.5'
Mercury	2.0	1.7

SS-18D		
6/7/2020		
Depth	0-0.5'	1-1.5'
Mercury	0.8	0.042

DSS-14		
7/2/2020		
Depth	0-6"	1-1.5'
Mercury	4.1	0.91

SS-18E		
6/7/2020		
Depth	0-0.5'	1-1.5'
Mercury	0.13	<0.021

NOTES

Minnesota Pollution Control Agency (MPCA) Soil Reference Values (SRVs) updated in May 2021 and Soil Leaching Values (SLVs) updated in June 2013.
Analytical results in milligrams per kilogram (mg/kg)
Indicated depth is feet below ground surface.
BaP Equivalent = Benzo(a)pyrene (BaP) equivalent is calculated based on the concentration and weighted toxicity of carcinogenic PAHs.
< = Not detected at or above the laboratory reporting limit indicated.
mg/kg = Milligrams per kilogram
SLV = Soil Leaching Value
SRV =Soil Reference Value
Arsenic Residential SRV = 9 mg/kg
Arsenic Industrial SRV = 20 mg/kg
Arsenic Screening SLV = 5.8 mg/kg
BaP Equivalent Residential SRV = 2 mg/kg
BaP Equivalent Industrial SRV = 23 mg/kg
BaP Equivalent Screening SLV = 1.4 mg/kg
Mercury Residential / Industrial SRV = 3.1 mg/kg
[M1] Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
[M6] Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

Exceeds Residential / Industrial SRV

- SOIL BORING LOCATION
- SOIL BORING / TEMPORARY WELL LOCATION
- SOIL BORING / PERMANENT WELL LOCATION
- MONITORING WELL LOCATION
- AGRICULTURAL CHEMICAL SOIL BORING LOCATION
- TEST TRENCH LOCATION
- SHALLOW HAND AUGER BORING LOCATION
- WELL LOCATION
- SURFACE WATER SAMPLE

N

75' 0 150'

SCALE: 1" = 150'

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Drawing Information

Project No: B1903316.00

Drawing No: B1903316-00

Drawn By:	BJB
Date Drawn:	2/6/20
Checked By:	MK
Last Modified:	7/14/21

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Former Hillcrest Golf Course

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Saint Paul, Minnesota

Hand Auger Soil Exceedances - North

Figure 6A

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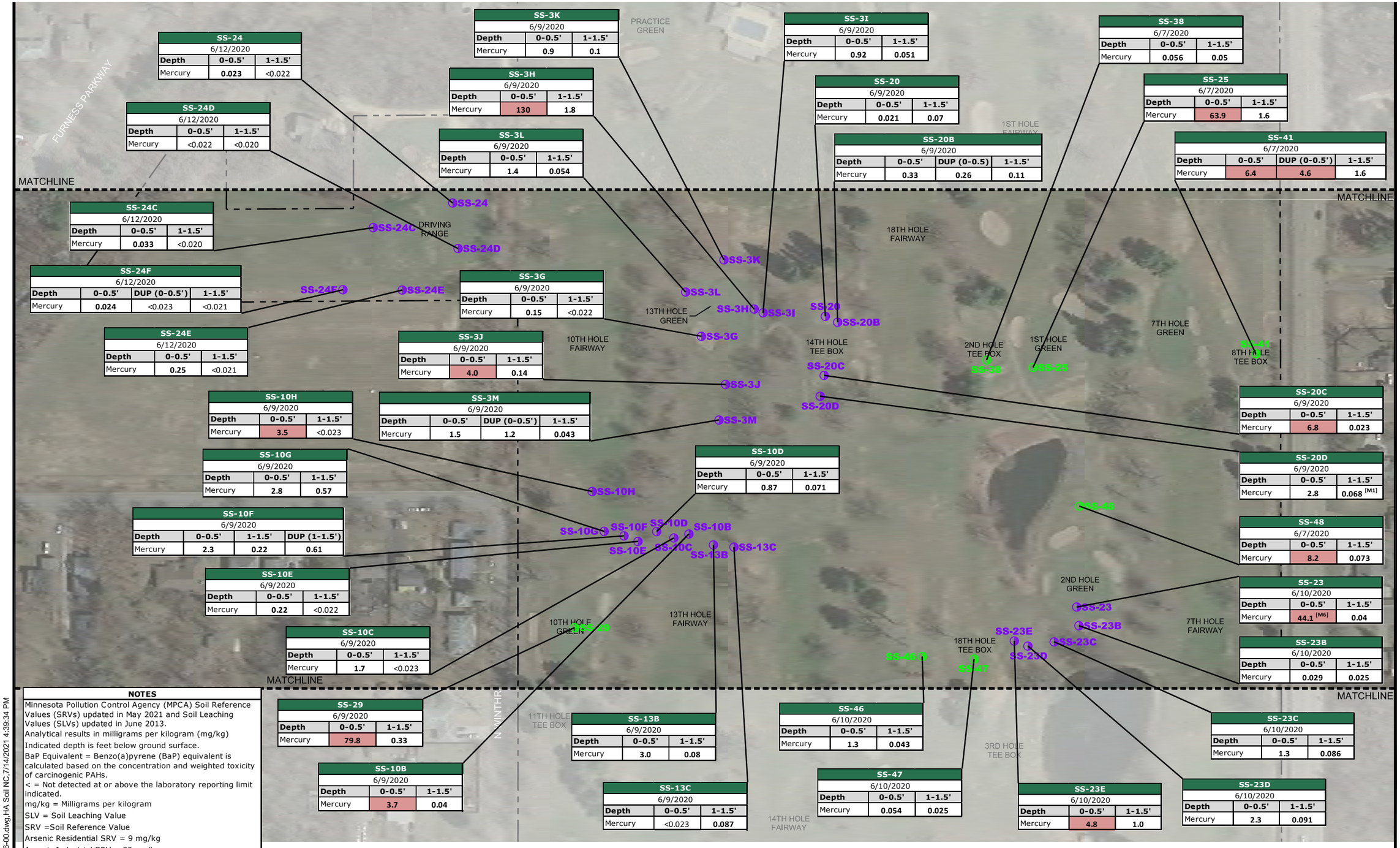

SS-24		
6/12/2020		
Depth	0-0.5'	1-1.5'
Mercury	0.023	<0.022

SS-24D		
6/12/2020		
Depth	0-0.5'	1-1.5'
Mercury	<0.022	<0.020

SS-24C		
6/12/2020		
Depth	0-0.5'	1-1.5'
Mercury	0.033	<0.020

SS-24F			
6/12/2020			
Depth	0-0.5'	DUP (0-0.5')	1-1.5'
Mercury	0.024	<0.023	<0.021

SS-24E		
6/12/2020		
Depth	0-0.5'	1-1.5'
Mercury	0.25	<0.021

SS-3K		
6/9/2020		
Depth	0-0.5'	1-1.5'
Mercury	0.9	0.1

SS-3H		
6/9/2020		
Depth	0-0.5'	1-1.5'
Mercury	130	1.8

SS-3L		
6/9/2020		
Depth	0-0.5'	1-1.5'
Mercury	1.4	0.054

SS-3G		
6/9/2020		
Depth	0-0.5'	1-1.5'
Mercury	0.15	<0.022

SS-3J		
6/9/2020		
Depth	0-0.5'	1-1.5'
Mercury	4.0	0.14

SS-3M			
6/9/2020			
Depth	0-0.5'	DUP (0-0.5')	1-1.5'
Mercury	1.5	1.2	0.043

SS-3I		
6/9/2020		
Depth	0-0.5'	1-1.5'
Mercury	0.92	0.051

SS-20		
6/9/2020		
Depth	0-0.5'	1-1.5'
Mercury	0.021	0.07

SS-20B			
6/9/2020			
Depth	0-0.5'	DUP (0-0.5)	1-1.5'
Mercury	0.33	0.26	0.11

SS-38		
6/7/2020		
Depth	0-0.5'	1-1.5'
Mercury	0.056	0.05

SS-25		
6/7/2020		
Depth	0-0.5'	1-1.5'
Mercury	63.9	1.6

SS-41			
6/7/2020			
Depth	0-0.5'	DUP (0-0.5')	1-1.5'
Mercury	6.4	4.6	1.6

SS-20C		
6/9/2020		
Depth	0-0.5'	1-1.5'
Mercury	6.8	0.023

SS-20D		
6/9/2020		
Depth	0-0.5'	1-1.5'
Mercury	2.8	0.068 [M1]

SS-48		
6/7/2020		
Depth	0-0.5'	1-1.5'
Mercury	8.2	0.073

SS-23		
6/10/2020		
Depth	0-0.5'	1-1.5'
Mercury	44.1 [M6]	0.04

SS-23B		
6/10/2020		
Depth	0-0.5'	1-1.5'
Mercury	0.029	0.025

SS-23C		
6/10/2020		
Depth	0-0.5'	1-1.5'
Mercury	1.3	0.086

SS-23D		
6/10/2020		
Depth	0-0.5'	1-1.5'
Mercury	2.3	0.091

SS-23E		
6/10/2020		
Depth	0-0.5'	1-1.5'
Mercury	4.8	1.0

SS-47		
6/10/2020		
Depth	0-0.5'	1-1.5'
Mercury	0.054	0.025

SS-46		
6/10/2020		
Depth	0-0.5'	1-1.5'
Mercury	1.3	0.043

SS-13C		
6/9/2020		
Depth	0-0.5'	1-1.5'
Mercury	<0.023	0.087

SS-13B		
6/9/2020		
Depth	0-0.5'	1-1.5'
Mercury	3.0	0.08

SS-10B		
6/9/2020		
Depth	0-0.5'	1-1.5'
Mercury	3.7	0.04

SS-10C		
6/9/2020		
Depth	0-0.5'	1-1.5'
Mercury	1.7	<0.023

SS-10E		
6/9/2020		
Depth	0-0.5'	1-1.5'
Mercury	0.22	<0.022

SS-10F			
6/9/2020			
Depth	0-0.5'	1-1.5'	DUP (1-1.5')
Mercury	2.3	0.22	0.61

SS-10G		
6/9/2020		
Depth	0-0.5'	1-1.5'
Mercury	2.8	0.57

SS-10H		
6/9/2020		
Depth	0-0.5'	1-1.5'
Mercury	3.5	<0.023

SS-10D		
6/9/2020		
Depth	0-0.5'	1-1.5'
Mercury	0.87	0.071

SS-29		
6/9/2020		
Depth	0-0.5'	1-1.5'
Mercury	79.8	0.33

NOTES

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Analytical results in milligrams per kilogram (mg/kg)
Indicated depth is feet below ground surface.
BaP Equivalent = Benzo(a)pyrene (BaP) equivalent is calculated based on the concentration and weighted toxicity of carcinogenic PAHs.
< = Not detected at or above the laboratory reporting limit indicated.
mg/kg = Milligrams per kilogram
SLV = Soil Leaching Value
SRV =Soil Reference Value
Arsenic Residential SRV = 9 mg/kg
Arsenic Industrial SRV = 20 mg/kg
Arsenic Screening SLV = 5.8 mg/kg
BaP Equivalent Residential SRV = 2 mg/kg
BaP Equivalent Industrial SRV = 23 mg/kg
BaP Equivalent Screening SLV = 1.4 mg/kg
Mercury Residential / Industrial SRV = 3.1 mg/kg
[M1] Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
[M6] Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

Exceeds Residential / Industrial SRV

- SOIL BORING LOCATION
- SOIL BORING / TEMPORARY WELL LOCATION
- SOIL BORING / PERMANENT WELL LOCATION
- MONITORING WELL LOCATION
- AGRICULTURAL CHEMICAL SOIL BORING LOCATION
- TEST TRENCH LOCATION
- SHALLOW HAND AUGER BORING LOCATION
- WELL LOCATION
- SURFACE WATER SAMPLE

N

75' 0 150'

SCALE: 1" = 150'

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Project No: B1903316.00

Drawing No: B1903316-00

Drawn By: BJB
Date Drawn: 2/6/20
Checked By: MK
Last Modified: 7/14/21

Project Information

Remedial Investigation

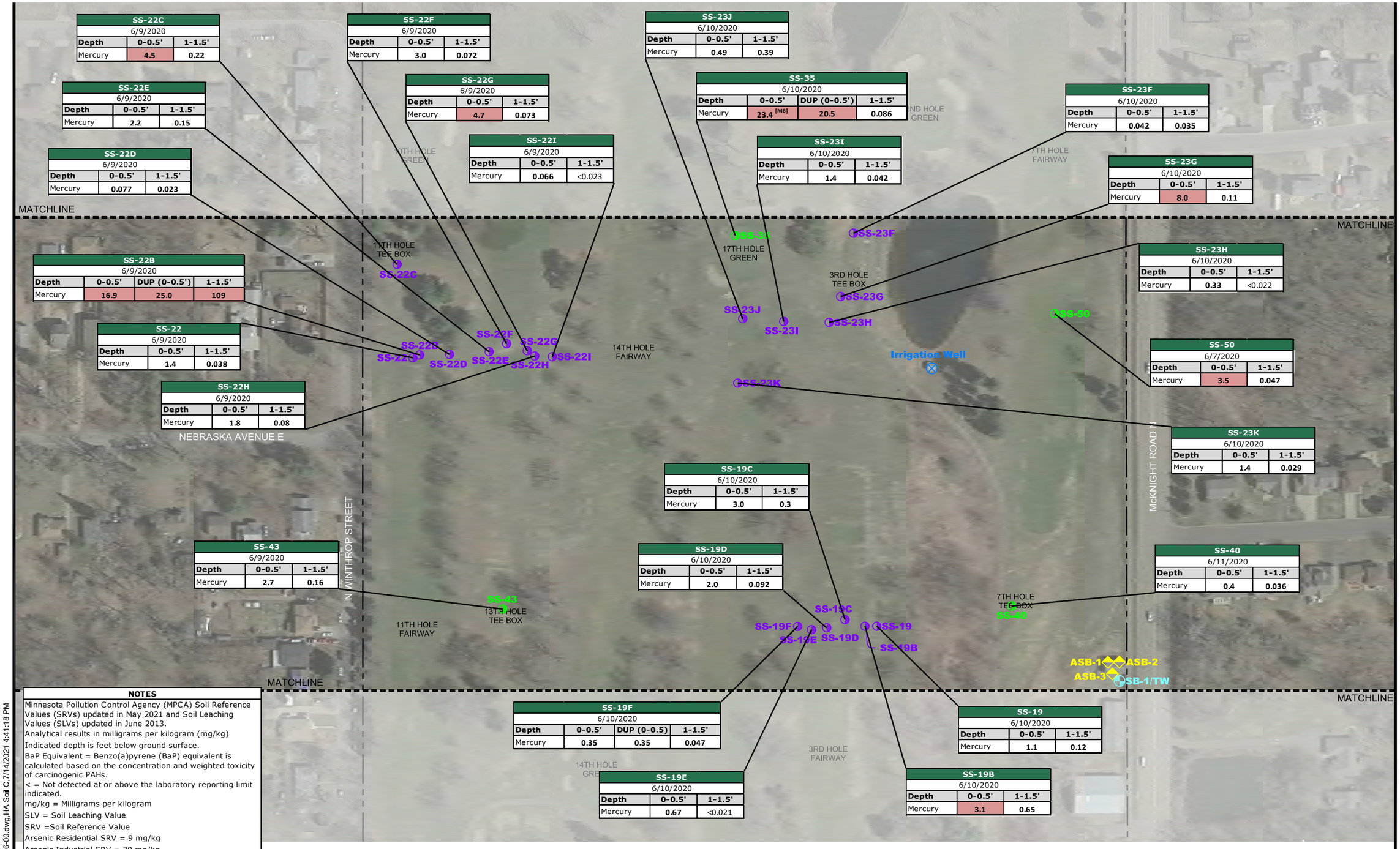
Former Hillcrest Golf Course

2200 Larpenteur Avenue E

Saint Paul, Minnesota

Hand Auger Soil Exceedances - North Central

Figure 6B



NOTES

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Analytical results in milligrams per kilogram (mg/kg)
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Exceeds Residential / Industrial SRV

- SOIL BORING LOCATION
- SOIL BORING / TEMPORARY WELL LOCATION
- SOIL BORING / PERMANENT WELL LOCATION
- MONITORING WELL LOCATION
- AGRICULTURAL CHEMICAL SOIL BORING LOCATION
- TEST TRENCH LOCATION
- SHALLOW HAND AUGER BORING LOCATION
- WELL LOCATION
- SURFACE WATER SAMPLE

N

75' 0 150'

SCALE: 1" = 150'

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Former Hillcrest Golf Course

2200 Larpenteur Avenue E

Saint Paul, Minnesota

Hand Auger Soil Exceedances - Central

Figure 6C

SS-14C		
6/9/2020		
Depth	0-0.5'	1-1.5'
Mercury	1.7	0.2

SS-14B		
6/9/2020		
Depth	0-0.5'	1-1.5'
Mercury	4.0	0.14

SS-14D		
6/9/2020		
Depth	0-0.5'	1-1.5'
Mercury	0.093	<0.024

SS-31		
6/10/2020		
Depth	0-0.5'	1-1.5'
Mercury	1.4	1.6

SS-44		
6/10/2020		
Depth	0-0.5'	1-1.5'
Mercury	11.7	0.13

SS-32		
6/9/2020		
Depth	0-0.5'	1-1.5'
Mercury	40.9	<0.022

SS-17		
6/10/2020		
Depth	0-0.5'	1-1.5'
Mercury	0.65	10.0

SS-34		
6/10/2020		
Depth	0-0.5'	1-1.5'
Mercury	3.1	0.15

SS-17B		
6/10/2020		
Depth	0-0.5'	1-1.5'
Mercury	0.05	0.023

SS-17C		
6/10/2020		
Depth	0-0.5'	1-1.5'
Mercury	0.088	0.041

SS-17E		
6/10/2020		
Depth	0-0.5'	1-1.5'
Mercury	2.4	0.022

SS-17J		
6/10/2020		
Depth	0-0.5'	1-1.5'
Mercury	3.8	0.16

SS-17I		
6/10/2020		
Depth	0-0.5'	1-1.5'
Mercury	3.3	0.56

SS-30		
6/10/2020		
Depth	0-0.5'	1-1.5'
Mercury	1.3	0.032

SS-42		
6/10/2020		
Depth	0-0.5'	1-1.5'
Mercury	0.11	7.2

SS-17D		
6/10/2020		
Depth	0-0.5'	1-1.5'
Mercury	0.39	0.028

SS-39		
6/10/2020		
Depth	0-0.5'	1-1.5'
Mercury	4.4	<0.023

SS-45		
6/10/2020		
Depth	0-0.5'	1-1.5'
Mercury	0.069	0.028

SS-27		
6/11/2020		
Depth	0-0.5'	1-1.5'
Mercury	3.0	0.18

SS-17G		
6/10/2020		
Depth	0-0.5'	1-1.5'
Mercury	16.5	0.21

SS-17F		
6/10/2020		
Depth	0-0.5'	1-1.5'
Mercury	0.16	<0.023

SS-17H			
6/10/2020			
Depth	0-0.5'	1-1.5'	DUP (1-1.5')
Mercury	1.0	0.12	0.12

SS-51		
6/10/2020		
Depth	0-0.5'	1-1.5'
Mercury	2.8	0.21

MATCHLINE

MATCHLINE

MATCHLINE

MATCHLINE

11TH HOLE FAIRWAY

13TH HOLE TEE BOX

17TH HOLE FAIRWAY

7TH HOLE TEE BOX

3RD HOLE FAIRWAY

14TH HOLE GREEN

12TH HOLE GREEN

15TH HOLE TEE BOX

16TH HOLE GREEN

11TH HOLE GREEN

17TH HOLE TEE BOX

4TH HOLE TEE BOX

6TH HOLE GREEN

6TH HOLE FAIRWAY

12TH HOLE TEE BOX

15TH HOLE FAIRWAY

McKNIGHT ROAD N

SS-14D SS-14B SS-14C SS-32 SS-31 SS-44 SS-17C SS-17J SS-17H SS-17I SS-17G SS-17E SS-17F SS-17D SS-17B SS-30 SS-42 SS-45 SS-51 SS-39 SS-27

ASB-4 SB-2/MW-2 ASB-5 ASB-6 ASB-7 ASB-13 ASB-8 ASB-11 ASB-10 SB-3 Maintenance Building Well SW-1 SB-4 ASB-12 ASB-9

TT-4 TT-5 TT-6

NOTES

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Arsenic Screening SLV = 5.8 mg/kg
BaP Equivalent Residential SRV = 2 mg/kg
BaP Equivalent Industrial SRV = 23 mg/kg
BaP Equivalent Screening SLV = 1.4 mg/kg
Mercury Residential / Industrial SRV = 3.1 mg/kg
[M1] Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
[M6] Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

Exceeds Residential / Industrial SRV

- SOIL BORING LOCATION
- SOIL BORING / TEMPORARY WELL LOCATION
- SOIL BORING / PERMANENT WELL LOCATION
- MONITORING WELL LOCATION
- AGRICULTURAL CHEMICAL SOIL BORING LOCATION
- TEST TRENCH LOCATION
- SHALLOW HAND AUGER BORING LOCATION
- WELL LOCATION
- SURFACE WATER SAMPLE

N

75' 0 150'

SCALE: 1" = 150'

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Last Modified: 7/14/21

Project Information

Remedial Investigation

Former Hillcrest Golf Course

2200 Larpenteur Avenue E

Saint Paul, Minnesota

Hand Auger Soil Exceedances - South Central

Figure 6D

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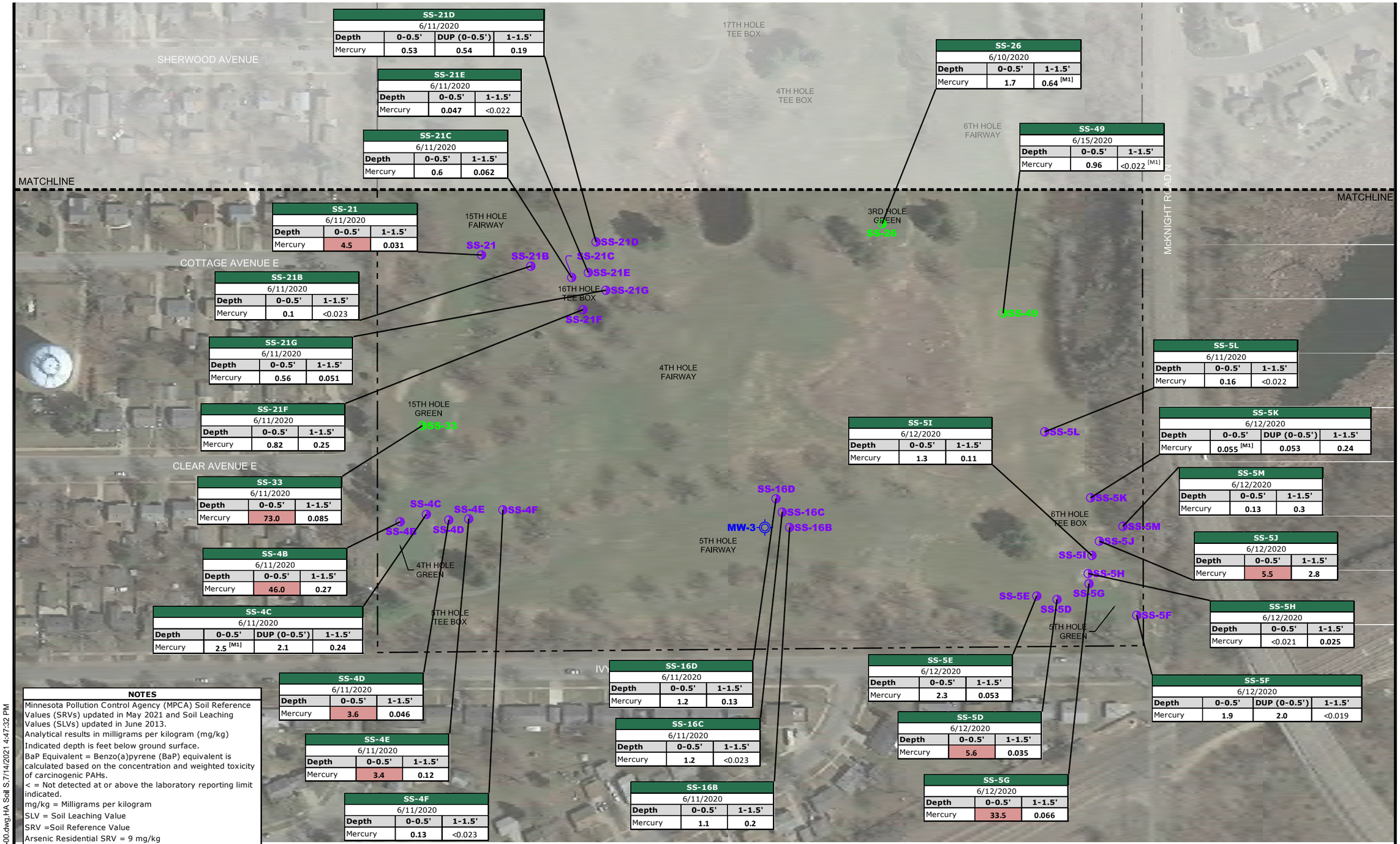

SS-21D			
6/11/2020			
Depth	**0-0.5'**	**DUP (0-0.5')**	**1-1.5'**
Mercury	**0.53**	**0.54**	**0.19**

SS-21E		
6/11/2020		
Depth	**0-0.5'**	**1-1.5'**
Mercury	**0.047**	<0.022

SS-21C		
6/11/2020		
Depth	**0-0.5'**	**1-1.5'**
Mercury	**0.6**	**0.062**

SS-26		
6/10/2020		
Depth	**0-0.5'**	**1-1.5'**
Mercury	**1.7**	**0.64** [M1]

SS-49		
6/15/2020		
Depth	**0-0.5'**	**1-1.5'**
Mercury	**0.96**	<0.022 [M1]

SS-21		
6/11/2020		
Depth	**0-0.5'**	**1-1.5'**
Mercury	**4.5**	**0.031**

SS-21B		
6/11/2020		
Depth	**0-0.5'**	**1-1.5'**
Mercury	**0.1**	<0.023

SS-21G		
6/11/2020		
Depth	**0-0.5'**	**1-1.5'**
Mercury	**0.56**	**0.051**

SS-21F		
6/11/2020		
Depth	**0-0.5'**	**1-1.5'**
Mercury	**0.82**	**0.25**

SS-33		
6/11/2020		
Depth	**0-0.5'**	**1-1.5'**
Mercury	**73.0**	**0.085**

SS-4B		
6/11/2020		
Depth	**0-0.5'**	**1-1.5'**
Mercury	**46.0**	**0.27**

SS-4C			
6/11/2020			
Depth	**0-0.5'**	**DUP (0-0.5')**	**1-1.5'**
Mercury	**2.5** [M1]	**2.1**	**0.24**

SS-4D		
6/11/2020		
Depth	**0-0.5'**	**1-1.5'**
Mercury	**3.6**	**0.046**

SS-4E		
6/11/2020		
Depth	**0-0.5'**	**1-1.5'**
Mercury	**3.4**	**0.12**

SS-4F		
6/11/2020		
Depth	**0-0.5'**	**1-1.5'**
Mercury	**0.13**	<0.023

SS-16D		
6/11/2020		
Depth	**0-0.5'**	**1-1.5'**
Mercury	**1.2**	**0.13**

SS-16C		
6/11/2020		
Depth	**0-0.5'**	**1-1.5'**
Mercury	**1.2**	<0.023

SS-16B		
6/11/2020		
Depth	**0-0.5'**	**1-1.5'**
Mercury	**1.1**	**0.2**

SS-5I		
6/12/2020		
Depth	**0-0.5'**	**1-1.5'**
Mercury	**1.3**	**0.11**

SS-5L		
6/11/2020		
Depth	**0-0.5'**	**1-1.5'**
Mercury	**0.16**	<0.022

SS-5K			
6/12/2020			
Depth	**0-0.5'**	**DUP (0-0.5')**	**1-1.5'**
Mercury	**0.055** [M1]	**0.053**	**0.24**

SS-5M		
6/12/2020		
Depth	**0-0.5'**	**1-1.5'**
Mercury	**0.13**	**0.3**

SS-5J		
6/12/2020		
Depth	**0-0.5'**	**1-1.5'**
Mercury	**5.5**	**2.8**

SS-5H		
6/12/2020		
Depth	**0-0.5'**	**1-1.5'**
Mercury	<0.021	**0.025**

SS-5E		
6/12/2020		
Depth	**0-0.5'**	**1-1.5'**
Mercury	**2.3**	**0.053**

SS-5D		
6/12/2020		
Depth	**0-0.5'**	**1-1.5'**
Mercury	**5.6**	**0.035**

SS-5G		
6/12/2020		
Depth	**0-0.5'**	**1-1.5'**
Mercury	**33.5**	**0.066**

SS-5F			
6/12/2020			
Depth	**0-0.5'**	**DUP (0-0.5')**	**1-1.5'**
Mercury	**1.9**	**2.0**	<0.019

NOTES

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Arsenic Screening SLV = 5.8 mg/kg
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BaP Equivalent Industrial SRV = 23 mg/kg
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Mercury Residential / Industrial SRV = 3.1 mg/kg
[M1] Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
[M6] Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

Exceeds Residential / Industrial SRV

- SOIL BORING LOCATION
- SOIL BORING / TEMPORARY WELL LOCATION
- SOIL BORING / PERMANENT WELL LOCATION
- MONITORING WELL LOCATION
- AGRICULTURAL CHEMICAL SOIL BORING LOCATION
- TEST TRENCH LOCATION
- SHALLOW HAND AUGER BORING LOCATION
- WELL LOCATION
- SURFACE WATER SAMPLE

75' 0 150'

SCALE: 1" = 150'

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Drawing Information

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Project Information

Remedial Investigation

Former Hillcrest Golf Course

2200 Larpenteur Avenue E

Saint Paul, Minnesota

Hand Auger Soil Exceedances - South

Figure 6E

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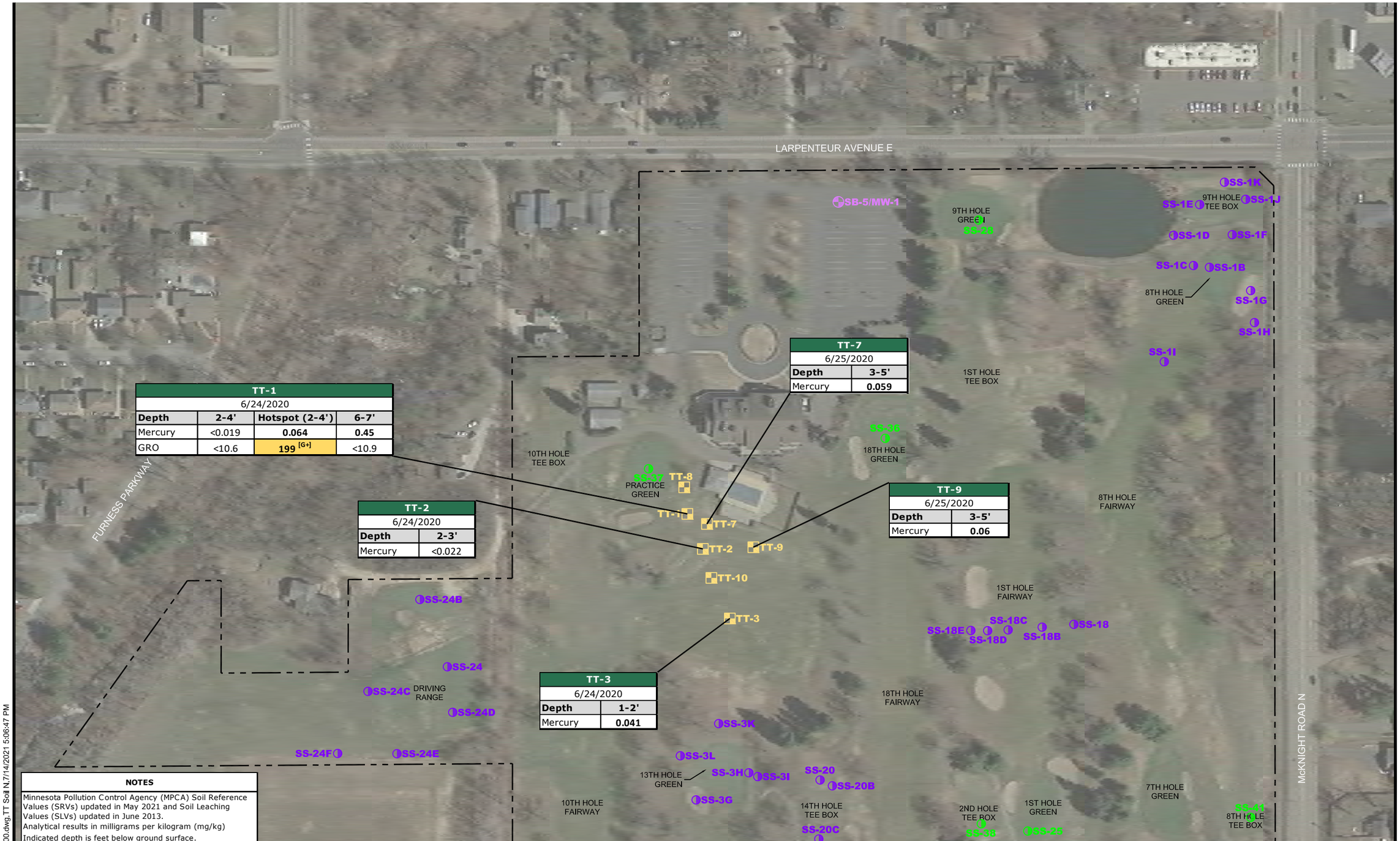

NOTES

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[f] = DRO/GRO concentrations greater than 100 mg/kg are not suitable for reuse as unregulated fill per February 2012 MPCA guidance c-rem1-01.
GRO = Gasoline Range Organics
mg/kg = Milligrams per kilogram
SLV = Soil Leaching Value
SRV =Soil Reference Value
Mercury Residential / Industrial SRV = 3.1 mg/kg
[G+] Late peaks present outside the GRO window.

Exceeds Residential / Industrial SRV
Exceeds 100 mg/kg for DRO/GRO[f] or 10 ppm for PID

- SOIL BORING LOCATION
- SOIL BORING / TEMPORARY WELL LOCATION
- SOIL BORING / PERMANENT WELL LOCATION
- MONITORING WELL LOCATION
- AGRICULTURAL CHEMICAL SOIL BORING LOCATION
- TEST TRENCH LOCATION
- SHALLOW HAND AUGER BORING LOCATION
- WELL LOCATION
- SURFACE WATER SAMPLE

N

75' 0 150'

SCALE: 1" = 150'

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Former Hillcrest Golf Course

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Saint Paul, Minnesota

Test Trench Soil Exceedances - Clubhouse

Figure 7A

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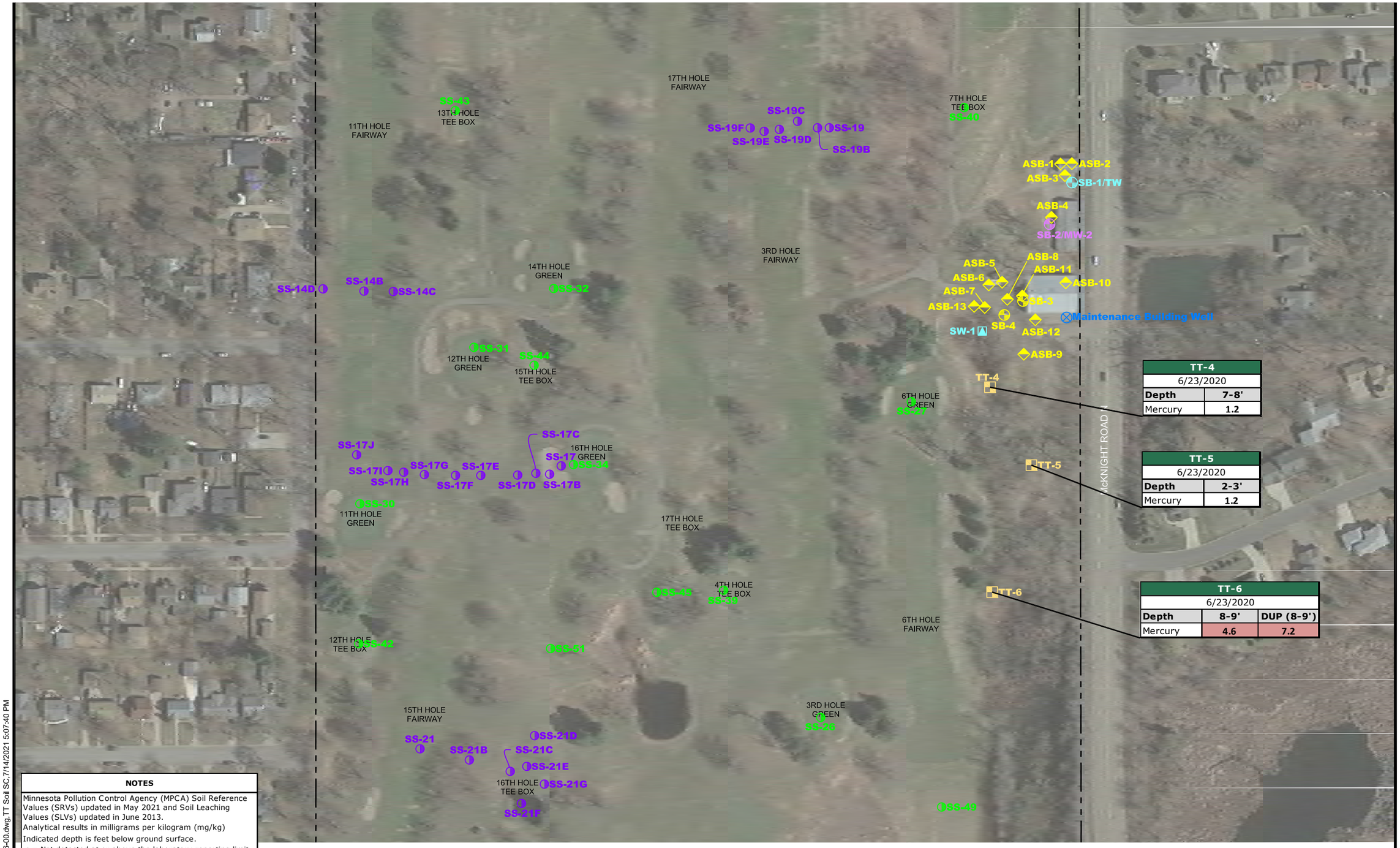

TT-4	
6/23/2020	
Depth	**7-8'**
Mercury	**1.2**

TT-5	
6/23/2020	
Depth	**2-3'**
Mercury	**1.2**

TT-6		
6/23/2020		
Depth	**8-9'**	**DUP (8-9')**
Mercury	**4.6**	**7.2**

NOTES

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Exceeds Residential / Industrial SRV

Exceeds 100 mg/kg for DRO/GRO[f] or 10 ppm for PID

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- SOIL BORING / TEMPORARY WELL LOCATION
- SOIL BORING / PERMANENT WELL LOCATION
- MONITORING WELL LOCATION
- AGRICULTURAL CHEMICAL SOIL BORING LOCATION
- TEST TRENCH LOCATION
- SHALLOW HAND AUGER BORING LOCATION
- WELL LOCATION
- SURFACE WATER SAMPLE

N

75' 0 150'

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Date Drawn:	2/6/20
Checked By:	MK
Last Modified:	7/14/21

Project Information

Remedial Investigation

Former Hillcrest Golf Course

2200 Larpenteur Avenue E

Saint Paul, Minnesota

Test Trench Soil Exceedances - Berm

Figure 7B

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PW-2F	
8/12/2020	
Depth	0-0.5' / 1-1.5'
Mercury	0.28 / 0.22

PW-2A	
8/12/2020	
Depth	0-0.5'
Mercury	0.73

PW-2E	
8/12/2020	
Depth	0-0.5'
Mercury	0.028

PW-4C	
8/12/2020	
Depth	0-0.5'
Mercury	0.2

PW-5B	
8/12/2020	
Depth	0-0.5'
Mercury	0.098

PW-5E	
8/12/2020	
Depth	0-0.5'
Mercury	8.0

PW-6J	
8/12/2020	
Depth	0-0.5'
Mercury	0.91

PW-6A	
8/12/2020	
Depth	0-0.5'
Mercury	1.9

PW-6C	
8/12/2020	
Depth	0-0.5'
Mercury	6.4 [1]

PW-6F	
8/12/2020	
Depth	0-0.5'
Mercury	0.26

PW-1D	
8/12/2020	
Depth	0-0.5'
Mercury	0.54

PW-2B	
8/12/2020	
Depth	0-0.5'
Mercury	0.16

PW-2H	
8/12/2020	
Depth	0-0.5'
Mercury	0.2

PW-4D	
8/12/2020	
Depth	0-0.5'
Mercury	0.046

PW-5A	
8/12/2020	
Depth	0-0.5'
Mercury	0.14

PW-5D	
8/12/2020	
Depth	0-0.5'
Mercury	0.28

PW-6I	
8/12/2020	
Depth	0-0.5'
Mercury	0.5

PW-6B	
8/12/2020	
Depth	0-0.5'
Mercury	2.5

PW-6G	
8/12/2020	
Depth	0-0.5'
Mercury	0.025

PW-6E	
8/12/2020	
Depth	0-0.5'
Mercury	1.3

PW-1C	
8/12/2020	
Depth	0-0.5'
Mercury	0.31

PW-2G	
8/12/2020	
Depth	0-0.5'
Mercury	0.13

PW-4A	
8/12/2020	
Depth	0-0.5'
Mercury	<0.024

PW-4B	
8/12/2020	
Depth	0-0.5'
Mercury	0.18

PW-5C	
8/12/2020	
Depth	0-0.5'
Mercury	0.084

PW-6K	
8/12/2020	
Depth	0-0.5'
Mercury	3.4

PW-1A	
8/12/2020	
Depth	0-0.5'
Mercury	0.41

PW-1B	
8/12/2020	
Depth	0-0.5'
Mercury	2.8

PW-1E	
8/12/2020	
Depth	0-0.5'
Mercury	0.94

PW-1F	
8/12/2020	
Depth	0-0.5'
Mercury	26.3

PW-1G	
8/12/2020	
Depth	0-0.5'
Mercury	16.5

PW-1H	
8/12/2020	
Depth	0-0.5'
Mercury	0.83

PW-2J	
8/12/2020	
Depth	0-0.5'
Mercury	0.063

PW-3A	
8/12/2020	
Depth	0-0.5'
Mercury	0.075

PW-2I	
8/12/2020	
Depth	0-0.5'
Mercury	0.18

PW-3B	
8/12/2020	
Depth	0-0.5'
Mercury	0.47

PW-2D	
8/12/2020	
Depth	0-0.5'
Mercury	1.9

PW-3C	
8/12/2020	
Depth	0-0.5'
Mercury	1.1

PW-2C	
8/12/2020	
Depth	0-0.5'
Mercury	0.94

PW-3D	
8/12/2020	
Depth	0-0.5'
Mercury	0.056

PW-5F	
8/12/2020	
Depth	0-0.5'
Mercury	3.7

PW-5G	
8/12/2020	
Depth	0-0.5'
Mercury	2.5

PW-6H	
8/12/2020	
Depth	0-0.5'
Mercury	0.28

PW-6D	
8/12/2020	
Depth	0-0.5'
Mercury	9.3

PW-7D	
8/12/2020	
Depth	0-0.5'
Mercury	1.6

PW-7C	
8/12/2020	
Depth	0-0.5'
Mercury	0.046

PW-7B	
8/12/2020	
Depth	0-0.5'
Mercury	0.21

PW-7A	
8/12/2020	
Depth	0-0.5'
Mercury	2.4

NOTES

Minnesota Pollution Control Agency (MPCA) Soil Reference Values (SRVs) updated in May 2021 and Soil Leaching Values (SLVs) updated in June 2013.
Analytical results in milligrams per kilogram (mg/kg)
Indicated depth is feet below ground surface.
< = Not detected at or above the laboratory reporting limit indicated.
mg/kg = Milligrams per kilogram
SLV = Soil Leaching Value
SRV =Soil Reference Value
Mercury Residential / Industrial SRV = 3.1 mg/kg
[1] [M6] Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

Exceeds Residential / Industrial SRV

POTENTIAL WETLAND SAMPLE LOCATION

150' 0 300'

SCALE: 1" = 300'

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Drawing Information

Project No: B1903316.00

Drawing No: B1903316-00

Drawn By: BJB
Date Drawn: 5/23/19
Checked By: MK
Last Modified: 7/14/21

Project Information

Former Hillcrest Golf Course

2200 Larpenteur Avenue E

Saint Paul, Minnesota

Potential Wetland Sample Soil Exceedances

Figure 8

SED-2A		
	7/15/2020	8/12/2020
Depth	0-0.5'	1-1.5'
Mercury	0.59	0.42

Sed-3		
7/2/2020		
Depth	1-1.5'	DUP (1-1.5')
Mercury	0.56	0.3

Sed-4	
7/2/2020	
Depth	1-1.5'
Mercury	0.069

Sed-5	
7/2/2020	
Depth	0.5-1'
Mercury	0.1

Sed-6	
7/2/2020	
Depth	0.5-1'
Mercury	12.9

Sed-2	
7/2/2020	
Depth	1-1.5'
Mercury	0.21

SED-3A	
7/15/2020	
Depth	0-0.5'
Mercury	0.044

SED-4A		
7/15/2020		
Depth	0-0.5'	1-1.5'
Mercury	0.16	0.19

Soil 1		
7/15/2020		
Depth	0-0.5'	1-1.5'
Mercury	0.1	0.034

SED-7D		
7/15/2020		
Depth	0-0.5'	1-1.5'
Mercury	0.28	0.16

Sed-7	
7/2/2020	
Depth	0-0.5'
Mercury	11.7

SED-1	
7/2/2020	
Depth	1-1.5'
Mercury	1.5 [M1]

SED-1A	
7/15/2020	
Depth	0-0.5'
Mercury	0.23

SED-7A	
7/15/2020	
Depth	0-0.5'
Mercury	0.12

SED-7C		
7/15/2020		
Depth	0-0.5'	1-1.5'
Mercury	1.1	0.21

SED-7B		
	7/15/2020	8/12/2020
Depth	0-0.5'	1-1.5'
Mercury	11.9	0.045

McKNIGHT ROAD N

N WINTHROP STREET

LARPENTEUR AVE

FURNESS PARKWAY

HOYT AVENUE E

NEBRASKA AVENUE E

ARLINGTON AVENUE E

SHERWOOD AVENUE

COTTAGE

CLEAR A

IVY AVENUE E

DRIVING RANGE

PRACTICE GREEN

PRACTICE GREEN

NOTES

Minnesota Pollution Control Agency (MPCA) Soil Reference Values (SRVs) updated in May 2021 and Soil Leaching Values (SLVs) updated in June 2013.

Analytical results in milligrams per kilogram (mg/kg)

Indicated depth is feet below ground surface.

< = Not detected at or above the laboratory reporting limit indicated.

mg/kg = Milligrams per kilogram

SLV = Soil Leaching Value

SRV =Soil Reference Value

Mercury Residential / Industrial SRV = 3.1 mg/kg

[M1] Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery. - [R1] RPD value was outside control limits.

Exceeds Residential / Industrial SRV

SEDIMENT SAMPLE LOCATION

150' 0 300'

SCALE: 1" = 300'

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Date Drawn:	5/23/19
Checked By:	MK
Last Modified:	7/14/21

Project Information

Former Hillcrest Golf Course

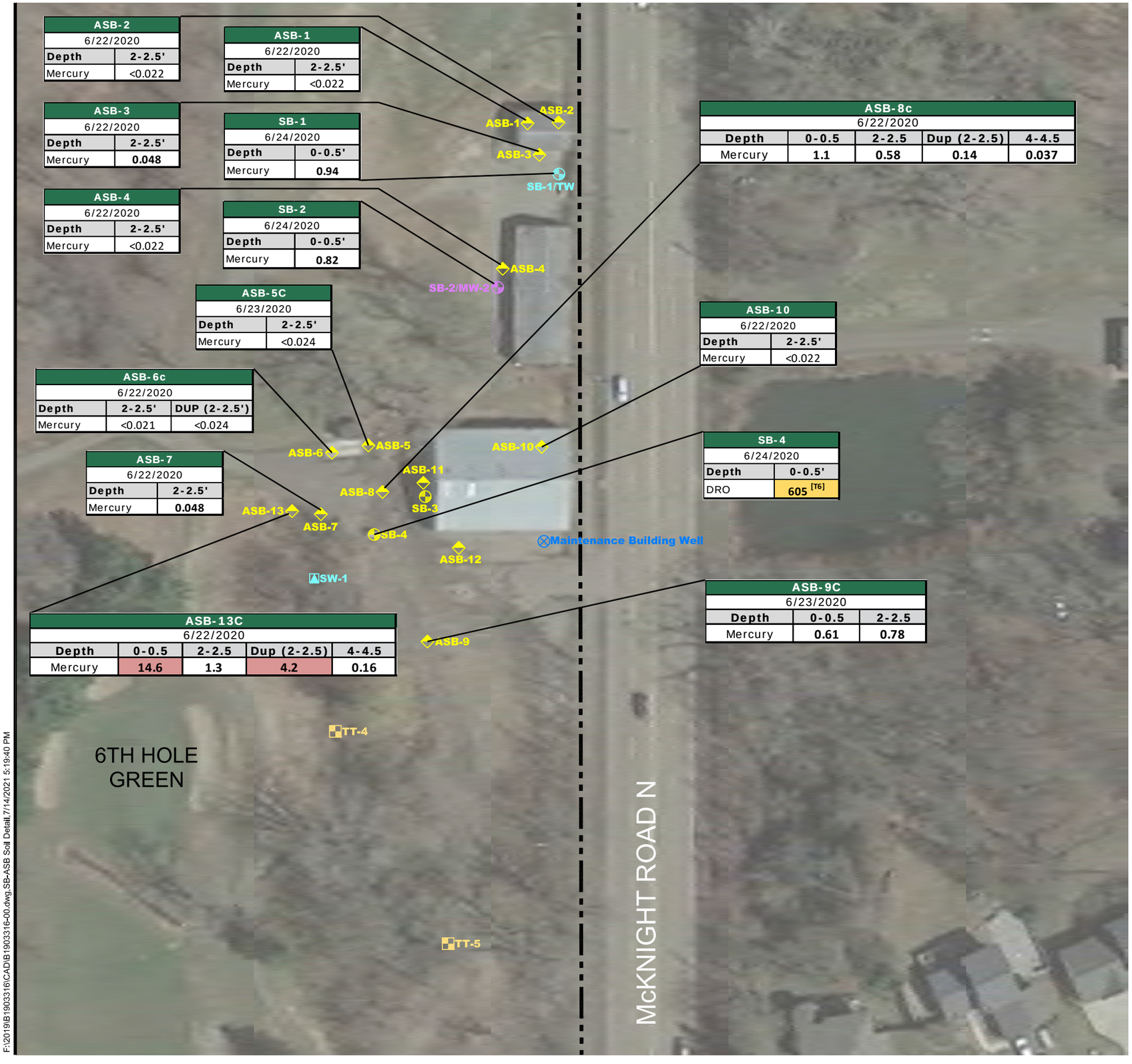
2200 Larpenteur Avenue E

Saint Paul, Minnesota

Sediment Sample Soil Exceedances

Figure 9

F:\2019\B1903316\CAD\B1903316-00.dwg,SED Soil,7/14/2021 5:18:29 PM



F:\2019\B1903316\CAD\B1903316-00.dwg,SB-ASB Soil Detail,7/14/2021 5:19:40 PM

NOTES

Minnesota Pollution Control Agency (MPCA) Soil Reference Values (SRVs) updated in May 2021 and Soil Leaching Values (SLVs) updated in June 2013.
Analytical results in milligrams per kilogram (mg/kg)
Indicated depth is feet below ground surface.
[f] = DRO/GRO concentrations greater than 100 mg/kg are not suitable for reuse as unregulated fill per February 2012 MPCA guidance c-rem1-01.
DRO = Diesel Range Organics
mg/kg = Milligrams per kilogram
SLV = Soil Leaching Value
SRV =Soil Reference Value
Mercury Residential / Industrial SRV = 3.1 mg/kg
[T6] High boiling point hydrocarbons are present in the sample.

Exceeds Residential / Industrial SRV
Exceeds 100 mg/kg for DRO/GRO[f] or 10 ppm for PID

- **SOIL BORING LOCATION**
- **SOIL BORING / TEMPORARY WELL LOCATION**
- **SOIL BORING / PERMANENT WELL LOCATION**
- **AGRICULTURAL CHEMICAL SOIL BORING LOCATION**
- **TEST TRENCH LOCATION**
- **WELL LOCATION**
- **SURFACE WATER SAMPLE**



SCALE: 1" = 60'

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Drawing Information

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Last Modified:	7/14/21

Project Information

Remedial Investigation

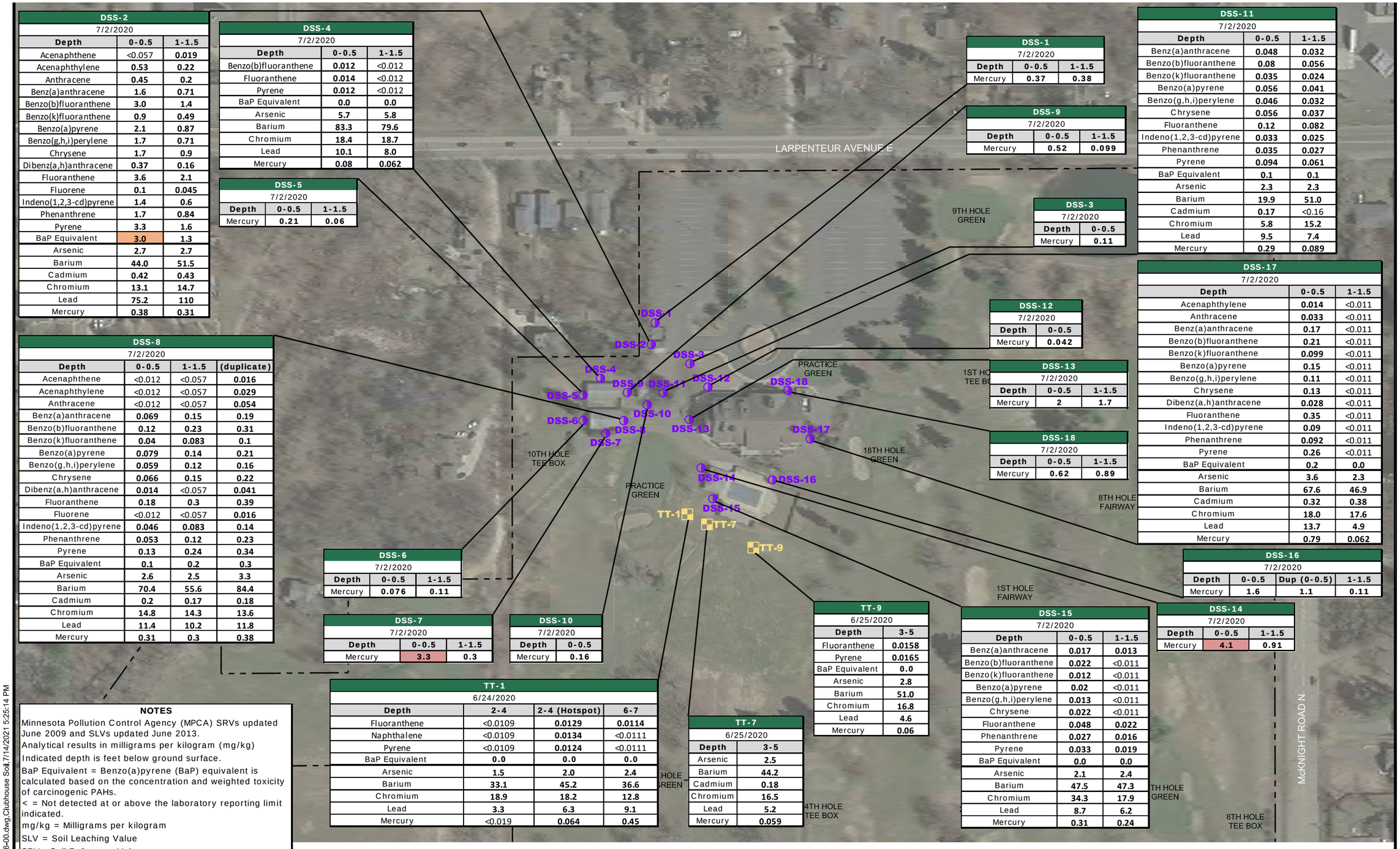
Former Hillcrest Golf Course

2200 Larpenteur Avenue E

Saint Paul, Minnesota

Soil Boring & Agricultural Chemical Soil Boring Soil Exceedances

Figure 10



DSS-2		
7/2/2020		
Depth	**0-0.5**	**1-1.5**
Acenaphthene	<0.057	**0.019**
Acenaphthylene	**0.53**	**0.22**
Anthracene	**0.45**	**0.2**
Benz(a)anthracene	**1.6**	**0.71**
Benzo(b)fluoranthene	**3.0**	**1.4**
Benzo(k)fluoranthene	**0.9**	**0.49**
Benzo(a)pyrene	**2.1**	**0.87**
Benzo(g,h,i)perylene	**1.7**	**0.71**
Chrysene	**1.7**	**0.9**
Dibenz(a,h)anthracene	**0.37**	**0.16**
Fluoranthene	**3.6**	**2.1**
Fluorene	**0.1**	**0.045**
Indeno(1,2,3-cd)pyrene	**1.4**	**0.6**
Phenanthrene	**1.7**	**0.84**
Pyrene	**3.3**	**1.6**
BaP Equivalent	**3.0**	**1.3**
Arsenic	**2.7**	**2.7**
Barium	**44.0**	**51.5**
Cadmium	**0.42**	**0.43**
Chromium	**13.1**	**14.7**
Lead	**75.2**	**110**
Mercury	**0.38**	**0.31**

DSS-4		
7/2/2020		
Depth	**0-0.5**	**1-1.5**
Benzo(b)fluoranthene	**0.012**	<0.012
Fluoranthene	**0.014**	<0.012
Pyrene	**0.012**	<0.012
BaP Equivalent	**0.0**	**0.0**
Arsenic	**5.7**	**5.8**
Barium	**83.3**	**79.6**
Chromium	**18.4**	**18.7**
Lead	**10.1**	**8.0**
Mercury	**0.08**	**0.062**

DSS-5		
7/2/2020		
Depth	**0-0.5**	**1-1.5**
Mercury	**0.21**	**0.06**

DSS-1		
7/2/2020		
Depth	**0-0.5**	**1-1.5**
Mercury	**0.37**	**0.38**

DSS-9		
7/2/2020		
Depth	**0-0.5**	**1-1.5**
Mercury	**0.52**	**0.099**

DSS-3	
7/2/2020	
Depth	**0-0.5**
Mercury	**0.11**

DSS-11		
7/2/2020		
Depth	**0-0.5**	**1-1.5**
Benz(a)anthracene	**0.048**	**0.032**
Benzo(b)fluoranthene	**0.08**	**0.056**
Benzo(k)fluoranthene	**0.035**	**0.024**
Benzo(a)pyrene	**0.056**	**0.041**
Benzo(g,h,i)perylene	**0.046**	**0.032**
Chrysene	**0.056**	**0.037**
Fluoranthene	**0.12**	**0.082**
Indeno(1,2,3-cd)pyrene	**0.033**	**0.025**
Phenanthrene	**0.035**	**0.027**
Pyrene	**0.094**	**0.061**
BaP Equivalent	**0.1**	**0.1**
Arsenic	**2.3**	**2.3**
Barium	**19.9**	**51.0**
Cadmium	**0.17**	<0.16
Chromium	**5.8**	**15.2**
Lead	**9.5**	**7.4**
Mercury	**0.29**	**0.089**

DSS-12	
7/2/2020	
Depth	**0-0.5**
Mercury	**0.042**

DSS-13		
7/2/2020		
Depth	**0-0.5**	**1-1.5**
Mercury	**2**	**1.7**

DSS-18		
7/2/2020		
Depth	**0-0.5**	**1-1.5**
Mercury	**0.62**	**0.89**

DSS-17		
7/2/2020		
Depth	**0-0.5**	**1-1.5**
Acenaphthylene	**0.014**	<0.011
Anthracene	**0.033**	<0.011
Benz(a)anthracene	**0.17**	<0.011
Benzo(b)fluoranthene	**0.21**	<0.011
Benzo(k)fluoranthene	**0.099**	<0.011
Benzo(a)pyrene	**0.15**	<0.011
Benzo(g,h,i)perylene	**0.11**	<0.011
Chrysene	**0.13**	<0.011
Dibenz(a,h)anthracene	**0.028**	<0.011
Fluoranthene	**0.35**	<0.011
Indeno(1,2,3-cd)pyrene	**0.09**	<0.011
Phenanthrene	**0.092**	<0.011
Pyrene	**0.26**	<0.011
BaP Equivalent	**0.2**	**0.0**
Arsenic	**3.6**	**2.3**
Barium	**67.6**	**46.9**
Cadmium	**0.32**	**0.38**
Chromium	**18.0**	**17.6**
Lead	**13.7**	**4.9**
Mercury	**0.79**	**0.062**

DSS-8			
7/2/2020			
Depth	**0-0.5**	**1-1.5**	**(duplicate)**
Acenaphthene	<0.012	<0.057	**0.016**
Acenaphthylene	<0.012	<0.057	**0.029**
Anthracene	<0.012	<0.057	**0.054**
Benz(a)anthracene	**0.069**	**0.15**	**0.19**
Benzo(b)fluoranthene	**0.12**	**0.23**	**0.31**
Benzo(k)fluoranthene	**0.04**	**0.083**	**0.1**
Benzo(a)pyrene	**0.079**	**0.14**	**0.21**
Benzo(g,h,i)perylene	**0.059**	**0.12**	**0.16**
Chrysene	**0.066**	**0.15**	**0.22**
Dibenz(a,h)anthracene	**0.014**	<0.057	**0.041**
Fluoranthene	**0.18**	**0.3**	**0.39**
Fluorene	<0.012	<0.057	**0.016**
Indeno(1,2,3-cd)pyrene	**0.046**	**0.083**	**0.14**
Phenanthrene	**0.053**	**0.12**	**0.23**
Pyrene	**0.13**	**0.24**	**0.34**
BaP Equivalent	**0.1**	**0.2**	**0.3**
Arsenic	**2.6**	**2.5**	**3.3**
Barium	**70.4**	**55.6**	**84.4**
Cadmium	**0.2**	**0.17**	**0.18**
Chromium	**14.8**	**14.3**	**13.6**
Lead	**11.4**	**10.2**	**11.8**
Mercury	**0.31**	**0.3**	**0.38**

DSS-6		
7/2/2020		
Depth	**0-0.5**	**1-1.5**
Mercury	**0.076**	**0.11**

DSS-7		
7/2/2020		
Depth	**0-0.5**	**1-1.5**
Mercury	**3.3**	**0.3**

DSS-10	
7/2/2020	
Depth	**0-0.5**
Mercury	**0.16**

TT-1			
6/24/2020			
Depth	**2-4**	**2-4 (Hotspot)**	**6-7**
Fluoranthene	<0.0109	**0.0129**	**0.0114**
Naphthalene	<0.0109	**0.0134**	<0.0111
Pyrene	<0.0109	**0.0124**	<0.0111
BaP Equivalent	**0.0**	**0.0**	**0.0**
Arsenic	**1.5**	**2.0**	**2.4**
Barium	**33.1**	**45.2**	**36.6**
Chromium	**18.9**	**18.2**	**12.8**
Lead	**3.3**	**6.3**	**9.1**
Mercury	<0.019	**0.064**	**0.45**

TT-7	
6/25/2020	
Depth	**3-5**
Arsenic	**2.5**
Barium	**44.2**
Cadmium	**0.18**
Chromium	**16.5**
Lead	**5.2**
Mercury	**0.059**

TT-9	
6/25/2020	
Depth	**3-5**
Fluoranthene	**0.0158**
Pyrene	**0.0165**
BaP Equivalent	**0.0**
Arsenic	**2.8**
Barium	**51.0**
Chromium	**16.8**
Lead	**4.6**
Mercury	**0.06**

DSS-15		
7/2/2020		
Depth	**0-0.5**	**1-1.5**
Benz(a)anthracene	**0.017**	**0.013**
Benzo(b)fluoranthene	**0.022**	<0.011
Benzo(k)fluoranthene	**0.012**	<0.011
Benzo(a)pyrene	**0.02**	<0.011
Benzo(g,h,i)perylene	**0.013**	<0.011
Chrysene	**0.022**	<0.011
Fluoranthene	**0.048**	**0.022**
Phenanthrene	**0.027**	**0.016**
Pyrene	**0.033**	**0.019**
BaP Equivalent	**0.0**	**0.0**
Arsenic	**2.1**	**2.4**
Barium	**47.5**	**47.3**
Chromium	**34.3**	**17.9**
Lead	**8.7**	**6.2**
Mercury	**0.31**	**0.24**

DSS-16			
7/2/2020			
Depth	**0-0.5**	**Dup (0-0.5)**	**1-1.5**
Mercury	**1.6**	**1.1**	**0.11**

DSS-14		
7/2/2020		
Depth	**0-0.5**	**1-1.5**
Mercury	**4.1**	**0.91**

NOTES

Minnesota Pollution Control Agency (MPCA) SRVs updated June 2009 and SLVs updated June 2013.

Analytical results in milligrams per kilogram (mg/kg)

Indicated depth is feet below ground surface.

BaP Equivalent = Benzo(a)pyrene (BaP) equivalent is calculated based on the concentration and weighted toxicity of carcinogenic PAHs.

< = Not detected at or above the laboratory reporting limit indicated.

mg/kg = Milligrams per kilogram

SLV = Soil Leaching Value

SRV =Soil Reference Value

BaP Equivalent Residential SRV = 2 mg/kg

BaP Equivalent Industrial SRV = 23 mg/kg

BaP Equivalent Screening SLV = 1.4 mg/kg

Mercury Residential / Industrial SRV = 3.1 mg/kg

Exceeds Residential SRV

Exceeds Residential / Industrial SRV

Exceeds 100 mg/kg for DRO/GRO[f] or 10 ppm for PID

TEST TRENCH LOCATION

SHALLOW HAND AUGER BORING LOCATION

75' 0 150'

SCALE: 1" = 150'

F:\2019\B1903316\CAD\B1903316-00.dwg,Clubhouse Soil,7/14/2021 5:25:14 PM

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952.995.2000
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Drawing Information

Project No: B1903316.00

Drawing No: B1903316-00

Drawn By: BJB
Date Drawn: 2/6/20
Checked By: MK
Last Modified: 7/14/21

Project Information

Former Hillcrest Golf Course

2200 Larpenteur Avenue E

Saint Paul, Minnesota

Clubhouse - Detail

Figure 11

SW-4	
8/17/2020	
Depth	**Surface**
Mercury, Dissolved	<0.20
Mercury, Total	<0.20

SW-3	
8/17/2020	
Depth	**Surface**
Mercury, Dissolved	<0.20
Mercury, Total	<0.20

SW-2	
8/17/2020	
Depth	**Surface**
Mercury, Dissolved	<0.20
Mercury, Total	<0.20

SW-1	
8/17/2020	
Depth	**Surface**
Mercury, Dissolved	<0.20
Mercury, Total	<0.20

McKNIGHT ROAD N

SW-4 SW-3 SW-2 SW-1

9TH HOLE TEE BOX
9TH HOLE GREEN
8TH HOLE TEE BOX
8TH HOLE GREEN
8TH HOLE FAIRWAY
7TH HOLE FAIRWAY
7TH HOLE GREEN
7TH HOLE TEE BOX
6TH HOLE TEE BOX
6TH HOLE GREEN
6TH HOLE FAIRWAY
5TH HOLE GREEN
2ND HOLE GREEN
1ST HOLE GREEN
1ST HOLE FAIRWAY
1ST HOLE TEE BOX
2ND HOLE TEE BOX
3RD HOLE TEE BOX
3RD HOLE GREEN
3RD HOLE FAIRWAY
18TH HOLE TEE BOX
18TH HOLE GREEN
18TH HOLE FAIRWAY
4TH HOLE TEE BOX
17TH HOLE GREEN
17TH HOLE FAIRWAY
17TH HOLE TEE BOX
5TH HOLE FAIRWAY
PRACTICE GREEN
14TH HOLE TEE BOX
14TH HOLE FAIRWAY
16TH HOLE GREEN
4TH HOLE FAIRWAY
14TH HOLE GREEN
15TH HOLE TEE BOX
16TH HOLE TEE BOX
13TH HOLE GREEN
PRACTICE GREEN
13TH HOLE FAIRWAY
13TH HOLE TEE BOX
12TH HOLE GREEN
15TH HOLE FAIRWAY
10TH HOLE FAIRWAY
10TH HOLE TEE BOX
10TH HOLE GREEN
11TH HOLE TEE BOX
11TH HOLE FAIRWAY
11TH HOLE GREEN
12TH HOLE TEE BOX
15TH HOLE GREEN
4TH HOLE GREEN
5TH HOLE TEE BOX
LARPENTEUR AVENUE E
N WINTHROP STREET
DRIVING RANGE
HOYT AVENUE E
NEBRASKA AVENUE E
ARLINGTON AVENUE E
SHERWOOD AVENUE
COTTAGE AVENUE E
CLEAR AVENUE E
IVY AVENUE E

NOTES

Drinking Water Criteria = The most conservative value for chronic or cancer exposures provided from the following sources including the Minnesota Department of Health (MDH) Health Risk Limit (HRL), MDH Health Based Value (HBV), MDH Risk Assessment Advice (RAA) or Maximum Contaminant Level (MCL). The date of promulgation is provided, if available. Values updated April 2019.

µg/L = Micrograms per liter.

< = Not detected at or above the laboratory reporting limit indicated.

MCL = Maximum Contaminant Level

Mercury MCL = 2 µg/L

Exceeds Drinking Water Criteria

SURFACE WATER SAMPLE LOCATION

150' 0 300'

SCALE: 1" = 300'

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BRAUN INTERTEC
The Science You Build On.
11001 Hampshire Avenue S
Minneapolis, MN 55438
952.995.2000
braunintertec.com

Drawing Information

Project No: B1903316.00

Drawing No: B1903316-00

Drawn By:	BJB
Date Drawn:	5/23/19
Checked By:	MK
Last Modified:	1/18/21

Project Information

Former Hillcrest Golf Course

2200 Larpenteur Avenue E

Saint Paul, Minnesota

Water Summary - Maintenance Area

Figure 14

Attachment 2

2020 RI Analytical Summary Tables

BRAUN INTERTEC

Table 1 - Fairways, Greens, Roughs, and Tee Boxes
Soil Analytical Results
Former Hillcrest Golf Course
Saint Paul, Minnesota
Project B1903316.00

DRAFT

Sample Identifier, Date Collected, and Location Description				Compound/Parameter	Arsenic, Total (mg/kg)	Mercury, Total (mg/kg)
				CAS No.	7440-38-2	7439-97-6
SS-1B (0-0.5)	6/7/2020	8th Hole	Green		**117**	**38.2**
SS-1B (1-1.5)	6/7/2020				**29.1**	**11.6**
SS-1C (0-0.5)	6/7/2020		Rough adjacent to Green		**3.2**	**0.08**
SS-1C (1-1.5)	6/7/2020				**3.7**	**0.057**
SS-1D (0-0.5)	6/7/2020	9th Hole	Rough near Sidewalk		---	**0.039**
SS-1D (1-1.5)	6/7/2020				---	**0.028**
SS-1E (0-0.5)	6/7/2020		Tee Box		---	**3.9**
SS-1E (1-1.5)	6/7/2020				---	**0.11**
SS-1F (0-0.5)	6/7/2020	8th Hole	Rough near Sidewalk		**7.4**	**6.6**
SS-1F (1-1.5)	6/7/2020				**2.9**	**0.057**
SS-1G (0-0.5)	6/7/2020		Sand Trap		---	<0.022
SS-1G (1-1.5)	6/7/2020				---	**0.028**
SS-1H (0-0.5)	6/7/2020		Rough adjacent to Sand Trap		---	**0.13**
SS-1H (1-1.5)	6/7/2020				---	<0.021
SS-1I (0-0.5)	6/7/2020		Fairway		---	**6.7** [M6]
SS-1I (1-1.5)	6/7/2020				---	**0.2**
SS-1J (0-0.5)	6/7/2020	9th Hole	Tee Box		---	**5.1**
SS-1J (1-1.5)	6/7/2020				---	**0.087**
SS-1K (0-0.5)	6/7/2020		Rough adjacent to Tee Box		---	**1.1**
SS-1K (1-1.5)	6/7/2020				---	**0.1**
SS-3G (0-0.5)	6/9/2020	13th Hole	Sand Trap		---	**0.15**
SS-3G (1-1.5)	6/9/2020				---	<0.022
SS-3H (0-0.5)	6/9/2020		Fringe of Green		---	**130**
SS-3H (1-1.5)	6/9/2020				---	**1.8**
SS-3I (0-0.5)	6/9/2020		Rough adjacent to Green		---	**0.92**
SS-3I (1-1.5)	6/9/2020				---	**0.051**
SS-3J (0-0.5)	6/9/2020		Fairway		---	**4.0**
SS-3J (1-1.5)	6/9/2020				---	**0.14**
SS-3K (0-0.5)	6/9/2020		Rough		---	**0.9**
SS-3K (1-1.5)	6/9/2020				---	**0.1**
SS-3L (0-0.5)	6/9/2020		Rough		---	**1.4**
SS-3L (1-1.5)	6/9/2020				---	**0.054**
SS-3M (0-0.5)	6/9/2020		Fairway		---	**1.5**
Dup-4-06092020 (SS-3M (0-0.5)	6/9/2020				---	**1.2**
SS-3M (1-1.5)	6/9/2020				---	**0.043**
SS-4B (0-0.5)	6/11/2020	4th Hole	Fringe of Green		---	**46.0**
SS-4B (1-1.5)	6/11/2020				---	**0.27**
SS-4C (0-0.5)	6/11/2020		Rough		---	**2.5** [M1]
Dup-11-06112020 (SS-4C 0-0.5)	6/11/2020				---	**2.1**
SS-4C (1-1.5)	6/11/2020				---	**0.24**
SS-4D (0-0.5)	6/11/2020		Fringe of Fairway		---	**3.6**
SS-4D (1-1.5)	6/11/2020				---	**0.046**
SS-4E (0-0.5)	6/11/2020		Fairway		---	**3.4**
SS-4E (1-1.5)	6/11/2020				---	**0.12**
SS-4F (0-0.5)	6/11/2020		Fringe of Fairway		---	**0.13**
SS-4F (1-1.5)	6/11/2020				---	<0.023
SS-5D (0-0.5)	6/12/2020	5th Hole	Fairway		---	**5.6**
SS-5D (1-1.5)	6/12/2020				---	**0.035**
SS-5E (0-0.5)	6/12/2020		Fairway		---	**2.3**
SS-5E (1-1.5)	6/12/2020				---	**0.053**
SS-5F (0-0.5)	6/12/2020		Rough		---	**1.9**
Dup-13-06122020 (SS-5F (0-0.5)	6/12/2020				---	**2.0**
SS-5F (1-1.5)	6/12/2020				---	<0.019
SS-5G (0-0.5)	6/12/2020		Fringe of Green		---	**33.5**
SS-5G (1-1.5)	6/12/2020				---	**0.066**
SS-5H (0-0.5)	6/12/2020		Sand Trap		---	<0.021
SS-5H (1-1.5)	6/12/2020				---	**0.025**
SS-5I (0-0.5)	6/12/2020		Rough		---	**1.3**
SS-5I (1-1.5)	6/12/2020				---	**0.11**
SS-5J (0-0.5)	6/12/2020	6th Hole	Tee Box		---	**5.5**
SS-5J (1-1.5)	6/12/2020				---	**2.8**
SS-5K (0-0.5)	6/12/2020		Tee Box		---	**0.055** [M1]
Dup-14-06122020 (SS-5K (0-0.5)	6/12/2020				---	**0.053**
SS-5K (1-1.5)	6/12/2020				---	**0.24**
SS-5L (0-0.5)	6/12/2020		Rough		---	**0.16**
SS-5L (1-1.5)	6/12/2020				---	<0.022
SS-5M (0-0.5)	6/12/2020		Drainage Area adjacent to Tee Box		---	**0.13**
SS-5M (1-1.5)	6/12/2020				---	**0.3**
SS-10B (0-0.5)	6/9/2020	13th Hole	Fairway		---	**3.7**
SS-10B (1-1.5)	6/9/2020				---	**0.04**
SS-10C (0-0.5)	6/9/2020		Fringe of Fairway		---	**1.7**
SS-10C (1-1.5)	6/9/2020				---	<0.023
SS-10D (0-0.5)	6/9/2020		Rough		---	**0.87**
SS-10D (1-1.5)	6/9/2020				---	**0.071**
Residential Soil Reference Value (SRV) (mg/kg)					9	3.1
Industrial Soil Reference Value (SRV) (mg/kg)					9	3.1
Screening Soil Leaching Value (SLV) (mg/kg)					5.8	3.3

Notes

Minnesota Pollution Control Agency (MPCA) SRVs updated June 2009 and SLVs updated June 2013.

mg/kg = Milligrams per kilogram.

< = Not detected at or above the laboratory reporting limit indicated.

--- = Not analyzed or calculated for this parameter or not applicable.

[a] = Samples SS-21C (0-0.5) and SS-21C (1-1.5) were mislabeled by the lab as SS-21K (0-0.5) and SS-21K (1-1.5), respectively.

[M1] Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

[M6] Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

Exceeds Industrial SRV

Exceeds Screening SLV

Table 1 - Fairways, Greens, Roughs, and Tee Boxes
Soil Analytical Results
Former Hillcrest Golf Course
Saint Paul, Minnesota
Project B1903316.00

DRAFT

Compound/Parameter					Arsenic, Total (mg/kg)	Mercury, Total (mg/kg)
CAS No.					7440-38-2	7439-97-6
Sample Identifier, Date Collected, and Location Description	SS-10E (0-0.5)	6/9/2020	10th Hole	Rough	---	**0.22**
	SS-10E (1-1.5)	6/9/2020			---	<0.022
	SS-10F (0-0.5)	6/9/2020		Fringe of Fairway	---	**2.3**
	SS-10F (1-1.5)	6/9/2020			---	**0.22**
	Dup-5-06092020 (SS-10F (1-1.5)	6/9/2020			---	**0.61**
	SS-10G (0-0.5)	6/9/2020		Fairway	---	**2.8**
	SS-10G (1-1.5)	6/9/2020			---	**0.57**
	SS-10H (0-0.5)	6/9/2020		Fairway	---	**3.5**
	SS-10H (1-1.5)	6/9/2020			---	<0.023
	SS-13B (0-0.5)	6/9/2020	13th Hole	Fairway	---	**3.0**
	SS-13B (1-1.5)	6/9/2020			---	**0.08**
	SS-13C (0-0.5)	6/9/2020		Rough	---	<0.023
	SS-13C (1-1.5)	6/9/2020			---	**0.087**
	SS-14B (0-0.5)	6/9/2020	11th Hole	Fairway	---	**4.0**
	SS-14B (1-1.5)	6/9/2020			---	**0.14**
	SS-14C (0-0.5)	6/9/2020		Fringe of Fairway	---	**1.7**
	SS-14C (1-1.5)	6/9/2020			---	**0.2**
	SS-14D (0-0.5)	6/9/2020		Rough	---	**0.093**
	SS-14D (1-1.5)	6/9/2020			---	<0.024
	SS-16B (0-0.5)	6/11/2020	5th Hole	Fairway	---	**1.1**
	SS-16B (1-1.5)	6/11/2020			---	**0.2**
	SS-16C (0-0.5)	6/11/2020		Fringe of Fairway	---	**1.2**
	SS-16C (1-1.5)	6/11/2020			---	<0.023
	SS-16D (0-0.5)	6/11/2020		Rough	---	**1.2**
	SS-16D (1-1.5)	6/11/2020			---	**0.13**
	SS-17 (0-0.5)	6/10/2020	16th Hole	Rough next to sand trap	---	**0.65**
	SS-17 (1-1.5)	6/10/2020			---	**10.0**
	SS-17B (0-0.5)	6/10/2020		Sand Trap	---	**0.05**
	SS-17B (1-1.5)	6/10/2020			---	**0.023**
	SS-17C (0-0.5)	6/10/2020		Rough	---	**0.088**
	SS-17C (1-1.5)	6/10/2020			---	**0.041**
	SS-17D (0-0.5)	6/10/2020	15th Hole	Rough	---	**0.39**
	SS-17D (1-1.5)	6/10/2020			---	**0.028**
	SS-17E (0-0.5)	6/10/2020		Fairway	---	**2.4**
	SS-17E (1-1.5)	6/10/2020			---	**0.022**
	SS-17F (0-0.5)	6/10/2020		Rough	---	**0.16**
	SS-17F (1-1.5)	6/10/2020			---	<0.023
	SS-17G (0-0.5)	6/10/2020	12th Hole	Fairway	---	**16.5**
	SS-17G (1-1.5)	6/10/2020			---	**0.21**
	SS-17H (0-0.5)	6/10/2020		Rough near Sidewalk	---	**1.0**
	SS-17H (1-1.5)	6/10/2020			---	**0.12**
	Dup-9-06102020 (SS-17H (1-1.5)	6/10/2020			---	**0.12**
	SS-17I (0-0.5)	6/10/2020	11th Hole	Fringe of Fairway	---	**3.3**
	SS-17I (1-1.5)	6/10/2020			---	**0.56**
	SS-17J (0-0.5)	6/10/2020		Fairway	---	**3.8**
	SS-17J (1-1.5)	6/10/2020			---	**0.16**
	SS-18 (0-0.5)	6/7/2020	1st Hole	Rough	---	**0.48**
	SS-18 (1-1.5)	6/7/2020			---	**0.054**
	SS-18B (0-0.5)	6/7/2020		Fringe of Fairway	---	**3.1**
	SS-18B (1-1.5)	6/7/2020			---	**2.7**
	SS-18C (0-0.5)	6/7/2020		Fairway	---	**4.1**
	Dup-1-06072020 (SS-18C (0-0.5)	6/7/2020			---	**0.85**
	SS-18C (1-1.5)	6/7/2020			---	**0.11**
	SS-18D (0-0.5)	6/7/2020		Fringe of Fairway	---	**0.8**
	SS-18D (1-1.5)	6/7/2020			---	**0.042**
	SS-18E (0-0.5)	6/7/2020		Rough	---	**0.13**
	SS-18E (1-1.5)	6/7/2020			---	<0.021
	SS-19 (0-0.5)	6/10/2020	3rd Hole	Rough adjacent to Fairway	---	**1.1**
	SS-19 (1-1.5)	6/10/2020			---	**0.12**
	SS-19B (0-0.5)	6/10/2020		Rough adjacent to Fairway	---	**3.1**
	SS-19B (1-1.5)	6/10/2020			---	**0.65**
	SS-19C (0-0.5)	6/10/2020		Fairway	---	**3.0**
	SS-19C (1-1.5)	6/10/2020			---	**0.3**
	SS-19D (0-0.5)	6/10/2020		Fairway	---	**2.0**
	SS-19D (1-1.5)	6/10/2020			---	**0.092**
	SS-19E (0-0.5)	6/10/2020		Fringe of Fairway	---	**0.67**
	SS-19E (1-1.5)	6/10/2020			---	<0.021
	SS-19F (0-0.5)	6/10/2020		Rough	---	**0.35**
	Dup-8-06102020 (SS-19F (0-0.5)	6/10/2020			---	**0.35**
	SS-19F (1-1.5)	6/10/2020			---	**0.047**
Residential Soil Reference Value (SRV) (mg/kg)					9	3.1
Industrial Soil Reference Value (SRV) (mg/kg)					9	3.1
Screening Soil Leaching Value (SLV) (mg/kg)					5.8	3.3

Notes

Minnesota Pollution Control Agency (MPCA) SRVs updated June 2009 and SLVs updated June 2013.

mg/kg = Milligrams per kilogram.

< = Not detected at or above the laboratory reporting limit indicated.

--- = Not analyzed or calculated for this parameter or not applicable.

[a] = Samples SS-21C (0-0.5) and SS-21C (1-1.5) were mislabeled by the lab as SS-21K (0-0.5) and SS-21K (1-1.5), respectively.

[M1] Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

[M6] Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

Exceeds Industrial SRV
Exceeds Screening SLV

Table 1 - Fairways, Greens, Roughs, and Tee Boxes
Soil Analytical Results
Former Hillcrest Golf Course
Saint Paul, Minnesota
Project B1903316.00

DRAFT

Sample Identifier, Date Collected, and Location Description					Arsenic, Total (mg/kg)	Mercury, Total (mg/kg)
Compound/Parameter						
CAS No.					7440-38-2	7439-97-6
	SS-20 (0-0.5)	6/9/2020	14th Hole	Tee Box	---	**0.021**
	SS-20 (1-1.5)	6/9/2020			---	**0.07**
	SS-20B (0-0.5)	6/9/2020		Rough adjacent to Tee Box	---	**0.33**
	Dup-3-06092020 (SS-20B (0-0.5)	6/9/2020			---	**0.26**
	SS-20B (1-1.5)	6/9/2020			---	**0.11**
	SS-20C (0-0.5)	6/9/2020		Tee Box	---	**6.8**
	SS-20C (1-1.5)	6/9/2020			---	**0.023**
	SS-20D (0-0.5)	6/9/2020		Rough adjacent to Tee Box	---	**2.8**
	SS-20D (1-1.5)	6/9/2020			---	**0.068** [M1]
	SS-21 (0-0.5)	6/11/2020	15th Hole	Fairway	---	**4.5**
	SS-21 (1-1.5)	6/11/2020			---	**0.031**
	SS-21B (0-0.5)	6/11/2020		Rough	---	**0.1**
	SS-21B (1-1.5)	6/11/2020			---	<0.023
	SS-21C (0-0.5)[a]	6/11/2020	16th Hole	Tee Box	---	**0.6**
	SS-21C (1-1.5)[a]	6/11/2020			---	**0.062**
	SS-21D (0-0.5)	6/11/2020		Tee Box	---	**0.53**
	Dup-10-06112020 (SS-21D (0-0.5)	6/11/2020			---	**0.54**
	SS-21D (1-1.5)	6/11/2020			---	**0.19**
	SS-21E (0-0.5)	6/11/2020		Tee Box	---	**0.047**
	SS-21E (1-1.5)	6/11/2020			---	<0.022
	SS-21F (0-0.5)	6/11/2020		Tee Box	---	**0.82**
	SS-21F (1-1.5)	6/11/2020			---	**0.25**
	SS-21G (0-0.5)	6/11/2020		Rough adjacent to Tee Box	---	**0.56**
	SS-21G (1-1.5)	6/11/2020			---	**0.051**
	SS-22 (0-0.5)	6/9/2020	11th Hole	Rough adjacent to Tee Box	---	**1.4**
	SS-22 (1-1.5)	6/9/2020			---	**0.038**
	SS-22B (0-0.5)	6/9/2020		Tee Box	---	**16.9**
	Dup-6-06092020 (SS-22B (0-0.5)	6/9/2020			---	**25.0**
	SS-22B (1-1.5)	6/9/2020			---	**109**
	SS-22C (0-0.5)	6/9/2020		Tee Box	---	**4.5**
	SS-22C (1-1.5)	6/9/2020			---	**0.22**
	SS-22D (0-0.5)	6/9/2020		Rough	---	**0.077**
	SS-22D (1-1.5)	6/9/2020			---	**0.023**
	SS-22E (0-0.5)	6/9/2020	13th Hole	Rough Adjacent to Fairway	---	**2.2**
	SS-22E (1-1.5)	6/9/2020			---	**0.15**
	SS-22F (0-0.5)	6/9/2020		Fairway	---	**3.0**
	SS-22F (1-1.5)	6/9/2020			---	**0.072**
	SS-22G (0-0.5)	6/9/2020		Fairway	---	**4.7**
	SS-22G (1-1.5)	6/9/2020			---	**0.073**
	SS-22H (0-0.5)	6/9/2020		Fringe of Fairway	---	**1.8**
	SS-22H (1-1.5)	6/9/2020			---	**0.08**
	SS-22I (0-0.5)	6/9/2020		Rough	---	**0.066**
	SS-22I (1-1.5)	6/9/2020			---	<0.023
	SS-23 (0-0.5)	6/10/2020	2nd Hole	Green	---	**44.1** [M6]
	SS-23 (1-1.5)	6/10/2020			---	**0.04**
	SS-23B (0-0.5)	6/10/2020		Sand Trap	---	**0.029**
	SS-23B (1-1.5)	6/10/2020			---	**0.025**
	SS-23C (0-0.5)	6/10/2020		Rough	---	**1.3**
	SS-23C (1-1.5)	6/10/2020			---	**0.086**
	SS-23D (0-0.5)	6/10/2020	3rd Hole	Rough adjacent to Tee Box	---	**2.3**
	SS-23D (1-1.5)	6/10/2020			---	**0.091**
	SS-23E (0-0.5)	6/10/2020		Tee Box	---	**4.8**
	SS-23E (1-1.5)	6/10/2020			---	**1.0**
	SS-23F (0-0.5)	6/10/2020		Tee Box	---	**0.042**
	SS-23F (1-1.5)	6/10/2020			---	**0.035**
	SS-23G (0-0.5)	6/10/2020		Tee Box	---	**8.0**
	SS-23G (1-1.5)	6/10/2020			---	**0.11**
	SS-23H (0-0.5)	6/10/2020		Rough	---	**0.33**
	SS-23H (1-1.5)	6/10/2020			---	<0.022
	SS-23I (0-0.5)	6/10/2020	17th Hole	Rough	---	**1.4**
	SS-23I (1-1.5)	6/10/2020			---	**0.042**
	SS-23J (0-0.5)	6/10/2020		Fairway	---	**0.49**
	SS-23J (1-1.5)	6/10/2020			---	**0.39**
	SS-23K (0-0.5)	6/10/2020		Fairway	---	**1.4**
	SS-23K (1-1.5)	6/10/2020			---	**0.029**
Residential Soil Reference Value (SRV) (mg/kg)					9	3.1
Industrial Soil Reference Value (SRV) (mg/kg)					9	3.1
Screening Soil Leaching Value (SLV) (mg/kg)					5.8	3.3

Notes

Minnesota Pollution Control Agency (MPCA) SRVs updated June 2009 and SLVs updated June 2013.

mg/kg = Milligrams per kilogram.

< = Not detected at or above the laboratory reporting limit indicated.

--- = Not analyzed or calculated for this parameter or not applicable.

[a] = Samples SS-21C (0-0.5) and SS-21C (1-1.5) were mislabeled by the lab as SS-21K (0-0.5) and SS-21K (1-1.5), respectively.

[M1] Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

[M6] Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

Exceeds Industrial SRV
Exceeds Screening SLV

Table 1 - Fairways, Greens, Roughs, and Tee Boxes
Soil Analytical Results
Former Hillcrest Golf Course
Saint Paul, Minnesota
Project B1903316.00

DRAFT

Compound/Parameter					Arsenic, Total (mg/kg)	Mercury, Total (mg/kg)
CAS No.					7440-38-2	7439-97-6
Sample Identifier, Date Collected, and Location Description	SS-24 (0-0.5)	6/12/2020	Driving Range	Tee Box	---	**0.023**
	SS-24 (1-1.5)	6/12/2020			---	<0.022
	SS-24B (0-0.5)	6/12/2020		Practice Green	---	<0.021
	SS-24B (1-1.5)	6/12/2020			---	<0.021
	SS-24C (0-0.5)	6/12/2020		Fairway	---	**0.033**
	SS-24C (1-1.5)	6/12/2020			---	<0.020
	SS-24D (0-0.5)	6/12/2020		Tee Box	---	<0.022
	SS-24D (1-1.5)	6/12/2020			---	<0.020
	SS-24E (0-0.5)	6/12/2020		Fairway	---	**0.25**
	SS-24E (1-1.5)	6/12/2020			---	<0.021
	SS-24F (0-0.5)	6/12/2020		Fairway	---	**0.024**
	Dup-15-06122020 (SS-24F (0-0.5)	6/12/2020			---	<0.023
	SS-24F (1-1.5)	6/12/2020			---	<0.021
	SS-25 (0-0.5)	6/7/2020	1st Hole	Green	---	**63.9**
	SS-25 (1-1.5)	6/7/2020			---	**1.6**
	SS-26 (0-0.5)	6/10/2020	3rd Hole	Green	---	**1.7**
	SS-26 (1-1.5)	6/10/2020			---	**0.64** [M1]
	SS-27 (0-0.5)	6/11/2020	6th Hole	Green	---	**3.0**
	SS-27 (1-1.5)	6/11/2020			---	**0.18**
	SS-28 (0-0.5)	6/7/2020	9th Hole	Green	---	**110** [M6]
	SS-28 (1-1.5)	6/7/2020			---	**0.22**
	SS-29 (0-0.5)	6/9/2020	10th Hole	Green	---	**79.8**
	SS-29 (1-1.5)	6/9/2020			---	**0.33**
	SS-30 (0-0.5)	6/10/2020	11th Hole	Green	---	**1.3**
	SS-30 (1-1.5)	6/10/2020			---	**0.032**
	SS-31 (0-0.5)	6/10/2020	12th Hole	Green	---	**1.4**
	SS-31 (1-1.5)	6/10/2020			---	**1.6**
	SS-32 (0-0.5)	6/9/2020	14th Hole	Green	---	**40.9**
	SS-32 (1-1.5)	6/9/2020			---	<0.022
	SS-33 (0-0.5)	6/11/2020	15th Hole	Green	---	**73.0**
	SS-33 (1-1.5)	6/11/2020			---	**0.085**
	SS-34 (0-0.5)	6/10/2020	16th Hole	Green	---	**3.1**
	SS-34 (1-1.5)	6/10/2020			---	**0.15**
	SS-35 (0-0.5)	6/10/2020	17th Hole	Green	---	**23.4** [M6]
	Dup-7-06092020 (SS-35 (0-0.5)	6/10/2020			---	**20.5**
	SS-35 (1-1.5)	6/10/2020			---	**0.086**
	SS-36 (0-0.5)	6/15/2020	18th Hole	Green	---	**2.0**
	SS-36 (1-1.5)	6/15/2020			---	**0.1**
	SS-37 (0-0.5)	6/11/2020	Practice Green by Club House		---	**2.0**
	SS-37 (1-1.5)	6/11/2020			---	**0.089**
	SS-38 (0-0.5)	6/7/2020	2nd Hole	Tee Box	---	**0.056**
	SS-38 (1-1.5)	6/7/2020			---	**0.05**
	SS-39 (0-0.5)	6/10/2020	4th Hole	Tee Box	---	**4.4**
	SS-39 (1-1.5)	6/10/2020			---	<0.023
	SS-40 (0-0.5)	6/11/2020	7th Hole	Tee Box	---	**0.4**
	SS-40 (1-1.5)	6/11/2020			---	**0.036**
	SS-41 (0-0.5)	6/7/2020	8th Hole	Tee Box	---	**6.4**
	Dup-2-06072020 (SS-41 (0-0.5)	6/7/2020			---	**4.6**
	SS-41 (1-1.5)	6/7/2020			---	**1.6**
	SS-42 (0-0.5)	6/10/2020	12th Hole	Tee Box	---	**0.11**
	SS-42 (1-1.5)	6/10/2020			---	**7.2**
	SS-43 (0-0.5)	6/9/2020	13th Hole	Tee Box	---	**2.7**
	SS-43 (1-1.5)	6/9/2020			---	**0.16**
	SS-44 (0-0.5)	6/10/2020	15th Hole	Tee Box	---	**11.7**
	SS-44 (1-1.5)	6/10/2020			---	**0.13**
	SS-45 (0-0.5)	6/10/2020	17th Hole	Tee Box	---	**0.069**
	SS-45 (1-1.5)	6/10/2020			---	**0.028**
	SS-46 (0-0.5)	6/10/2020	18th Hole	Tee Box	---	**1.3**
	SS-46 (1-1.5)	6/10/2020			---	**0.043**
	SS-47 (0-0.5)	6/10/2020		Tee Box	---	**0.054**
	SS-47 (1-1.5)	6/10/2020			---	**0.025**
	SS-48 (0-0.5)	6/7/2020	2nd Hole	Fairway	---	**8.2**
	SS-48 (1-1.5)	6/7/2020			---	**0.073**
	SS-49 (0-0.5)	6/15/2020	5th Hole	Rough	---	**0.96**
	SS-49 (1-1.5)	6/15/2020			---	<0.022 [M1]
	SS-50 (0-0.5)	6/7/2020	7th Hole	Fairway	---	**3.5**
	SS-50 (1-1.5)	6/7/2020			---	**0.047**
	SS-51 (0-0.5)	6/10/2020	16th Hole	Rough adjacent to Fairway	---	**2.8**
	SS-51 (1-1.5)	6/10/2020			---	**0.21**
Residential Soil Reference Value (SRV) (mg/kg)					9	3.1
Industrial Soil Reference Value (SRV) (mg/kg)					9	3.1
Screening Soil Leaching Value (SLV) (mg/kg)					5.8	3.3

Notes

Minnesota Pollution Control Agency (MPCA) SRVs updated June 2009 and SLVs updated June 2013.

mg/kg = Milligrams per kilogram.

< = Not detected at or above the laboratory reporting limit indicated.

--- = Not analyzed or calculated for this parameter or not applicable.

[a] = Samples SS-21C (0-0.5) and SS-21C (1-1.5) were mislabeled by the lab as SS-21K (0-0.5) and SS-21K (1-1.5), respectively.

[M1] Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

[M6] Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

Exceeds Industrial SRV
Exceeds Screening SLV

Table 2
Soil Analytical Results: Wetlands, Ponds and Associated Areas
Former Hillcrest Golf Course
Saint Paul, Minnesota
Project B1903316.00

DRAFT

Compound/Parameter					Mercury, Total (mg/kg)
CAS No.					7439-97-6
Sample Identifier, Date Collected, and Location Description	Sed-1	07/02/2020	9th Hole	Center of Pond Adjacent to 9th Hole	**1.5** [M1]
	SED 1A (0-0.5)	07/15/2020		Southeast slope	**0.23**
	PW-1A (0-0.5)	08/12/2020		West slope	**0.41**
	PW-1B (0-0.5)	08/12/2020			**2.8**
	PW-1C (0-0.5)	08/12/2020		Southeast slope	**0.31**
	PW-1D (0-0.5)	08/12/2020			**0.54**
	PW-1E (0-0.5)	08/12/2020		South of pond	**0.94**
	PW-1F (0-0.5)	08/12/2020			**26.3**
	PW-1G (0-0.5)	08/12/2020		Southwest of pond	**16.5**
	PW-1H (0-0.5)	08/12/2020			**0.83**
	Sed-2	07/02/2020	8th Hole	Center	**0.21**
	SED 2A (0-0.5)	07/15/2020		Southwest slope	**0.59**
	Sed-2A (1-1.5)	08/12/2020			**0.42**
	PW-2A (0-0.5)	08/12/2020		East slope	**0.73**
	PW-2B (0-0.5)	08/12/2020		East of pond	**0.16**
	PW-2C (0-0.5)	08/12/2020		West slope	**0.94**
	PW-2D (0-0.5)	08/12/2020			**1.9**
	PW-2E (0-0.5)	08/12/2020		East slope	**0.028**
	PW-2F (0-0.5)	08/12/2020		Northwest of pond	**0.28**
	PW-2F (1-1.5)	08/12/2020			**0.22**
	PW-2G (0-0.5)	08/12/2020		Southwest of pond	**0.13**
	PW-2H (0-0.5)	08/12/2020		South of pond	**0.2**
	PW-2I (0-0.5)	08/12/2020		Southwest of pond	**0.18**
	PW-2J (0-0.5)	08/12/2020			**0.063**
	Sed-3	07/02/2020	2nd Hole	Center	**0.56**
	Sed-101 (Sed-3)	07/02/2020			**0.3**
	SED 3A (0-0.5)	07/15/2020		North slope	**0.044**
	PW-3A (0-0.5)	08/12/2020		Northwest slope	**0.075**
	PW-3B (0-0.5)	08/12/2020		West of center	**0.47**
	PW-3C (0-0.5)	08/12/2020		Southeast slope	**1.1**
	PW-3D (0-0.5)	08/12/2020			**0.056**
	Sed-4	07/02/2020	South of 2nd Hole	Center	**0.069**
	SED 4A (0-0.5)	07/15/2020		Southwest slope	**0.16**
	SED 4A (1-1.5)	07/15/2020			**0.19**
	PW-4A (0-0.5)	08/12/2020			<0.024
	PW-4B (0-0.5)	08/12/2020		Southeast slope	**0.18**
	PW-4C (0-0.5)	08/12/2020		East slope	**0.2**
	PW-4D (0-0.5)	08/12/2020			**0.046**
	Sed-5	07/02/2020	Maintenance Building	Southeast of building	**0.1**
	PW-5A (0-0.5)	08/12/2020		Northwest of building	**0.14**
	PW-5B (0-0.5)	08/12/2020			**0.098**
	PW-5C (0-0.5)	08/12/2020			**0.084**
	PW-5D (0-0.5)	08/12/2020			**0.28**
	PW-5E (0-0.5)	08/12/2020		West of building	**8.0**
	PW-5F (0-0.5)	08/12/2020		Southwest of building	**3.7**
	PW-5G (0-0.5)	08/12/2020			**2.5**
	Sed-6	07/02/2020	North of 6th Hole	Center	**12.9**
	PW-6A (0-0.5)	08/12/2020		North slope	**1.9**
	PW-6B (0-0.5)	08/12/2020			**2.5**
	PW-6C (0-0.5)	08/12/2020		Northeast slope	**6.4** [M6]
	PW-6D (0-0.5)	08/12/2020		Northwest slope	**9.3**
	PW-6E (0-0.5)	08/12/2020		South slope	**1.3**
	PW-6F (0-0.5)	08/12/2020			**0.26**
	PW-6G (0-0.5)	08/12/2020		Southeast slope	**0.025**
	PW-6H (0-0.5)	08/12/2020		North of pond	**0.28**
	PW-6I (0-0.5)	08/12/2020			**0.5**
	PW-6J (0-0.5)	08/12/2020			**0.91**
	PW-6K (0-0.5)	08/12/2020			**3.4**
	Sed-7	07/02/2020	4th Hole	Center	**11.7**
	SED 7A (0-0.5)	07/15/2020		Northwest slope	**0.12**
	SED 7B (0-0.5)	07/15/2020		Northwest of center	**11.9**
	Sed-7B (1-1.5)	08/12/2020			**0.045**
	SED 7C (0-0.5)	07/15/2020		Southeast of center	**1.1**
	SED 7C (1-1.5)	07/15/2020			**0.21**
	SED 7D (0-0.5)	07/15/2020		Southeast slope	**0.28**
	SED 7D (1-1.5)	07/15/2020			**0.16**
	PW-7A (0-0.5)	08/12/2020		Southeast of center	**2.4**
	PW-7B (0-0.5)	08/12/2020		Southeast slope	**0.21**
	PW-7C (0-0.5)	08/12/2020		Northwest of pond	**0.046**
	PW-7D (0-0.5)	08/12/2020		Northwest slope	**1.6**
	Soil 1-0-0.5	07/15/2020	4th Hole Tee box	West slope	**0.1**
	Soil 1-1-1.5	07/15/2020			**0.034**
Residential Soil Reference Value (SRV) (mg/kg)					**3.1**
Industrial Soil Reference Value (SRV) (mg/kg)					**3.1**
Screening Soil Leaching Value (SLV) (mg/kg)					**3.3**

Notes

Minnesota Pollution Control Agency (MPCA) SRVs updated June 2009 and SLVs updated June 2013.

mg/kg = Milligrams per kilogram.

< = Not detected at or above the laboratory reporting limit indicated.

--- = Not analyzed or calculated for this parameter or not applicable.

[M1] Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

[M6] Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

Table 3: Soil Borings
Soil Analytical Results
Former Hillcrest Golf Course
Saint Paul, Minnesota
Project B1903316.00

DRAFT

Compound/Parameter	CAS No.	Sample Identifier and Date Collected								Residential Soil Reference Value (SRV) (mg/kg)	Industrial Soil Reference Value (SRV) (mg/kg)	Screening Soil Leaching Value (SLV) (mg/kg)
		SB-1 (0.5-1.5)	SB-2 (0.5-1)	SB-3 (6.5-7)	SB-4 (4"-10")	SB-5 (.5-1.5)	Dup-20-06252020 SB-5 (.5-1.5)	MeOH Trip Blank	MeOH Trip Blank			
		06/24/2020	06/24/2020	06/24/2020	06/24/2020	06/25/2020	06/25/2020	06/24/2020	06/24/2020			
		Former UST Basin Leak Site #5050	Former UST Basin Leak Site #18327	Former Diesel AST	Former Gasoline AST	North Parking Lot near clubhouse		Field QAQC Sample - Lab Report 10522854	Field QAQC Sample -Lab Report 10523060			
Volatile Organic Compounds (VOCs) (mg/kg)												
All reported VOCs	---	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	---	---	---
Polycyclic Aromatic Hydrocarbons (PAHs) (mg/kg)												
Benzo(b)fluoranthene	205-99-2	---	---	<0.0129 [R1]	---	**0.0144**	**0.0211**	---	---	cPAH	cPAH	cPAH
Benzo(a)pyrene	50-32-8	---	---	<0.0129	---	<0.0109	**0.0119**	---	---	cPAH	cPAH	cPAH
Benzo(g,h,i)perylene	191-24-2	---	---	<0.0129 [R1]	---	<0.0109	**0.0142**	---	---	NE	NE	NE
Chrysene	218-01-9	---	---	<0.0129 [R1]	---	**0.011**	**0.0159**	---	---	cPAH	cPAH	cPAH
Fluoranthene	206-44-0	---	---	<0.0129	---	**0.0182**	**0.0218**	---	---	1,080	6,800	670
Pyrene	129-00-0	---	---	<0.0129	---	**0.0171**	**0.021**	---	---	890	5,800	440
All other reported PAHs	---	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	---	---	---
BaP Equivalent[a]	---	**0.0**	**0.0**	**0.0**	**0.0**	**0.002**	**0.014**	**0.0**	**0.0**	2	23	1.4
Metals (mg/kg)												
Arsenic, Total	7440-38-2	**3.2**	**2.3**	---	---	**2.4**	**1.7**	---	---	9	9	5.8
Barium, Total	7440-39-3	**37.7**	**50.6**	---	---	**45.6** [M1]	**39.6**	---	---	1,100	18,000	1,700
Cadmium, Total	7440-43-9	<0.16	**0.31**	---	---	<0.16	<0.15	---	---	25	200	8.8
Chromium, Total[b]	7440-47-3	**16.7**	**15.5**	---	---	**18.4**	**19.1**	---	---	44,000/87[b]	100,000/650[b]	1,000,000,000/36[b]
Lead, Total	7439-92-1	**8.1**	**21.5**	---	---	**4.5**	**7.0**	---	---	300	700	2,700
Mercury, Total	7439-97-6	**0.94**	**0.82**	---	---	<0.020	**0.49**	---	---	3.1	3.1	3.3
Selenium, Total	7782-49-2	<1.1	<1.1	---	---	<1.1	<1.0	---	---	160	1,300	2.6
Silver, Total	7440-22-4	<0.54	<0.55	---	---	<0.53	<0.51	---	---	160	1,300	7.9
List 2 Pesticides (mg/kg)												
2,4-D	94-75-7	<0.10	---	---	---	---	---	---	---	285	2200	NE
2,4-DB	94-82-6	<0.10	---	---	---	---	---	---	---	226	1750	NE
2,4,5-T	93-76-5	<0.10	---	---	---	---	---	---	---	290	2150	NE
2,4,5-TP (Silvex)	93-72-1	<0.10	---	---	---	---	---	---	---	NE	NE	NE
Bentazon	25057-89-0	<0.10	---	---	---	---	---	---	---	NE	NE	NE
Dicamba	1918-00-9	<0.10	---	---	---	---	---	---	---	NE	NE	NE
MCPA	94-74-6	<0.10	---	---	---	---	---	---	---	16	110	NE
Picloram	1918-02-1	<0.10	---	---	---	---	---	---	---	2000	15000	NE
Triclopyr	55335-06-3	<0.10	---	---	---	---	---	---	---	NE	NE	NE
Chlorothalonil	1897-45-6	<0.05	---	---	---	---	---	---	---	NE	NE	NE
Iprodione	36934-19-7	<0.10	---	---	---	---	---	---	---	NE	NE	NE
Propiconazole	60207-90-1	<0.05	---	---	---	---	---	---	---	NE	NE	NE
Other Parameters (mg/kg)												
Diesel Range Organics (DRO)	---	<9.1	<8.9	<9.5	**605** [T6]	---	---	---	---	NE[c]	NE[c]	NE[c]
Gasoline Range Organics (GRO)	---	<10.6	<10.9	<13.3	<10.2 [G+]	---	---	<10.0	<10.0	NE[c]	NE[c]	NE[c]
Diisopropyl ether	108-20-3	<0.0558	<0.0541	<0.0646	<0.0516	---	---	<0.0500	---	NE	NE	NE
Nitrogen, Kjeldahl, Total	7727-37-9	**124**	---	---	---	---	---	---	---	5,000/1,000*	---	NE
Nitrogen, NO2 plus NO3	14797-55-8	**0.30** [N2]	---	---	---	---	---	---	---	150-200*	---	NE
Total Solids (%)	TSOLIDS	**89.6**	**92.5**	**77.4**	**96.9**	---	---	---	---	NE	NE	NE

Notes

Minnesota Pollution Control Agency (MPCA) SRVs updated June 2009 and SLVs updated June 2013.

mg/kg = Milligrams per kilogram.

< = Not detected at or above the laboratory reporting limit indicated.

--- = Not analyzed or calculated for this parameter or not applicable.

RL = Reporting limits for other parameters that are not listed individually in this table because their concentrations were below reporting limits provided in the laboratory report.

NE = Regulatory limit not established for this parameter.

cPAH = Individual regulatory limit not established for this carcinogenic PAH; included in BaP equivalent calculation.

[a] = Benzo(a)pyrene (BaP) equivalent is calculated based on the concentration and weighted toxicity of cPAHs; MPCA; 2009. If no cPAHs were detected above reasonable laboratory reporting limits the BaP equivalent is reported as 0 mg/kg per MPCA Remediation Division Policy; June 2011.

[b] = Reported result is total chromium, regulatory limit for chromium III and chromium VI are provided.

[c] = DRO/GRO concentrations greater than 100 mg/kg are not suitable for reuse as unregulated fill per MPCA Guidance Document c-rem1-01 "Best Management Practices for the Off-Site Reuse of Unregulated Fill" (February 2012).

*The MDA preliminary generic soil cleanup goal for nitrate-nitite is 150-200 mg/kg, and for TKN is 5,000 mg/kg for the upper 2.5 feet of soil, and 1,000 mg/kg below 2.5 feet.

[1] The continuing calibration for this analyte exceeded 20% difference acceptance criteria for EPA method. Analyte presence below reporting limits in associated samples. No impact to data.

[G+] Late peaks present outside the GRO window.

[L0] Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

[M1] Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

[N2] The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

[R1] RPD value was outside control limits.

[T6] High boiling point hydrocarbons are present in the sample.

Exceeds Residential SRV
Exceeds Industrial SRV
Exceeds Screening SLV
Exceeds 100 mg/kg for DRO/GRO

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Table 4
Soil Analytical Results - Hand Augers in Club House Area
Former Hillcrest Golf Course
Saint Paul, Minnesota
Project B1903316.00

DRAFT

Compound/Parameter	CAS No.	Sample Identifier and Date Collected																			Residential Soil Reference Value (SRV) (mg/kg)	Industrial Soil Reference Value (SRV) (mg/kg)	Screening Soil Leaching Value (SLV) (mg/kg)
		DSS-1 (0-6")	DSS-1 (1-1.5')	DSS-2 (0-6")	DSS-2 (1-1.5')	DSS-3 (0-6")	DSS-4 (0-6")	DSS-4 (1-1.5')	DSS-5 (0-6")	DSS-5 (1-1.5')	DSS-6 (0-6")	DSS-6 (1-1.5')	DSS-7 (0-6")	DSS-7 (1-1.5')	DSS-8 (0-6")	DSS-8 (1-1.5')	DSS-102 DSS-8 (1-1.5)	DSS-9 (0-6")	DSS-9 (1-1.5')			
		07/02/2020	07/02/2020	07/02/2020	07/02/2020	07/02/2020	07/02/2020	07/02/2020	07/02/2020	07/02/2020	07/02/2020	07/02/2020	07/02/2020	07/02/2020	07/02/2020	07/02/2020	07/02/2020	07/02/2020	07/02/2020			
		Shed northwest of clubhouse					Garages west of clubhouse - North garage				Garages west of clubhouse - South garage							North garage				
		North of shed		Directly northwest of shed		East-southeast of shed	Directly northeast of garage		Directly northwest of garage	Directly northwest of garage	Directly northwest of garage		South of garage	South of garage	East of garage			East of garage				
Polycyclic Aromatic Hydrocarbons (PAHs) (mg/kg)																						
Acenaphthene	83-32-9	---	---	<0.057	**0.019**	---	<0.012	<0.012	---	---	---	---	---	---	<0.012	<0.057	**0.016**	---	---	1,200	5,260	81
Acenaphthylene	208-96-8	---	---	**0.53**	**0.22**	---	<0.012	<0.012	---	---	---	---	---	---	<0.012	<0.057	**0.029**	---	---	NE	NE	NE
Anthracene	120-12-7	---	---	**0.45**	**0.2**	---	<0.012	<0.012	---	---	---	---	---	---	<0.012	<0.057	**0.054**	---	---	7,880	45,400	1,300
Benz(a)anthracene	56-55-3	---	---	**1.6**	**0.71**	---	<0.012	<0.012	---	---	---	---	---	---	**0.069**	**0.15**	**0.19**	---	---	cPAH	cPAH	cPAH
Benzo(b)fluoranthene	205-99-2	---	---	**3.0**	**1.4**	---	**0.012**	<0.012	---	---	---	---	---	---	**0.12**	**0.23**	**0.31**	---	---	cPAH	cPAH	cPAH
Benzo(k)fluoranthene	207-08-9	---	---	**0.9**	**0.49**	---	<0.012	<0.012	---	---	---	---	---	---	**0.04**	**0.083**	**0.1**	---	---	cPAH	cPAH	cPAH
Benzo(a)pyrene	50-32-8	---	---	**2.1**	**0.87**	---	<0.012	<0.012	---	---	---	---	---	---	**0.079**	**0.14**	**0.21**	---	---	cPAH	cPAH	cPAH
Benzo(g,h,i)perylene	191-24-2	---	---	**1.7**	**0.71**	---	<0.012	<0.012	---	---	---	---	---	---	**0.059**	**0.12**	**0.16**	---	---	NE	NE	NE
Chrysene	218-01-9	---	---	**1.7**	**0.9**	---	<0.012	<0.012	---	---	---	---	---	---	**0.066**	**0.15**	**0.22**	---	---	cPAH	cPAH	cPAH
Dibenz(a,h)anthracene	53-70-3	---	---	**0.37**	**0.16**	---	<0.012	<0.012	---	---	---	---	---	---	**0.014**	<0.057	**0.041**	---	---	cPAH	cPAH	cPAH
Fluoranthene	206-44-0	---	---	**3.6**	**2.1**	---	**0.014**	<0.012	---	---	---	---	---	---	**0.18**	**0.3**	**0.39**	---	---	1,080	6,800	670
Fluorene	86-73-7	---	---	**0.1**	**0.045**	---	<0.012	<0.012	---	---	---	---	---	---	<0.012	<0.057	**0.016**	---	---	850	4,120	110
Indeno(1,2,3-cd)pyrene	193-39-5	---	---	**1.4**	**0.6**	---	<0.012	<0.012	---	---	---	---	---	---	**0.046**	**0.083**	**0.14**	---	---	cPAH	cPAH	cPAH
Phenanthrene	85-01-8	---	---	**1.7**	**0.84**	---	<0.012	<0.012	---	---	---	---	---	---	**0.053**	**0.12**	**0.23**	---	---	NE	NE	NE
Pyrene	129-00-0	---	---	**3.3**	**1.6**	---	**0.012**	<0.012	---	---	---	---	---	---	**0.13**	**0.24**	**0.34**	---	---	890	5,800	440
All other reported PAHs	---	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	---	---	---
BaP Equivalent[a]	---	**0.0**	**0.0**	**3.0**	**1.3**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.1**	**0.2**	**0.3**	**0.0**	**0.0**	2	23	1.4
Metals (mg/kg)																						
Arsenic, Total	7440-38-2	---	---	**2.7**	**2.7**	---	**5.7**	**5.8**	---	---	---	---	---	---	**2.6**	**2.5**	**3.3**	---	---	9	9	5.8
Barium, Total	7440-39-3	---	---	**44.0**	**51.5**	---	**83.3**	**79.6**	---	---	---	---	---	---	**70.4**	**55.6**	**84.4**	---	---	1,100	18,000	1,700
Cadmium, Total	7440-43-9	---	---	**0.42**	**0.43**	---	<0.17	<0.17	---	---	---	---	---	---	**0.2**	**0.17**	**0.18**	---	---	25	200	8.8
Chromium, Total[b]	7440-47-3	---	---	**13.1**	**14.7**	---	**18.4**	**18.7**	---	---	---	---	---	---	**14.8**	**14.3**	**13.6**	---	---	44,000/87[b]	100,000/650[b]	1,000,000,000/36[b]
Lead, Total	7439-92-1	---	---	**75.2**	**110**	---	**10.1**	**8.0**	---	---	---	---	---	---	**11.4**	**10.2**	**11.8**	---	---	300	700	2,700
Mercury, Total	7439-97-6	**0.37**	**0.38**	**0.38**	**0.31**	**0.11**	**0.08**	**0.062**	**0.21**	**0.06**	**0.076**	**0.11**	**3.3**	**0.3**	**0.31**	**0.3**	**0.38**	**0.52**	**0.099**	3.1	3.1	3.3
Selenium, Total	7782-49-2	---	---	<1.1	<1.0	---	<1.1	<1.1	---	---	---	---	---	---	<1.1	<1.1	<1.1	---	---	160	1,300	2.6
Silver, Total	7440-22-4	---	---	<0.57	<0.52	---	<0.56	<0.56	---	---	---	---	---	---	<0.53	<0.55	<0.57	---	---	160	1,300	7.9

Notes

Minnesota Pollution Control Agency (MPCA) SRVs updated June 2009 and SLVs updated June 2013.

mg/kg = Milligrams per kilogram.

< = Not detected at or above the laboratory reporting limit indicated.

--- = Not analyzed or calculated for this parameter or not applicable.

RL = Reporting limits for other parameters that are not listed individually in this table because their concentrations were below reporting limits provided in the laboratory report.

NE = Regulatory limit not established for this parameter.

cPAH = Individual regulatory limit not established for this carcinogenic PAH; included in BaP equivalent calculation.

[a] = Benzo(a)pyrene (BaP) equivalent is calculated based on the concentration and weighted toxicity of cPAHs; MPCA; 2009. If no cPAHs were detected above reasonable laboratory reporting limits the BaP equivalent is reported as 0 mg/kg per MPCA Remediation Division Policy; June 2011.

[b] = Reported result is total chromium, regulatory limit for chromium III and chromium VI are provided.

[1] [D3] Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

Exceeds Residential SRV
Exceeds Industrial SRV
Exceeds Screening SLV

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Table 4
Soil Analytical Results - Hand Augers in Club House Area
Former Hillcrest Golf Course
Saint Paul, Minnesota
Project B1903316.00

DRAFT

Compound/Parameter	CAS No.	Sample Identifier and Date Collected																	Residential Soil Reference Value (SRV) (mg/kg)	Industrial Soil Reference Value (SRV) (mg/kg)	Screening Soil Leaching Value (SLV) (mg/kg)
		DSS-10 (0-6")	DSS-11 (0-6")	DSS-11 (1-1.5')	DSS-12 (0-6")	DSS-13 (0-6")	DSS-13 (1-1.5')	DSS-14 (0-6")	DSS-14 (1-1.5')	DSS-15 (0-6")	DSS-15 (1-1.5')	DSS-16 (0-6")	DSS-101 DSS-16 (0-6")	DSS-16 (1-1.5')	DSS-17 (0-6')	DSS-17 (1-1.5')	DSS-18 (0-6")	DSS-18 (1-1.5')			
		07/02/2020	07/02/2020	07/02/2020	07/02/2020	07/02/2020	07/02/2020	07/02/2020	07/02/2020	07/02/2020	07/02/2020	07/02/2020	07/02/2020	07/02/2020	07/02/2020	07/02/2020	07/02/2020	07/02/2020			
		Shed west of clubhouse			Clubhouse					Poolhouse		Clubhouse									
		Directly southwest of shed	Directly southeast of shed		Directly NW of clubhouse	West of clubhouse		South-southwest of clubhouse		Directly south of poolhouse		South-southeast of clubhouse			East-southeast of clubhouse		North-northwest of clubhouse				
Polycyclic Aromatic Hydrocarbons (PAHs) (mg/kg)																					
Acenaphthene	83-32-9	---	<0.011	<0.011	---	---	---	---	---	<0.011	<0.011	---	---	---	<0.012	<0.011	---	---	1,200	5,260	81
Acenaphthylene	208-96-8	---	<0.011	<0.011	---	---	---	---	---	<0.011	<0.011	---	---	---	**0.014**	<0.011	---	---	NE	NE	NE
Anthracene	120-12-7	---	<0.011	<0.011	---	---	---	---	---	<0.011	<0.011	---	---	---	**0.033**	<0.011	---	---	7,880	45,400	1,300
Benz(a)anthracene	56-55-3	---	**0.048**	**0.032**	---	---	---	---	---	**0.017**	**0.013**	---	---	---	**0.17**	<0.011	---	---	cPAH	cPAH	cPAH
Benzo(b)fluoranthene	205-99-2	---	**0.08**	**0.056**	---	---	---	---	---	**0.022**	<0.011	---	---	---	**0.21**	<0.011	---	---	cPAH	cPAH	cPAH
Benzo(k)fluoranthene	207-08-9	---	**0.035**	**0.024**	---	---	---	---	---	**0.012**	<0.011	---	---	---	**0.099**	<0.011	---	---	cPAH	cPAH	cPAH
Benzo(a)pyrene	50-32-8	---	**0.056**	**0.041**	---	---	---	---	---	**0.02**	<0.011	---	---	---	**0.15**	<0.011	---	---	cPAH	cPAH	cPAH
Benzo(g,h,i)perylene	191-24-2	---	**0.046**	**0.032**	---	---	---	---	---	**0.013**	<0.011	---	---	---	**0.11**	<0.011	---	---	NE	NE	NE
Chrysene	218-01-9	---	**0.056**	**0.037**	---	---	---	---	---	**0.022**	<0.011	---	---	---	**0.13**	<0.011	---	---	cPAH	cPAH	cPAH
Dibenz(a,h)anthracene	53-70-3	---	<0.011	<0.011	---	---	---	---	---	<0.011	<0.011	---	---	---	**0.028**	<0.011	---	---	cPAH	cPAH	cPAH
Fluoranthene	206-44-0	---	**0.12**	**0.082**	---	---	---	---	---	**0.048**	**0.022**	---	---	---	**0.35**	<0.011	---	---	1,080	6,800	670
Fluorene	86-73-7	---	<0.011	<0.011	---	---	---	---	---	<0.011	<0.011	---	---	---	<0.012	<0.011	---	---	850	4,120	110
Indeno(1,2,3-cd)pyrene	193-39-5	---	**0.033**	**0.025**	---	---	---	---	---	<0.011	<0.011	---	---	---	**0.09**	<0.011	---	---	cPAH	cPAH	cPAH
Phenanthrene	85-01-8	---	**0.035**	**0.027**	---	---	---	---	---	**0.027**	**0.016**	---	---	---	**0.092**	<0.011	---	---	NE	NE	NE
Pyrene	129-00-0	---	**0.094**	**0.061**	---	---	---	---	---	**0.033**	**0.019**	---	---	---	**0.26**	<0.011	---	---	890	5,800	440
All other reported PAHs	---	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	---	---	---
BaP Equivalent[a]	---	**0.0**	**0.1**	**0.1**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.2**	**0.0**	**0.0**	**0.0**	2	23	1.4
Metals (mg/kg)																					
Arsenic, Total	7440-38-2	---	**2.3**	**2.3**	---	---	---	---	---	**2.1**	**2.4**	---	---	---	**3.6**	**2.3**	---	---	9	9	5.8
Barium, Total	7440-39-3	---	**19.9**	**51.0**	---	---	---	---	---	**47.5**	**47.3**	---	---	---	**67.6**	**46.9**	---	---	1,100	18,000	1,700
Cadmium, Total	7440-43-9	---	**0.17**	<0.16	---	---	---	---	---	<0.16	<0.16	---	---	---	**0.32**	**0.38**	---	---	25	200	8.8
Chromium, Total[b]	7440-47-3	---	**5.8**	**15.2**	---	---	---	---	---	**34.3**	**17.9**	---	---	---	**18.0**	**17.6**	---	---	44,000/87[b]	100,000/650[b]	1,000,000,000/36[b]
Lead, Total	7439-92-1	---	**9.5**	**7.4**	---	---	---	---	---	**8.7**	**6.2**	---	---	---	**13.7**	**4.9**	---	---	300	700	2,700
Mercury, Total	7439-97-6	**0.16**	**0.29**	**0.089**	**0.042**	**2.0**	**1.7**	**4.1**	**0.91**	**0.31**	**0.24**	**1.6**	**1.1**	**0.11**	**0.79**	**0.062**	**0.62**	**0.89**	3.1	3.1	3.3
Selenium, Total	7782-49-2	---	<5.1 [1]	<1.1	---	---	---	---	---	<1.0	<1.1	---	---	---	<1.2	<1.1	---	---	160	1,300	2.6
Silver, Total	7440-22-4	---	<0.51	<0.53	---	---	---	---	---	<0.52	<0.54	---	---	---	<0.58	<0.54	---	---	160	1,300	7.9

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Table 5: Agricultural Soil Boring
Soil Analytical Results
Former Hillcrest Golf Course
Saint Paul, Minnesota
Project B1903316.00

DRAFT

Compound/Parameter	CAS No.	Sample Identifier and Date Collected																															Residential Soil Reference Value (SRV) (mg/kg)	Industrial Soil Reference Value (SRV) (mg/kg)	Screening Soil Leaching Value (SLV) (mg/kg)
		ASB-1 (0-0.5)	ASB-1 (2-2.5)	ASB-2 (0-0.5)	ASB-2 (2-2.5)	ASB-3 (0-0.5)	ASB-3 (2-2.5)	ASB-3 (4-4.5)	ASB-4 (0-0.5)	ASB-4 (2-2.5)	ASB-5C (0-0.5)	ASB-5C (2-2.5)	ASB-6c (0-0.5)	ASB-6c (2-2.5)	DUP-17-06222020 ASB-6c (2-2.5)	ASB-7 (0-0.5)	ASB-7 (2-2.5)	ASB-8c (0-0.5)	ASB-8c (2-2.5)	DUP-18-06222020 ASB-8c (2-2.5)	ASB-8c (4-4.5)	ASB-9C (0-0.5)	ASB-9C (2-2.5)	ASB-9C (4-4.5)	ASB-10 (2-2.5)	ASB-11C (0-0.5)	ASB-11C (2-2.5)	ASB-12C (0-0.5)	ASB-12C (2-2.5)	ASB-13c (0-0.5)	ASB-13c (2-2.5)	DUP-16-06222020 ASB-13c (2-2.5)	ASB-13c (4-4.5)			
		06/22/2020	06/22/2020	06/22/2020	06/22/2020	06/22/2020	06/22/2020	06/22/2020	06/22/2020	06/22/2020	06/23/2020	06/23/2020	06/22/2020	06/22/2020	06/22/2020	06/22/2020	06/22/2020	06/22/2020	06/22/2020	06/22/2020	06/22/2020	06/23/2020	06/23/2020	06/23/2020	06/22/2020	06/23/2020	06/23/2020	06/23/2020	06/23/2020	06/22/2020	06/22/2020	06/22/2020	06/22/2020			
		Agricultural Chemical Storage Building (Interior)				Agricultural Chemical Storage			Exterior Chemical Loading Areas		Agricultural Chemical Storage Shed					Agricultural Chemical Mixing Area										Maintenance building (Interior)	Maintenance building (Exterior)			Water fill area						
		Large crack in floor of west bay		Large crack in floor of east bay		Large crack in exterior asphalt loading area (South of Agricultural Chemical Storage Building)			Cracked asphalt		Outlet for drain in concrete loading pad		Grass area immediately adjacent to concrete loading pad			Inlet to drainage swale adjacent to mixing area		Main mixing area				Drainage area			Interior crack in slab where agricultural chemical storage occurred	Loading door on west side of building		Loading door on south side of building								
Volatile Organic Compounds (VOCs) (mg/kg)																																			
All reported VOCs	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<RL	<RL	---	---	---	---	---	---	---	---	---	---
Metals (mg/kg)																																			
Arsenic, Total	7440-38-2	---	**2.4**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1.4**	---	---	---	---	---	---	---	---	9	9	5.8
Barium, Total	7440-39-3	---	**57.2**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**61.2** [M1]	---	---	---	---	---	---	---	---	1,100	18,000	1,700
Cadmium, Total	7440-43-9	---	<0.16	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.17	---	---	---	---	---	---	---	---	25	200	8.8
Chromium, Total[a]	7440-47-3	---	**20.4**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**20.9**	---	---	---	---	---	---	---	---	44,000/87[a]	100,000/650[a]	1,000,000,000/36[a]
Lead, Total	7439-92-1	---	**5.0**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**4.9**	---	---	---	---	---	---	---	---	300	700	2,700
Mercury, Total	7439-97-6	**0.042**	<0.022	**0.024**	<0.022	**0.15**	**0.048**	---	**<0.018**	<0.022	<0.023	<0.024	**0.21**	<0.021	<0.024	**0.036**	**0.048**	**1.1**	**0.58**	**0.14**	**0.037**	**0.61**	**0.78**	---	<0.022	---	---	---	---	**14.6**	**1.3**	**4.2**	**0.16**	3.1	3.1	3.3
Selenium, Total	7782-49-2	---	<1.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1.1	---	---	---	---	---	---	---	---	160	1,300	2.6
Silver, Total	7440-22-4	---	<0.54	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.56	---	---	---	---	---	---	---	---	160	1,300	7.9
List 2 Pesticides (mg/kg)																																			
2,4-D	94-75-7	---	---	---	---	---	---	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	---	<0.10	<0.10	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	---	285	2200	NE
2,4-DB	94-82-6	---	---	---	---	---	---	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	---	<0.10	<0.10	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	---	226	1750	NE
2,4,5-T	93-76-5	---	---	---	---	---	---	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	---	<0.10	<0.10	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	---	290	2150	NE
2,4,5-TP (Silvex)	93-72-1	---	---	---	---	---	---	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	---	<0.10	<0.10	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	---	NE	NE	NE
Bentazon	25057-89-0	---	---	---	---	---	---	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	---	<0.10	<0.10	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	---	NE	NE	NE
Dicamba	1918-00-9	---	---	---	---	---	---	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	---	<0.10	<0.10	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	---	NE	NE	NE
MCPA	94-74-6	---	---	---	---	---	---	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	---	<0.10	<0.10	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	---	16	110	NE
Picloram	1918-02-1	---	---	---	---	---	---	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	---	<0.10	<0.10	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	---	2000	15000	NE
Triclopyr	55335-06-3	---	---	---	---	---	---	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	---	<0.10	<0.10	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	---	NE	NE	NE
Chlorothalonil	1897-45-6	---	---	---	---	---	---	---	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	---	<0.05	<0.05	---	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	---	NE	NE	NE
Iprodione	36934-19-7	---	---	---	---	---	---	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	---	<0.10	<0.10	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	---	NE	NE	NE
Propiconazole	60207-90-1	---	---	---	---	---	---	---	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	---	<0.05	<0.05	---	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	---	NE	NE	NE
Other Parameters (mg/kg)																																			
Diesel Range Organics (DRO)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**35.0** [N2]	---	---	---	---	---	---	---	---	---	NE[b]	NE[b]	NE[b]
Gasoline Range Organics (GRO)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	NE[b]	NE[b]	NE[b]
Diisopropyl ether	108-20-3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.0531	<0.0582	---	---	---	---	---	---	---	---	NE	NE	NE
Nitrogen, Kjeldahl, Total	7727-37-9	**351**	**298**	**448**	**355**	**340**	**2,640**	**332**	---	---	---	---	---	---	---	**2,060**	**515**	**1,370**	**2,170**	**807**	---	**483**	**793**	---	---	**1,060 [M1][R1]**	**3,850** [N6]	**197**	**638**	---	---	---	---	5,000/1,000*	---	NE
Nitrogen, NO2 plus NO3	14797-55-8	**1.1 [N2]**	<0.23 [R2]	**1.7 [N2]**	**0.38** [N2]	**1.1 [N2]**	**0.28** [N2]	---	---	---	---	---	---	---	---	**10.4 [N2]**	**5.4** [N2]	**0.97 [N2]**	**0.31** [N2]	**0.31** [N2]	---	**0.40 [N2]**	**0.44** [N2]	---	---	**0.25 [N2]**	<0.28 [R2]	**0.25 [N2]**	<0.22 [N2]	---	---	---	---	150-200*	---	NE
Total Solids (%)	TSOLIDS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**94.1**	**86.0**	---	---	---	---	---	---	---	---	NE	NE	NE

Notes

Minnesota Pollution Control Agency (MPCA) SRVs updated June 2009 and SLVs updated June 2013.

mg/kg = Milligrams per kilogram.

< = Not detected at or above the laboratory reporting limit indicated.

--- = Not analyzed or calculated for this parameter or not applicable.

RL = Reporting limits for other parameters that are not listed individually in this table because their concentrations were below reporting limits provided in the laboratory report.

NE = Regulatory limit not established for this parameter.

[a] = Reported result is total chromium, regulatory limit for chromium III and chromium VI are provided.

[b] = DRO/GRO concentrations greater than 100 mg/kg are not suitable for reuse as unregulated fill per MPCA Guidance Document c-rem1-01 "Best Management Practices for the Off-Site Reuse of Unregulated Fill" (February 2012).

*The MDA preliminary generic soil cleanup goal for nitrate-nitrite is 150-200 mg/kg, and for TKN is 5,000 mg/kg for the upper 2.5 feet of soil, and 1,000 mg/kg below 2.5 feet.

[M1] Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

[M6] Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

Sample was received or analysis requested beyond the recognized method holding time.

[N2] The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

[R1] RPD value was outside control limits.

Exceeds Residential SRV
Exceeds Industrial SRV
Exceeds Screening SLV

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Table 6: Test Trenches
Soil Analytical Results
Former Hillcrest Golf Course
Saint Paul, Minnesota
Project B1903316.00

DRAFT

Compound/Parameter	CAS No.	Sample Identifier and Date Collected														Residential Soil Reference Value (SRV) (mg/kg)	Industrial Soil Reference Value (SRV) (mg/kg)	Screening Soil Leaching Value (SLV) (mg/kg)
		TT-1 (2'-4')	TT-1 Hotspot (2-4)	TT-1 (6-7)	TT-2 (2-3')	TT-3 (1-2)	TT-4 (7-8)	TT-5 (2-3)	TT-6 (8-9)	DUP-19-06232020 TT-6 (8-9)	TT-7 (3-5)	TT-9 (3-5)	MeOH Trip Blank	MeOH Trip Blank	MeOH Trip Blank			
		06/24/2020	06/24/2020	06/24/2020	06/24/2020	06/24/2020	06/23/2020	06/23/2020	06/23/2020	06/23/2020	06/25/2020	06/25/2020	06/23/2020	06/24/2020	06/24/2020			
		Former Pool House - South of Club House				Former Tennis Courts (south of Pool House)	Raised Berm - Maintenance Area				Former Pool House	Former Tennis Courts						
		Soil with debris (concrete, asphalt, plastic)	Odorous soil found near buried paint can	Rock base beneath buried concrete slab	Sandy clay fill	Sandy, clayey gravel, fill with weathered Class V gravel	Soil with debris (metal, ash, glass)	Soil with debris (glass, golf ball)	Soil with debris (concrete, brick, clay, plastic, tile)		Soil with debris (red asphalt, plastic, concrete, apparent Class 5 aggregate)	Soil with debris (red asphalt, plastic, concrete, apparent Class 5 aggregate)	Field QAQC Sample - Lab Report 10522687	Field QAQC Sample - Lab Report 10522854	Field QAQC Sample Lab Report 10523060			
Volatile Organic Compounds (VOCs) (mg/kg)																		
All reported VOCs	---	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	---	---	---
Polycyclic Aromatic Hydrocarbons (PAHs) (mg/kg)																		
Fluoranthene	206-44-0	<0.0109	**0.0129**	**0.0114**	<0.0113	<0.0112	**0.245**	<0.0113	**0.0123**	<0.0114	<0.0113	**0.0158**	---	---	---	1,080	6,800	670
Naphthalene	91-20-3	<0.0109	**0.0134**	<0.0111	<0.0113	<0.0112	<0.180	<0.0113	<0.0115	<0.0114	<0.0113	<0.0111	---	---	---	10	28	4.5
Pyrene	129-00-0	<0.0109	**0.0124**	<0.0111	<0.0113	<0.0112	<0.180	<0.0113	**0.0118**	<0.0114	<0.0113	**0.0165**	---	---	---	890	5,800	440
All other reported PAHs	---	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	---	---	---
BaP Equivalent[c]	---	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	2	23	1.4
Metals (mg/kg)																		
Arsenic, Total	7440-38-2	**1.5**	**2.0**	**2.4**	**1.8**	**1.8**	**4.3**	**3.4**	**2.9**	**3.8**	**2.5**	**2.8**	---	---	---	9	9	5.8
Barium, Total	7440-39-3	**33.1**	**45.2**	**36.6**	**31.4**	**57.9**	**213**	**43.6**	**67.4**	**104**	**44.2**	**51.0**	---	---	---	1,100	18,000	1,700
Cadmium, Total	7440-43-9	<0.16	<0.16	<0.16	<0.16	<0.16	**2.0**	**0.23**	**0.73**	**0.71**	**0.18**	<0.16	---	---	---	25	200	8.8
Chromium, Total[e]	7440-47-3	**18.9**	**18.2**	**12.8**	**10.7**	**17.4**	**21.8**	**13.1**	**32.9**	**25.8**	**16.5**	**16.8**	---	---	---	44,000/87[e]	100,000/650[e]	1,000,000,000/36[e]
Lead, Total	7439-92-1	**3.3**	**6.3**	**9.1**	**4.9**	**4.6**	**622**	**27.4**	**13.1**	**15.7**	**5.2**	**4.6**	---	---	---	300	700	2,700
Mercury, Total	7439-97-6	<0.019	**0.064**	**0.45**	<0.022	**0.041**	**1.2**	**1.2**	**4.6**	**7.2**	**0.059**	**0.06**	---	---	---	3.1	3.1	3.3
Selenium, Total	7782-49-2	<1.1	<1.1	<1.1	<1.1	<1.1	<1.7	<1.1	<1.1	<1.1	<1.1	<1.0	---	---	---	160	1,300	2.6
Silver, Total	7440-22-4	<0.53	<0.53	<0.54	<0.53	<0.55	<0.87	<0.55	<0.56	<0.54	<0.55	<0.52	---	---	---	160	1,300	7.9
Other Parameters (mg/kg)																		
Diesel Range Organics (DRO)	---	<8.5	**48.6** [T6]	<9.5	---	---	---	---	---	---	<9.4	---	---	---	---	NE[f]	NE[f]	NE[f]
Gasoline Range Organics (GRO)	---	<10.6	**199** [G+]	<10.9	---	---	---	---	---	---	---	---	---	<10.0	<10.0	NE[f]	NE[f]	NE[f]
Diisopropyl ether	108-20-3	<0.0550	<0.0574	---	<0.0558	<0.0552	<0.0977	<0.0574	<0.0568	<0.0577	---	---	<0.0500	<0.0500	---	NE	NE	NE
Total Solids (%)	TSOLIDS	**90.9**	**87.1**	---	**89.5**	**90.6**	**51.2**	**87.1**	**88.0**	**86.7**	---	---	---	---	---	NE	NE	NE

Notes

Minnesota Pollution Control Agency (MPCA) SRVs updated June 2009 and SLVs updated June 2013.

mg/kg = Milligrams per kilogram.

< = Not detected at or above the laboratory reporting limit indicated.

--- = Not analyzed or calculated for this parameter or not applicable.

RL = Reporting limits for other parameters that are not listed individually in this table because their concentrations were below reporting limits provided in the laboratory report.

NE = Regulatory limit not established for this parameter.

cPAH = Individual regulatory limit not established for this carcinogenic PAH; included in BaP equivalent calculation.

[c] = Benzo(a)pyrene (BaP) equivalent is calculated based on the concentration and weighted toxicity of cPAHs; MPCA; 2009. If no cPAHs were detected above reasonable laboratory reporting limits the BaP equivalent is reported as 0 mg/kg per MPCA Remediation Division Policy; June 2011.

[e] = Reported result is total chromium, regulatory limit for chromium III and chromium VI are provided.

[f] = DRO/GRO concentrations greater than 100 mg/kg are not suitable for reuse as unregulated fill per MPCA Guidance Document c-rem1-01 "Best Management Practices for the Off-Site Reuse of Unregulated Fill" (February 2012).

[1] The continuing calibration for this analyte exceeded 20% difference acceptance criteria for EPA method. Analyte presence below reporting limits in associated samples. No impact to data.

[CC] The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The result may be biased.

[G+] Late peaks present outside the GRO window.

[L0] Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

[M1] Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

[M6] Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

[R1] RPD value was outside control limits.

[T6] High boiling point hydrocarbons are present in the sample.

Exceeds Residential SRV
Exceeds Industrial SRV
Exceeds Screening SLV
Exceeds 100 mg/kg for DRO/GRO

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Table 7
Soil Arsenic and Mercury Analytical Results - All Data
Former Hillcrest Golf Course
Saint Paul, Minnesota
Project B1903316.00

Compound/Parameter					Arsenic, Total (mg/kg)	Mercury, Total (mg/kg)
CAS No.					7440-38-2	7439-97-6
Sample Identifier, Date Collected, and Location Description	SS-1 (0-0.5)	04/19/2019	8th Hole	Green	---	**18.6**
	SS-1B (0-0.5)	6/7/2020			**117**	**38.2**
	SS-1B (1-1.5)	6/7/2020			**29.1**	**11.6**
	SS-1C (0-0.5)	6/7/2020		Rough adjacent to Green	**3.2**	**0.08**
	SS-1C (1-1.5)	6/7/2020			**3.7**	**0.057**
	SS-1D (0-0.5)	6/7/2020	9th Hole	Rough near Sidewalk	---	**0.039**
	SS-1D (1-1.5)	6/7/2020			---	**0.028**
	SS-1E (0-0.5)	6/7/2020		Tee Box	---	**3.9**
	SS-1E (1-1.5)	6/7/2020			---	**0.11**
	SS-1F (0-0.5)	6/7/2020	8th Hole	Rough near Sidewalk	**7.4**	**6.6**
	SS-1F (1-1.5)	6/7/2020			**2.9**	**0.057**
	SS-1G (0-0.5)	6/7/2020		Sand Trap	---	<0.022
	SS-1G (1-1.5)	6/7/2020			---	**0.028**
	SS-1H (0-0.5)	6/7/2020		Rough adjacent to Sand Trap	---	**0.13**
	SS-1H (1-1.5)	6/7/2020			---	<0.021
	SS-1I (0-0.5)	6/7/2020		Fairway	---	**6.7** [M6]
	SS-1I (1-1.5)	6/7/2020			---	**0.2**
	SS-1J (0-0.5)	6/7/2020	9th Hole	Tee Box	---	**5.1**
	SS-1J (1-1.5)	6/7/2020			---	**0.087**
	SS-1K (0-0.5)	6/7/2020		Rough adjacent to Tee Box	---	**1.1**
	SS-1K (1-1.5)	6/7/2020			---	**0.1**
	SS-2 (0-0.5)	04/19/2019	Practice Green	Near Driving Range	---	**0.089**
	SS-3 (0-0.5)	04/19/2019	13th Hole	Green	---	**43.4**
	SS-3B (0-0.5)	05/01/2019		North Fringe of Green	---	**17.8**
	SS-3C (0-0.5)	05/01/2019		South Fringe of Green	---	**144**
	SS-3D (0-0.5)	05/01/2019		10 ft South of Fringe of Green	---	**113**
	SS-3E (0-0.5)	05/10/2019		20 ft South of Fringe of Green	---	**15.1**
	SS-3F (0-0.5)	05/10/2019		10 ft North of Fringe of Green	---	**9.9**
	SS-3G (0-0.5)	6/9/2020		Sand Trap	---	**0.15**
	SS-3G (1-1.5)	6/9/2020			---	<0.022
	SS-3H (0-0.5)	6/9/2020		Fringe of Green	---	**130**
	SS-3H (1-1.5)	6/9/2020			---	**1.8**
	SS-3I (0-0.5)	6/9/2020		Rough adjacent to Green	---	**0.92**
	SS-3I (1-1.5)	6/9/2020			---	**0.051**
	SS-3J (0-0.5)	6/9/2020		Fairway	---	**4.0**
	SS-3J (1-1.5)	6/9/2020			---	**0.14**
	SS-3K (0-0.5)	6/9/2020		Rough	---	**0.9**
	SS-3K (1-1.5)	6/9/2020			---	**0.1**
	SS-3L (0-0.5)	6/9/2020		Rough	---	**1.4**
	SS-3L (1-1.5)	6/9/2020			---	**0.054**
	SS-3M (0-0.5)	6/9/2020		Fairway	---	**1.5**
	Dup-4-06092020 (SS-3M (0-0.5)	6/9/2020			---	**1.2**
	SS-3M (1-1.5)	6/9/2020			---	**0.043**
	SS-4 (0-0.5)	04/19/2019	4th Hole	Green	---	**21.1**
	SS-4B (0-0.5)	6/11/2020		Fringe of Green	---	**46.0**
	SS-4B (1-1.5)	6/11/2020			---	**0.27**
	SS-4C (0-0.5)	6/11/2020		Rough	---	**2.5** [M1]
	Dup-11-06112020 (SS-4C 0-0.5)	6/11/2020			---	**2.1**
	SS-4C (1-1.5)	6/11/2020			---	**0.24**
	SS-4D (0-0.5)	6/11/2020		Fringe of Fairway	---	**3.6**
	SS-4D (1-1.5)	6/11/2020			---	**0.046**
	SS-4E (0-0.5)	6/11/2020		Fairway	---	**3.4**
	SS-4E (1-1.5)	6/11/2020			---	**0.12**
	SS-4F (0-0.5)	6/11/2020		Fringe of Fairway	---	**0.13**
	SS-4F (1-1.5)	6/11/2020			---	<0.023
	SS-5 (0-0.5)	6/12/2020	5th Hole	Green	---	**45.3**
	SS-5A (0-0.5)	6/12/2020		East Fringe of Green	---	**6.5**
	SS-5B (0-0.5)	6/12/2020		West Fringe of Green	---	**46.3**
	SS-5C (0-0.5)	6/12/2020		10 ft West of Fringe of Green	---	**8.2**
	SS-5D (0-0.5)	6/12/2020		Fairway	---	**5.6**
	SS-5D (1-1.5)	6/12/2020			---	**0.035**
	SS-5E (0-0.5)	6/12/2020		Fairway	---	**2.3**
	SS-5E (1-1.5)	6/12/2020			---	**0.053**
	SS-5F (0-0.5)	6/12/2020		Rough	---	**1.9**
	Dup-13-06122020 (SS-5F (0-0.5)	6/12/2020			---	**2.0**
	SS-5F (1-1.5)	6/12/2020			---	<0.019
	SS-5G (0-0.5)	6/12/2020		Fringe of Green	---	**33.5**
	SS-5G (1-1.5)	6/12/2020			---	**0.066**
	SS-5H (0-0.5)	6/12/2020		Sand Trap	---	<0.021
	SS-5H (1-1.5)	6/12/2020			---	**0.025**
	SS-5I (0-0.5)	6/12/2020		Rough	---	**1.3**
	SS-5I (1-1.5)	6/12/2020			---	**0.11**
	SS-5J (0-0.5)	6/12/2020	6th Hole	Tee Box	---	**5.5**
	SS-5J (1-1.5)	6/12/2020			---	**2.8**
	SS-5K (0-0.5)	6/12/2020		Tee Box	---	**0.055** [M1]
	Dup-14-06122020 (SS-5K (0-0.5)	6/12/2020			---	**0.053**
	SS-5K (1-1.5)	6/12/2020			---	**0.24**
	SS-5L (0-0.5)	6/12/2020		Rough	---	**0.16**
	SS-5L (1-1.5)	6/12/2020			---	<0.022
	SS-5M (0-0.5)	6/12/2020		Drainage Area adjacent to Tee Box	---	**0.13**
	SS-5M (1-1.5)	6/12/2020			---	**0.3**
Residential Soil Reference Value (SRV) (mg/kg)					9	3.1
Industrial Soil Reference Value (SRV) (mg/kg)					9	3.1
Screening Soil Leaching Value (SLV) (mg/kg)					5.8	3.3

Notes

Minnesota Pollution Control Agency (MPCA) SRVs updated June 2009 and SLVs updated June 2013.

mg/kg = Milligrams per kilogram.

< = Not detected at or above the laboratory reporting limit indicated.

--- = Not analyzed or calculated for this parameter or not applicable.

[a] = Samples SS-21C (0-0.5) and SS-21C (1-1.5) were mislabeled by the lab as SS-21K (0-0.5) and SS-21K (1-1.5), respectively.

[M1] Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

[M6] Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

Exceeds Residential/Industrial SRV

Table 7
Soil Arsenic and Mercury Analytical Results - All Data
Former Hillcrest Golf Course
Saint Paul, Minnesota
Project B1903316.00

Compound/Parameter					Arsenic, Total (mg/kg)	Mercury, Total (mg/kg)
CAS No.					7440-38-2	7439-97-6
Sample Identifier, Date Collected, and Location Description	SS-6 (0-1)	04/19/2019	Maintenance Building	South of Wash Out Area	**2.7**	**2.8**
	SS-7 (0-1)	04/19/2019	Fertilizer Storage Building	Northwest corner	**2.7**	**2.8**
	SS-8 (0-0.5)	05/01/2019	10th Hole	Tee Box	---	**6.8**
	SS-8 (0-0.5)	05/10/2019	10th Hole		---	**0.030**
	SS-9 (0-0.5)	05/01/2019	14th Hole	Tee Box	---	**0.45**
	SS-10 (0-0.5)	05/01/2019	13th Hole	Fairway - Low Area	---	**4.7**
	SS-10B (0-0.5)	6/9/2020		Fairway	---	**3.7**
	SS-10B (1-1.5)	6/9/2020			---	**0.04**
	SS-10C (0-0.5)	6/9/2020		Fringe of Fairway	---	**1.7**
	SS-10C (1-1.5)	6/9/2020			---	<0.023
	SS-10D (0-0.5)	6/9/2020		Rough	---	**0.87**
	SS-10D (1-1.5)	6/9/2020			---	**0.071**
	SS-10E (0-0.5)	6/9/2020	10th Hole	Rough	---	**0.22**
	SS-10E (1-1.5)	6/9/2020			---	<0.022
	SS-10F (0-0.5)	6/9/2020		Fringe of Fairway	---	**2.3**
	SS-10F (1-1.5)	6/9/2020			---	**0.22**
	Dup-5-06092020 (SS-10F (1-1.5)	6/9/2020			---	**0.61**
	SS-10G (0-0.5)	6/9/2020		Fairway	---	**2.8**
	SS-10G (1-1.5)	6/9/2020			---	**0.57**
	SS-10H (0-0.5)	6/9/2020		Fairway	---	**3.5**
	SS-10H (1-1.5)	6/9/2020			---	<0.023
	SS-11 (0-0.5)	5/10/2019	11th Hole	Tee Box	---	**5.2**
	SS-12 (0-0.5)	5/10/2019	18th Hole	Fairway	---	**5.0**
	SS-13 (0-0.5)	5/10/2019	11th Hole	Fairway	---	**5.1**
	SS-13B (0-0.5)	6/9/2020	13th Hole	Fairway	---	**3.0**
	SS-13B (1-1.5)	6/9/2020			---	**0.08**
	SS-13C (0-0.5)	6/9/2020		Rough	---	<0.023
	SS-13C (1-1.5)	6/9/2020			---	**0.087**
	SS-14 (0-0.5)	5/10/2019		Fairway - Low Area	---	**4.4**
	SS-14B (0-0.5)	6/9/2020	11th Hole	Fairway	---	**4.0**
	SS-14B (1-1.5)	6/9/2020			---	**0.14**
	SS-14C (0-0.5)	6/9/2020		Fringe of Fairway	---	**1.7**
	SS-14C (1-1.5)	6/9/2020			---	**0.2**
	SS-14D (0-0.5)	6/9/2020		Rough	---	**0.093**
	SS-14D (1-1.5)	6/9/2020			---	<0.024
	SS-15 (0-0.5)	5/10/2019	5th Hole	Tee Box	---	**7.0**
	SS-16 (0-0.5)	5/10/2019		Fairway	---	**4.5**
	SS-16B (0-0.5)	6/11/2020		Fairway	---	**1.1**
	SS-16B (1-1.5)	6/11/2020			---	**0.2**
	SS-16C (0-0.5)	6/11/2020		Fringe of Fairway	---	**1.2**
	SS-16C (1-1.5)	6/11/2020			---	<0.023
	SS-16D (0-0.5)	6/11/2020		Rough	---	**1.2**
	SS-16D (1-1.5)	6/11/2020			---	**0.13**
	SS-17 (0-0.5)	6/10/2020	16th Hole	Rough next to sand trap	---	**0.65**
	SS-17 (1-1.5)	6/10/2020			---	**10.0**
	SS-17B (0-0.5)	6/10/2020		Sand Trap	---	**0.05**
	SS-17B (1-1.5)	6/10/2020			---	**0.023**
	SS-17C (0-0.5)	6/10/2020		Rough	---	**0.088**
	SS-17C (1-1.5)	6/10/2020			---	**0.041**
	SS-17D (0-0.5)	6/10/2020	15th Hole	Rough	---	**0.39**
	SS-17D (1-1.5)	6/10/2020			---	**0.028**
	SS-17E (0-0.5)	6/10/2020		Fairway	---	**2.4**
	SS-17E (1-1.5)	6/10/2020			---	**0.022**
	SS-17F (0-0.5)	6/10/2020		Rough	---	**0.16**
	SS-17F (1-1.5)	6/10/2020			---	<0.023
	SS-17G (0-0.5)	6/10/2020	12th Hole	Fairway	---	**16.5**
	SS-17G (1-1.5)	6/10/2020			---	**0.21**
	SS-17H (0-0.5)	6/10/2020		Rough near Sidewalk	---	**1.0**
	SS-17H (1-1.5)	6/10/2020			---	**0.12**
	Dup-9-06102020 (SS-17H (1-1.5)	6/10/2020			---	**0.12**
	SS-17I (0-0.5)	6/10/2020	11th Hole	Fringe of Fairway	---	**3.3**
	SS-17I (1-1.5)	6/10/2020			---	**0.56**
	SS-17J (0-0.5)	6/10/2020		Fairway	---	**3.8**
	SS-17J (1-1.5)	6/10/2020			---	**0.16**
	SS-18 (0-0.5)	6/7/2020	1st Hole	Rough	---	**0.48**
	SS-18 (1-1.5)	6/7/2020			---	**0.054**
	SS-18B (0-0.5)	6/7/2020		Fringe of Fairway	---	**3.1**
	SS-18B (1-1.5)	6/7/2020			---	**2.7**
	SS-18C (0-0.5)	6/7/2020		Fairway	---	**4.1**
	Dup-1-06072020 (SS-18C (0-0.5)	6/7/2020			---	**0.85**
	SS-18C (1-1.5)	6/7/2020			---	**0.11**
	SS-18D (0-0.5)	6/7/2020		Fringe of Fairway	---	**0.8**
	SS-18D (1-1.5)	6/7/2020			---	**0.042**
	SS-18E (0-0.5)	6/7/2020		Rough	---	**0.13**
	SS-18E (1-1.5)	6/7/2020			---	<0.021
Residential Soil Reference Value (SRV) (mg/kg)					9	3.1
Industrial Soil Reference Value (SRV) (mg/kg)					9	3.1
Screening Soil Leaching Value (SLV) (mg/kg)					5.8	3.3

Notes

Minnesota Pollution Control Agency (MPCA) SRVs updated June 2009 and SLVs updated June 2013.

mg/kg = Milligrams per kilogram.

< = Not detected at or above the laboratory reporting limit indicated.

--- = Not analyzed or calculated for this parameter or not applicable.

[a] = Samples SS-21C (0-0.5) and SS-21C (1-1.5) were mislabeled by the lab as SS-21K (0-0.5) and SS-21K (1-1.5), respectively.

[M1] Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

[M6] Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

Exceeds Residential/Industrial SRV

Table 7
Soil Arsenic and Mercury Analytical Results - All Data
Former Hillcrest Golf Course
Saint Paul, Minnesota
Project B1903316.00

Compound/Parameter					Arsenic, Total (mg/kg)	Mercury, Total (mg/kg)
CAS No.					7440-38-2	7439-97-6
Sample Identifier, Date Collected, and Location Description	SS-19 (0-0.5)	6/10/2020	3rd Hole	Rough adjacent to Fairway	---	**1.1**
	SS-19 (1-1.5)	6/10/2020			---	**0.12**
	SS-19B (0-0.5)	6/10/2020		Rough adjacent to Fairway	---	**3.1**
	SS-19B (1-1.5)	6/10/2020			---	**0.65**
	SS-19C (0-0.5)	6/10/2020		Fairway	---	**3.0**
	SS-19C (1-1.5)	6/10/2020			---	**0.3**
	SS-19D (0-0.5)	6/10/2020		Fairway	---	**2.0**
	SS-19D (1-1.5)	6/10/2020			---	**0.092**
	SS-19E (0-0.5)	6/10/2020		Fringe of Fairway	---	**0.67**
	SS-19E (1-1.5)	6/10/2020			---	<0.021
	SS-19F (0-0.5)	6/10/2020		Rough	---	**0.35**
	Dup-8-06102020 (SS-19F (0-0.5)	6/10/2020			---	**0.35**
	SS-19F (1-1.5)	6/10/2020			---	**0.047**
	SS-20 (0-0.5)	6/9/2020	14th Hole	Tee Box	---	**0.021**
	SS-20 (1-1.5)	6/9/2020			---	**0.07**
	SS-20B (0-0.5)	6/9/2020		Rough adjacent to Tee Box	---	**0.33**
	Dup-3-06092020 (SS-20B (0-0.5)	6/9/2020			---	**0.26**
	SS-20B (1-1.5)	6/9/2020			---	**0.11**
	SS-20C (0-0.5)	6/9/2020		Tee Box	---	**6.8**
	SS-20C (1-1.5)	6/9/2020			---	**0.023**
	SS-20D (0-0.5)	6/9/2020		Rough adjacent to Tee Box	---	**2.8**
	SS-20D (1-1.5)	6/9/2020			---	**0.068** [M1]
	SS-21 (0-0.5)	6/11/2020	15th Hole	Fairway	---	**4.5**
	SS-21 (1-1.5)	6/11/2020			---	**0.031**
	SS-21B (0-0.5)	6/11/2020		Rough	---	**0.1**
	SS-21B (1-1.5)	6/11/2020			---	<0.023
	SS-21C (0-0.5)[a]	6/11/2020	16th Hole	Tee Box	---	**0.6**
	SS-21C (1-1.5)[a]	6/11/2020			---	**0.062**
	SS-21D (0-0.5)	6/11/2020		Tee Box	---	**0.53**
	Dup-10-06112020 (SS-21D (0-0.5)	6/11/2020			---	**0.54**
	SS-21D (1-1.5)	6/11/2020			---	**0.19**
	SS-21E (0-0.5)	6/11/2020		Tee Box	---	**0.047**
	SS-21E (1-1.5)	6/11/2020			---	<0.022
	SS-21F (0-0.5)	6/11/2020		Tee Box	---	**0.82**
	SS-21F (1-1.5)	6/11/2020			---	**0.25**
	SS-21G (0-0.5)	6/11/2020		Rough adjacent to Tee Box	---	**0.56**
	SS-21G (1-1.5)	6/11/2020			---	**0.051**
	SS-22 (0-0.5)	6/9/2020	11th Hole	Rough adjacent to Tee Box	---	**1.4**
	SS-22 (1-1.5)	6/9/2020			---	**0.038**
	SS-22B (0-0.5)	6/9/2020		Tee Box	---	**16.9**
	Dup-6-06092020 (SS-22B (0-0.5)	6/9/2020			---	**25.0**
	SS-22B (1-1.5)	6/9/2020			---	**109**
	SS-22C (0-0.5)	6/9/2020		Tee Box	---	**4.5**
	SS-22C (1-1.5)	6/9/2020			---	**0.22**
	SS-22D (0-0.5)	6/9/2020		Rough	---	**0.077**
	SS-22D (1-1.5)	6/9/2020			---	**0.023**
	SS-22E (0-0.5)	6/9/2020	13th Hole	Rough Adjacent to Fairway	---	**2.2**
	SS-22E (1-1.5)	6/9/2020			---	**0.15**
	SS-22F (0-0.5)	6/9/2020		Fairway	---	**3.0**
	SS-22F (1-1.5)	6/9/2020			---	**0.072**
	SS-22G (0-0.5)	6/9/2020		Fairway	---	**4.7**
	SS-22G (1-1.5)	6/9/2020			---	**0.073**
	SS-22H (0-0.5)	6/9/2020		Fringe of Fairway	---	**1.8**
	SS-22H (1-1.5)	6/9/2020			---	**0.08**
	SS-22I (0-0.5)	6/9/2020		Rough	---	**0.066**
	SS-22I (1-1.5)	6/9/2020			---	<0.023
	SS-23 (0-0.5)	6/10/2020	2nd Hole	Green	---	**44.1** [M6]
	SS-23 (1-1.5)	6/10/2020			---	**0.04**
	SS-23B (0-0.5)	6/10/2020		Sand Trap	---	**0.029**
	SS-23B (1-1.5)	6/10/2020			---	**0.025**
	SS-23C (0-0.5)	6/10/2020		Rough	---	**1.3**
	SS-23C (1-1.5)	6/10/2020			---	**0.086**
	SS-23D (0-0.5)	6/10/2020	3rd Hole	Rough adjacent to Tee Box	---	**2.3**
	SS-23D (1-1.5)	6/10/2020			---	**0.091**
	SS-23E (0-0.5)	6/10/2020		Tee Box	---	**4.8**
	SS-23E (1-1.5)	6/10/2020			---	**1.0**
	SS-23F (0-0.5)	6/10/2020		Tee Box	---	**0.042**
	SS-23F (1-1.5)	6/10/2020			---	**0.035**
	SS-23G (0-0.5)	6/10/2020		Tee Box	---	**8.0**
	SS-23G (1-1.5)	6/10/2020			---	**0.11**
	SS-23H (0-0.5)	6/10/2020		Rough	---	**0.33**
	SS-23H (1-1.5)	6/10/2020			---	<0.022
	SS-23I (0-0.5)	6/10/2020	17th Hole	Rough	---	**1.4**
	SS-23I (1-1.5)	6/10/2020			---	**0.042**
	SS-23J (0-0.5)	6/10/2020		Fairway	---	**0.49**
	SS-23J (1-1.5)	6/10/2020			---	**0.39**
	SS-23K (0-0.5)	6/10/2020		Fairway	---	**1.4**
	SS-23K (1-1.5)	6/10/2020			---	**0.029**
Residential Soil Reference Value (SRV) (mg/kg)					9	3.1
Industrial Soil Reference Value (SRV) (mg/kg)					9	3.1
Screening Soil Leaching Value (SLV) (mg/kg)					5.8	3.3

Notes

Minnesota Pollution Control Agency (MPCA) SRVs updated June 2009 and SLVs updated June 2013.

mg/kg = Milligrams per kilogram.

< = Not detected at or above the laboratory reporting limit indicated.

--- = Not analyzed or calculated for this parameter or not applicable.

[a] = Samples SS-21C (0-0.5) and SS-21C (1-1.5) were mislabeled by the lab as SS-21K (0-0.5) and SS-21K (1-1.5), respectively.

[M1] Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

[M6] Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

Exceeds Residential/Industrial SRV

Table 7
Soil Arsenic and Mercury Analytical Results - All Data
Former Hillcrest Golf Course
Saint Paul, Minnesota
Project B1903316.00

Compound/Parameter					Arsenic, Total (mg/kg)	Mercury, Total (mg/kg)
CAS No.					7440-38-2	7439-97-6
Sample Identifier, Date Collected, and Location Description	SS-24 (0-0.5)	6/12/2020	Driving Range	Tee Box	---	**0.023**
	SS-24 (1-1.5)	6/12/2020			---	<0.022
	SS-24B (0-0.5)	6/12/2020		Practice Green	---	<0.021
	SS-24B (1-1.5)	6/12/2020			---	<0.021
	SS-24C (0-0.5)	6/12/2020		Fairway	---	**0.033**
	SS-24C (1-1.5)	6/12/2020			---	<0.020
	SS-24D (0-0.5)	6/12/2020		Tee Box	---	<0.022
	SS-24D (1-1.5)	6/12/2020			---	<0.020
	SS-24E (0-0.5)	6/12/2020		Fairway	---	**0.25**
	SS-24E (1-1.5)	6/12/2020			---	<0.021
	SS-24F (0-0.5)	6/12/2020		Fairway	---	**0.024**
	Dup-15-06122020 (SS-24F (0-0.5)	6/12/2020			---	<0.023
	SS-24F (1-1.5)	6/12/2020			---	<0.021
	SS-25 (0-0.5)	6/7/2020	1st Hole	Green	---	**63.9**
	SS-25 (1-1.5)	6/7/2020			---	**1.6**
	SS-26 (0-0.5)	6/10/2020	3rd Hole	Green	---	**1.7**
	SS-26 (1-1.5)	6/10/2020			---	**0.64** [M1]
	SS-27 (0-0.5)	6/11/2020	6th Hole	Green	---	**3.0**
	SS-27 (1-1.5)	6/11/2020			---	**0.18**
	SS-28 (0-0.5)	6/7/2020	9th Hole	Green	---	**110** [M6]
	SS-28 (1-1.5)	6/7/2020			---	**0.22**
	SS-29 (0-0.5)	6/9/2020	10th Hole	Green	---	**79.8**
	SS-29 (1-1.5)	6/9/2020			---	**0.33**
	SS-30 (0-0.5)	6/10/2020	11th Hole	Green	---	**1.3**
	SS-30 (1-1.5)	6/10/2020			---	**0.032**
	SS-31 (0-0.5)	6/10/2020	12th Hole	Green	---	**1.4**
	SS-31 (1-1.5)	6/10/2020			---	**1.6**
	SS-32 (0-0.5)	6/9/2020	14th Hole	Green	---	**40.9**
	SS-32 (1-1.5)	6/9/2020			---	<0.022
	SS-33 (0-0.5)	6/11/2020	15th Hole	Green	---	**73.0**
	SS-33 (1-1.5)	6/11/2020			---	**0.085**
	SS-34 (0-0.5)	6/10/2020	16th Hole	Green	---	**3.1**
	SS-34 (1-1.5)	6/10/2020			---	**0.15**
	SS-35 (0-0.5)	6/10/2020	17th Hole	Green	---	**23.4** [M6]
	Dup-7-06092020 (SS-35 (0-0.5)	6/10/2020			---	**20.5**
	SS-35 (1-1.5)	6/10/2020			---	**0.086**
	SS-36 (0-0.5)	6/15/2020	18th Hole	Green	---	**2.0**
	SS-36 (1-1.5)	6/15/2020			---	**0.1**
	SS-37 (0-0.5)	6/11/2020	Practice Green by Club House		---	**2.0**
	SS-37 (1-1.5)	6/11/2020			---	**0.089**
	SS-38 (0-0.5)	6/7/2020	2nd Hole	Tee Box	---	**0.056**
	SS-38 (1-1.5)	6/7/2020			---	**0.05**
	SS-39 (0-0.5)	6/10/2020	4th Hole	Tee Box	---	**4.4**
	SS-39 (1-1.5)	6/10/2020			---	<0.023
	SS-40 (0-0.5)	6/11/2020	7th Hole	Tee Box	---	**0.4**
	SS-40 (1-1.5)	6/11/2020			---	**0.036**
	SS-41 (0-0.5)	6/7/2020	8th Hole	Tee Box	---	**6.4**
	Dup-2-06072020 (SS-41 (0-0.5)	6/7/2020			---	**4.6**
	SS-41 (1-1.5)	6/7/2020			---	**1.6**
	SS-42 (0-0.5)	6/10/2020	12th Hole	Tee Box	---	**0.11**
	SS-42 (1-1.5)	6/10/2020			---	**7.2**
	SS-43 (0-0.5)	6/9/2020	13th Hole	Tee Box	---	**2.7**
	SS-43 (1-1.5)	6/9/2020			---	**0.16**
	SS-44 (0-0.5)	6/10/2020	15th Hole	Tee Box	---	**11.7**
	SS-44 (1-1.5)	6/10/2020			---	**0.13**
	SS-45 (0-0.5)	6/10/2020	17th Hole	Tee Box	---	**0.069**
	SS-45 (1-1.5)	6/10/2020			---	**0.028**
	SS-46 (0-0.5)	6/10/2020	18th Hole	Tee Box	---	**1.3**
	SS-46 (1-1.5)	6/10/2020			---	**0.043**
	SS-47 (0-0.5)	6/10/2020		Tee Box	---	**0.054**
	SS-47 (1-1.5)	6/10/2020			---	**0.025**
	SS-48 (0-0.5)	6/7/2020	2nd Hole	Fairway	---	**8.2**
	SS-48 (1-1.5)	6/7/2020			---	**0.073**
	SS-49 (0-0.5)	6/15/2020	5th Hole	Rough	---	**0.96**
	SS-49 (1-1.5)	6/15/2020			---	<0.022 [M1]
	SS-50 (0-0.5)	6/7/2020	7th Hole	Fairway	---	**3.5**
	SS-50 (1-1.5)	6/7/2020			---	**0.047**
	SS-51 (0-0.5)	6/10/2020	16th Hole	Rough adjacent to Fairway	---	**2.8**
	SS-51 (1-1.5)	6/10/2020			---	**0.21**
	ASB-1 (0-0.5)	06/22/2020	Agricultural Chemical Storage Building (Interior)	Large crack in floor of west bay	---	**0.042**
	ASB-1 (2-2.5)	06/22/2020			**2.4**	<0.022
	ASB-2 (0-0.5)	06/22/2020		Large crack in floor of east bay	---	**0.024**
	ASB-2 (2-2.5)	06/22/2020			---	<0.022
	ASB-3 (0-0.5)	06/22/2020	Agricultural Chemical Storage	Large crack in exterior asphalt loading area	---	**0.15**
	ASB-3 (2-2.5)	06/22/2020			---	**0.048**
	ASB-4 (0-0.5)	06/22/2020	Exterior Chemical Loading Area	Cracked asphalt	---	**<0.018**
	ASB-4 (2-2.5)	06/22/2020			---	<0.022
Residential Soil Reference Value (SRV) (mg/kg)					9	3.1
Industrial Soil Reference Value (SRV) (mg/kg)					9	3.1
Screening Soil Leaching Value (SLV) (mg/kg)					5.8	3.3

Notes

Minnesota Pollution Control Agency (MPCA) SRVs updated June 2009 and SLVs updated June 2013.

mg/kg = Milligrams per kilogram.

< = Not detected at or above the laboratory reporting limit indicated.

--- = Not analyzed or calculated for this parameter or not applicable.

[a] = Samples SS-21C (0-0.5) and SS-21C (1-1.5) were mislabeled by the lab as SS-21K (0-0.5) and SS-21K (1-1.5), respectively.

[M1] Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

[M6] Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

Exceeds Residential/Industrial SRV

Table 7
Soil Arsenic and Mercury Analytical Results - All Data
Former Hillcrest Golf Course
Saint Paul, Minnesota
Project B1903316.00

Compound/Parameter					Arsenic, Total (mg/kg)	Mercury, Total (mg/kg)
CAS No.					7440-38-2	7439-97-6
Sample Identifier, Date Collected, and Location Description	ASB-5C (0-0.5)	06/23/2020	Agricultural Chemical Storage Shed	Outlet for drain in concrete loading pad	---	<0.023
	ASB-5C (2-2.5)	06/23/2020			---	<0.024
	ASB-6c (0-0.5)	06/22/2020		Grass area immediately adjacent to concrete loading pad	---	**0.21**
	ASB-6c (2-2.5)	06/22/2020			---	<0.021
	DUP-17-06222020 ASB-6c (2-2.5)	06/22/2020			---	<0.024
	ASB-7 (0-0.5)	06/22/2020	Agricultural Chemical Mixing Area	Inlet to drainage swale adjacent to mixing area	---	**0.036**
	ASB-7 (2-2.5)	06/22/2020			---	**0.048**
	ASB-8c (0-0.5)	06/22/2020		Main mixing area	---	**1.1**
	ASB-8c (2-2.5)	06/22/2020			---	**0.58**
	DUP-18-06222020 ASB-8c (2-2.5)	06/22/2020			---	**0.14**
	ASB-8c (4-4.5)	06/22/2020			---	**0.037**
	ASB-9C (0-0.5)	06/23/2020		Drainage area	---	**0.61**
	ASB-9C (2-2.5)	06/23/2020			---	**0.78**
	ASB-10 (2-2.5)	06/22/2020	Maintenance building (Interior)	Interior crack in slab where agricultural chemical storage occurred	**1.4**	<0.022
	ASB-13c (0-0.5)	06/22/2020	Water fill area		---	**14.6**
	ASB-13c (2-2.5)	06/22/2020			---	**1.3**
	DUP-16-06222020 ASB-13c (2-2.5)	06/22/2020			---	**4.2**
	ASB-13c (4-4.5)	06/22/2020			---	**0.16**
	TT-1 (2'-4')	06/24/2020	Former Pool House	Soil with debris (concrete, asphalt, plastic)	**1.5**	<0.019
	TT-1 Hotspot (2-4)	06/24/2020		Odorous soil found near buried paint can	**2.0**	**0.064**
	TT-1 (6-7)	06/24/2020		---	**2.4**	**0.45**
	TT-2 (2-3')	06/24/2020		---	**1.8**	<0.022
	TT-3 (1-2)	06/24/2020	Former Tennis Courts	Apparent Class 5 aggregate base	**1.8**	**0.041**
	TT-4 (7-8)	06/23/2020	Raised Berm	Soil with debris (metal, ash, glass)	**4.3**	**1.2**
	TT-5 (2-3)	06/23/2020		Soil with limited debris (glass, golf ball)	**3.4**	**1.2**
	TT-6 (8-9)	06/23/2020		Soil with debris (concrete, brick, clay, plastic, tile)	**2.9**	**4.6**
	DUP-19-06232020 TT-6 (8-9)	06/23/2020			**3.8**	**7.2**
	TT-7 (3-5)	06/25/2020	Former Pool House	Soil with debris (red asphalt, plastic, concrete, apparent Class 5 aggregate base)	**2.5**	**0.059**
	TT-9 (3-5)	06/25/2020	Former Tennis Courts	Soil with debris (red asphalt, plastic, concrete, apparent Class 5 aggregate base)	**2.8**	**0.06**
	SB-1 (0.5-1.5)	06/24/2020	Former UST Basin Leak Site #5050		**3.2**	**0.94**
	SB-2 (0.5-1)	06/24/2020	Former UST Basin Leak Site #18327		**2.3**	**0.82**
	SB-5 (.5-1.5)	06/25/2020	North Parking Lot near clubhouse		**2.4**	<0.020
	Dup-20-06252020 SB-5 (.5-1.5)	06/25/2020			**1.7**	**0.49**
	DSS-1 (0-6'')	07/02/2020	Shed northwest of clubhouse	North of shed	---	**0.37**
	DSS-1 (1-1.5')	07/02/2020			---	**0.38**
	DSS-2 (0-6'')	07/02/2020		Directly northwest of shed	**2.7**	**0.38**
	DSS-2 (1-1.5')	07/02/2020			**2.7**	**0.31**
	DSS-3 (0-6'')	07/02/2020		East-southeast of shed	---	**0.11**
	DSS-4 (0-6'')	07/02/2020	Garages west of clubhouse - North garage	Directly northeast of garage	**5.7**	**0.08**
	DSS-4 (1-1.5')	07/02/2020			**5.8**	**0.062**
	DSS-5 (0-6'')	07/02/2020		Directly northwest of garage	---	**0.21**
	DSS-5 (1-1.5')	07/02/2020		Directly northwest of garage	---	**0.06**
	DSS-6 (0-6'')	07/02/2020	Garages west of clubhouse - South garage	Directly northwest of garage	---	**0.076**
	DSS-6 (1-1.5')	07/02/2020			---	**0.11**
	DSS-7 (0-6'')	07/02/2020		South of garage	---	**3.3**
	DSS-7 (1-1.5')	07/02/2020		South of garage	---	**0.3**
	DSS-8 (0-6'')	07/02/2020		East of garage	**2.6**	**0.31**
	DSS-8 (1-1.5')	07/02/2020			**2.5**	**0.3**
	DSS-102 DSS-8 (1-1.5)	07/02/2020			**3.3**	**0.38**
	DSS-9 (0-6'')	07/02/2020	North garage	East of garage	---	**0.52**
	DSS-9 (1-1.5')	07/02/2020			---	**0.099**
	DSS-10 (0-6'')	7/2/2020	DSS-10 (0-6'')	Directly southwest of shed	---	**0.16**
	DSS-11 (0-6'')	7/2/2020	DSS-11 (0-6'')	Directly southeast of shed	**2.3**	**0.29**
	DSS-11 (1-1.5')	7/2/2020	DSS-11 (1-1.5')		**2.3**	**0.089**
	DSS-12 (0-6'')	7/2/2020	DSS-12 (0-6'')		---	**0.042**
	DSS-13 (0-6'')	7/2/2020	DSS-13 (0-6'')		---	**2.0**
	DSS-13 (1-1.5')	7/2/2020	DSS-13 (1-1.5')		---	**1.7**
	DSS-14 (0-6'')	7/2/2020	DSS-14 (0-6'')		---	**4.1**
	DSS-14 (1-1.5')	7/2/2020	DSS-14 (1-1.5')		---	**0.91**
	DSS-15 (0-6'')	7/2/2020	DSS-15 (0-6'')	Poolhouse	**2.1**	**0.31**
	DSS-15 (1-1.5')	7/2/2020	DSS-15 (1-1.5')		**2.4**	**0.24**
	DSS-16 (0-6'')	7/2/2020	DSS-16 (0-6'')	South-southeast of clubhouse	---	**1.6**
	DSS-101 DSS-16 (0-6'')	7/2/2020	DSS-101 DSS-16 (0-6'')		---	**1.1**
	DSS-16 (1-1.5')	7/2/2020	DSS-16 (1-1.5')		---	**0.11**
	DSS-17 (0-6')	7/2/2020	DSS-17 (0-6')	East-southeast of clubhouse	**3.6**	**0.79**
	DSS-17 (1-1.5')	7/2/2020	DSS-17 (1-1.5')		**2.3**	**0.062**
	DSS-18 (0-6'')	7/2/2020	DSS-18 (0-6'')	North-northwest of clubhouse	---	**0.62**
	DSS-18 (1-1.5')	7/2/2020	DSS-18 (1-1.5')		---	**0.89**
	Sed-1	07/02/2020	9th Hole	Center of Pond Adjacent to 9th Hole	---	**1.5** [M1]
	SED 1A (0-0.5)	07/15/2020		Southeast slope	---	**0.23**
	PW-1A (0-0.5)	08/12/2020		West slope	---	**0.41**
	PW-1B (0-0.5)	08/12/2020			---	**2.8**
	PW-1C (0-0.5)	08/12/2020		Southeast slope	---	**0.31**
	PW-1D (0-0.5)	08/12/2020			---	**0.54**
	PW-1E (0-0.5)	08/12/2020		South of pond	---	**0.94**
	PW-1F (0-0.5)	08/12/2020			---	**26.3**
	PW-1G (0-0.5)	08/12/2020		Southwest of pond	---	**16.5**
	PW-1H (0-0.5)	08/12/2020			---	**0.83**
	Sed-2	07/02/2020	8th Hole	Center	---	**0.21**
	SED 2A (0-0.5)	07/15/2020		Southwest slope	---	**0.59**
	Sed-2A (1-1.5)	08/12/2020			---	**0.42**
	PW-2A (0-0.5)	08/12/2020		East slope	---	**0.73**
	PW-2B (0-0.5)	08/12/2020		East of pond	---	**0.16**
	PW-2C (0-0.5)	08/12/2020		West slope	---	**0.94**
	PW-2D (0-0.5)	08/12/2020			---	**1.9**
	PW-2E (0-0.5)	08/12/2020		East slope	---	**0.028**
	PW-2F (0-0.5)	08/12/2020		Northwest of pond	---	**0.28**
	PW-2F (1-1.5)	08/12/2020			---	**0.22**
	PW-2G (0-0.5)	08/12/2020		Southwest of pond	---	**0.13**
	PW-2H (0-0.5)	08/12/2020		South of pond	---	**0.2**

Table 7
Soil Arsenic and Mercury Analytical Results - All Data
Former Hillcrest Golf Course
Saint Paul, Minnesota
Project B1903316.00

	PW-2I (0-0.5)	08/12/2020		Southwest of pond	---	**0.18**
	PW-2J (0-0.5)	08/12/2020			---	**0.063**
Residential Soil Reference Value (SRV) (mg/kg)					9	3.1
Industrial Soil Reference Value (SRV) (mg/kg)					9	3.1
Screening Soil Leaching Value (SLV) (mg/kg)					5.8	3.3

Notes

Minnesota Pollution Control Agency (MPCA) SRVs updated June 2009 and SLVs updated June 2013.

mg/kg = Milligrams per kilogram.

< = Not detected at or above the laboratory reporting limit indicated.

--- = Not analyzed or calculated for this parameter or not applicable.

[a] = Samples SS-21C (0-0.5) and SS-21C (1-1.5) were mislabeled by the lab as SS-21K (0-0.5) and SS-21K (1-1.5), respectively.

[M1] Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

[M6] Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

Exceeds Residential/Industrial SRV

Table 7
Soil Arsenic and Mercury Analytical Results - All Data
Former Hillcrest Golf Course
Saint Paul, Minnesota
Project B1903316.00

Compound/Parameter					Arsenic, Total (mg/kg)	Mercury, Total (mg/kg)
CAS No.					7440-38-2	7439-97-6
Sample Identifier, Date Collected, and Location Description	Sed-3	07/02/2020	2nd Hole	Center	---	**0.56**
	Sed-101 (Sed-3)	07/02/2020			---	**0.3**
	SED 3A (0-0.5)	07/15/2020		North slope	---	**0.044**
	PW-3A (0-0.5)	08/12/2020		Northwest slope	---	**0.075**
	PW-3B (0-0.5)	08/12/2020		West of center	---	**0.47**
	PW-3C (0-0.5)	08/12/2020		Southeast slope	---	**1.1**
	PW-3D (0-0.5)	08/12/2020			---	**0.056**
	Sed-4	07/02/2020	South of 2nd Hole	Center	---	**0.069**
	SED 4A (0-0.5)	07/15/2020		Southwest slope	---	**0.16**
	SED 4A (1-1.5)	07/15/2020			---	**0.19**
	PW-4A (0-0.5)	08/12/2020			---	<0.024
	PW-4B (0-0.5)	08/12/2020		Southeast slope	---	**0.18**
	PW-4C (0-0.5)	08/12/2020		East slope	---	**0.2**
	PW-4D (0-0.5)	08/12/2020			---	**0.046**
	Sed-5	07/02/2020	Maintenance Building	Southeast of building	---	**0.1**
	PW-5A (0-0.5)	08/12/2020		Northwest of building	---	**0.14**
	PW-5B (0-0.5)	08/12/2020			---	**0.098**
	PW-5C (0-0.5)	08/12/2020			---	**0.084**
	PW-5D (0-0.5)	08/12/2020			---	**0.28**
	PW-5E (0-0.5)	08/12/2020		West of building	---	**8.0**
	PW-5F (0-0.5)	08/12/2020		Southwest of building	---	**3.7**
	PW-5G (0-0.5)	08/12/2020			---	**2.5**
	Sed-6	07/02/2020	North of 6th Hole	Center	---	**12.9**
	PW-6A (0-0.5)	08/12/2020		North slope	---	**1.9**
	PW-6B (0-0.5)	08/12/2020			---	**2.5**
	PW-6C (0-0.5)	08/12/2020		Northeast slope	---	**6.4** [M6]
	PW-6D (0-0.5)	08/12/2020		Northwest slope	---	**9.3**
	PW-6E (0-0.5)	08/12/2020		South slope	---	**1.3**
	PW-6F (0-0.5)	08/12/2020			---	**0.26**
	PW-6G (0-0.5)	08/12/2020		Southeast slope	---	**0.025**
	PW-6H (0-0.5)	08/12/2020		North of pond	---	**0.28**
	PW-6I (0-0.5)	08/12/2020			---	**0.5**
	PW-6J (0-0.5)	08/12/2020			---	**0.91**
	PW-6K (0-0.5)	08/12/2020			---	**3.4**
	Sed-7	07/02/2020	4th Hole	Center	---	**11.7**
	SED 7A (0-0.5)	07/15/2020		Northwest slope	---	**0.12**
	SED 7B (0-0.5)	07/15/2020		Northwest of center	---	**11.9**
	Sed-7B (1-1.5)	08/12/2020			---	**0.045**
	SED 7C (0-0.5)	07/15/2020		Southeast of center	---	**1.1**
	SED 7C (1-1.5)	07/15/2020			---	**0.21**
	SED 7D (0-0.5)	07/15/2020		Southeast slope	---	**0.28**
	SED 7D (1-1.5)	07/15/2020			---	**0.16**
	PW-7A (0-0.5)	08/12/2020		Southeast of center	---	**2.4**
	PW-7B (0-0.5)	08/12/2020		Southeast slope	---	**0.21**
	PW-7C (0-0.5)	08/12/2020		Northwest of pond	---	**0.046**
	PW-7D (0-0.5)	08/12/2020		Northwest slope	---	**1.6**
	Soil 1-0-0.5	07/15/2020	4th Hole Tee box	West slope	---	**0.1**
	Soil 1-1-1.5	07/15/2020			---	**0.034**
	ST-2 (0-2)	04/12/2019	Former Pool House	Southwest corner	**3.9**	**0.22**
	ST-3 (0-2)	04/13/2019	8th Hole	Green	**15.7**	**6.3**
	ST-5 (1-3)	04/12/2019	13th Hole	Green	<5.3 [D3]	**0.044**
	ST-6 (2-4)	04/12/2019	Between 13th Hole and 11th Hole	Rough	**1.7**	<0.020
	ST-8 (5-7)	04/13/2019	Maintenance Shed	Wash Out Area	<1.2	**0.028**
	ST-10 (1-3)	04/12/2019	16th Hole	Rough East of Hole	**2.0**	**0.027**
	ST-11 (4-6)	04/13/2019	4th Hole	Green	**1.7**	<0.020
	ST-12 (2-4)	04/13/2019	5th Hole	Green	**6.4**	**0.031**
	GP-1 0-1	05/07/2019	Practice Green	Fringe	**2.1**	<0.020
	GP-1 1-2	05/07/2019			---	<0.019
	GP-2 0-1	05/07/2019	Pool House	Grassy Area to South	---	**0.13**
	GP-2 4-5	05/07/2019			**2.0**	**0.12**
	GP-3 0-1	05/07/2019	Former Tennis Courts	Green	**2.2**	**0.068**
	GP-3 1-2	05/07/2019			---	**0.026**
	GP-4 1-2	05/07/2019	13th Hole	Green	---	**1.4**
	GP-4 2-3	05/07/2019			---	**0.047**
	GP-5 1-2	05/07/2019	4th Hole	Green	---	**6.1**
	GP-5 2-3	05/07/2019			---	**0.067**
	GP-6 1-2	05/07/2019	5th Hole	Green	---	**0.099**
	GP-7 1-2	05/07/2019	Maintenance Building	South Wash Area	---	**0.094**
	GP-7 3-4	05/07/2019			---	**0.041**
	GP-8 1-2	05/07/2019	Maintenance Building	Main Wash Area	---	**2.3**
	GP-8 3-4	05/07/2019			---	**0.74**
	GP-9 0-1'	05/07/2019	Maintenance Building	Berm to North	**4.6**	**0.23**
	GP-9 5-6'	05/07/2019			**4.9**	**0.033**
	Maint Berm	05/10/2019	Berm	Berm South of Maintenance Area	**3.7**	**4.9**
Residential Soil Reference Value (SRV) (mg/kg)					9	3.1
Industrial Soil Reference Value (SRV) (mg/kg)					9	3.1
Screening Soil Leaching Value (SLV) (mg/kg)					5.8	3.3

Notes

Minnesota Pollution Control Agency (MPCA) SRVs updated June 2009 and SLVs updated June 2013.

mg/kg = Milligrams per kilogram.

< = Not detected at or above the laboratory reporting limit indicated.

--- = Not analyzed or calculated for this parameter or not applicable.

[a] = Samples SS-21C (0-0.5) and SS-21C (1-1.5) were mislabeled by the lab as SS-21K (0-0.5) and SS-21K (1-1.5), respectively.

[M1] Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

[M6] Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

Exceeds Residential/Industrial SRV

Table 8
Soil Arsenic and Mercury Analytical Results - Greens
Former Hillcrest Golf Course
Saint Paul, Minnesota
Project B1903316.00

Sample Identifier, Date Collected, and Location Description				Compound/Parameter	Arsenic, Total (mg/kg)	Mercury, Total (mg/kg)
				CAS No.	7440-38-2	7439-97-6
SS-1 (0-0.5)	04/19/2019	8th Hole	Green		---	**18.6**
SS-1B (0-0.5)	6/7/2020				**117**	**38.2**
SS-1B (1-1.5)	6/7/2020				**29.1**	**11.6**
SS-1C (0-0.5)	6/7/2020		Rough adjacent to Green		**3.2**	**0.08**
SS-1C (1-1.5)	6/7/2020				**3.7**	**0.057**
SS-2 (0-0.5)	04/19/2019	Practice Green	Near Driving Range		---	**0.089**
SS-3 (0-0.5)	04/19/2019	13th Hole	Green		---	**43.4**
SS-3B (0-0.5)	05/01/2019		North Fringe of Green		---	**17.8**
SS-3C (0-0.5)	05/01/2019		South Fringe of Green		---	**144**
SS-3D (0-0.5)	05/01/2019		10 ft South of Fringe of Green		---	**113**
SS-3E (0-0.5)	05/10/2019		20 ft South of Fringe of Green		---	**15.1**
SS-3F (0-0.5)	05/10/2019		10 ft North of Fringe of Green		---	**9.9**
SS-3H (0-0.5)	6/9/2020		Fringe of Green		---	**130**
SS-3H (1-1.5)	6/9/2020				---	**1.8**
SS-3I (0-0.5)	6/9/2020		Rough adjacent to Green		---	**0.92**
SS-3I (1-1.5)	6/9/2020				---	**0.051**
SS-4 (0-0.5)	04/19/2019	4th Hole	Green		---	**21.1**
SS-4B (0-0.5)	6/11/2020		Fringe of Green		---	**46.0**
SS-4B (1-1.5)	6/11/2020				---	**0.27**
SS-5 (0-0.5)	6/12/2020	5th Hole	Green		---	**45.3**
SS-5A (0-0.5)	6/12/2020		East Fringe of Green		---	**6.5**
SS-5B (0-0.5)	6/12/2020		West Fringe of Green		---	**46.3**
SS-5C (0-0.5)	6/12/2020		10 ft West of Fringe of Green		---	**8.2**
SS-5G (0-0.5)	6/12/2020		Fringe of Green		---	**33.5**
SS-5G (1-1.5)	6/12/2020				---	**0.066**
SS-24B (0-0.5)	6/12/2020	Driving Range	Practice Green		---	<0.021
SS-24B (1-1.5)	6/12/2020				---	<0.021
SS-25 (0-0.5)	6/7/2020	1st Hole	Green		---	**63.9**
SS-25 (1-1.5)	6/7/2020				---	**1.6**
SS-26 (0-0.5)	6/10/2020	3rd Hole	Green		---	**1.7**
SS-26 (1-1.5)	6/10/2020				---	**0.64** [M1]
SS-27 (0-0.5)	6/11/2020	6th Hole	Green		---	**3.0**
SS-27 (1-1.5)	6/11/2020				---	**0.18**
SS-28 (0-0.5)	6/7/2020	9th Hole	Green		---	**110** [M6]
SS-28 (1-1.5)	6/7/2020				---	**0.22**
SS-29 (0-0.5)	6/9/2020	10th Hole	Green		---	**79.8**
SS-29 (1-1.5)	6/9/2020				---	**0.33**
SS-30 (0-0.5)	6/10/2020	11th Hole	Green		---	**1.3**
SS-30 (1-1.5)	6/10/2020				---	**0.032**
SS-31 (0-0.5)	6/10/2020	12th Hole	Green		---	**1.4**
SS-31 (1-1.5)	6/10/2020				---	**1.6**
SS-32 (0-0.5)	6/9/2020	14th Hole	Green		---	**40.9**
SS-32 (1-1.5)	6/9/2020				---	<0.022
SS-33 (0-0.5)	6/11/2020	15th Hole	Green		---	**73.0**
SS-33 (1-1.5)	6/11/2020				---	**0.085**
SS-34 (0-0.5)	6/10/2020	16th Hole	Green		---	**3.1**
SS-34 (1-1.5)	6/10/2020				---	**0.15**
SS-35 (0-0.5)	6/10/2020	17th Hole	Green		---	**23.4** [M6]
Dup-7-06092020 (SS-35 (0-0.5)	6/10/2020				---	**20.5**
SS-35 (1-1.5)	6/10/2020				---	**0.086**
SS-36 (0-0.5)	6/15/2020	18th Hole	Green		---	**2.0**
SS-36 (1-1.5)	6/15/2020				---	**0.1**
SS-37 (0-0.5)	6/11/2020	Practice Green by Club House			---	**2.0**
SS-37 (1-1.5)	6/11/2020				---	**0.089**
ST-3 (0-2)	04/13/2019	8th Hole	Green		**15.7**	**6.3**
ST-5 (1-3)	04/12/2019	13th Hole	Green		<5.3 [D3]	**0.044**
ST-11 (4-6)	04/13/2019	4th Hole	Green		**1.7**	<0.020
ST-12 (2-4)	04/13/2019	5th Hole	Green		**6.4**	**0.031**
GP-3 0-1	05/07/2019	Former Tennis Courts	Green		**2.2**	**0.068**
GP-3 1-2	05/07/2019				---	**0.026**
GP-4 1-2	05/07/2019	13th Hole	Green		---	**1.4**
GP-4 2-3	05/07/2019				---	**0.047**
GP-5 1-2	05/07/2019	4th Hole	Green		---	**6.1**
GP-5 2-3	05/07/2019				---	**0.067**
GP-6 1-2	05/07/2019	5th Hole	Green		---	**0.099**
				Residential Soil Reference Value (SRV) (mg/kg)	9	3.1
				Industrial Soil Reference Value (SRV) (mg/kg)	9	3.1
				Screening Soil Leaching Value (SLV) (mg/kg)	5.8	3.3

Notes

Minnesota Pollution Control Agency (MPCA) SRVs updated June 2009 and SLVs updated June 2013.

mg/kg = Milligrams per kilogram.

< = Not detected at or above the laboratory reporting limit indicated.

--- = Not analyzed or calculated for this parameter or not applicable.

[a] = Samples SS-21C (0-0.5) and SS-21C (1-1.5) were mislabeled by the lab as SS-21K (0-0.5) and SS-21K (1-1.5), respectively.

[M1] Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

[M6] Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

Exceeds Industrial SRV

Table 9
Soil Arsenic and Mercury Analytical Results - Tee Boxes
Former Hillcrest Golf Course
Saint Paul, Minnesota
Project B1903316.00

Compound/Parameter					Arsenic, Total (mg/kg)	Mercury, Total (mg/kg)
CAS No.					7440-38-2	7439-97-6
Sample Identifier, Date Collected, and Location Description	SS-1E (0-0.5)	6/7/2020	9th Hole	Tee Box	---	**3.9**
	SS-1E (1-1.5)	6/7/2020			---	**0.11**
	SS-1J (0-0.5)	6/7/2020	9th Hole	Tee Box	---	**5.1**
	SS-1J (1-1.5)	6/7/2020			---	**0.087**
	SS-1K (0-0.5)	6/7/2020		Rough adjacent to Tee Box	---	**1.1**
	SS-1K (1-1.5)	6/7/2020			---	**0.1**
	SS-5J (0-0.5)	6/12/2020	6th Hole	Tee Box	---	**5.5**
	SS-5J (1-1.5)	6/12/2020			---	**2.8**
	SS-5K (0-0.5)	6/12/2020		Tee Box	---	**0.055** [M1]
	Dup-14-06122020 (SS-5K (0-0.5)	6/12/2020			---	**0.053**
	SS-5K (1-1.5)	6/12/2020			---	**0.24**
	SS-5M (0-0.5)	6/12/2020		Drainage Area adjacent to Tee Box	---	**0.13**
	SS-5M (1-1.5)	6/12/2020			---	**0.3**
	SS-8 (0-0.5)	05/01/2019	10th Hole	Tee Box	---	**6.8**
	SS-8 (0-0.5)	05/10/2019			---	**0.030**
	SS-9 (0-0.5)	05/01/2019	14th Hole	Tee Box	---	**0.45**
	SS-11 (0-0.5)	5/10/2019	11th Hole	Tee Box	---	**5.2**
	SS-15 (0-0.5)	5/10/2019	5th Hole	Tee Box	---	**7.0**
	SS-20 (0-0.5)	6/9/2020	14th Hole	Tee Box	---	**0.021**
	SS-20 (1-1.5)	6/9/2020			---	**0.07**
	SS-20B (0-0.5)	6/9/2020		Rough adjacent to Tee Box	---	**0.33**
	Dup-3-06092020 (SS-20B (0-0.5)	6/9/2020			---	**0.26**
	SS-20B (1-1.5)	6/9/2020			---	**0.11**
	SS-20C (0-0.5)	6/9/2020		Tee Box	---	**6.8**
	SS-20C (1-1.5)	6/9/2020			---	**0.023**
	SS-20D (0-0.5)	6/9/2020		Rough adjacent to Tee Box	---	**2.8**
	SS-20D (1-1.5)	6/9/2020			---	**0.068** [M1]
	SS-21C (0-0.5)[a]	6/11/2020	16th Hole	Tee Box	---	**0.6**
	SS-21C (1-1.5)[a]	6/11/2020			---	**0.062**
	SS-21D (0-0.5)	6/11/2020		Tee Box	---	**0.53**
	Dup-10-06112020 (SS-21D (0-0.5)	6/11/2020			---	**0.54**
	SS-21D (1-1.5)	6/11/2020			---	**0.19**
	SS-21E (0-0.5)	6/11/2020		Tee Box	---	**0.047**
	SS-21E (1-1.5)	6/11/2020			---	<0.022
	SS-21F (0-0.5)	6/11/2020		Tee Box	---	**0.82**
	SS-21F (1-1.5)	6/11/2020			---	**0.25**
	SS-21G (0-0.5)	6/11/2020		Rough adjacent to Tee Box	---	**0.56**
	SS-21G (1-1.5)	6/11/2020			---	**0.051**
	SS-22 (0-0.5)	6/9/2020	11th Hole	Rough adjacent to Tee Box	---	**1.4**
	SS-22 (1-1.5)	6/9/2020			---	**0.038**
	SS-22B (0-0.5)	6/9/2020		Tee Box	---	**16.9**
	Dup-6-06092020 (SS-22B (0-0.5)	6/9/2020			---	**25.0**
	SS-22B (1-1.5)	6/9/2020			---	**109**
	SS-22C (0-0.5)	6/9/2020		Tee Box	---	**4.5**
	SS-22C (1-1.5)	6/9/2020			---	**0.22**
	SS-23D (0-0.5)	6/10/2020	3rd Hole	Rough adjacent to Tee Box	---	**2.3**
	SS-23D (1-1.5)	6/10/2020			---	**0.091**
	SS-23E (0-0.5)	6/10/2020		Tee Box	---	**4.8**
	SS-23E (1-1.5)	6/10/2020			---	**1.0**
	SS-23F (0-0.5)	6/10/2020		Tee Box	---	**0.042**
	SS-23F (1-1.5)	6/10/2020			---	**0.035**
	SS-23G (0-0.5)	6/10/2020		Tee Box	---	**8.0**
	SS-23G (1-1.5)	6/10/2020			---	**0.11**
	SS-24 (0-0.5)	6/12/2020	Driving Range	Tee Box	---	**0.023**
	SS-24 (1-1.5)	6/12/2020			---	<0.022
	SS-24D (0-0.5)	6/12/2020		Tee Box	---	<0.022
	SS-24D (1-1.5)	6/12/2020			---	<0.020
	SS-38 (0-0.5)	6/7/2020	2nd Hole	Tee Box	---	**0.056**
	SS-38 (1-1.5)	6/7/2020			---	**0.05**
	SS-39 (0-0.5)	6/10/2020	4th Hole	Tee Box	---	**4.4**
	SS-39 (1-1.5)	6/10/2020			---	<0.023
	SS-40 (0-0.5)	6/11/2020	7th Hole	Tee Box	---	**0.4**
	SS-40 (1-1.5)	6/11/2020			---	**0.036**
	SS-41 (0-0.5)	6/7/2020	8th Hole	Tee Box	---	**6.4**
	Dup-2-06072020 (SS-41 (0-0.5)	6/7/2020			---	**4.6**
	SS-41 (1-1.5)	6/7/2020			---	**1.6**
	SS-42 (0-0.5)	6/10/2020	12th Hole	Tee Box	---	**0.11**
	SS-42 (1-1.5)	6/10/2020			---	**7.2**
	SS-43 (0-0.5)	6/9/2020	13th Hole	Tee Box	---	**2.7**
	SS-43 (1-1.5)	6/9/2020			---	**0.16**
	SS-44 (0-0.5)	6/10/2020	15th Hole	Tee Box	---	**11.7**
	SS-44 (1-1.5)	6/10/2020			---	**0.13**
	SS-45 (0-0.5)	6/10/2020	17th Hole	Tee Box	---	**0.069**
	SS-45 (1-1.5)	6/10/2020			---	**0.028**
	SS-46 (0-0.5)	6/10/2020	18th Hole	Tee Box	---	**1.3**
	SS-46 (1-1.5)	6/10/2020			---	**0.043**
	SS-47 (0-0.5)	6/10/2020			---	**0.054**
	SS-47 (1-1.5)	6/10/2020			---	**0.025**
Residential Soil Reference Value (SRV) (mg/kg)					9	3.1
Industrial Soil Reference Value (SRV) (mg/kg)					9	3.1
Screening Soil Leaching Value (SLV) (mg/kg)					5.8	3.3

Notes

Minnesota Pollution Control Agency (MPCA) SRVs updated June 2009 and SLVs updated June 2013.

mg/kg = Milligrams per kilogram.

< = Not detected at or above the laboratory reporting limit indicated.

--- = Not analyzed or calculated for this parameter or not applicable.

[a] = Samples SS-21C (0-0.5) and SS-21C (1-1.5) were mislabeled by the lab as SS-21K (0-0.5) and SS-21K (1-1.5), respectively.

[M1] Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

[M6] Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

Exceeds Industrial SRV

Table 10
Soil Arsenic and Mercury Analytical Results - Fairways
Former Hillcrest Golf Course
Saint Paul, Minnesota
Project B1903316.00

Compound/Parameter					Arsenic, Total (mg/kg)	Mercury, Total (mg/kg)
CAS No.					7440-38-2	7439-97-6
Sample Identifier, Date Collected, and Location Description	SS-1I (0-0.5)	6/7/2020	8th Hole	Fairway	---	**6.7** [M6]
	SS-1I (1-1.5)	6/7/2020			---	**0.2**
	SS-3J (0-0.5)	6/9/2020	13th Hole	Fairway	---	**4.0**
	SS-3J (1-1.5)	6/9/2020			---	**0.14**
	SS-3M (0-0.5)	6/9/2020		Fairway	---	**1.5**
	Dup-4-06092020 (SS-3M (0-0.5)	6/9/2020			---	**1.2**
	SS-4D (0-0.5)	6/11/2020	4th Hole	Fringe of Fairway	---	**3.6**
	SS-4D (1-1.5)	6/11/2020			---	**0.046**
	SS-4E (0-0.5)	6/11/2020		Fairway	---	**3.4**
	SS-4E (1-1.5)	6/11/2020			---	**0.12**
	SS-4F (0-0.5)	6/11/2020		Fringe of Fairway	---	**0.13**
	SS-4F (1-1.5)	6/11/2020			---	<0.023
	SS-5D (0-0.5)	6/12/2020	5th Hole	Fairway	---	**5.6**
	SS-5D (1-1.5)	6/12/2020			---	**0.035**
	SS-5E (0-0.5)	6/12/2020		Fairway	---	**2.3**
	SS-5E (1-1.5)	6/12/2020			---	**0.053**
	SS-10 (0-0.5)	05/01/2019	13th Hole	Fairway - Low Area	---	**4.7**
	SS-10B (0-0.5)	6/9/2020		Fairway	---	**3.7**
	SS-10B (1-1.5)	6/9/2020			---	**0.04**
	SS-10C (0-0.5)	6/9/2020		Fringe of Fairway	---	**1.7**
	SS-10C (1-1.5)	6/9/2020			---	<0.023
	SS-10F (0-0.5)	6/9/2020	10th Hole	Fringe of Fairway	---	**2.3**
	SS-10F (1-1.5)	6/9/2020			---	**0.22**
	Dup-5-06092020 (SS-10F (1-1.5)	6/9/2020			---	**0.61**
	SS-10G (0-0.5)	6/9/2020		Fairway	---	**2.8**
	SS-10G (1-1.5)	6/9/2020			---	**0.57**
	SS-10H (0-0.5)	6/9/2020		Fairway	---	**3.5**
	SS-10H (1-1.5)	6/9/2020			---	<0.023
	SS-12 (0-0.5)	5/10/2019	18th Hole	Fairway	---	**5.0**
	SS-13 (0-0.5)	5/10/2019	11th Hole	Fairway	---	**5.1**
	SS-13B (0-0.5)	6/9/2020	13th Hole	Fairway	---	**3.0**
	SS-13B (1-1.5)	6/9/2020			---	**0.08**
	SS-14 (0-0.5)	5/10/2019	Fairway - Low Area		---	**4.4**
	SS-14B (0-0.5)	6/9/2020	11th Hole	Fairway	---	**4.0**
	SS-14B (1-1.5)	6/9/2020			---	**0.14**
	SS-14C (0-0.5)	6/9/2020		Fringe of Fairway	---	**1.7**
	SS-14C (1-1.5)	6/9/2020			---	**0.2**
	SS-16 (0-0.5)	5/10/2019	5th Hole	Fairway	---	**4.5**
	SS-16B (0-0.5)	6/11/2020		Fairway	---	**1.1**
	SS-16B (1-1.5)	6/11/2020			---	**0.2**
	SS-16C (0-0.5)	6/11/2020		Fringe of Fairway	---	**1.2**
	SS-16C (1-1.5)	6/11/2020			---	<0.023
	SS-17E (1-1.5)	6/10/2020	15th Hole	Fairway	---	**0.022**
	SS-17G (0-0.5)	6/10/2020	12th Hole	Fairway	---	**16.5**
	SS-17G (1-1.5)	6/10/2020			---	**0.21**
	SS-17I (0-0.5)	6/10/2020	11th Hole	Fringe of Fairway	---	**3.3**
	SS-17I (1-1.5)	6/10/2020			---	**0.56**
	SS-17J (0-0.5)	6/10/2020		Fairway	---	**3.8**
	SS-17J (1-1.5)	6/10/2020			---	**0.16**
	SS-18B (0-0.5)	6/7/2020	1st Hole	Fringe of Fairway	---	**3.1**
	SS-18B (1-1.5)	6/7/2020			---	**2.7**
	SS-18C (0-0.5)	6/7/2020		Fairway	---	**4.1**
	Dup-1-06072020 (SS-18C (0-0.5)	6/7/2020			---	**0.85**
	SS-18C (1-1.5)	6/7/2020			---	**0.11**
	SS-18D (0-0.5)	6/7/2020		Fringe of Fairway	---	**0.8**
	SS-18D (1-1.5)	6/7/2020			---	**0.042**
	SS-19 (0-0.5)	6/10/2020	3rd Hole	Rough adjacent to Fairway	---	**1.1**
	SS-19 (1-1.5)	6/10/2020			---	**0.12**
	SS-19B (0-0.5)	6/10/2020		Rough adjacent to Fairway	---	**3.1**
	SS-19B (1-1.5)	6/10/2020			---	**0.65**
	SS-19C (0-0.5)	6/10/2020		Fairway	---	**3.0**
	SS-19C (1-1.5)	6/10/2020			---	**0.3**
	SS-19D (0-0.5)	6/10/2020		Fairway	---	**2.0**
	SS-19D (1-1.5)	6/10/2020			---	**0.092**
	SS-19E (0-0.5)	6/10/2020		Fringe of Fairway	---	**0.67**
	SS-19E (1-1.5)	6/10/2020			---	<0.021
	SS-21 (0-0.5)	6/11/2020	15th Hole	Fairway	---	**4.5**
	SS-21 (1-1.5)	6/11/2020			---	**0.031**
	SS-22E (0-0.5)	6/9/2020	13th Hole	Rough Adjacent to Fairway	---	**2.2**
	SS-22E (1-1.5)	6/9/2020			---	**0.15**
	SS-22F (0-0.5)	6/9/2020		Fairway	---	**3.0**
	SS-22F (1-1.5)	6/9/2020			---	**0.072**
	SS-22G (0-0.5)	6/9/2020		Fairway	---	**4.7**
	SS-22G (1-1.5)	6/9/2020			---	**0.073**
	SS-22H (0-0.5)	6/9/2020		Fringe of Fairway	---	**1.8**
	SS-22H (1-1.5)	6/9/2020			---	**0.08**
	SS-23J (0-0.5)	6/10/2020	17th Hole	Fairway	---	**0.49**
	SS-23J (1-1.5)	6/10/2020			---	**0.39**
	SS-23K (0-0.5)	6/10/2020		Fairway	---	**1.4**
	SS-23K (1-1.5)	6/10/2020			---	**0.029**
	SS-24C (0-0.5)	6/12/2020	Driving Range	Fairway	---	**0.033**
	SS-24C (1-1.5)	6/12/2020			---	<0.020
	SS-24E (0-0.5)	6/12/2020		Fairway	---	**0.25**
	SS-24E (1-1.5)	6/12/2020			---	<0.021
	SS-24F (0-0.5)	6/12/2020		Fairway	---	**0.024**
	Dup-15-06122020 (SS-24F (0-0.5)	6/12/2020			---	<0.023
	SS-24F (1-1.5)	6/12/2020			---	<0.021
	SS-48 (0-0.5)	6/7/2020	2nd Hole	Fairway	---	**8.2**
	SS-48 (1-1.5)	6/7/2020			---	**0.073**
	SS-50 (0-0.5)	6/7/2020	7th Hole	Fairway	---	**3.5**
	SS-50 (1-1.5)	6/7/2020			---	**0.047**
	SS-51 (0-0.5)	6/10/2020	16th Hole	Rough adjacent to Fairway	---	**2.8**
	SS-51 (1-1.5)	6/10/2020			---	**0.21**
Residential Soil Reference Value (SRV) (mg/kg)					9	3.1
Industrial Soil Reference Value (SRV) (mg/kg)					9	3.1
Screening Soil Leaching Value (SLV) (mg/kg)					5.8	3.3

Notes

Minnesota Pollution Control Agency (MPCA) SRVs updated June 2009 and SLVs updated June 2013.

mg/kg = Milligrams per kilogram.

< = Not detected at or above the laboratory reporting limit indicated.

--- = Not analyzed or calculated for this parameter or not applicable.

[a] = Samples SS-21C (0-0.5) and SS-21C (1-1.5) were mislabeled by the lab as SS-21K (0-0.5) and SS-21K (1-1.5), respectively.

[M1] Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

[M6] Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

Exceeds Industrial SRV

Table 11
Soil Arsenic and Mercury Analytical Results - Rough
Former Hillcrest Golf Course
Saint Paul, Minnesota
Project B1903316.00

Compound/Parameter					Arsenic, Total (mg/kg)	Mercury, Total (mg/kg)
CAS No.					7440-38-2	7439-97-6
Sample Identifier, Date Collected, and Location Description	SS-1C (0-0.5)	6/7/2020	8th Hole	Rough adjacent to Green	**3.2**	**0.08**
	SS-1C (1-1.5)	6/7/2020			**3.7**	**0.057**
	SS-1D (0-0.5)	6/7/2020	9th Hole	Rough near Sidewalk	---	**0.039**
	SS-1D (1-1.5)	6/7/2020			---	**0.028**
	SS-1F (0-0.5)	6/7/2020	8th Hole	Rough near Sidewalk	**7.4**	**6.6**
	SS-1F (1-1.5)	6/7/2020			**2.9**	**0.057**
	SS-1G (0-0.5)	6/7/2020		Sand Trap	---	<0.022
	SS-1G (1-1.5)	6/7/2020			---	**0.028**
	SS-1H (0-0.5)	6/7/2020		Rough adjacent to Sand Trap	---	**0.13**
	SS-1H (1-1.5)	6/7/2020			---	<0.021
	SS-1K (0-0.5)	6/7/2020	9th Hole	Rough adjacent to Tee Box	---	**1.1**
	SS-1K (1-1.5)	6/7/2020			---	**0.1**
	SS-3G (0-0.5)	6/9/2020	13th Hole	Sand Trap	---	**0.15**
	SS-3G (1-1.5)	6/9/2020			---	<0.022
	SS-3I (0-0.5)	6/9/2020		Rough adjacent to Green	---	**0.92**
	SS-3I (1-1.5)	6/9/2020			---	**0.051**
	SS-3K (0-0.5)	6/9/2020		Rough	---	**0.9**
	SS-3K (1-1.5)	6/9/2020			---	**0.1**
	SS-3L (0-0.5)	6/9/2020		Rough	---	**1.4**
	SS-3L (1-1.5)	6/9/2020			---	**0.054**
	SS-4C (0-0.5)	6/11/2020	4th Hole	Rough	---	**2.5** [M1]
	Dup-11-06112020 (SS-4C 0-0.5)	6/11/2020			---	**2.1**
	SS-4C (1-1.5)	6/11/2020			---	**0.24**
	SS-5F (0-0.5)	6/12/2020	5th Hole	Rough	---	**1.9**
	Dup-13-06122020 (SS-5F (0-0.5)	6/12/2020			---	**2.0**
	SS-5F (1-1.5)	6/12/2020			---	<0.019
	SS-5H (0-0.5)	6/12/2020		Sand Trap	---	<0.021
	SS-5H (1-1.5)	6/12/2020			---	**0.025**
	SS-5I (0-0.5)	6/12/2020		Rough	---	**1.3**
	SS-5I (1-1.5)	6/12/2020			---	**0.11**
	SS-5L (0-0.5)	6/12/2020	6th Hole	Rough	---	**0.16**
	SS-5L (1-1.5)	6/12/2020			---	<0.022
	SS-10D (0-0.5)	6/9/2020	13th Hole	Rough	---	**0.87**
	SS-10D (1-1.5)	6/9/2020			---	**0.071**
	SS-10E (0-0.5)	6/9/2020	10th Hole	Rough	---	**0.22**
	SS-10E (1-1.5)	6/9/2020			---	<0.022
	SS-13C (0-0.5)	6/9/2020	13th Hole	Rough	---	<0.023
	SS-13C (1-1.5)	6/9/2020			---	**0.087**
	SS-14D (0-0.5)	6/9/2020	11th Hole	Rough	---	**0.093**
	SS-14D (1-1.5)	6/9/2020			---	<0.024
	SS-16D (0-0.5)	6/11/2020	5th Hole	Rough	---	**1.2**
	SS-16D (1-1.5)	6/11/2020			---	**0.13**
	SS-17 (0-0.5)	6/10/2020	16th Hole	Rough next to sand trap	---	**0.65**
	SS-17 (1-1.5)	6/10/2020			---	**10.0**
	SS-17B (0-0.5)	6/10/2020		Sand Trap	---	**0.05**
	SS-17B (1-1.5)	6/10/2020			---	**0.023**
	SS-17C (0-0.5)	6/10/2020		Rough	---	**0.088**
	SS-17C (1-1.5)	6/10/2020			---	**0.041**
	SS-17D (0-0.5)	6/10/2020	15th Hole	Rough	---	**0.39**
	SS-17D (1-1.5)	6/10/2020			---	**0.028**
	SS-17F (0-0.5)	6/10/2020		Rough	---	**0.16**
	SS-17F (1-1.5)	6/10/2020			---	<0.023
	SS-17H (0-0.5)	6/10/2020	12th Hole	Rough near Sidewalk	---	**1.0**
	SS-17H (1-1.5)	6/10/2020			---	**0.12**
	Dup-9-06102020 (SS-17H (1-1.5)	6/10/2020			---	**0.12**
	SS-18 (0-0.5)	6/7/2020	1st Hole	Rough	---	**0.48**
	SS-18 (1-1.5)	6/7/2020			---	**0.054**
	SS-18E (0-0.5)	6/7/2020		Rough	---	**0.13**
	SS-18E (1-1.5)	6/7/2020			---	<0.021
	SS-19 (0-0.5)	6/10/2020	3rd Hole	Rough adjacent to Fairway	---	**1.1**
	SS-19 (1-1.5)	6/10/2020			---	**0.12**
	SS-19B (0-0.5)	6/10/2020		Rough adjacent to Fairway	---	**3.1**
	SS-19B (1-1.5)	6/10/2020			---	**0.65**
	SS-19F (0-0.5)	6/10/2020		Rough	---	**0.35**
	Dup-8-06102020 (SS-19F (0-0.5)	6/10/2020			---	**0.35**
	SS-19F (1-1.5)	6/10/2020			---	**0.047**
	SS-20B (0-0.5)	6/9/2020	14th Hole	Rough adjacent to Tee Box	---	**0.33**
	Dup-3-06092020 (SS-20B (0-0.5)	6/9/2020			---	**0.26**
	SS-20B (1-1.5)	6/9/2020			---	**0.11**
	SS-20D (0-0.5)	6/9/2020		Rough adjacent to Tee Box	---	**2.8**
	SS-20D (1-1.5)	6/9/2020			---	**0.068** [M1]
	SS-21B (0-0.5)	6/11/2020	15th Hole	Rough	---	**0.1**
	SS-21B (1-1.5)	6/11/2020			---	<0.023
	SS-21G (0-0.5)	6/11/2020	16th Hole	Rough adjacent to Tee Box	---	**0.56**
	SS-21G (1-1.5)	6/11/2020			---	**0.051**
	SS-22 (0-0.5)	6/9/2020	11th Hole	Rough adjacent to Tee Box	---	**1.4**
	SS-22 (1-1.5)	6/9/2020			---	**0.038**
	SS-22D (0-0.5)	6/9/2020		Rough	---	**0.077**
	SS-22D (1-1.5)	6/9/2020			---	**0.023**
	SS-22E (0-0.5)	6/9/2020	13th Hole	Rough Adjacent to Fairway	---	**2.2**
	SS-22E (1-1.5)	6/9/2020			---	**0.15**
	SS-22I (0-0.5)	6/9/2020		Rough	---	**0.066**
	SS-22I (1-1.5)	6/9/2020			---	<0.023
	SS-23B (0-0.5)	6/10/2020	2nd Hole	Sand Trap	---	**0.029**
	SS-23B (1-1.5)	6/10/2020			---	**0.025**
	SS-23C (0-0.5)	6/10/2020		Rough	---	**1.3**
	SS-23C (1-1.5)	6/10/2020			---	**0.086**
	SS-23D (0-0.5)	6/10/2020	3rd Hole	Rough adjacent to Tee Box	---	**2.3**
	SS-23D (1-1.5)	6/10/2020			---	**0.091**
	SS-23H (0-0.5)	6/10/2020		Rough	---	**0.33**
	SS-23H (1-1.5)	6/10/2020			---	<0.022
	SS-23I (0-0.5)	6/10/2020	17th Hole	Rough	---	**1.4**
	SS-23I (1-1.5)	6/10/2020			---	**0.042**
	SS-49 (0-0.5)	6/15/2020	5th Hole	Rough	---	**0.96**
	SS-49 (1-1.5)	6/15/2020			---	<0.022 [M1]
	SS-51 (0-0.5)	6/10/2020	16th Hole	Rough adjacent to Fairway	---	**2.8**
	SS-51 (1-1.5)	6/10/2020			---	**0.21**
	ST-6 (2-4)	04/12/2019	Between 13th Hole and 11th Hole	Rough	**1.7**	<0.020
	ST-10 (1-3)	04/12/2019	16th Hole	Rough East of Hole	**2.0**	**0.027**
Residential Soil Reference Value (SRV) (mg/kg)					9	3.1
Industrial Soil Reference Value (SRV) (mg/kg)					9	3.1
Screening Soil Leaching Value (SLV) (mg/kg)					5.8	3.3

Notes

Minnesota Pollution Control Agency (MPCA) SRVs updated June 2009 and SLVs updated June 2013.

mg/kg = Milligrams per kilogram.

< = Not detected at or above the laboratory reporting limit indicated.

--- = Not analyzed or calculated for this parameter or not applicable.

[a] = Samples SS-21C (0-0.5) and SS-21C (1-1.5) were mislabeled by the lab as SS-21K (0-0.5) and SS-21K (1-1.5), respectively.

[M1] Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

[M6] Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

Exceeds Residential/Industrial SRV

Table 5
Groundwater Analytical Results
Former Hillcrest Golf Course
Saint Paul, Minnesota
Project B1903316.00

DRAFTS

Compound/Parameter	CAS No.	Sample Identifier, Depth to Groundwater, and Date Collected															Drinking Water Criteria (µg/L)	Source-Date
		MW-1	MW-2	DUP (MW-2)	MW-3	SW-1	Irrigation Well	Maintenance Well	SW-1	SW-2	SW-3	SW-4	Duplicate 5008172020	Equipment Blank	Trip Blank	Trip Blank		
		07/10/2020	07/10/2020	07/10/2020	07/10/2020	07/10/2020	07/09/2020	07/09/2020	08/17/2020	08/17/2020	08/17/2020	08/17/2020	08/17/2020	07/09/2020	07/09/2020	07/10/2020		
		North Parking Lot	Maintenance Area		South End of Site	Drainage Swale adjacent to Maintenance Area	Center of Site	Maintenance Area	Wetland Area East of 8th Hole	Central Irrigation Shed Pond	2nd Hole Pond	9th Hole Pond	9th Hold Pond	QAQC	QAQC	QAQC		
Volatile Organic Compounds (VOCs) (µg/L)																		
All reported VOCs	---	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	---	---	---	---	<RL	<RL	<RL	---	---
Semi-Volatile Organic Compounds (SVOCs) (µg/L)																		
All reported SVOCs	---	<RL	<RL	<RL	<RL	<RL	<RL	<RL	---	---	---	---	---	<RL	---	---	---	---
BaP Equivalent[c]	---	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	---	**---**	**---**	**---**	**---**	**0.0**	**---**	**---**	0.1	HBV-18
Metals (µg/L)																		
Arsenic, Dissolved	7440-38-2	<20.0	---	---	---	---	---	---	---	---	---	---	---	<20.0	---	---	10	MCL
Barium, Dissolved	7440-39-3	**156**	---	---	---	---	---	---	---	---	---	---	---	<10.0	---	---	2,000	HRL-93
Cadmium, Dissolved	7440-43-9	<3.0	---	---	---	---	---	---	---	---	---	---	---	<3.0	---	---	0.5	HRL-15
Chromium, Dissolved[d]	7440-47-3	<10.0	---	---	---	---	---	---	---	---	---	---	---	<10.0	---	---	20,000/100[d]	HRL-94
Lead, Dissolved	7439-92-1	<10.0	---	---	---	---	---	---	---	---	---	---	---	<10.0	---	---	15	MCL
Mercury, Dissolved	7439-97-6	<0.20	---	---	---	---	---	---	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	---	---	2	MCL
Mercury, Total	7439-97-6	---	---	---	---	---	---	---	<0.20	<0.20	<0.20	<0.20	<0.20	---	---	---		
Selenium, Dissolved	7782-49-2	<20.0	---	---	---	---	---	---	---	---	---	---	---	<20.0	---	---	30	HRL-93
Silver, Dissolved	7440-22-4	<10.0	---	---	---	---	---	---	---	---	---	---	---	<10.0	---	---	30	HRL-93
List 2 Pesticides (µg/L)																		
2,4-D	94-75-7	---	<0.024	**0.074** [J]	---	<0.024	---	<0.24	---	---	---	---	---	<0.24	---	---	30	HRL-18
2,4-DB	94-82-6	---	<0.032	**0.073** [J]	---	<0.032	---	<0.032	---	---	---	---	---	<0.032	---	---	NE[e]	---
2,4,5-T	93-76-5	---	<0.030	**0.071** [J]	---	<0.030	---	<0.030	---	---	---	---	---	<0.030	---	---	70	
2,4,5-TP (Silvex)	93-72-1	---	<0.016	**0.07** [J]	---	<0.016	---	<0.016	---	---	---	---	---	<0.016	---	---	50	MCL
Bentazon	25057-89-0	---	<0.012	**0.022** [J]	---	<0.012 [M]	---	<0.012	---	---	---	---	---	<0.012	---	---	30	HRL15
Dicamba	1918-00-9	---	<0.058	<0.059	---	<0.058 [M,X]	---	<0.058	---	---	---	---	---	<0.058	---	---	200	HRL93
MCPA	94-74-6	---	<0.022	**0.082** [J]	---	<0.022	---	<0.022	---	---	---	---	---	<0.022	---	---	3	HRL93
Picloram	1918-02-1	---	<0.048	**0.15** [J]	---	<0.048	---	<0.048	---	---	---	---	---	<0.048	---	---	500	HRL93
Triclopyr	55335-06-3	---	<0.031	**0.058** [J]	---	<0.031	---	<0.031	---	---	---	---	---	<0.031	---	---	NE[e]	---
Chlorothalonil	1897-45-6	---	<0.05	<0.05	---	<0.05	---	<0.05	---	---	---	---	---	<0.05	---	---	30	HRL94
Iprodione	36934-19-7	---	<0.10	<0.10	---	<0.10	---	<0.10	---	---	---	---	---	<0.10	---	---	NE[e]	---
Propiconazole	60207-90-1	---	<0.05	<0.05	---	<0.05	---	<0.05	---	---	---	---	---	<0.05	---	---	NE[e]	---
Other Parameters (µg/L)																		
Diesel Range Organics (DRO)	---	---	<100	<100	---	---	---	---	---	---	---	---	---	---	---	---	NE[e]	---
Gasoline Range Organics (GRO)	---	---	<100	<100	---	---	---	---	---	---	---	---	---	---	---	<100	NE[e]	---
Nitrate (as Nitrogen)	14797-55-8	---	**0.41**	**0.49**	---	**0.12**	<0.10	<0.10	---	---	---	---	---	<0.10	---	---	10,000	MCL
Nitrogen, Kjeldahl, Total	7727-37-9	---	<0.50	**0.8**	---	**2.9**	**0.84**	<0.80	---	---	---	---	---	<0.80	---	---	NE[e]	---
m&p-Xylene	179601-23-1	<0.0020	<0.0020	<0.0020	<0.0020	---	<0.0020	<0.0020	---	---	---	---	---	<0.0020	<0.0020	<0.0020	NE[e]	---
o-Xylene	95-47-6	<0.0010	<0.0010	<0.0010	<0.0010	---	<0.0010	<0.0010	---	---	---	---	---	<0.0010	<0.0010	<0.0010	NE[e]	---

Notes

Drinking Water Criteria = The most conservative value for chronic or cancer exposures provided from the following sources including the Minnesota Department of Health (MDH) Health Risk Limit (HRL), MDH Health Based Value (HBV), MDH Risk Assessment Advice (RAA) or Maximum Contaminant Level (MCL). The date of promulgation is provided, if available. Values updated April 2019.

µg/L = Micrograms per liter.

< = Not detected at or above the laboratory reporting limit indicated.

--- = Not analyzed or calculated for this parameter or not applicable.

RL = Reporting limits for other parameters that are not listed individually in this table because their concentrations were below reporting limits provided in the laboratory report.

NE = Regulatory limit not established for this parameter.

cPAH = Individual regulatory limit not established for this carcinogenic PAH; included in BaP equivalent calculation.

[a] = Regulatory limit for combination of cis- and trans-1,3-dichloropropene.

[b] = Regulatory limit for 4-methylphenol only.

[c] = Benzo[a]pyrene (BaP) equivalent is calculated based on the concentration and weighted toxicity of cPAHs; Minnesota Pollution Control Agency; 2009. If no cPAHs were detected above reasonable laboratory reporting limits the BaP equivalent is reported as 0 mg/kg per MPCA Remediation Division Policy; June 2011.

[d] = Reported result is total chromium, criteria for chromium III and chromium VI are provided.

[e] = No applicable standard exists. When sampling water directly from drinking water wells, refer to the Minnesota Department of Health's (MDH's) document entitled *Guidance for Evaluating Health Risks for Gasoline and Diesel Contaminated Drinking Water,* dated November 2018.

[1] The continuing calibration for this analyte exceeded 20% difference acceptance criteria for EPA method. Analyte presence below reporting limits in associated samples. No impact to data.

[2] The continuing calibration for this analyte is below 20% difference acceptance criteria for EPA method 8260D but within 50% of the true value. Instrument sensitivity verified with reporting limit check.

[J] Analyte was detected but is below the reporting limit. The concentration is estimated.

[M] The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory control limits.

[X] Precision for the matrix spike duplicate, laboratory control sample duplicate or lab duplicate was outside of control limits.

Exceeds Drinking Water Criteria

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Table 4
Soil Analytical Results - Surface Soil Samples
Former Hillcrest Golf Course
St. Paul, Minnesota
Project B1903316

Compound/Parameter	CAS No.	Sample Identifier, Sample Location, Course Location, Sample Type, and Date Collected													Residential Soil Reference Value (SRV) (mg/kg)	Industrial Soil Reference Value (SRV) (mg/kg)	Screening Soil Leaching Value (SLV) (mg/kg)
		SS-1 (0-6'')	**SS-2 (0-6'')**	**SS-3 (0-6'')**	**SS-3B (0-6'')**	**SS-3C (0-6'')**	**SS-3D (0-6'')**	**SS-3E 0-0.5'**	**SS-3F 0-0.5'**	**SS-4 (0-6'')**	**SS-5 (0-6'')**	**SS-5A 0-0.5'**	**SS-5B 0-0.5'**	**SS-5C 0-0.5'**			
		Green	Practice Green	Green	Fringe	Fringe	Down Hill of Fringe	Down Hill of Fringe	Down Hill of Fringe	Green	Green	Fringe	Fringe	Fringe			
		4-Point Composite	4-Point Composite	4-Point Composite	Grab	Grab	Grab	Grab	Grab	4-Point Composite	4-Point Composite	Grab	Grab	Grab			
		04/19/2019	04/19/2019	04/19/2019	05/01/2019	05/01/2019	05/01/2019	05/10/2019	05/10/2019	04/19/2019	04/19/2019	05/10/2019	05/10/2019	05/10/2019			
Metals (mg/kg)																	
Arsenic, Total	7440-38-2	---	<1.5	---	---	---	---	---	---	---	---	---	---	---	9	20	5.8
Barium, Total	7440-39-3	---	**16.2**	---	---	---	---	---	---	---	---	---	---	---	1,100	18,000	1,700
Cadmium, Total	7440-43-9	---	<0.22	---	---	---	---	---	---	---	---	---	---	---	25	200	8.8
Chromium, Total[e]	7440-47-3	---	**6.5**	---	---	---	---	---	---	---	---	---	---	---	44,000/87[e]	100,000/650[e]	1,000,000,000/36[e]
Lead, Total	7439-92-1	---	**2.6**	---	---	---	---	---	---	---	---	---	---	---	300	700	2,700
Mercury, Total	7439-97-6	**18.6**	**0.089**	**43.4**	**17.8**	**144**	**113**	**15.1**	**9.9**	**21.1**	**45.3**	**6.5**	**46.3**	**8.2**	0.5	1.5	3.3
Selenium, Total	7782-49-2	---	<1.5	---	---	---	---	---	---	---	---	---	---	---	160	1,300	2.6
Silver, Total	7440-22-4	---	<0.74	---	---	---	---	---	---	---	---	---	---	---	160	1,300	7.9
Organochlorine Pesticides (mg/kg)																	
All reported Organochlorine Pesticide	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Toxicity Characteristic Leaching Procedure (TCLP) - Metals (mg/L)															**Regulatory Level**		
Mercury	7439-97-6	---	---	---	---	**0.0537**	**0.0885**	---	---	---	---	---	---	---	0.2		

Exceeds Residential SRV
Exceeds Screening SLV

Notes
Minnesota Pollution Control Agency (MPCA) SRVs updated June 2009 and SLVs updated June 2013.
mg/kg = Milligrams per kilogram.
< = Not detected at or above the laboratory reporting limit indicated.
--- = Not analyzed or calculated for this parameter or not applicable.
RL = Reporting limits for other parameters that are not listed individually in this table because their concentrations were below reporting limits provided in the laboratory report.
NE = Regulatory limit not established for this parameter.
[e] = Reported result is total chromium, regulatory limit for chromium III and chromium VI are provided.

TCLP Notes
Regulatory Level = Maximum Concentration of Contaminants for the Toxicity Characteristic from 40 CFR 261.24.
mg/L = Milligrams per liter.

BRAUN INTERTEC

Table 4
Soil Analytical Results - Surface Soil Samples
Former Hillcrest Golf Course
St. Paul, Minnesota
Project B1903316

Compound/Parameter	CAS No.	Sample Identifier, Sample Location, Course Location, Sample Type, and Date Collected												Residential Soil Reference Value (SRV) (mg/kg)	Industrial Soil Reference Value (SRV) (mg/kg)	Screening Soil Leaching Value (SLV) (mg/kg)
		SS-6 (0-1')	**SS-7 (0-1')**	**SS-8 (0-6")**	**SS-8 1-2'**	**SS-9 (0-6")**	**SS-10 (0-6")**	**SS-11 0-0.5'**	**SS-12 0-0.5'**	**SS-13 0-0.5'**	**SS-14 0-0.5'**	**SS-15 0-0.5'**	**SS-16 0-0.5'**			
		Grassy Area - Wash out	Grassy Area	Tee box	Tee box	Tee box	Fairway	Tee Box	Fairway	Fairway	Fairway	Tee Box	Fairway			
		Grab	Grab	4-Point Composite	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab			
		04/19/2019	04/19/2019	05/01/2019	05/10/2019	05/01/2019	05/01/2019	05/10/2019	05/10/2019	05/10/2019	05/10/2019	05/10/2019	05/10/2019			
Metals (mg/kg)																
Arsenic, Total	7440-38-2	**2.7**	**1.8**	---	---	---	---	---	---	---	---	---	---	9	20	5.8
Barium, Total	7440-39-3	**42.1**	**21.9**	---	---	---	---	---	---	---	---	---	---	1,100	18,000	1,700
Cadmium, Total	7440-43-9	**0.49**	<0.19	---	---	---	---	---	---	---	---	---	---	25	200	8.8
Chromium, Total[e]	7440-47-3	**17.3**	**6.6**	---	---	---	---	---	---	---	---	---	---	44,000/87[e]	100,000/650[e]	1,000,000,000/36[e]
Lead, Total	7439-92-1	**12.9**	**3.6**	---	---	---	---	---	---	---	---	---	---	300	700	2,700
Mercury, Total	7439-97-6	**2.8**	**0.25**	**6.8**	**0.030**	**0.45**	**4.7**	**5.2**	**5.0**	**5.1**	**4.4**	**7.0**	**4.5**	0.5	1.5	3.3
Selenium, Total	7782-49-2	<1.3	<1.2	---	---	---	---	---	---	---	---	---	---	160	1,300	2.6
Silver, Total	7440-22-4	<0.63	<0.62	---	---	---	---	---	---	---	---	---	---	160	1,300	7.9
Organochlorine Pesticides (mg/kg)																
All reported Organochlorine Pesticide	---	<RL	<RL	---	---	---	---	---	---	---	---	---	---	---	---	---
Toxicity Characteristic Leaching Procedure (TCLP) - Metals (mg/L)														**Regulatory Level**		
Mercury	7439-97-6	---	---	---	---	---	---	---	---	---	---	---	---	0.2		

Exceeds Residential SRV
Exceeds Screening SLV

Notes
Minnesota Pollution Control Agency (MPCA) SRVs updated June 2009 and SLVs updated June 2013.
mg/kg = Milligrams per kilogram.
< = Not detected at or above the laboratory reporting limit indicated.
--- = Not analyzed or calculated for this parameter or not applicable.
RL = Reporting limits for other parameters that are not listed individually in this table because their concentrations were below reporting limits provided in the laboratory report.
NE = Regulatory limit not established for this parameter.
[e] = Reported result is total chromium, regulatory limit for chromium III and chromium VI are provided.

TCLP Notes
Regulatory Level = Maximum Concentration of Contaminants for the Toxicity Characteristic from 40 CFR 261.24.
mg/L = Milligrams per liter.

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Table 6
Groundwater Analytical Results
Former Hillcrest Golf Course
St. Paul, Minnesota
Project B1903316

Compound/Parameter	CAS No.	Sample Identifier, Depth to Groundwater, and Date Collected					Drinking Water Criteria (µg/L)	Source-Date
		ST-3 W	**ST-8 W**	**ST-12 W**	**Trip Blank-WT**	**GP-8**		
		9.4'	5.4'	13.9'	---	4.5'		
		04/13/2019	04/13/2019	04/13/2019	04/13/2019	05/07/2019		
Volatile Organic Compounds (VOCs) (µg/L)								
All reported VOCs	---	<RL	<RL	---	<RL	---	---	---
Polycyclic Aromatic Hydrocarbons (PAHs) (µg/L)								
All reported PAHs	---	<RL	---	<RL	---	---	---	---
BaP Equivalent[c]	---	0	---	0	---	---	0.06	HBV-12
Metals (µg/L)								
Arsenic, Dissolved	7440-38-2	<20.0	---	<20.0	---	<20.0	10	MCL
Barium, Dissolved	7440-39-3	**125**	---	**15.2**	---	**153**	2,000	HRL-93
Cadmium, Dissolved	7440-43-9	<3.0	---	<3.0	---	<3.0	0.5	HRL-15
Chromium, Dissolved[d]	7440-47-3	<10.0	---	<10.0	---	<10.0	20,000/100[d]	HRL-94
Lead, Dissolved	7439-92-1	<10.0	---	<10.0	---	<10.0	15	MCL
Mercury, Dissolved	7439-97-6	<0.20	---	<0.20	---	<0.20	2	MCL
Selenium, Dissolved	7782-49-2	<20.0	---	<20.0	---	<20.0	30	HRL-93
Silver, Dissolved	7440-22-4	<10.0	---	<10.0	---	<10.0	30	HRL-93
Organochlorine Pesticides (µg/L)								
All reported Organochlorine Pesticides	---	<RL	---	<RL	---	<RL	---	---
Other Parameters (µg/L)								
Diesel Range Organics (DRO)	---	<140	**540** [T6]	<140	---	---	200	HBV[e]
Gasoline Range Organics (GRO)	---	<100	---	---	<100	---	200	HBV[e]

Notes

Drinking Water Criteria = The most conservative value for chronic or cancer exposures provided from the following sources including the Minnesota Department of Health (MDH) Health Risk Limit (HRL), MDH Health Based Value (HBV), MDH Risk Assessment Advice (RAA) or Maximum Contaminant Level (MCL). The date of promulgation is provided, if available. Values updated 7/27/16.

µg/L = Micrograms per liter.

< = Not detected at or above the laboratory reporting limit indicated.

--- = Not analyzed or calculated for this parameter or not applicable.

RL = Reporting limits for other parameters that are not listed individually in this table because their concentrations were below reporting limits provided in the laboratory report.

NE = Regulatory limit not established for this parameter.

cPAH = Individual regulatory limit not established for this carcinogenic PAH; included in BaP equivalent calculation.

[c] = Benzo[a]pyrene (BaP) equivalent is calculated based on the concentration and weighted toxicity of cPAHs; Minnesota Pollution Control Agency; 2009. If no cPAHs were detected above reasonable laboratory reporting limits the BaP equivalent is reported as 0 mg/kg per MPCA Remediation Division Policy; June 2011.

[d] = Reported result is total chromium, criteria for chromium III and chromium VI are provided.

[e] = Provisional MDH Health Based Value for total petroleum hydrocarbons (sum of DRO and GRO).

[T6] = High boiling point hydrocarbons are present in the sample.

Exceeds Drinking Water Criteria

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Table 9
Soil Arsenic and Mercury Analytical Results - Tee Boxes
Former Hillcrest Golf Course
Saint Paul, Minnesota
Project B1903316.00

Compound/Parameter					Arsenic, Total (mg/kg)	Mercury, Total (mg/kg)
CAS No.					7440-38-2	7439-97-6
Sample Identifier, Date Collected, and Location Description	SS-1E (0-0.5)	6/7/2020	9th Hole	Tee Box	---	**3.9**
	SS-1E (1-1.5)	6/7/2020			---	**0.11**
	SS-1J (0-0.5)	6/7/2020	9th Hole	Tee Box	---	**5.1**
	SS-1J (1-1.5)	6/7/2020			---	**0.087**
	SS-1K (0-0.5)	6/7/2020		Rough adjacent to Tee Box	---	**1.1**
	SS-1K (1-1.5)	6/7/2020			---	**0.1**
	SS-5J (0-0.5)	6/12/2020	6th Hole	Tee Box	---	**5.5**
	SS-5J (1-1.5)	6/12/2020			---	**2.8**
	SS-5K (0-0.5)	6/12/2020		Tee Box	---	**0.055** [M1]
	Dup-14-06122020 (SS-5K (0-0.5)	6/12/2020			---	**0.053**
	SS-5K (1-1.5)	6/12/2020			---	**0.24**
	SS-5M (0-0.5)	6/12/2020		Drainage Area adjacent to Tee Box	---	**0.13**
	SS-5M (1-1.5)	6/12/2020			---	**0.3**
	SS-8 (0-0.5)	05/01/2019	10th Hole	Tee Box	---	**6.8**
	SS-8 (0-0.5)	05/10/2019			---	**0.030**
	SS-9 (0-0.5)	05/01/2019	14th Hole	Tee Box	---	**0.45**
	SS-11 (0-0.5)	5/10/2019	11th Hole	Tee Box	---	**5.2**
	SS-15 (0-0.5)	5/10/2019	5th Hole	Tee Box	---	**7.0**
	SS-20 (0-0.5)	6/9/2020	14th Hole	Tee Box	---	**0.021**
	SS-20 (1-1.5)	6/9/2020			---	**0.07**
	SS-20B (0-0.5)	6/9/2020		Rough adjacent to Tee Box	---	**0.33**
	Dup-3-06092020 (SS-20B (0-0.5)	6/9/2020			---	**0.26**
	SS-20B (1-1.5)	6/9/2020			---	**0.11**
	SS-20C (0-0.5)	6/9/2020		Tee Box	---	**6.8**
	SS-20C (1-1.5)	6/9/2020			---	**0.023**
	SS-20D (0-0.5)	6/9/2020		Rough adjacent to Tee Box	---	**2.8**
	SS-20D (1-1.5)	6/9/2020			---	**0.068** [M1]
	SS-21C (0-0.5)[a]	6/11/2020	16th Hole	Tee Box	---	**0.6**
	SS-21C (1-1.5)[a]	6/11/2020			---	**0.062**
	SS-21D (0-0.5)	6/11/2020		Tee Box	---	**0.53**
	Dup-10-06112020 (SS-21D (0-0.5)	6/11/2020			---	**0.54**
	SS-21D (1-1.5)	6/11/2020			---	**0.19**
	SS-21E (0-0.5)	6/11/2020		Tee Box	---	**0.047**
	SS-21E (1-1.5)	6/11/2020			---	<0.022
	SS-21F (0-0.5)	6/11/2020		Tee Box	---	**0.82**
	SS-21F (1-1.5)	6/11/2020			---	**0.25**
	SS-21G (0-0.5)	6/11/2020		Rough adjacent to Tee Box	---	**0.56**
	SS-21G (1-1.5)	6/11/2020			---	**0.051**
	SS-22 (0-0.5)	6/9/2020	11th Hole	Rough adjacent to Tee Box	---	**1.4**
	SS-22 (1-1.5)	6/9/2020			---	**0.038**
	SS-22B (0-0.5)	6/9/2020		Tee Box	---	**16.9**
	Dup-6-06092020 (SS-22B (0-0.5)	6/9/2020			---	**25.0**
	SS-22B (1-1.5)	6/9/2020			---	**109**
	SS-22C (0-0.5)	6/9/2020		Tee Box	---	**4.5**
	SS-22C (1-1.5)	6/9/2020			---	**0.22**
	SS-23D (0-0.5)	6/10/2020	3rd Hole	Rough adjacent to Tee Box	---	**2.3**
	SS-23D (1-1.5)	6/10/2020			---	**0.091**
	SS-23E (0-0.5)	6/10/2020		Tee Box	---	**4.8**
	SS-23E (1-1.5)	6/10/2020			---	**1.0**
	SS-23F (0-0.5)	6/10/2020		Tee Box	---	**0.042**
	SS-23F (1-1.5)	6/10/2020			---	**0.035**
	SS-23G (0-0.5)	6/10/2020		Tee Box	---	**8.0**
	SS-23G (1-1.5)	6/10/2020			---	**0.11**
	SS-24 (0-0.5)	6/12/2020	Driving Range	Tee Box	---	**0.023**
	SS-24 (1-1.5)	6/12/2020			---	<0.022
	SS-24D (0-0.5)	6/12/2020		Tee Box	---	<0.022
	SS-24D (1-1.5)	6/12/2020			---	<0.020
	SS-38 (0-0.5)	6/7/2020	2nd Hole	Tee Box	---	**0.056**
	SS-38 (1-1.5)	6/7/2020			---	**0.05**
	SS-39 (0-0.5)	6/10/2020	4th Hole	Tee Box	---	**4.4**
	SS-39 (1-1.5)	6/10/2020			---	<0.023
	SS-40 (0-0.5)	6/11/2020	7th Hole	Tee Box	---	**0.4**
	SS-40 (1-1.5)	6/11/2020			---	**0.036**
	SS-41 (0-0.5)	6/7/2020	8th Hole	Tee Box	---	**6.4**
	Dup-2-06072020 (SS-41 (0-0.5)	6/7/2020			---	**4.6**
	SS-41 (1-1.5)	6/7/2020			---	**1.6**
	SS-42 (0-0.5)	6/10/2020	12th Hole	Tee Box	---	**0.11**
	SS-42 (1-1.5)	6/10/2020			---	**7.2**
	SS-43 (0-0.5)	6/9/2020	13th Hole	Tee Box	---	**2.7**
	SS-43 (1-1.5)	6/9/2020			---	**0.16**
	SS-44 (0-0.5)	6/10/2020	15th Hole	Tee Box	---	**11.7**
	SS-44 (1-1.5)	6/10/2020			---	**0.13**
	SS-45 (0-0.5)	6/10/2020	17th Hole	Tee Box	---	**0.069**
	SS-45 (1-1.5)	6/10/2020			---	**0.028**
	SS-46 (0-0.5)	6/10/2020	18th Hole	Tee Box	---	**1.3**
	SS-46 (1-1.5)	6/10/2020			---	**0.043**
	SS-47 (0-0.5)	6/10/2020			---	**0.054**
	SS-47 (1-1.5)	6/10/2020			---	**0.025**
Residential Soil Reference Value (SRV) (mg/kg)					9	3.1
Industrial Soil Reference Value (SRV) (mg/kg)					9	3.1
Screening Soil Leaching Value (SLV) (mg/kg)					5.8	3.3

Notes

Minnesota Pollution Control Agency (MPCA) SRVs updated June 2009 and SLVs updated June 2013.

mg/kg = Milligrams per kilogram.

< = Not detected at or above the laboratory reporting limit indicated.

--- = Not analyzed or calculated for this parameter or not applicable.

[a] = Samples SS-21C (0-0.5) and SS-21C (1-1.5) were mislabeled by the lab as SS-21K (0-0.5) and SS-21K (1-1.5), respectively.

[M1] Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

[M6] Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

Exceeds Industrial SRV

Table 5
Groundwater Analytical Results
Former Hillcrest Golf Course
Saint Paul, Minnesota
Project B1903316.00

DRAFTS

Compound/Parameter	CAS No.	Sample Identifier, Depth to Groundwater, and Date Collected															Drinking Water Criteria (µg/L)	Source-Date
		MW-1	MW-2	DUP (MW-2)	MW-3	SW-1	Irrigation Well	Maintenance Well	SW-1	SW-2	SW-3	SW-4	Duplicate 5008172020	Equipment Blank	Trip Blank	Trip Blank		
		07/10/2020	07/10/2020	07/10/2020	07/10/2020	07/10/2020	07/09/2020	07/09/2020	08/17/2020	08/17/2020	08/17/2020	08/17/2020	08/17/2020	07/09/2020	07/09/2020	07/10/2020		
		North Parking Lot	Maintenance Area		South End of Site	Drainage Swale adjacent to Maintenance Area	Center of Site	Maintenance Area	Wetland Area East of 8th Hole	Central Irrigation Shed Pond	2nd Hole Pond	9th Hole Pond	9th Hold Pond	QAQC	QAQC	QAQC		
Volatile Organic Compounds (VOCs) (µg/L)																		
All reported VOCs	---	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	---	---	---	---	<RL	<RL	<RL	---	---
Semi-Volatile Organic Compounds (SVOCs) (µg/L)																		
All reported SVOCs	---	<RL	<RL	<RL	<RL	<RL	<RL	<RL	---	---	---	---	---	<RL	---	---	---	---
BaP Equivalent[c]	---	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	---	**---**	**---**	**---**	**---**	**0.0**	**---**	**---**	0.1	HBV-18
Metals (µg/L)																		
Arsenic, Dissolved	7440-38-2	<20.0	---	---	---	---	---	---	---	---	---	---	---	<20.0	---	---	10	MCL
Barium, Dissolved	7440-39-3	**156**	---	---	---	---	---	---	---	---	---	---	---	<10.0	---	---	2,000	HRL-93
Cadmium, Dissolved	7440-43-9	<3.0	---	---	---	---	---	---	---	---	---	---	---	<3.0	---	---	0.5	HRL-15
Chromium, Dissolved[d]	7440-47-3	<10.0	---	---	---	---	---	---	---	---	---	---	---	<10.0	---	---	20,000/100[d]	HRL-94
Lead, Dissolved	7439-92-1	<10.0	---	---	---	---	---	---	---	---	---	---	---	<10.0	---	---	15	MCL
Mercury, Dissolved	7439-97-6	<0.20	---	---	---	---	---	---	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	---	---	2	MCL
Mercury, Total	7439-97-6	---	---	---	---	---	---	---	<0.20	<0.20	<0.20	<0.20	<0.20	---	---	---		
Selenium, Dissolved	7782-49-2	<20.0	---	---	---	---	---	---	---	---	---	---	---	<20.0	---	---	30	HRL-93
Silver, Dissolved	7440-22-4	<10.0	---	---	---	---	---	---	---	---	---	---	---	<10.0	---	---	30	HRL-93
List 2 Pesticides (µg/L)																		
2,4-D	94-75-7	---	<0.024	**0.074** [J]	---	<0.024	---	<0.24	---	---	---	---	---	<0.24	---	---	30	HRL-18
2,4-DB	94-82-6	---	<0.032	**0.073** [J]	---	<0.032	---	<0.032	---	---	---	---	---	<0.032	---	---	NE[e]	---
2,4,5-T	93-76-5	---	<0.030	**0.071** [J]	---	<0.030	---	<0.030	---	---	---	---	---	<0.030	---	---	70	
2,4,5-TP (Silvex)	93-72-1	---	<0.016	**0.07** [J]	---	<0.016	---	<0.016	---	---	---	---	---	<0.016	---	---	50	MCL
Bentazon	25057-89-0	---	<0.012	**0.022** [J]	---	<0.012 [M]	---	<0.012	---	---	---	---	---	<0.012	---	---	30	HRL15
Dicamba	1918-00-9	---	<0.058	<0.059	---	<0.058 [M,X]	---	<0.058	---	---	---	---	---	<0.058	---	---	200	HRL93
MCPA	94-74-6	---	<0.022	**0.082** [J]	---	<0.022	---	<0.022	---	---	---	---	---	<0.022	---	---	3	HRL93
Picloram	1918-02-1	---	<0.048	**0.15** [J]	---	<0.048	---	<0.048	---	---	---	---	---	<0.048	---	---	500	HRL93
Triclopyr	55335-06-3	---	<0.031	**0.058** [J]	---	<0.031	---	<0.031	---	---	---	---	---	<0.031	---	---	NE[e]	---
Chlorothalonil	1897-45-6	---	<0.05	<0.05	---	<0.05	---	<0.05	---	---	---	---	---	<0.05	---	---	30	HRL94
Iprodione	36934-19-7	---	<0.10	<0.10	---	<0.10	---	<0.10	---	---	---	---	---	<0.10	---	---	NE[e]	---
Propiconazole	60207-90-1	---	<0.05	<0.05	---	<0.05	---	<0.05	---	---	---	---	---	<0.05	---	---	NE[e]	---
Other Parameters (µg/L)																		
Diesel Range Organics (DRO)	---	---	<100	<100	---	---	---	---	---	---	---	---	---	---	---	---	NE[e]	---
Gasoline Range Organics (GRO)	---	---	<100	<100	---	---	---	---	---	---	---	---	---	---	---	<100	NE[e]	---
Nitrate (as Nitrogen)	14797-55-8	---	**0.41**	**0.49**	---	**0.12**	<0.10	<0.10	---	---	---	---	---	<0.10	---	---	10,000	MCL
Nitrogen, Kjeldahl, Total	7727-37-9	---	<0.50	**0.8**	---	**2.9**	**0.84**	<0.80	---	---	---	---	---	<0.80	---	---	NE[e]	---
m&p-Xylene	179601-23-1	<0.0020	<0.0020	<0.0020	<0.0020	---	<0.0020	<0.0020	---	---	---	---	---	<0.0020	<0.0020	<0.0020	NE[e]	---
o-Xylene	95-47-6	<0.0010	<0.0010	<0.0010	<0.0010	---	<0.0010	<0.0010	---	---	---	---	---	<0.0010	<0.0010	<0.0010	NE[e]	---

Notes

Drinking Water Criteria = The most conservative value for chronic or cancer exposures provided from the following sources including the Minnesota Department of Health (MDH) Health Risk Limit (HRL), MDH Health Based Value (HBV), MDH Risk Assessment Advice (RAA) or Maximum Contaminant Level (MCL). The date of promulgation is provided, if available. Values updated April 2019.

µg/L = Micrograms per liter.

< = Not detected at or above the laboratory reporting limit indicated.

--- = Not analyzed or calculated for this parameter or not applicable.

RL = Reporting limits for other parameters that are not listed individually in this table because their concentrations were below reporting limits provided in the laboratory report.

NE = Regulatory limit not established for this parameter.

cPAH = Individual regulatory limit not established for this carcinogenic PAH; included in BaP equivalent calculation.

[a] = Regulatory limit for combination of cis- and trans-1,3-dichloropropene.

[b] = Regulatory limit for 4-methylphenol only.

[c] = Benzo[a]pyrene (BaP) equivalent is calculated based on the concentration and weighted toxicity of cPAHs; Minnesota Pollution Control Agency; 2009. If no cPAHs were detected above reasonable laboratory reporting limits the BaP equivalent is reported as 0 mg/kg per MPCA Remediation Division Policy; June 2011.

[d] = Reported result is total chromium, criteria for chromium III and chromium VI are provided.

[e] = No applicable standard exists. When sampling water directly from drinking water wells, refer to the Minnesota Department of Health's (MDH's) document entitled *Guidance for Evaluating Health Risks for Gasoline and Diesel Contaminated Drinking Water,* dated November 2018.

[1] The continuing calibration for this analyte exceeded 20% difference acceptance criteria for EPA method. Analyte presence below reporting limits in associated samples. No impact to data.

[2] The continuing calibration for this analyte is below 20% difference acceptance criteria for EPA method 8260D but within 50% of the true value. Instrument sensitivity verified with reporting limit check.

[J] Analyte was detected but is below the reporting limit. The concentration is estimated.

[M] The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory control limits.

[X] Precision for the matrix spike duplicate, laboratory control sample duplicate or lab duplicate was outside of control limits.

Exceeds Drinking Water Criteria

BRAUN INTERTEC

Attachment 3

2020 RI Draft Boring/Test Pit Logs

BRAUN INTERTEC

BRAUN INTERTEC
The Science You Build On.

LOG OF BORING

Project Number B1903316.00
Environmental Investigation
Former Hillcrest Golf Course
St. Paul, Minnesota

BORING: **ASB-1**

LOCATION: See attached sketch

NORTHING: EASTING:

DRILLER: Thein | LOGGED BY: G. Hanson | WEATHER: 70°, sunny

SURFACE ELEVATION: | RIG: Subcontractor | METHOD: Direct Push | ▽ During Drilling

START DATE: 06/22/20 | END DATE: 06/22/20 | SURFACING: Concrete | ▼ After Drilling

Elev./ Depth ft	Water Level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Recovery %	PID ppm	Temp. Well	Tests or Remarks
~~0.3~~		PAVEMENT, 2 inches of concrete over 2 inches of apparent aggregate base			0.0		Soil sample ASB-1 (0-0.5') @ 11:19 collected for Total Mercury, RCRA metals, Nitrate-Nitrite and Total Kjeldahl Nitrogen
0.5		POORLY GRADED SAND (SP), medium to coarse-grained, trace Gravel, brown, moist		70	0.0		
3.0		SILTY CLAY (CL-ML), trace Sand, gray to brown, moist			0.1		Soil sample ASB-1 (2-2.5') @ 11:26 collected for Total Mercury, RCRA metals, Nitrate-Nitrite and Total Kjeldahl Nitrogen
5.0		SILT (ML), trace Sand, gray to brown, moist					Soil sample ASB-1 (4-4.5') @ 11:31 collected for Total Mercury, RCRA metals, Nitrate-Nitrite and Total Kjeldahl Nitrogen
		END OF BORING					
		Boring then backfilled with bentonite grout					

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LOG OF BORING

Project Number B1903316.00
Environmental Investigation
Former Hillcrest Golf Course
St. Paul, Minnesota

BORING: **ASB-2**

LOCATION: See attached sketch

NORTHING: EASTING:

DRILLER: Thein | LOGGED BY: G. Hanson | WEATHER: 70°, sunny

SURFACE ELEVATION: | RIG: Subcontractor | METHOD: Direct Push | ▽ During Drilling

START DATE: 06/22/20 | END DATE: 06/22/20 | SURFACING: Concrete | ▽ After Drilling

Elev./ Depth ft	Water Level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Recovery %	PID ppm	Temp. Well	Tests or Remarks
~~0.3~~		PAVEMENT, 2 inches of concrete over 2 inches of apparent aggregate base			0.0		Soil sample ASB-2 (0-0.5') @ 11:52 collected for Total Mercury, Nitrate-Nitrite and Total Kjeldahl Nitrogen
~~0.5~~ 1.0		POORLY GRADED SAND with GRAVEL (SP), brown, moist		70	0.0		
3.0		LEAN CLAY with SAND (CL), mottled gray to dark brown, moist					
		SILT (ML), trace Sand, trace Gravel, gray, moist			0.6		Soil sample ASB-2 (2-2.5') @ 11:59 collected for Total Mercury, Nitrate-Nitrite and Total Kjeldahl Nitrogen
4.8							
5.0		PEAT (PT), wood debris, black, moist					Soil sample ASB-2 (4-4.5') @ 12:05 collected for Total Mercury, Nitrate-Nitrite and Total Kjeldahl Nitrogen
		END OF BORING					
		Boring then backfilled with bentonite grout					

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LOG OF BORING

Project Number B1903316.00
Environmental Investigation
Former Hillcrest Golf Course
St. Paul, Minnesota

BORING: **ASB-3**

LOCATION: See attached sketch

NORTHING: EASTING:

DRILLER: Thein | LOGGED BY: G. Hanson | WEATHER: 70°, sunny

SURFACE ELEVATION: | RIG: Subcontractor | METHOD: Direct Push | ▽ During Drilling

START DATE: 06/22/20 | END DATE: 06/22/20 | SURFACING: Asphalt | ▼ After Drilling

Elev./ Depth ft	Water Level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Recovery %	PID ppm	Temp. Well	Tests or Remarks
0.3		PAVEMENT, 1 inch of bituminous over 1 inch of apparent aggregate base			1.0		Soil sample ASB-3 (0-0.5') @ 12:27 collected for Total Mercury, Total Kjeldahl Nitrogen and Nitrate-Nitrite
2.0		CLAYEY SAND (SC), medium to coarse-grained, trace Gravel, mottled light brown to gray, moist		100	2.1		
3.5		PEAT (PT), wood debris, black, moist, organic odor					
5.0		SILTY CLAY with SAND (CL-ML), medium-grained, with Gravel, mottled gray to greenish gray, moist			0.3		Soil sample ASB-3 (2-2.5') @ 11:34 collected for Total Jkeldah Nitrogen, Nitrate-Nitrite and Total Mercury
		END OF BORING					Soil sample ASB-3 (4-4.5') @ 11:40 collected for Total Jkeldah Nitrogen, Nitrate-Nitrite and Total Mercury
		Boring then backfilled with bentonite grout					

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LOG OF BORING

Project Number B1903316.00
Environmental Investigation
Former Hillcrest Golf Course
St. Paul, Minnesota

BORING: **ASB-4**

LOCATION: See attached sketch

NORTHING: EASTING:

DRILLER: Thein | LOGGED BY: G. Hanson | WEATHER: 70°, sunny

SURFACE ELEVATION: | RIG: Subcontractor | METHOD: Direct Push | ▽ During Drilling

START DATE: 06/22/20 | END DATE: 06/22/20 | SURFACING: Asphalt | ▼ After Drilling

Elev./ Depth ft	Water Level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Recovery %	PID ppm	Temp. Well	Tests or Remarks
0.3		PAVEMENT, 2 inches of bituminous over 1 inches of apparent aggregate base			0.0		Soil sample ASB-4 (0-0.5') @ 12:57 collected for Total Mercury, List 2 Pesticides, Chlorothalonil, Iprodione, and Propiconazole
1.5		CLAYEY SAND (SC), medium-grained, trace Gravel, reddish brown, moist		90	0.0		
2.0		POORLY GRADED SAND with GRAVEL (SP), medium-grained, reddish brown, moist			0.1		Soil sample ASB-4 (2-2.5') @ 13:05 collected for Total Mercury, List 2 Pesticides, Chlorothalonil, Iprodione, and Propiconazole
5.0		CLAYEY SAND (SC), medium-grained, trace Gravel, reddish brown, moist					Soil sample ASB-4 (4-4.5') @ 13:10 collected for Total Mercury, List 2 Pesticides, Chlorothalonil, Iprodione, and Propiconazole
		END OF BORING					
		Boring then backfilled with bentonite grout					

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LOG OF BORING

Project Number B1903316.00
Environmental Investigation
Former Hillcrest Golf Course
St. Paul, Minnesota

BORING: **ASB-5-C**
LOCATION: See attached sketch
NORTHING: EASTING:
DRILLER: Thein | LOGGED BY: G. Hanson | WEATHER: 75°, sunny
SURFACE ELEVATION: | RIG: Subcontractor | METHOD: Direct Push | During Drilling
START DATE: 06/23/20 | END DATE: 06/23/20 | SURFACING: Asphalt | After Drilling

Elev./ Depth ft	Water Level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Recovery %	PID ppm	Temp. Well	Tests or Remarks
0.3		PAVEMENT, 2 inches of bituminous over 2 inches of apparent aggregate base			0.0		Soil sample ASB-5-C (0-0.5') @ 10:17 collected for Total Mercury, List 2 Pesticides, Chlorothalonil, Iprodione, and Propiconazole
2.0		SANDY LEAN CLAY with GRAVEL (CL), fine to coarse-grained, mottled gray to brown, moist		80	0.1		
4.0		SILT (ML), trace Gravel, dark brown, moist			0.0		Soil sample ASB-5-C (2-2.5') @ 10:10 collected for Total Mercury, List 2 Pesticides, Chlorothalonil, Iprodione, and Propiconazole
5.0		SANDY LEAN CLAY with GRAVEL (CL), fine to coarse-grained, mottled gray to brown, moist					Soil sample ASB-5-C (4-4.5') @ 09:50 collected for Total Mercury, List 2 Pesticides, Chlorothalonil, Iprodione, and Propiconazole
		END OF BORING					
		Boring then backfilled with bentonite grout					

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LOG OF BORING

Project Number B1903316.00
Environmental Investigation
Former Hillcrest Golf Course
St. Paul, Minnesota

BORING: **ASB-6-C**
LOCATION: See attached sketch
NORTHING: EASTING:

DRILLER: Thein | LOGGED BY: G. Hanson | WEATHER: 70°, sunny
SURFACE ELEVATION: | RIG: Subcontractor | METHOD: Direct Push | ▽ During Drilling
START DATE: 06/22/20 | END DATE: 06/22/20 | SURFACING: Asphalt | ▽ After Drilling

Elev./ Depth ft	Water Level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Recovery %	PID ppm	Temp. Well	Tests or Remarks
0.8		PAVEMENT, 8 inches of bituminous over 1 inch of apparent aggregate base			0.0		Soil sample ASB-6-C (0-0.5') @ 15:50 collected for Total Mercury, Chlorothalonil, Iprodione, and Propiconazole, and List 2 Pesticides
2.0		SANDY LEAN CLAY (CL), fine-grained, brown, moist		100	2.3		
4.0		SILT (ML), dark brown, moist, organic odor			0.0		Soil sample ASB-6-C (2-2.5') @ 15:41 collected for Total Mercury, Chlorothalonil, Iprodione, and Propiconazole, and List 2 Pesticides
5.0		SANDY LEAN CLAY (CL), trace Sand, trace Gravel, reddish brown, moist					DUP-17-06222020 of ASB-6-C (2-2.5')
		END OF BORING					Soil sample ASB-6-C (4-4.5') @ 15:30 collected for Total Mercury, List 2 Pesticides, Chlorothalonil, Iprodione, and Propiconazole
		Boring then backfilled with bentonite grout					

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LOG OF BORING

Project Number B1903316.00
Environmental Investigation
Former Hillcrest Golf Course
St. Paul, Minnesota

BORING: **ASB-7**

LOCATION: See attached sketch

NORTHING: | EASTING:

DRILLER: Thein | LOGGED BY: G. Hanson | WEATHER: 70°, sunny

SURFACE ELEVATION: | RIG: Subcontractor | METHOD: Direct Push | ▽ During Drilling

START DATE: 06/22/20 | END DATE: 06/22/20 | SURFACING: Vegetation | ▽ After Drilling

Elev./ Depth ft	Water Level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Recovery %	PID ppm	Temp. Well	Tests or Remarks
0.5		SILT with SAND (ML), roots, black, moist (TOPSOIL)			0.0		Soil sample ASB-7 (0-0.5') @ 13:30 collected for Total Mercury, Nitrate-Nitrite, Total Kjeldahl Nitrogen, Chlorothalonil, Iprodione, and Propiconazole, and List 2 Pesticides
0.8		POORLY GRADED SAND with GRAVEL (SP), yellow, moist		60	0.2		
3.0		SILT (ML), fine to medium-grained, trace Gravel, trace Sand, dark brown, moist					
		PEAT (PT), trace roots, black, organic odor			2.3		
5.0		END OF BORING					Soil sample ASB-7 (2-2.5') @ 13:40 collected for Total Mercury, Nitrate-Nitrite, Total Kjeldahl Nitrogen, Chlorothalonil, Iprodione, and Propiconazole, and List 2 Pesticides
		Boring then backfilled with bentonite grout					Soil sample ASB-7 (4-4.5') @ 13:40 collected for Total Mercury, Nitrate-Nitrite, Total Kjeldahl Nitrogen, Chlorothalonil, Iprodione, and Propiconazole, and List 2 Pesticides

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LOG OF BORING

Project Number B1903316.00
Environmental Investigation
Former Hillcrest Golf Course
St. Paul, Minnesota

BORING: **ASB-8-C**
LOCATION: See attached sketch
NORTHING: EASTING:

DRILLER: Thein | LOGGED BY: G. Hanson | WEATHER: 70°, sunny
SURFACE ELEVATION: | RIG: Subcontractor | METHOD: Direct Push | ▽ During Drilling
START DATE: 06/22/20 | END DATE: 06/22/20 | SURFACING: Asphalt | ▽ After Drilling

Elev./ Depth ft	Water Level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Recovery %	PID ppm	Temp. Well	Tests or Remarks
~~0.3~~		PAVEMENT, 4 inches of bituminous			0.1		Soil sample ASB-8-C (0-0.5') @ 16:47 collected for Total Mercury, Nitrate-Nitrite, Total Kjeldahl Nitrogen, Chlorothalonil, Iprodione, and Propiconazole, and List 2 Pesticides
0.5		CLAYEY SAND (SC), brown, moist					
0.7		POORLY GRADED GRAVEL (GP), yellow, moist			4.4		
		PEAT (PT), black, moist, organic odor		80			
					2.0		
5.0		END OF BORING					Soil sample ASB-8-C (2-2.5') @ 16:30 collected for Total Mercury, Nitrate-Nitrite, Total Kjeldahl Nitrogen, List 2 Pesticides and Chlorothalonil, Iprodione, and Propiconazole
		Boring then backfilled with bentonite grout					DUP-18-06222020 of ASB-8-C (2-2.5')
							Soil sample ASB-8-C (4-4.5') @ 16:10 collected for Total Mercury, Nitrate-Nitrite, Total Kjeldahl Nitrogen, List 2 Pesticides and Chlorothalonil, Iprodione, and Propiconazole

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LOG OF BORING

Project Number B1903316.00
Environmental Investigation
Former Hillcrest Golf Course
St. Paul, Minnesota

BORING: **ASB-9-C**

LOCATION: See attached sketch

NORTHING: EASTING:

DRILLER: Thein | LOGGED BY: G. Hanson | WEATHER: 75°, sunny

SURFACE ELEVATION: | RIG: Subcontractor | METHOD: Direct Push | ▽ During Drilling

START DATE: 06/23/20 | END DATE: 06/23/20 | SURFACING: Vegetation | ▽ After Drilling

Elev./ Depth ft	Water Level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Recovery %	PID ppm	Temp. Well	Tests or Remarks
0.8		Medium-grained, with Sand, black, moist (TOPSOIL)			0.0		Soil sample ASB-9-C (0-0.5') @ 11:27 collected for Total Mercury, Nitrate-Nitrite, Total Kjeldahl Nitrogen, List 2 Pesticides and Chlorothalonil, Iprodione, and Propiconazole
		CLAYEY SAND (SC), fine to medium-grained, with Gravel, dark brown to black, moist *Brick debris from 0 to 2 feet*		80	0.0		Soil sample ASB-9-C (2-2.5') @ 11:20 collected for Total Mercury, Nitrate-Nitrite, Total Kjeldahl Nitrogen, List 2 Pesticides and Chlorothalonil, Iprodione, and Propiconazole
4.0							
5.0		PEAT (PT), trace Sand, black, moist, organic odor, faint chemical-like odor			78.6		Soil sample ASB-9-C (4-4.5') @ 11:01 collected for Total Mercury, Nitrate-Nitrite, Total Kjeldahl Nitrogen, List 2 Pesticides and Chlorothalonil, Iprodione, and Propiconazole, VOCs, and DRO
		END OF BORING Boring then backfilled with bentonite grout					

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LOG OF BORING

Project Number B1903316.00
Environmental Investigation
Former Hillcrest Golf Course
St. Paul, Minnesota

BORING: **ASB-10**
LOCATION: See attached sketch
NORTHING: EASTING:

DRILLER: Thein | LOGGED BY: G. Hanson | WEATHER: 70°, sunny
SURFACE ELEVATION: | RIG: Subcontractor | METHOD: Direct Push | During Drilling
START DATE: 06/22/20 | END DATE: 06/22/20 | SURFACING: Concrete | After Drilling

Elev./ Depth ft	Water Level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Recovery %	PID ppm	Temp. Well	Tests or Remarks
0.2		CONCRETE, 2 inches			0.1		Soil sample ASB-10 (0-0.5') @ 10:38 collected for RCRA metals, VOCs,, Chlorothalonil, Iprodione, and Propiconazole, and List 2 Pesticides
0.4		POORLY GRADED SAND (SP), medium to coarse-grained, brown, moist					
0.5		LEAN CLAY (CL), trace Sand, brown, moist		80	0.0		
		SANDY LEAN CLAY (CL), dark brown, moist					
4.0					0.0		
5.0		SANDY LEAN CLAY (CL), medium-grained, brown, moist					Soil sample ASB-10 (2-2.5') @ 10:51 collected for RCRA metals, VOCs, Chlorothalonil, Iprodione, and Propiconazole, and List 2 Pesticides
		END OF BORING					Soil sample ASB-10 (4-4.5') @ 10:57 collected for RCRA metals, VOCs, Chlorothalonil, Iprodione, and Propiconazole, and List 2 Pesticides
		Boring then backfilled with bentonite grout					

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LOG OF BORING

Project Number B1903316.00
Environmental Investigation
Former Hillcrest Golf Course
St. Paul, Minnesota

BORING: **ASB-11-C**

LOCATION: See attached sketch

NORTHING: EASTING:

DRILLER: Thein | LOGGED BY: G. Hanson | WEATHER: 70°, sunny

SURFACE ELEVATION: | RIG: Subcontractor | METHOD: Direct Push | During Drilling

START DATE: 06/23/20 | END DATE: 06/23/20 | SURFACING: Asphalt | After Drilling

Elev./ Depth ft	Water Level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Recovery %	PID ppm	Temp. Well	Tests or Remarks
0.3		PAVEMENT, 2 inches of bituminous over 2 inches of apparent aggregate base			0.0		Soil sample ASB-11-C (0-0.5') @ 09:21 collected for Nitrate-Nitrite, Total Kjeldahl Nitrogen, Chlorothalonil, Iprodione, and Propiconazole, and List 2 Pesticides
1.5		SANDY LEAN CLAY (CL), medium to coarse-grained, mottled gray to dark brown, moist		80	0.0		
3.0		PEAT (PT), trace roots, black, moist, organic odor					
		LEAN CLAY (CL), trace Sand, trace Gravel, greenish gray, moist			0.0		Soil sample ASB-11-C (2-2.5') @ 09:14 collected for Nitrate-Nitrite, Total Kjeldahl Nitrogen, Chlorothalonil, Iprodione, and Propiconazole, and List 2 Pesticides
5.0		END OF BORING Boring then backfilled with bentonite grout					Soil sample ASB-11-C (4-4.5') @ 09:02 collected for Nitrate-Nitrite, Total Kjeldahl Nitrogen, Chlorothalonil, Iprodione, and Propiconazole, and List 2 Pesticides

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LOG OF BORING

Project Number B1903316.00
Environmental Investigation
Former Hillcrest Golf Course
St. Paul, Minnesota

BORING: **ASB-12-C**
LOCATION: See attached sketch
NORTHING: EASTING:
DRILLER: Thein | LOGGED BY: G. Hanson | WEATHER: 75°, sunny
SURFACE ELEVATION: | RIG: Subcontractor | METHOD: Direct Push | During Drilling
START DATE: 06/23/20 | END DATE: 06/23/20 | SURFACING: Asphalt | After Drilling

Elev./ Depth ft	Water Level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Recovery %	PID ppm	Temp. Well	Tests or Remarks
0.3		PAVEMENT, 2 inches of bituminous over 2 inches of apparent aggregate base			0.0		Soil sample ASB-12-C (0-0.5') @ 12:30 collected for Nitrate-Nitrite, Total Kjeldahl Nitrogen, Chlorothalonil, Iprodione, and Propiconazole, and List 2 Pesticides
		SANDY LEAN CLAY with GRAVEL (CL), fine to coarse-grained, trace brick fragments, trace concrete fragments, mottled greenish gray to dark brown		90	0.0		
4.0		PEAT (PT), black, moist, organic odor			0.1		Soil sample ASB-12-C (2-2.5') @ 12:05 collected for Nitrate-Nitrite, Total Kjeldahl Nitrogen, Chlorothalonil, Iprodione, and Propiconazole, and List 2 Pesticides
5.0		END OF BORING Boring then backfilled with bentonite grout					Soil sample ASB-12-C (4-4.5') @ 11:45 collected for Nitrate-Nitrite, Total Kjeldahl Nitrogen, Chlorothalonil, Iprodione, and Propiconazole, and List 2 Pesticides

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LOG OF BORING

Project Number B1903316.00
Environmental Investigation
Former Hillcrest Golf Course
St. Paul, Minnesota

BORING: **ASB-13-C**
LOCATION: See attached sketch
NORTHING: EASTING:
DRILLER: Thein | LOGGED BY: G. Hanson | WEATHER: 70°, sunny
SURFACE ELEVATION: | RIG: Subcontractor | METHOD: Direct Push | ▽ During Drilling
START DATE: 06/22/20 | END DATE: 06/22/20 | SURFACING: Asphalt | ▽ After Drilling

Elev./ Depth ft	Water Level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Recovery %	PID ppm	Temp. Well	Tests or Remarks
0.4		PAVEMENT, 4 inches of bituminous over 1 inches of apparent aggregate base			0.1		Soil sample ASB-13-C (0-0.5') @ 14:23 collected for Nitrate-Nitrite, Chlorothalonil, Iprodione, and Propiconazole, and List 2 Pesticides (composite)
		CLAYEY SAND (SC), with Silt, brown, moist		70	0.1		
3.0		PEAT (PT), black, moist, organic odor			3.0		Soil sample ASB-13-C (2-2.5') @ 14:30 collected for Nitrate-Nitrite, Chlorothalonil, Iprodione, and Propiconazole, and List 2 Pesticides
5.0		END OF BORING					DUP-16-06222020 of ASB-13-C (2-2.5')
		Boring then backfilled with bentonite grout					Soil sample ASB-13-C (4-4.5') @ 14:15 collected for Nitrate-Nitrite, Chlorothalonil, Iprodione, and Propiconazole, and List 2 Pesticides (discrete)
							No Peat in composite boring furthest north towards center of pavement

5 10 15 20 25 30

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LOG OF BORING

Project Number B1903316.00
Environmental Investigation
Former Hillcrest Golf Course
St. Paul, Minnesota

BORING: **SB-1**

LOCATION: See attached sketch

NORTHING: EASTING:

DRILLER: Thein | LOGGED BY: G. Hanson | WEATHER: 75°, sunny

SURFACE ELEVATION: | RIG: Subcontractor | METHOD: Direct Push | During Drilling 8.50 ft

START DATE: 06/24/20 | END DATE: 06/24/20 | SURFACING: Asphalt | After Drilling

Elev./ Depth ft	Water Level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Recovery %	PID ppm	Temp. Well	Tests or Remarks
0.2		PAVEMENT, 2 inches of bituminous			0.2		Soil sample SB-1 (0.5-1.5') @ 12:01 collected for VOCs, GRO, DRO, RCRA metals, Nitrate-Nitrite, Total Kjeldahl Nitrogen, List 2 Pesticides, and Chlorothalonil, Iprodione, and Propiconazole
1.5		CLAYEY SAND with GRAVEL (SC), medium to coarse-grained, trace brick fragments, mottled brown to dark brown, moist		100			
	▼	SANDY LEAN CLAY (CL), fine-grained, trace Gravel, brown, moist					
5					0.0		
				100			
8.5	▽	POORLY GRADED SAND (SP), fine-grained, trace Clay, brown, wet					
10					0.1		
				100			Soil sample SB-1 (TW) @ 12:53 collected for VOCs, DRO, GRO, RCRA metals, Nitrate-Nitrite, Total Kjeldahl Nitrogen, and Chlorothalonil, Iprodione, and Propiconazole, and List 2 Pesticides
15.0		END OF BORING					Temporary well installed with screen set from 10 to 15 feet
		Boring then backfilled with bentonite grout					
20							
25							
30							

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LOG OF BORING

Project Number B1903316.00
Environmental Investigation
Former Hillcrest Golf Course
St. Paul, Minnesota

BORING: **SB-2**
LOCATION: See attached sketch
NORTHING: EASTING:
DRILLER: Thein | LOGGED BY: G. Hanson | WEATHER: 75°, sunny
SURFACE ELEVATION: | RIG: Subcontractor | METHOD: Direct Push | During Drilling 14.00 ft
START DATE: 06/24/20 | END DATE: 06/24/20 | SURFACING: Vegetation | After Drilling

Elev./ Depth ft	Water Level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Recovery %	PID ppm	Temp. Well	Tests or Remarks
0.3		POORLY GRADED SAND with SILT (SP-SM), roots, dark brown, moist (TOPSOIL)			0.0		Soil sample SB-2 (0.5-1') @ 10:45 collected for VOCs, GRO, DRO, and RCRA metals
1.0		CLAYEY SAND with GRAVEL (SC), mottled gray to reddish brown and brown, moist		50			
		SANDY LEAN CLAY (CL), fine to medium-grained, with Gravel, mottled reddish brown to brown, moist					
5.0		CLAYEY SAND with GRAVEL (SC), fine to coarse-grained, reddish brown to blue, moist	5		0.0		
				100			
			10				
				100	0.0		
		Wet lens of Poorly Graded Sand at 14 feet					
15.0		POORLY GRADED SAND (SP), fine to medium-grained, brown, wet	15		0.0		
				100			
19.0					0.0		
20.0		CLAYEY SAND (SC), fine-grained, brown, wet	20				Driller noted soils getting very hard and compact at approximately 19-20'
		END OF BORING					
		Boring then backfilled with bentonite grout					A permanent well was installed with a screen set from 10 to 15 feet on 6/25/20
			25				
			30				

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LOG OF BORING

Project Number B1903316.00
Environmental Investigation
Former Hillcrest Golf Course
St. Paul, Minnesota

BORING: **SB-3**
LOCATION: See attached sketch
NORTHING: EASTING:
DRILLER: Thein | LOGGED BY: G. Hanson | WEATHER: 75°, sunny
SURFACE ELEVATION: | RIG: Subcontractor | METHOD: Direct Push | During Drilling 9.00 ft
START DATE: 06/24/20 | END DATE: 06/24/20 | SURFACING: Asphalt | After Drilling

Elev./ Depth ft	Water Level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Recovery %	PID ppm	Temp. Well	Tests or Remarks
0.5		PAVEMENT, 4 inches of bituminous over 2 inches of apparent aggregate base			0.1		
1.0		SILTY CLAY (CL-ML), cinder block debris, mottled greenish gray to brown, moist		70	0.0		Driller switched from 5' to 4' push probe after 5'
		PEAT (PT), black, moist, organic odor					
7.0		*Trace brick debris from 6 1/2 to 7 feet*		75	0.0		Soil sample SB-3 (6.5-7') @ 09:47 collected for VOCs, GRO, DRO, and PAHs
	▼	LEAN CLAY (CL), trace Sand, greenish gray, moist to wet					
	▽			100			Driller used discrete sampler to push to 15' due to Clay binding in sampler rod
13.0					0.0		
14.0		SANDY LEAN CLAY (CL), brown, moist		100			
15.0		CLAYEY SAND (SC), trace Gravel, brown, moist					
		END OF BORING					
		Boring then backfilled with bentonite grout					

DRAFT

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LOG OF BORING

Project Number B1903316.00
Environmental Investigation
Former Hillcrest Golf Course
St. Paul, Minnesota

BORING: **SB-4**
LOCATION: See attached sketch
NORTHING: EASTING:
DRILLER: Thein | LOGGED BY: G. Hanson | WEATHER: 75°, sunny
SURFACE ELEVATION: | RIG: Subcontractor | METHOD: Direct Push | During Drilling
START DATE: 06/24/20 | END DATE: 06/24/20 | SURFACING: Asphalt | After Drilling

Elev./ Depth ft	Water Level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Recovery %	PID ppm	Temp. Well	Tests or Remarks
0.3		PAVEMENT, 2 inches of bituminous over 2 inches of apparent aggregate base			190.2		Soil sample SB-4 (4-10"') @ 08:33 collected for VOCs, GRO and DRO
1.0		POORLY GRADED SAND with GRAVEL (SP), fine to coarse-grained, asphalt fragments, yellow, moist		80			
1.5		SILTY CLAY (CL-ML), brown, moist			0.0		
		PEAT (PT), black, moist, organic odor			9.2		
5				80			
8.5		LEAN CLAY (CL), trace Sand, gray, wet					
10.0		SANDY LEAN CLAY (CL), trace Gravel, brown, wet	10		12.0		
				100			
15.0		END OF BORING	15				
		Boring then backfilled with bentonite grout					
20							
25							
30							

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LOG OF BORING

Project Number B1903316.00
Environmental Investigation
Former Hillcrest Golf Course
St. Paul, Minnesota

BORING: **SB-5/MW-1**

LOCATION: See attached sketch

NORTHING: EASTING:

DRILLER: Thein | LOGGED BY: G. Hanson | WEATHER: 80°, sunny

SURFACE ELEVATION: | RIG: Subcontractor | METHOD: Direct Push | ▽ During Drilling

START DATE: 06/25/20 | END DATE: 06/25/20 | SURFACING: Vegetation | ▽ After Drilling

Elev./ Depth ft	Water Level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Recovery %	PID ppm	Temp. Well	Tests or Remarks
0.5		POORLY GRADED SAND with SILT (SP-SM), trace Gravel, black, moist (TOPSOIL)			0.1		Soil sample SB-5/MW-1 (0.5-1.5') @ 10:19 collected for VOCs, PAHs and RCRA metals
		CLAYEY SAND (SC), fine-grained, trace Gravel, brown		80			
			5	100	0.0		
			10	100	0.0		
		With Poorly Graded Sand and Clay lens at 11 feet					
13.0		SILTY SAND (SM), fine to medium-grained, trace Gravel, brown, moist to wet	15	100	0.1		
					0.0		
				100			
			20				
				100			
25.0		END OF BORING	25				DUP-20-06252020 for VOCs, PAHs and RCRA metals at 12:00 (DUP of SB-5 (0.5-1.5))
		Boring then backfilled with bentonite grout					A permanent well was installed with a screen set from 15 to 25 feet on 6/25/20
			30				

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LOG OF BORING

Project Number B1903316.00
Environmental Investigation
Former Hillcrest Golf Course
St. Paul, Minnesota

BORING: **MW-3**
LOCATION: See attached sketch
NORTHING: EASTING:
DRILLER: Thein | LOGGED BY: G. Hanson | WEATHER: 80°, sunny
SURFACE ELEVATION: | RIG: Subcontractor | METHOD: Direct Push | During Drilling
START DATE: 06/25/20 | END DATE: 06/25/20 | SURFACING: Vegetation | After Drilling

Elev./ Depth ft	Water Level	Description of Materials (Soil-ASTM D2488 or 2487; Rock-USACE EM 1110-1-2908)	Sample	Recovery %	PID ppm	Temp. Well	Tests or Remarks
1.0		POORLY GRADED SAND with SILT (SP-SM), black, moist (TOPSOIL)			0.0		
		CLAYEY SAND (SC), fine to medium-grained, with Silt, light brown to brown, moist		80			
3.5		CLAYEY SAND (SC), medium to coarse-grained, with Gravel, light brown to brown, moist	5		0.0		Installed screen and checked water level after drilling to 17' = dry
				100			
8.0		POORLY GRADED SAND (SP), medium-grained, brown, wet					
10.0		CLAYEY SAND with GRAVEL (SC), medium to coarse-grained, light brown to brown, wet	10	100	0.0		
		Poorly Graded Sand with Silt lens at 12 feet					
					0.0		
			15	100			
		Brown, wet Silt lens from 17 to 17 1/2 feet					
				75			
		Brown, wet Sandy Lean Clay lens from 19 1/2 to 20 feet	20				Temporary well installed with screen set from 20 to 25 feet
				0			No recovery from 21 to 25'. Driller pushed rock
25.0		END OF BORING	25				Driller noted soils getting very firm from 23-25'
		Boring then backfilled with bentonite grout					
			30				

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BRAUN INTERTEC LOG OF TEST TRENCH	Braun Project B19003316.00 Hillcrest Golf Course 2200 Larpenteur Avenue East Saint Paul, Minnesota	TEST TRENCH: TT-1 DATE: 6/24/2020 EXCAVATOR: Thein Well Co. LOCATION: See attached figure

Depth (ft)	PID (ppm)	Visual Classification and/or Observations	Analytical Testing
0-0.5		Poorly Graded Sand with Silt (SP-SM), black, moist (Topsoil)	
0.5-1		Clayey sand (SC), fine to medium-grained, brown, moist Continuous layer of asphalt on eastern edge	
1-1.5	0.0		
1.5-2			
2-2.5	6.0	Clayey sand (SC), about 25% debris (asphalt, plastic, paint can), mottled gray to brown, trace staining with moderate chemical odor, moist	Soil sample TT-1 (2-4') @16:30 for VOCs, DRO, GRO, PAHs, and RCRA Metals
2.5-3			
3-3.5	12.5		Soil sample TT-1 Hot Spot (2-4') @ 16:45 for VOCs, DRO, GRO, PAHs, and RCRA Metals
3.5-4			
4-4.5		Concrete slab on east end of pit	
4.5-5			
5-5.5	0.0	Apparent angular rock base underlying concrete slab	
5.5-6		Clayey sand (SC), medium-grained, brown, moist	
6-6.5			
6.5-7	0.0		
7-7.5			
7.5-8			

REMARKS: End of test trench at 8 ft bgs. Water not observed while excavating. Soil sample TT-1 (2-4') representative of debris-laden soils from 2-4 ft bgs. TT-1 Hot Spot (2-4') is representative of limited stained, odorous soils encounted from 2-4 ft bgs. Stainng is supected paint from encountered paint can. Test trench immediately backfilled.



Sidewall of test trench with asphalt, concrete slab, and aggregate base visible.



Debris-laden soil observed at 2-4 ft bgs.

Attachment 4

2020 RI Boring/Well Coordinates

BRAUN INTERTEC

Boring ID	Ramsey County Coordinates (feet)		UTM Zone 15 (meters)		Latitude / Longitude	
	Northing	Easting	Northing	Easting	Latitude	Longitude
Maintenance Building	170878.7335	597823.9431	4981270.572	499582.8891	44.98487817	-93.00529087
Irrigation Well	171601.802	597529.4736	4981491.288	499494.2178	44.98686498	-93.00641584
SB-1/TW	171096.5974	597832.8888	4981336.934	499585.9286	44.98547556	-93.00525237
SB-2/MW-2	171029.3591	597796.5436	4981316.502	499574.7587	44.98529162	-93.00539404
SB-3	170905.2853	597753.5853	4981278.763	499561.492	44.98495189	-93.00556229
SB-4	170882.8036	597723.2956	4981271.957	499552.2315	44.98489062	-93.00567975
SB-5/MW-1	173381.7758	597135.8882	4982034.146	499376.8732	44.99175166	-93.00790503
ASB-1	171126.6574	597814.2367	4981346.119	499580.2893	44.98555824	-93.00532391
ASB-2	171127.1807	597832.596	4981346.252	499585.8835	44.98555944	-93.00525295
ASB-3	171107.9671	597821.313	4981340.415	499582.4183	44.98550689	-93.0052969
ASB-4	171040.4612	597799.5219	4981319.88	499575.682	44.98532203	-93.00538233
ASB-5	170935.6542	597719.8379	4981288.064	499551.2543	44.98503561	-93.00569216
ASB-6	170931.3166	597698.2358	4981286.773	499544.6667	44.98502399	-93.00577572
ASB-7	170894.8803	597691.6648	4981275.682	499542.6122	44.98492414	-93.00580177
ASB-8	170908.0439	597728.2135	4981279.64	499553.7662	44.98495978	-93.00566029
ASB-9	170819.3714	597754.8424	4981252.586	499561.7512	44.98471625	-93.00555898
ASB-10	170934.7628	597822.6569	4981287.644	499582.578	44.98503185	-93.00529483
TT-1	172877.3382	596891.8015	4981880.815	499301.7821	44.99037132	-93.00885743
TT-2	172820.7079	596916.8973	4981863.525	499309.3462	44.99021569	-93.00876145
TT-3	172708.1569	596960.4646	4981829.172	499322.4573	44.98990646	-93.00859508
TT-4	170766.0714	597700.2221	4981236.427	499545.0336	44.98457077	-93.00577102
TT-5	170640.1838	597767.1646	4981197.977	499565.247	44.98422466	-93.00551459
TT-6	170435.174	597703.7076	4981135.61	499545.6185	44.98366322	-93.00576351
SS-1B	173276.0078	597735.5991	4982001.058	499559.4298	44.99145394	-93.00558908
SS-1C	173278.8846	597709.7794	4982001.971	499551.5677	44.99146216	-93.00568882
SS-1D	173327.7623	597677.691	4982016.909	499541.862	44.99159662	-93.00581196
SS-1E	173377.5107	597719.7415	4982032.005	499554.7449	44.99173252	-93.00564854
SS-1F	173328.7589	597772.5618	4982017.076	499570.767	44.99159814	-93.00544527
SS-1G	173238.3544	597802.3138	4981989.49	499579.7009	44.99134983	-93.00533191
SS-1H	173186.6137	597808.4492	4981973.718	499581.4956	44.99120785	-93.00530913
SS-1I	173123.3971	597662.6042	4981954.668	499536.971	44.99103634	-93.00587395
SS-1J	173385.9275	597794.3005	4982034.461	499577.4723	44.99175465	-93.00536022
SS-1K	173413.6464	597759.9484	4982042.956	499567.0465	44.99183111	-93.00549249
SS-3G	172414.839	596906.0021	4981739.888	499305.4418	44.98910271	-93.00881081
SS-3H	172458.7147	596991.2603	4981753.133	499331.48	44.98922196	-93.00848052

Boring ID	Ramsey County Coordinates (feet)		UTM Zone 15 (meters)		Latitude / Longitude	
	Northing	Easting	Northing	Easting	Latitude	Longitude
SS-3I	172452.6191	597005.6463	4981751.255	499335.854	44.98920506	-93.00842503
SS-3J	172337.0956	596944.9872	4981716.147	499317.207	44.988889	-93.00866153
SS-3K	172538.2465	596942.4398	4981777.433	499316.7209	44.9894407	-93.00866778
SS-3L	172486.2312	596880.5272	4981761.675	499297.7835	44.98929883	-93.00890799
SS-3M	172279.615	596934.4271	4981698.65	499313.9069	44.98873149	-93.00870337
SS-4B	169750.8764	596647.5363	4980928.653	499222.8569	44.98179992	-93.00985719
SS-4C	169762.8233	596689.8433	4980932.232	499235.7635	44.98183215	-93.00969349
SS-4D	169753.908	596726.1419	4980929.463	499246.8094	44.98180724	-93.00955338
SS-4E	169755.6244	596758.3209	4980929.94	499256.6156	44.98181154	-93.009429
SS-4F	169770.2892	596813.5438	4980934.328	499273.4611	44.98185106	-93.00921534
SS-5D	169625.547	597709.2069	4980888.939	499546.1269	44.9814427	-93.00575684
SS-5E	169630.8925	597676.379	4980890.615	499536.1332	44.98145778	-93.0058836
SS-5F	169600.0148	597837.9348	4980880.975	499585.3085	44.98137104	-93.00525986
SS-5G	169650.9463	597760.7643	4980896.603	499561.8711	44.9815117	-93.00555715
SS-5H	169667.2753	597759.459	4980901.58	499561.4969	44.9815565	-93.0055619
SS-5I	169696.499	597765.536	4980910.475	499563.3905	44.98163657	-93.00553789
SS-5J	169719.6322	597777.5804	4980917.505	499567.0933	44.98169986	-93.00549093
SS-5K	169789.6908	597763.5099	4980938.869	499562.9075	44.98189218	-93.00554404
SS-5L	169896.3474	597689.3594	4980971.471	499540.4705	44.98218564	-93.00582866
SS-5M	169743.5143	597815.7243	4980924.726	499578.7487	44.98176487	-93.0053431
SS-10B	172095.4997	596885.7925	4981642.627	499298.8244	44.98822716	-93.00889462
SS-10C	172089.1485	596861.4528	4981640.727	499291.3998	44.98821005	-93.0089888
SS-10D	172099.4447	596833.6724	4981643.904	499282.951	44.98823864	-93.00909598
SS-10E	172083.4878	596803.4517	4981639.086	499273.7209	44.98819526	-93.00921306
SS-10F	172092.4704	596780.9688	4981641.855	499266.8842	44.98822018	-93.00929979
SS-10G	172099.6693	596748.848	4981644.095	499257.1086	44.98824033	-93.0094238
SS-10H	172164.0202	596729.5718	4981663.728	499251.3286	44.98841706	-93.00949715
SS-13B	172077.8346	596925.4267	4981637.188	499310.8739	44.98817821	-93.00874176
SS-13C	172074.3123	596958.532	4981636.067	499320.9548	44.98816813	-93.00861388
SS-14B	170921.3	596688.3405	4981285.178	499236.9756	44.98500936	-93.00967865
SS-14C	170920.6993	596735.9507	4981284.926	499251.4798	44.98500711	-93.00949467
SS-14D	170924.9408	596622.3077	4981286.382	499216.8632	44.98502018	-93.00993377
SS-16B	169741.6966	597276.9497	4980924.949	499414.602	44.98176676	-93.00742511
SS-16C	169766.4686	597265.0759	4980932.513	499411.0202	44.98183485	-93.00747055
SS-16D	169788.2737	597254.9807	4980939.171	499407.976	44.98189478	-93.00750917

Boring ID	Ramsey County Coordinates (feet)		UTM Zone 15 (meters)		Latitude / Longitude	
	Northing	Easting	Northing	Easting	Latitude	Longitude
SS-17	170639.115	597007.2976	4981198.747	499333.7429	44.98423141	-93.00845108
SS-17B	170625.544	596988.4238	4981194.639	499327.9732	44.98419443	-93.00852426
SS-17C	170627.0931	596966.2505	4981195.143	499321.2201	44.98419896	-93.00860992
SS-17D	170624.201	596936.9351	4981194.304	499312.2847	44.9841914	-93.00872326
SS-17E	170623.6843	596877.2113	4981194.233	499294.0883	44.98419074	-93.00895407
SS-17F	170623.6563	596836.4321	4981194.283	499281.6644	44.98419118	-93.00911166
SS-17G	170625.0093	596785.9609	4981194.768	499266.2897	44.98419553	-93.00930668
SS-17H	170628.8261	596752.6062	4981195.979	499256.1333	44.98420642	-93.00943551
SS-17I	170631.4615	596727.1287	4981196.819	499248.3751	44.98421397	-93.00953392
SS-17J	170656.9375	596676.5023	4981204.653	499232.9879	44.98428448	-93.00972911
SS-18	172698.7077	597516.5977	4981825.492	499491.8762	44.98987347	-93.00644588
SS-18B	172694.1191	597465.2871	4981824.168	499476.2372	44.98986154	-93.00664427
SS-18C	172689.6375	597410.2837	4981822.882	499459.4733	44.98984995	-93.00685693
SS-18D	172688.4298	597377.1547	4981822.562	499449.3784	44.98984706	-93.00698499
SS-18E	172688.8544	597350.0365	4981822.73	499441.1172	44.98984857	-93.00708979
SS-19	171185.153	597440.5713	4981364.479	499466.532	44.98572344	-93.0067669
SS-19B	171185.1336	597421.48	4981364.501	499460.7156	44.98572363	-93.00684068
SS-19C	171195.7036	597389.2099	4981367.768	499450.8994	44.98575303	-93.0069652
SS-19D	171182.4727	597359.6665	4981363.779	499441.8796	44.98571712	-93.00707961
SS-19E	171179.3766	597335.2306	4981362.871	499434.4304	44.98570894	-93.0071741
SS-19F	171184.7343	597312.7401	4981364.536	499427.5861	44.98572392	-93.00726092
SS-20	172447.0799	597106.3369	4981749.422	499366.5226	44.98918859	-93.00803598
SS-20B	172437.5311	597126.1596	4981746.484	499372.5481	44.98916215	-93.00795954
SS-20C	172351.6997	597104.3155	4981720.366	499365.7693	44.98892703	-93.0080455
SS-20D	172318.052	597097.9612	4981710.124	499363.7849	44.98883483	-93.00807066
SS-21	170182.0442	596779.0059	4981059.824	499263.5323	44.98298076	-93.00934146
SS-21B	170164.0282	596858.7577	4981054.22	499287.8036	44.98293034	-93.00903359
SS-21C	170145.668	596924.7005	4981048.531	499307.8674	44.98287915	-93.00877909
SS-21D	170203.2527	596964.0964	4981066.018	499319.9529	44.98303658	-93.00862582
SS-21E	170153.6572	596951.5786	4981050.927	499316.0677	44.98290072	-93.00867508
SS-21F	170093.7648	596943.0288	4981032.692	499313.3765	44.98273657	-93.00870919
SS-21G	170125.089	596979.9637	4981042.182	499324.6744	44.98282201	-93.0085659
SS-22	171619.0793	596690.732	4981497.761	499238.7101	44.98692302	-93.00965697
SS-22B	171623.6413	596701.8996	4981499.135	499242.119	44.98693539	-93.00961373
SS-22C	171770.0322	596665.1876	4981543.787	499231.1453	44.98733734	-93.009753

Boring ID	Ramsey County Coordinates (feet)		UTM Zone 15 (meters)		Latitude / Longitude	
	Northing	Easting	Northing	Easting	Latitude	Longitude
SS-22D	171624.5305	596750.0163	4981499.336	499256.7796	44.98693722	-93.00942776
SS-22E	171628.8337	596814.1212	4981500.555	499276.3161	44.98694821	-93.00917994
SS-22F	171641.8745	596842.1618	4981504.487	499284.8778	44.98698362	-93.00907134
SS-22G	171630.5397	596875.5833	4981500.986	499295.0438	44.98695211	-93.00894238
SS-22H	171621.9437	596887.826	4981498.349	499298.7612	44.98692838	-93.00889522
SS-22I	171620.7437	596916.1342	4981497.943	499307.384	44.98692473	-93.00878584
SS-23	171977.4349	597512.6456	4981605.753	499489.6324	44.98789539	-93.00647413
SS-23B	171947.403	597516.1727	4981596.599	499490.6637	44.98781298	-93.00646103
SS-23C	171921.2627	597476.0868	4981588.693	499478.4134	44.9877418	-93.00661642
SS-23D	171914.5131	597433.6414	4981586.697	499465.4722	44.98772383	-93.00678058
SS-23E	171922.7025	597411.6664	4981589.224	499458.789	44.98774657	-93.00686536
SS-23F	171820.5671	597402.8724	4981558.12	499455.9626	44.98746657	-93.00690118
SS-23G	171718.0376	597382.2215	4981526.913	499449.5232	44.98718564	-93.00698283
SS-23H	171676.3473	597363.5468	4981514.238	499443.7737	44.98707154	-93.00705575
SS-23I	171677.7746	597290.064	4981514.779	499421.3883	44.98707639	-93.00733971
SS-23J	171682.1274	597223.8854	4981516.201	499401.2325	44.98708917	-93.00759539
SS-23K	171578.1874	597215.9216	4981484.546	499398.6564	44.98680421	-93.00762803
SS-24	172630.0741	596504.043	4981806.042	499183.2904	44.98969809	-93.01036047
SS-24B	172738.9171	596459.5325	4981839.266	499169.8867	44.98999716	-93.01053056
SS-24C	172590.3045	596375.6382	4981794.11	499144.113	44.98959064	-93.01085744
SS-24D	172556.4745	596512.6797	4981783.606	499185.8156	44.98949613	-93.0103284
SS-24E	172489.562	596422.5219	4981763.35	499158.2515	44.98931376	-93.01067803
SS-24F	172489.9621	596326.597	4981763.611	499129.0274	44.98931606	-93.01104875
MW-3	169741.6966	597236.9497	4980925.006	499402.4155	44.98176727	-93.00757968
SED-1	173338.229	597493.0498	4982020.364	499485.624	44.99162769	-93.0065254
SED-1A	173309.215	597476.9718	4982011.547	499480.6838	44.99154832	-93.00658806
SED-2A	173112.6513	597786.5307	4981951.216	499574.7112	44.99100528	-93.00539517
SED-2	173097.4397	597778.0566	4981946.594	499572.1076	44.99096367	-93.0054282
SED-3A	172207.3344	597494.7953	4981675.821	499484.5255	44.98852613	-93.00653898
SED-3	172145.925	597476.1906	4981657.138	499478.7688	44.98835795	-93.00661199
SED-4	171821.2462	597530.9455	4981558.142	499494.9825	44.9874668	-93.00640621
SED-4A	171685.168	597460.4313	4981516.786	499473.3034	44.9870945	-93.00668117
SED-5	170842.1173	597686.6431	4981259.615	499541.0062	44.9847795	-93.00582212
SED-6	170164.786	597751.4948	4981053.164	499559.7877	44.98292106	-93.00558371
SOIL-1	170390.7775	597220.6462	4981122.78	499398.3841	44.98354762	-93.00763105

Boring ID	Ramsey County Coordinates (feet)		UTM Zone 15 (meters)		Latitude / Longitude	
	Northing	Easting	Northing	Easting	Latitude	Longitude
SED-7A	170338.0469	597113.7956	4981106.869	499365.7548	44.98340436	-93.00804491
SED-7B	170280.7963	597148.4092	4981089.377	499376.2177	44.98324691	-93.00791218
SED-7C	170232.5853	597184.5277	4981074.637	499387.1522	44.98311423	-93.00777346
SED-7D	170206.9732	597214.6265	4981066.791	499396.2852	44.9830436	-93.00765761
SED-7	170198.6943	597170.6163	4981064.332	499382.865	44.98302146	-93.00782783
ASB-13	170896.7015	597674.5904	4981276.262	499537.4129	44.98492936	-93.00586772
ASB-11	170913.4534	597752.4556	4981281.253	499561.1596	44.9849743	-93.0055665
ASB-12	170874.9328	597773.4165	4981269.487	499567.4901	44.98486839	-93.0054862
SW-1	170856.7786	597687.7146	4981264.08	499541.3538	44.9848197	-93.00581772
SS-25	172364.526	597442.0402	4981723.787	499468.6796	44.98895791	-93.00674004
SS-26	170232.774	597426.5268	4981074.346	499460.8803	44.98311167	-93.00683828
SS-27	170742.7231	597573.1098	4981229.497	499506.2737	44.98450836	-93.00626266
SS-28	173352.4708	597362.6607	4982024.891	499445.9199	44.99166841	-93.00702909
SS-29	171944.3001	596701.1194	4981596.828	499242.3435	44.98781483	-93.00961103
SS-30	170577.8734	596681.7943	4981180.558	499234.4862	44.98406757	-93.00971007
SS-31	170830.616	596866.1486	4981257.293	499291.0163	44.9847584	-93.00899313
SS-32	170925.5652	596995.1067	4981286.035	499330.4417	44.98501717	-93.00849307
SS-33	169906.2717	596683.4203	4980975.944	499234.0134	44.98222565	-93.00971575
SS-34	170641.0419	597027.0092	4981199.305	499339.7511	44.98423644	-93.00837487
SS-35	171816.6747	597211.852	4981557.209	499397.7603	44.98745833	-93.00763949
SS-37	172950.2597	596829.1513	4981903.121	499282.8001	44.9905721	-93.00909826
SS-38	172376.3534	597366.8947	4981727.499	499445.8027	44.9889913	-93.00703025
SS-39	170438.1893	597269.6268	4981137.154	499413.375	44.98367703	-93.00744092
SS-40	171217.7313	597658.4754	4981374.09	499532.9661	44.98581	-93.00592421
SS-41	172386.5748	597802.2124	4981729.985	499578.4422	44.98901378	-93.00534766
SS-42	170351.7977	596679.859	4981111.684	499233.5707	44.98344757	-93.00972157
SS-43	171212.8481	596835.8504	4981373.789	499282.3365	44.98580708	-93.00910339
SS-44	170801.5347	596963.3896	4981248.293	499320.6	44.98467741	-93.00861786
SS-45	170434.8976	597161.7832	4981136.307	499380.5144	44.98366937	-93.00785773
SS-46	171897.5892	597262.7656	4981581.788	499413.3884	44.98767959	-93.00744127
SS-47	171893.5387	597346.7106	4981580.433	499438.9574	44.98766742	-93.00711692
SS-48	172140.469	597516.8425	4981655.418	499491.1461	44.98834247	-93.00645498
SS-49	170088.0656	597622.0811	4981029.977	499520.2497	44.9827123	-93.00608519
SS-50	171690.2593	597728.1282	4981517.951	499554.8678	44.98710505	-93.00564652
SS-51	170344.0297	596990.0132	4981108.87	499328.0517	44.98342234	-93.00852315

Boring ID	Ramsey County Coordinates (feet)		UTM Zone 15 (meters)		Latitude / Longitude	
	Northing	Easting	Northing	Easting	Latitude	Longitude
SS-36	172999.5465	597211.7486	4981917.586	499399.4339	44.99070242	-93.00761869
DSS-1	173186.6007	596839.5728	4981975.11	499286.3158	44.99122015	-93.00905377
DSS-2	173151.6256	596833.4363	4981964.464	499284.3958	44.9911243	-93.00907811
DSS-3	173120.6168	596895.8841	4981954.926	499303.3766	44.99103847	-93.00883731
DSS-4	173096.8193	596751.4962	4981947.884	499259.3528	44.99097503	-93.00939578
DSS-5	173069.7767	596722.9795	4981939.687	499250.6259	44.99090123	-93.00950647
DSS-6	173029.0325	596723.3405	4981927.273	499250.6771	44.99078948	-93.00950581
DSS-7	173007.89	596759.847	4981920.779	499261.7688	44.99073103	-93.00936509
DSS-8	173028.5233	596789.1289	4981927.023	499270.7196	44.99078725	-93.00925155
DSS-9	173074.0977	596794.8036	4981940.9	499272.5142	44.99091217	-93.0092288
DSS-10	173054.1447	596826.8094	4981934.774	499282.2364	44.99085704	-93.00910546
DSS-11	173073.871	596852.6865	4981940.747	499290.1485	44.99091081	-93.0090051
DSS-12	173083.1673	596925.0968	4981943.475	499312.2226	44.99093539	-93.00872507
DSS-13	173030.3372	596894.9069	4981927.423	499302.9488	44.99079088	-93.00884269
DSS-14	172952.2552	596914.0286	4981903.607	499308.6618	44.9905765	-93.00877019
DSS-15	172902.6603	596933.0125	4981888.47	499314.374	44.99044024	-93.0086977
DSS-16	172932.9278	597029.0271	4981897.553	499343.6696	44.99052203	-93.00832608
DSS-17	172999.2974	597090.3596	4981917.685	499362.451	44.99070328	-93.00808785
DSS-18	173077.3363	597054.2172	4981941.512	499351.5523	44.99091776	-93.00822614
TT-10	172773.7345	596930.6422	4981849.194	499313.466	44.99008669	-93.00870917
TT-9	172823.4193	596998.4073	4981864.234	499334.1831	44.99022209	-93.00844638
TT-8	172920.2865	596886.7055	4981893.907	499300.2915	44.99048917	-93.00887636
TT-7	172860.9968	596923.4066	4981875.79	499311.3874	44.9903261	-93.00873557
PW-3B	172155.9477	597406.6011	4981660.292	499457.582	44.98838632	-93.00688075
SW-1	170405.8869	597786.5463	4981126.568	499570.8141	44.98358184	-93.00544391
SW-2	171712.6815	597467.2717	4981525.158	499475.4271	44.98716987	-93.00665424
SW-3	172128.2568	597445.0509	4981651.8	499469.2563	44.98830989	-93.00673265
SW-4	173295.4713	597534.7648	4982007.277	499498.2713	44.99150989	-93.00636494
PW-1B	173378.139	597454.0431	4982032.579	499473.7976	44.99173764	-93.00667544
PW-1D	173306.9643	597656.9432	4982010.602	499535.511	44.99153985	-93.00589252
PW-1E	173251.0082	597573.7615	4981993.675	499510.088	44.99138745	-93.00621502
PW-1F	173186.4216	597564.2042	4981974.011	499507.0831	44.99121044	-93.00625312
PW-1G	173239.3677	597494.2542	4981990.243	499485.8484	44.99135654	-93.00652252
PW-1H	173188.3534	597460.5969	4981974.749	499475.5207	44.99121706	-93.00665352
PW-2B	173058.6053	597819.0616	4981934.703	499584.5442	44.99085664	-93.00527042

Boring ID	Ramsey County Coordinates (feet)		UTM Zone 15 (meters)		Latitude / Longitude	
	Northing	Easting	Northing	Easting	Latitude	Longitude
PW-2C	173071.5125	597747.041	4981938.739	499562.6209	44.99089296	-93.00554854
PW-2E	173029.2921	597820.4093	4981925.771	499584.9126	44.99077623	-93.00526574
PW-2F	173113.1222	597741.3203	4981951.424	499560.938	44.99100715	-93.0055699
PW-2G	172897.3335	597767.8099	4981885.644	499568.6973	44.990415	-93.00547141
PW-2H	172887.1023	597824.1026	4981882.445	499585.8328	44.99038622	-93.00525403
PW-2I	172900.0301	597717.4153	4981886.538	499553.3479	44.99042304	-93.00566613
PW-2J	172902.0091	597692.9577	4981887.176	499545.8994	44.99042878	-93.00576062
PW-3A	172221.4872	597396.3401	4981680.274	499454.5504	44.9885662	-93.00691923
PW-3D	172087.8378	597434.7542	4981639.501	499466.061	44.98819917	-93.00677317
PW-4B	171658.4592	597558.4092	4981508.508	499503.115	44.98702	-93.006303
PW-4C	171787.5437	597625.0406	4981547.739	499523.6012	44.98737317	-93.00604317
PW-5A	171346.7473	597551.6597	4981413.551	499500.6094	44.9861652	-93.00633469
PW-5B	171208.3686	597564.1317	4981371.374	499504.2096	44.98578553	-93.00628898
PW-5C	171135.2193	597574.6596	4981349.073	499507.3116	44.98558478	-93.00624961
PW-5D	171037.3554	597518.4795	4981319.339	499490.0546	44.9853171	-93.00646848
PW-5E	170967.371	597514.8796	4981298.022	499488.857	44.98512521	-93.00648365
PW-5G	170758.3959	597691.4665	4981234.101	499542.3551	44.98454983	-93.00580499
PW-6A	170460.3429	597780.1646	4981143.168	499568.9483	44.98373127	-93.00546759
PW-6F	169984.1524	597802.2156	4980998.059	499574.98	44.98242501	-93.00539096
PW-6H	170612.3129	597698.5	4981189.585	499544.2873	44.9841491	-93.00578044
PW-6I	170580.5675	597735.7709	4981179.859	499555.5966	44.98406156	-93.00563698
PW-6K	170748.7789	597831.0282	4981230.97	499584.8603	44.98452167	-93.00526583
PW-7C	170316.7069	597089.0349	4981100.403	499358.1804	44.98334615	-93.00814098
PW-1A	173368.831	597469.1162	4982029.721	499478.3764	44.99171192	-93.00661735
PW-1C	173312.2731	597658.4786	4982012.217	499535.9864	44.99155439	-93.00588649
PW-2A	173052.7716	597798.0223	4981932.956	499578.1259	44.99084091	-93.00535184
PW-2D	173057.3762	597748.649	4981934.43	499563.0904	44.99085417	-93.00554258
PW-3C	172104.255	597424.1571	4981644.518	499462.8562	44.98824433	-93.00681383
PW-4A	171689.3526	597471.9265	4981518.044	499476.8116	44.98710583	-93.00663667
PW-4D	171793.5121	597628.0765	4981549.553	499524.5347	44.9873895	-93.00603133
PW-5F	170765.9957	597701.0805	4981236.402	499545.295	44.98457055	-93.0057677
PW-6B	170457.6899	597787.5105	4981142.349	499571.1825	44.9837239	-93.00543925
PW-6C	170404.9114	597828.3191	4981126.21	499583.5393	44.98357863	-93.0052825
PW-6D	170392.2285	597690.435	4981122.545	499541.513	44.98354561	-93.00581557
PW-6E	169971.2897	597813.4367	4980994.124	499578.3801	44.98238959	-93.00534783

Boring ID	Ramsey County Coordinates (feet)		UTM Zone 15 (meters)		Latitude / Longitude	
	Northing	Easting	Northing	Easting	Latitude	Longitude
PW-6G	170027.3627	597845.711	4981011.161	499588.2937	44.98254296	-93.0052221
PW-6J	170565.3687	597833.2064	4981175.088	499585.2595	44.98401863	-93.00526072
PW-7A	170224.7927	597187.4193	4981072.259	499388.0219	44.98309282	-93.00776243
PW-7B	170208.4532	597199.0674	4981067.264	499391.5471	44.98304786	-93.00771771
PW-7D	170325.7695	597120.8814	4981103.119	499367.8959	44.9833706	-93.00801775

Attachment 5

2020 RI Laboratory Analytical Reports

BRAUN INTERTEC

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

June 17, 2020

Mark Keefer
Braun Intertec
11001 Hampshire Ave S
Bloomington, MN 55438

RE: Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Dear Mark Keefer:

Enclosed are the analytical results for sample(s) received by the laboratory on June 10, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bob Michels
bob.michels@pacelabs.com
(612)709-5046
Project Manager

Enclosures

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Pace Analytical Services Minneapolis

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10521027001	SS-28 (0-0.5)	Solid	06/07/20 11:20	06/10/20 11:25
10521027002	SS-28 (1-1.5)	Solid	06/07/20 11:21	06/10/20 11:25
10521027003	SS-1D (0-0.5)	Solid	06/07/20 11:40	06/10/20 11:25
10521027004	SS-1D (1-1.5)	Solid	06/07/20 11:41	06/10/20 11:25
10521027005	SS-1C (0-0.5)	Solid	06/07/20 11:55	06/10/20 11:25
10521027006	SS-1C (1-1.5)	Solid	06/07/20 11:56	06/10/20 11:25
10521027007	SS-1B (0-0.5)	Solid	06/07/20 12:06	06/10/20 11:25
10521027008	SS-1B (1-1.5)	Solid	06/07/20 12:07	06/10/20 11:25
10521027009	SS-1F (0-0.5)	Solid	06/07/20 12:20	06/10/20 11:25
10521027010	SS-1F (1-1.5)	Solid	06/07/20 12:21	06/10/20 11:25
10521027011	SS-1E (0-0.5)	Solid	06/07/20 12:35	06/10/20 11:25
10521027012	SS-1E (1-1.5)	Solid	06/07/20 12:36	06/10/20 11:25
10521027013	SS-1K (0-0.5)	Solid	06/07/20 12:44	06/10/20 11:25
10521027014	SS-1K (1-1.5)	Solid	06/07/20 12:45	06/10/20 11:25
10521027015	SS-1J (0-0.5)	Solid	06/07/20 12:54	06/10/20 11:25
10521027016	SS-1J (1-1.5)	Solid	06/07/20 12:55	06/10/20 11:25
10521027017	SS-1G (0-0.5)	Solid	06/07/20 13:07	06/10/20 11:25
10521027018	SS-1G (1-1.5)	Solid	06/07/20 13:08	06/10/20 11:25
10521027019	SS-1H (0-0.5)	Solid	06/07/20 13:16	06/10/20 11:25
10521027020	SS-1H (1-1.5)	Solid	06/07/20 13:17	06/10/20 11:25
10521027021	SS-1I (0-0.5)	Solid	06/07/20 13:27	06/10/20 11:25
10521027022	SS-1I (1-1.5)	Solid	06/07/20 13:28	06/10/20 11:25
10521027023	SS-18E (0-0.5)	Solid	06/07/20 13:49	06/10/20 11:25
10521027024	SS-18E (1-1.5)	Solid	06/07/20 13:50	06/10/20 11:25
10521027025	SS-18D (0-0.5)	Solid	06/07/20 14:04	06/10/20 11:25
10521027026	SS-18D (1-1.5)	Solid	06/07/20 14:05	06/10/20 11:25
10521027027	SS-18C (0-0.5)	Solid	06/07/20 14:18	06/10/20 11:25
10521027028	SS-18C (1-1.5)	Solid	06/07/20 14:19	06/10/20 11:25
10521027029	Dup-1-06072020	Solid	06/07/20 12:00	06/10/20 11:25
10521027030	SS-18B (0-0.5)	Solid	06/07/20 14:34	06/10/20 11:25
10521027031	SS-18B (1-1.5)	Solid	06/07/20 14:35	06/10/20 11:25
10521027032	SS-18 (0-0.5)	Solid	06/07/20 14:45	06/10/20 11:25
10521027033	SS-18 (1-1.5)	Solid	06/07/20 14:47	06/10/20 11:25
10521027034	SS-38 (0-0.5)	Solid	06/07/20 15:10	06/10/20 11:25
10521027035	SS-38 (1-1.5)	Solid	06/07/20 15:11	06/10/20 11:25
10521027036	SS-25 (0-0.5)	Solid	06/07/20 15:24	06/10/20 11:25
10521027037	SS-25 (1-1.5)	Solid	06/07/20 15:25	06/10/20 11:25

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10521027038	SS-48 (0-0.5)	Solid	06/07/20 15:38	06/10/20 11:25
10521027039	SS-48 (1-1.5)	Solid	06/07/20 15:40	06/10/20 11:25
10521027040	SS-50 (0-0.5)	Solid	06/07/20 16:01	06/10/20 11:25
10521027041	SS-50 (1-1.5)	Solid	06/07/20 16:03	06/10/20 11:25
10521027042	SS-41 (0-0.5)	Solid	06/07/20 14:15	06/10/20 11:25
10521027043	Dup-2-06072020	Solid	06/07/20 12:01	06/10/20 11:25
10521027044	SS-41 (1-1.5)	Solid	06/07/20 14:16	06/10/20 11:25
10521027045	SS-3I (0-0.5)	Solid	06/09/20 07:54	06/10/20 11:25
10521027046	SS-3I (1-1.5)	Solid	06/09/20 07:56	06/10/20 11:25
10521027047	SS-3H (0-0.5)	Solid	06/09/20 08:06	06/10/20 11:25
10521027048	SS-3H (1-1.5)	Solid	06/09/20 08:08	06/10/20 11:25
10521027049	SS-3K (0-0.5)	Solid	06/09/20 08:18	06/10/20 11:25
10521027050	SS-3K (1-1.5)	Solid	06/09/20 08:20	06/10/20 11:25
10521027051	SS-3L (0-0.5)	Solid	06/09/20 08:28	06/10/20 11:25
10521027052	SS-3L (1-1.5)	Solid	06/09/20 08:30	06/10/20 11:25
10521027053	SS-3G (0-0.5)	Solid	06/09/20 08:35	06/10/20 11:25
10521027054	SS-3G (1-1.5)	Solid	06/09/20 08:37	06/10/20 11:25
10521027055	SS-20 (0-0.5)	Solid	06/09/20 08:53	06/10/20 11:25
10521027056	Dup-3-06092020	Solid	06/09/20 12:02	06/10/20 11:25
10521027057	SS-20 (1-1.5)	Solid	06/09/20 08:55	06/10/20 11:25
10521027058	SS-20B (0-0.5)	Solid	06/09/20 09:03	06/10/20 11:25
10521027059	SS-20B (1-1.5)	Solid	06/09/20 09:05	06/10/20 11:25
10521027060	SS-20D (0-0.5)	Solid	06/09/20 09:15	06/10/20 11:25
10521027061	SS-20D (1-1.5)	Solid	06/09/20 09:17	06/10/20 11:25
10521027062	SS-20C (0-0.5)	Solid	06/09/20 09:25	06/10/20 11:25
10521027063	SS-20C (1-1.5)	Solid	06/09/20 09:28	06/10/20 11:25
10521027064	SS-3J (0-0.5)	Solid	06/09/20 09:40	06/10/20 11:25
10521027065	SS-3J (1-1.5)	Solid	06/09/20 09:42	06/10/20 11:25
10521027066	SS-3M (0-0.5)	Solid	06/09/20 09:53	06/10/20 11:25
10521027067	SS-3M (1-1.5)	Solid	06/09/20 09:55	06/10/20 11:25
10521027068	SS-13C (0-0.5)	Solid	06/09/20 10:19	06/10/20 11:25
10521027069	SS-13C (1-1.5)	Solid	06/09/20 10:20	06/10/20 11:25
10521027070	SS-13B (0-0.5)	Solid	06/09/20 10:30	06/10/20 11:25
10521027071	SS-13B (1-1.5)	Solid	06/09/20 10:31	06/10/20 11:25
10521027072	SS-10C (0-0.5)	Solid	06/09/20 10:39	06/10/20 11:25
10521027073	SS-10C (1-1.5)	Solid	06/09/20 10:40	06/10/20 11:25
10521027074	SS-10B (0-0.5)	Solid	06/09/20 10:55	06/10/20 11:25

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(612)607-1700

SAMPLE SUMMARY

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10521027075	**SS-10B (1-1.5)**	Solid	06/09/20 10:56	06/10/20 11:25
10521027076	**SS-10D (0-0.5)**	Solid	06/09/20 10:59	06/10/20 11:25
10521027077	**SS-10D (1-1.5)**	Solid	06/09/20 11:00	06/10/20 11:25
10521027078	**SS-10E (0-0.5)**	Solid	06/09/20 11:15	06/10/20 11:25
10521027079	**SS-10E (1-1.5)**	Solid	06/09/20 11:16	06/10/20 11:25
10521027080	**SS-10F (0-0.5)**	Solid	06/09/20 11:20	06/10/20 11:25
10521027081	**SS-10F (1-1.5)**	Solid	06/09/20 11:21	06/10/20 11:25
10521027082	**Dup-5-06092020**	Solid	06/09/20 12:06	06/10/20 11:25
10521027083	**SS-10G (0-0.5)**	Solid	06/09/20 11:34	06/10/20 11:25
10521027084	**SS-10G (1-1.5)**	Solid	06/09/20 11:35	06/10/20 11:25
10521027085	**SS-10H (0-0.5)**	Solid	06/09/20 11:55	06/10/20 11:25
10521027086	**SS-10H (1-1.5)**	Solid	06/09/20 11:56	06/10/20 11:25
10521027087	**SS-22C (0-0.5)**	Solid	06/09/20 12:30	06/10/20 11:25
10521027088	**SS-22C (1-1.5)**	Solid	06/09/20 12:32	06/10/20 11:25
10521027089	**SS-22 (0-0.5)**	Solid	06/09/20 12:45	06/10/20 11:25
10521027090	**SS-22 (1-1.5)**	Solid	06/09/20 12:47	06/10/20 11:25
10521027091	**SS-22B (0-0.5)**	Solid	06/09/20 12:56	06/10/20 11:25
10521027092	**SS-22B (1-1.5)**	Solid	06/09/20 12:58	06/10/20 11:25
10521027093	**Dup-6-06092020**	Solid	06/09/20 12:07	06/10/20 11:25
10521027094	**SS-22D (0-0.5)**	Solid	06/09/20 13:02	06/10/20 11:25
10521027095	**SS-22D (1-1.5)**	Solid	06/09/20 13:05	06/10/20 11:25
10521027096	**SS-22E (0-0.5)**	Solid	06/09/20 13:13	06/10/20 11:25
10521027097	**SS-22E (1-1.5)**	Solid	06/09/20 13:15	06/10/20 11:25
10521027098	**SS-22F (0-0.5)**	Solid	06/09/20 13:19	06/10/20 11:25
10521027099	**SS-22F (1-1.5)**	Solid	06/09/20 13:22	06/10/20 11:25
10521027100	**SS-22G (0-0.5)**	Solid	06/09/20 13:29	06/10/20 11:25
10521027101	**SS-22G (1-1.5)**	Solid	06/09/20 13:31	06/10/20 11:25
10521027102	**SS-22H (0-0.5)**	Solid	06/09/20 13:36	06/10/20 11:25
10521027103	**SS-22H (1-1.5)**	Solid	06/09/20 13:38	06/10/20 11:25
10521027104	**SS-22I (0-0.5)**	Solid	06/09/20 13:44	06/10/20 11:25
10521027105	**SS-22I (1-1.5)**	Solid	06/09/20 13:46	06/10/20 11:25
10521027106	**SS-43 (0-0.5)**	Solid	06/09/20 14:03	06/10/20 11:25
10521027107	**SS-43 (1-1.5)**	Solid	06/09/20 14:04	06/10/20 11:25
10521027108	**SS-32 (0-0.5)**	Solid	06/09/20 14:14	06/10/20 11:25
10521027109	**SS-32 (1-1.5)**	Solid	06/09/20 14:15	06/10/20 11:25
10521027110	**SS-14C (0-0.5)**	Solid	06/09/20 14:23	06/10/20 11:25
10521027111	**SS-14C (1-1.5)**	Solid	06/09/20 14:24	06/10/20 11:25

REPORT OF LABORATORY ANALYSIS

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(612)607-1700

SAMPLE SUMMARY

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10521027112	**SS-14B (0-0.5)**	Solid	06/09/20 14:30	06/10/20 11:25
10521027113	**SS-14B (1-1.5)**	Solid	06/09/20 14:31	06/10/20 11:25
10521027114	**SS-14D (0-0.5)**	Solid	06/09/20 14:44	06/10/20 11:25
10521027115	**SS-14D (1-1.5)**	Solid	06/09/20 14:45	06/10/20 11:25
10521027116	**SS-29 (0-0.5)**	Solid	06/09/20 14:54	06/10/20 11:25
10521027117	**SS-29 (1-1.5)**	Solid	06/09/20 14:55	06/10/20 11:25
10521027118	**Dup-4-06092020**	Solid	06/09/20 12:03	06/10/20 11:25

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SAMPLE ANALYTE COUNT

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10521027001	**SS-28 (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027002	**SS-28 (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027003	**SS-1D (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027004	**SS-1D (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027005	**SS-1C (0-0.5)**	EPA 6010D	DM	1	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027006	**SS-1C (1-1.5)**	EPA 6010D	DM	1	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027007	**SS-1B (0-0.5)**	EPA 6010D	DM	1	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027008	**SS-1B (1-1.5)**	EPA 6010D	DM	1	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027009	**SS-1F (0-0.5)**	EPA 6010D	DM	1	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027010	**SS-1F (1-1.5)**	EPA 6010D	DM	1	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027011	**SS-1E (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027012	**SS-1E (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027013	**SS-1K (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027014	**SS-1K (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027015	**SS-1J (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027016	**SS-1J (1-1.5)**	EPA 7471B	LMW	1	PASI-M

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SAMPLE ANALYTE COUNT

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		ASTM D2974	JDL	1	PASI-M
10521027017	SS-1G (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027018	SS-1G (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027019	SS-1H (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027020	SS-1H (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027021	SS-1I (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027022	SS-1I (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027023	SS-18E (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027024	SS-18E (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027025	SS-18D (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027026	SS-18D (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027027	SS-18C (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027028	SS-18C (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027029	Dup-1-06072020	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027030	SS-18B (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027031	SS-18B (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027032	SS-18 (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027033	SS-18 (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027034	SS-38 (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M

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SAMPLE ANALYTE COUNT

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10521027035	**SS-38 (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027036	**SS-25 (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027037	**SS-25 (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027038	**SS-48 (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027039	**SS-48 (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027040	**SS-50 (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027041	**SS-50 (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027042	**SS-41 (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027043	**Dup-2-06072020**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027044	**SS-41 (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027045	**SS-3I (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027046	**SS-3I (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027047	**SS-3H (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027048	**SS-3H (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027049	**SS-3K (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027050	**SS-3K (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027051	**SS-3L (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027052	**SS-3L (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027053	**SS-3G (0-0.5)**	EPA 7471B	LMW	1	PASI-M

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SAMPLE ANALYTE COUNT

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		ASTM D2974	JDL	1	PASI-M
10521027054	SS-3G (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027055	SS-20 (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027056	Dup-3-06092020	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027057	SS-20 (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027058	SS-20B (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027059	SS-20B (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027060	SS-20D (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027061	SS-20D (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027062	SS-20C (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027063	SS-20C (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027064	SS-3J (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027065	SS-3J (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027066	SS-3M (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027067	SS-3M (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027068	SS-13C (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027069	SS-13C (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027070	SS-13B (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027071	SS-13B (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M

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SAMPLE ANALYTE COUNT

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10521027072	**SS-10C (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027073	**SS-10C (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027074	**SS-10B (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027075	**SS-10B (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027076	**SS-10D (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027077	**SS-10D (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027078	**SS-10E (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027079	**SS-10E (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027080	**SS-10F (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027081	**SS-10F (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027082	**Dup-5-06092020**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027083	**SS-10G (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027084	**SS-10G (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027085	**SS-10H (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027086	**SS-10H (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027087	**SS-22C (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027088	**SS-22C (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027089	**SS-22 (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027090	**SS-22 (1-1.5)**	EPA 7471B	LMW	1	PASI-M

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SAMPLE ANALYTE COUNT

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		ASTM D2974	JDL	1	PASI-M
10521027091	SS-22B (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027092	SS-22B (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027093	Dup-6-06092020	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027094	SS-22D (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027095	SS-22D (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027096	SS-22E (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027097	SS-22E (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027098	SS-22F (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027099	SS-22F (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027100	SS-22G (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027101	SS-22G (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027102	SS-22H (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027103	SS-22H (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027104	SS-22I (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027105	SS-22I (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027106	SS-43 (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027107	SS-43 (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027108	SS-32 (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M

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SAMPLE ANALYTE COUNT

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10521027109	**SS-32 (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027110	**SS-14C (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027111	**SS-14C (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027112	**SS-14B (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027113	**SS-14B (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027114	**SS-14D (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027115	**SS-14D (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027116	**SS-29 (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027117	**SS-29 (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521027118	**Dup-4-06092020**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M

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SUMMARY OF DETECTION

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10521027001	**SS-28 (0-0.5)**					
EPA 7471B	Mercury	110	mg/kg	5.5	06/16/20 12:40	M6
ASTM D2974	Percent Moisture	19.6	%	0.10	06/11/20 16:56	N2
10521027002	**SS-28 (1-1.5)**					
EPA 7471B	Mercury	0.22	mg/kg	0.022	06/12/20 16:02	
ASTM D2974	Percent Moisture	11.3	%	0.10	06/11/20 16:56	N2
10521027003	**SS-1D (0-0.5)**					
EPA 7471B	Mercury	0.039	mg/kg	0.022	06/12/20 16:04	
ASTM D2974	Percent Moisture	12.7	%	0.10	06/11/20 16:56	N2
10521027004	**SS-1D (1-1.5)**					
EPA 7471B	Mercury	0.028	mg/kg	0.022	06/12/20 16:07	
ASTM D2974	Percent Moisture	13.8	%	0.10	06/11/20 16:56	N2
10521027005	**SS-1C (0-0.5)**					
EPA 6010D	Arsenic	3.2	mg/kg	2.3	06/11/20 15:59	
EPA 7471B	Mercury	0.080	mg/kg	0.020	06/12/20 16:14	
ASTM D2974	Percent Moisture	12.2	%	0.10	06/11/20 16:56	N2
10521027006	**SS-1C (1-1.5)**					
EPA 6010D	Arsenic	3.7	mg/kg	2.2	06/11/20 16:12	
EPA 7471B	Mercury	0.057	mg/kg	0.021	06/12/20 16:16	
ASTM D2974	Percent Moisture	12.4	%	0.10	06/11/20 16:57	N2
10521027007	**SS-1B (0-0.5)**					
EPA 6010D	Arsenic	117	mg/kg	2.6	06/11/20 16:14	
EPA 7471B	Mercury	38.2	mg/kg	2.7	06/16/20 13:38	
ASTM D2974	Percent Moisture	25.2	%	0.10	06/12/20 10:38	N2
10521027008	**SS-1B (1-1.5)**					
EPA 6010D	Arsenic	29.1	mg/kg	2.4	06/11/20 16:19	
EPA 7471B	Mercury	11.6	mg/kg	0.44	06/16/20 13:40	
ASTM D2974	Percent Moisture	17.4	%	0.10	06/12/20 10:38	N2
10521027009	**SS-1F (0-0.5)**					
EPA 6010D	Arsenic	7.4	mg/kg	1.2	06/11/20 15:56	
EPA 7471B	Mercury	6.6	mg/kg	0.22	06/16/20 12:52	
ASTM D2974	Percent Moisture	20.8	%	0.10	06/12/20 10:38	N2
10521027010	**SS-1F (1-1.5)**					
EPA 6010D	Arsenic	2.9	mg/kg	1.1	06/11/20 15:57	
EPA 7471B	Mercury	0.057	mg/kg	0.021	06/12/20 16:38	
ASTM D2974	Percent Moisture	8.8	%	0.10	06/12/20 10:39	N2
10521027011	**SS-1E (0-0.5)**					
EPA 7471B	Mercury	3.9	mg/kg	0.12	06/16/20 12:55	
ASTM D2974	Percent Moisture	16.8	%	0.10	06/12/20 10:39	N2
10521027012	**SS-1E (1-1.5)**					
EPA 7471B	Mercury	0.11	mg/kg	0.022	06/12/20 16:44	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10521027012	**SS-1E (1-1.5)**					
ASTM D2974	Percent Moisture	13.0	%	0.10	06/12/20 10:39	N2
10521027013	**SS-1K (0-0.5)**					
EPA 7471B	Mercury	1.1	mg/kg	0.047	06/16/20 12:57	
ASTM D2974	Percent Moisture	18.5	%	0.10	06/12/20 10:39	N2
10521027014	**SS-1K (1-1.5)**					
EPA 7471B	Mercury	0.10	mg/kg	0.023	06/12/20 16:54	
ASTM D2974	Percent Moisture	17.2	%	0.10	06/12/20 10:39	N2
10521027015	**SS-1J (0-0.5)**					
EPA 7471B	Mercury	5.1	mg/kg	0.21	06/16/20 13:00	
ASTM D2974	Percent Moisture	11.5	%	0.10	06/12/20 10:39	N2
10521027016	**SS-1J (1-1.5)**					
EPA 7471B	Mercury	0.087	mg/kg	0.022	06/12/20 17:01	
ASTM D2974	Percent Moisture	13.8	%	0.10	06/12/20 10:39	N2
10521027017	**SS-1G (0-0.5)**					
ASTM D2974	Percent Moisture	14.3	%	0.10	06/12/20 10:40	N2
10521027018	**SS-1G (1-1.5)**					
EPA 7471B	Mercury	0.028	mg/kg	0.020	06/12/20 17:06	
ASTM D2974	Percent Moisture	7.8	%	0.10	06/12/20 10:40	N2
10521027019	**SS-1H (0-0.5)**					
EPA 7471B	Mercury	0.13	mg/kg	0.021	06/12/20 17:08	
ASTM D2974	Percent Moisture	11.2	%	0.10	06/12/20 10:40	N2
10521027020	**SS-1H (1-1.5)**					
ASTM D2974	Percent Moisture	6.9	%	0.10	06/12/20 10:40	N2
10521027021	**SS-1I (0-0.5)**					
EPA 7471B	Mercury	6.7	mg/kg	0.24	06/16/20 13:07	M6
ASTM D2974	Percent Moisture	20.5	%	0.10	06/12/20 10:40	N2
10521027022	**SS-1I (1-1.5)**					
EPA 7471B	Mercury	0.20	mg/kg	0.021	06/12/20 17:39	
ASTM D2974	Percent Moisture	13.0	%	0.10	06/12/20 10:40	N2
10521027023	**SS-18E (0-0.5)**					
EPA 7471B	Mercury	0.13	mg/kg	0.021	06/12/20 17:41	
ASTM D2974	Percent Moisture	16.5	%	0.10	06/12/20 10:41	N2
10521027024	**SS-18E (1-1.5)**					
ASTM D2974	Percent Moisture	13.6	%	0.10	06/12/20 10:41	N2
10521027025	**SS-18D (0-0.5)**					
EPA 7471B	Mercury	0.80	mg/kg	0.022	06/12/20 17:51	
ASTM D2974	Percent Moisture	18.7	%	0.10	06/12/20 11:47	N2

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10521027026	**SS-18D (1-1.5)**					
EPA 7471B	Mercury	0.042	mg/kg	0.021	06/12/20 17:53	
ASTM D2974	Percent Moisture	12.7	%	0.10	06/12/20 11:47	N2
10521027027	**SS-18C (0-0.5)**					
EPA 7471B	Mercury	4.1	mg/kg	0.14	06/16/20 13:14	
ASTM D2974	Percent Moisture	28.9	%	0.10	06/12/20 11:47	N2
10521027028	**SS-18C (1-1.5)**					
EPA 7471B	Mercury	0.11	mg/kg	0.023	06/12/20 18:00	
ASTM D2974	Percent Moisture	16.1	%	0.10	06/12/20 11:47	N2
10521027029	**Dup-1-06072020**					
EPA 7471B	Mercury	0.85	mg/kg	0.026	06/12/20 18:02	
ASTM D2974	Percent Moisture	24.2	%	0.10	06/12/20 11:47	N2
10521027030	**SS-18B (0-0.5)**					
EPA 7471B	Mercury	3.1	mg/kg	0.13	06/16/20 13:17	
ASTM D2974	Percent Moisture	27.6	%	0.10	06/12/20 11:47	N2
10521027031	**SS-18B (1-1.5)**					
EPA 7471B	Mercury	2.7	mg/kg	0.11	06/16/20 13:19	
ASTM D2974	Percent Moisture	18.8	%	0.10	06/12/20 11:48	N2
10521027032	**SS-18 (0-0.5)**					
EPA 7471B	Mercury	0.48	mg/kg	0.023	06/12/20 18:09	
ASTM D2974	Percent Moisture	19.9	%	0.10	06/12/20 11:48	N2
10521027033	**SS-18 (1-1.5)**					
EPA 7471B	Mercury	0.054	mg/kg	0.024	06/12/20 18:17	
ASTM D2974	Percent Moisture	18.2	%	0.10	06/12/20 11:48	N2
10521027034	**SS-38 (0-0.5)**					
EPA 7471B	Mercury	0.056	mg/kg	0.020	06/12/20 18:19	
ASTM D2974	Percent Moisture	7.4	%	0.10	06/12/20 11:48	N2
10521027035	**SS-38 (1-1.5)**					
EPA 7471B	Mercury	0.050	mg/kg	0.024	06/12/20 18:22	
ASTM D2974	Percent Moisture	15.1	%	0.10	06/12/20 11:48	N2
10521027036	**SS-25 (0-0.5)**					
EPA 7471B	Mercury	63.9	mg/kg	2.3	06/16/20 13:43	
ASTM D2974	Percent Moisture	19.8	%	0.10	06/12/20 11:49	N2
10521027037	**SS-25 (1-1.5)**					
EPA 7471B	Mercury	1.6	mg/kg	0.047	06/16/20 13:24	
ASTM D2974	Percent Moisture	19.6	%	0.10	06/12/20 11:49	N2
10521027038	**SS-48 (0-0.5)**					
EPA 7471B	Mercury	8.2	mg/kg	0.22	06/16/20 13:27	
ASTM D2974	Percent Moisture	17.3	%	0.10	06/12/20 11:49	N2

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SUMMARY OF DETECTION

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10521027039	**SS-48 (1-1.5)**					
EPA 7471B	Mercury	0.073	mg/kg	0.021	06/12/20 18:41	
ASTM D2974	Percent Moisture	8.9	%	0.10	06/12/20 11:49	N2
10521027040	**SS-50 (0-0.5)**					
EPA 7471B	Mercury	3.5	mg/kg	0.11	06/16/20 13:35	
ASTM D2974	Percent Moisture	18.9	%	0.10	06/12/20 11:49	N2
10521027041	**SS-50 (1-1.5)**					
EPA 7471B	Mercury	0.047	mg/kg	0.023	06/12/20 14:00	
ASTM D2974	Percent Moisture	11.8	%	0.10	06/12/20 11:49	N2
10521027042	**SS-41 (0-0.5)**					
EPA 7471B	Mercury	6.4	mg/kg	0.24	06/16/20 11:55	
ASTM D2974	Percent Moisture	16.2	%	0.10	06/12/20 11:50	N2
10521027043	**Dup-2-06072020**					
EPA 7471B	Mercury	4.6	mg/kg	0.22	06/16/20 11:58	
ASTM D2974	Percent Moisture	16.2	%	0.10	06/12/20 11:50	N2
10521027044	**SS-41 (1-1.5)**					
EPA 7471B	Mercury	1.6	mg/kg	0.041	06/16/20 12:00	
ASTM D2974	Percent Moisture	14.0	%	0.10	06/12/20 11:50	N2
10521027045	**SS-3I (0-0.5)**					
EPA 7471B	Mercury	0.92	mg/kg	0.021	06/12/20 14:24	
ASTM D2974	Percent Moisture	14.7	%	0.10	06/12/20 12:31	N2
10521027046	**SS-3I (1-1.5)**					
EPA 7471B	Mercury	0.051	mg/kg	0.021	06/12/20 14:26	
ASTM D2974	Percent Moisture	15.1	%	0.10	06/12/20 12:31	N2
10521027047	**SS-3H (0-0.5)**					
EPA 7471B	Mercury	130	mg/kg	5.4	06/16/20 12:20	
ASTM D2974	Percent Moisture	13.7	%	0.10	06/12/20 12:32	N2
10521027048	**SS-3H (1-1.5)**					
EPA 7471B	Mercury	1.8	mg/kg	0.042	06/16/20 12:07	
ASTM D2974	Percent Moisture	12.8	%	0.10	06/12/20 12:32	N2
10521027049	**SS-3K (0-0.5)**					
EPA 7471B	Mercury	0.90	mg/kg	0.025	06/12/20 14:42	
ASTM D2974	Percent Moisture	21.1	%	0.10	06/12/20 12:32	N2
10521027050	**SS-3K (1-1.5)**					
EPA 7471B	Mercury	0.10	mg/kg	0.020	06/12/20 14:45	
ASTM D2974	Percent Moisture	8.9	%	0.10	06/12/20 12:32	N2
10521027051	**SS-3L (0-0.5)**					
EPA 7471B	Mercury	1.4	mg/kg	0.043	06/16/20 12:09	
ASTM D2974	Percent Moisture	13.4	%	0.10	06/12/20 12:32	N2

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SUMMARY OF DETECTION

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10521027052	**SS-3L (1-1.5)**					
EPA 7471B	Mercury	0.054	mg/kg	0.023	06/12/20 14:50	
ASTM D2974	Percent Moisture	11.2	%	0.10	06/12/20 12:32	N2
10521027053	**SS-3G (0-0.5)**					
EPA 7471B	Mercury	0.15	mg/kg	0.020	06/12/20 14:57	
ASTM D2974	Percent Moisture	1.3	%	0.10	06/12/20 12:33	N2
10521027054	**SS-3G (1-1.5)**					
ASTM D2974	Percent Moisture	10.3	%	0.10	06/12/20 12:33	N2
10521027055	**SS-20 (0-0.5)**					
EPA 7471B	Mercury	0.021	mg/kg	0.020	06/12/20 15:02	
ASTM D2974	Percent Moisture	8.4	%	0.10	06/12/20 12:33	N2
10521027056	**Dup-3-06092020**					
EPA 7471B	Mercury	0.26	mg/kg	0.024	06/12/20 15:04	
ASTM D2974	Percent Moisture	20.3	%	0.10	06/12/20 12:33	N2
10521027057	**SS-20 (1-1.5)**					
EPA 7471B	Mercury	0.070	mg/kg	0.023	06/12/20 15:07	
ASTM D2974	Percent Moisture	18.0	%	0.10	06/12/20 12:33	N2
10521027058	**SS-20B (0-0.5)**					
EPA 7471B	Mercury	0.33	mg/kg	0.024	06/12/20 15:09	
ASTM D2974	Percent Moisture	18.4	%	0.10	06/12/20 12:33	N2
10521027059	**SS-20B (1-1.5)**					
EPA 7471B	Mercury	0.11	mg/kg	0.023	06/12/20 15:12	
ASTM D2974	Percent Moisture	16.2	%	0.10	06/12/20 12:33	N2
10521027060	**SS-20D (0-0.5)**					
EPA 7471B	Mercury	2.8	mg/kg	0.12	06/16/20 12:12	
ASTM D2974	Percent Moisture	18.5	%	0.10	06/12/20 12:34	N2
10521027061	**SS-20D (1-1.5)**					
EPA 7471B	Mercury	0.068	mg/kg	0.020	06/15/20 13:09	M1
ASTM D2974	Percent Moisture	12.3	%	0.10	06/12/20 12:34	N2
10521027062	**SS-20C (0-0.5)**					
EPA 7471B	Mercury	6.8	mg/kg	0.22	06/16/20 14:45	
ASTM D2974	Percent Moisture	19.0	%	0.10	06/12/20 12:34	N2
10521027063	**SS-20C (1-1.5)**					
EPA 7471B	Mercury	0.023	mg/kg	0.021	06/15/20 13:21	
ASTM D2974	Percent Moisture	14.6	%	0.10	06/12/20 12:34	N2
10521027064	**SS-3J (0-0.5)**					
EPA 7471B	Mercury	4.0	mg/kg	0.14	06/16/20 14:47	
ASTM D2974	Percent Moisture	29.3	%	0.10	06/12/20 12:34	N2
10521027065	**SS-3J (1-1.5)**					
EPA 7471B	Mercury	0.14	mg/kg	0.022	06/15/20 13:32	

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SUMMARY OF DETECTION

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10521027065	**SS-3J (1-1.5)**					
ASTM D2974	Percent Moisture	18.7	%	0.10	06/12/20 13:56	N2
10521027066	**SS-3M (0-0.5)**					
EPA 7471B	Mercury	1.5	mg/kg	0.047	06/16/20 14:50	
ASTM D2974	Percent Moisture	23.3	%	0.10	06/12/20 13:56	N2
10521027067	**SS-3M (1-1.5)**					
EPA 7471B	Mercury	0.043	mg/kg	0.024	06/15/20 13:37	
ASTM D2974	Percent Moisture	18.3	%	0.10	06/12/20 13:56	N2
10521027068	**SS-13C (0-0.5)**					
ASTM D2974	Percent Moisture	16.9	%	0.10	06/12/20 13:56	N2
10521027069	**SS-13C (1-1.5)**					
EPA 7471B	Mercury	0.087	mg/kg	0.022	06/15/20 13:42	
ASTM D2974	Percent Moisture	13.3	%	0.10	06/12/20 13:56	N2
10521027070	**SS-13B (0-0.5)**					
EPA 7471B	Mercury	3.0	mg/kg	0.13	06/16/20 14:52	
ASTM D2974	Percent Moisture	24.1	%	0.10	06/12/20 13:57	N2
10521027071	**SS-13B (1-1.5)**					
EPA 7471B	Mercury	0.080	mg/kg	0.023	06/15/20 13:46	
ASTM D2974	Percent Moisture	19.1	%	0.10	06/12/20 13:57	N2
10521027072	**SS-10C (0-0.5)**					
EPA 7471B	Mercury	1.7	mg/kg	0.048	06/16/20 14:55	
ASTM D2974	Percent Moisture	22.0	%	0.10	06/12/20 13:57	N2
10521027073	**SS-10C (1-1.5)**					
ASTM D2974	Percent Moisture	16.9	%	0.10	06/12/20 13:57	N2
10521027074	**SS-10B (0-0.5)**					
EPA 7471B	Mercury	3.7	mg/kg	0.13	06/16/20 15:03	
ASTM D2974	Percent Moisture	22.8	%	0.10	06/12/20 13:57	N2
10521027075	**SS-10B (1-1.5)**					
EPA 7471B	Mercury	0.040	mg/kg	0.023	06/15/20 14:02	
ASTM D2974	Percent Moisture	18.3	%	0.10	06/12/20 13:57	N2
10521027076	**SS-10D (0-0.5)**					
EPA 7471B	Mercury	0.87	mg/kg	0.025	06/15/20 14:05	
ASTM D2974	Percent Moisture	21.5	%	0.10	06/12/20 13:57	N2
10521027077	**SS-10D (1-1.5)**					
EPA 7471B	Mercury	0.071	mg/kg	0.023	06/15/20 14:07	
ASTM D2974	Percent Moisture	18.9	%	0.10	06/12/20 13:58	N2
10521027078	**SS-10E (0-0.5)**					
EPA 7471B	Mercury	0.22	mg/kg	0.023	06/15/20 14:10	
ASTM D2974	Percent Moisture	19.9	%	0.10	06/12/20 13:58	N2

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SUMMARY OF DETECTION

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10521027079	**SS-10E (1-1.5)**					
ASTM D2974	Percent Moisture	16.8	%	0.10	06/12/20 13:58	N2
10521027080	**SS-10F (0-0.5)**					
EPA 7471B	Mercury	2.3	mg/kg	0.12	06/16/20 15:06	
ASTM D2974	Percent Moisture	19.3	%	0.10	06/12/20 13:58	N2
10521027081	**SS-10F (1-1.5)**					
EPA 7471B	Mercury	0.22	mg/kg	0.022	06/15/20 10:21	
ASTM D2974	Percent Moisture	15.7	%	0.10	06/12/20 13:58	N2
10521027082	**Dup-5-06092020**					
EPA 7471B	Mercury	0.61	mg/kg	0.022	06/15/20 10:28	
ASTM D2974	Percent Moisture	18.9	%	0.10	06/12/20 13:58	N2
10521027083	**SS-10G (0-0.5)**					
EPA 7471B	Mercury	2.8	mg/kg	0.22	06/16/20 13:45	
ASTM D2974	Percent Moisture	20.8	%	0.10	06/12/20 13:58	N2
10521027084	**SS-10G (1-1.5)**					
EPA 7471B	Mercury	0.57	mg/kg	0.023	06/15/20 10:33	
ASTM D2974	Percent Moisture	15.2	%	0.10	06/12/20 13:59	N2
10521027085	**SS-10H (0-0.5)**					
EPA 7471B	Mercury	3.5	mg/kg	0.24	06/16/20 13:48	
ASTM D2974	Percent Moisture	22.7	%	0.10	06/12/20 14:28	N2
10521027086	**SS-10H (1-1.5)**					
ASTM D2974	Percent Moisture	19.5	%	0.10	06/12/20 14:28	N2
10521027087	**SS-22C (0-0.5)**					
EPA 7471B	Mercury	4.5	mg/kg	0.22	06/16/20 13:50	
ASTM D2974	Percent Moisture	15.5	%	0.10	06/12/20 14:28	N2
10521027088	**SS-22C (1-1.5)**					
EPA 7471B	Mercury	0.22	mg/kg	0.022	06/15/20 10:49	
ASTM D2974	Percent Moisture	13.0	%	0.10	06/12/20 14:28	N2
10521027089	**SS-22 (0-0.5)**					
EPA 7471B	Mercury	1.4	mg/kg	0.045	06/16/20 13:53	
ASTM D2974	Percent Moisture	19.4	%	0.10	06/12/20 14:29	N2
10521027090	**SS-22 (1-1.5)**					
EPA 7471B	Mercury	0.038	mg/kg	0.025	06/15/20 10:54	
ASTM D2974	Percent Moisture	18.5	%	0.10	06/12/20 14:29	N2
10521027091	**SS-22B (0-0.5)**					
EPA 7471B	Mercury	16.9	mg/kg	1.2	06/16/20 13:55	
ASTM D2974	Percent Moisture	16.5	%	0.10	06/12/20 14:29	N2
10521027092	**SS-22B (1-1.5)**					
EPA 7471B	Mercury	109	mg/kg	5.7	06/16/20 14:17	
ASTM D2974	Percent Moisture	20.5	%	0.10	06/12/20 14:29	N2

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SUMMARY OF DETECTION

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10521027093	**Dup-6-06092020**					
EPA 7471B	Mercury	25.0	mg/kg	1.1	06/16/20 14:06	
ASTM D2974	Percent Moisture	17.2	%	0.10	06/12/20 14:29	N2
10521027094	**SS-22D (0-0.5)**					
EPA 7471B	Mercury	0.077	mg/kg	0.022	06/15/20 11:13	
ASTM D2974	Percent Moisture	12.7	%	0.10	06/12/20 14:29	N2
10521027095	**SS-22D (1-1.5)**					
EPA 7471B	Mercury	0.023	mg/kg	0.021	06/15/20 11:15	
ASTM D2974	Percent Moisture	11.8	%	0.10	06/12/20 14:30	N2
10521027096	**SS-22E (0-0.5)**					
EPA 7471B	Mercury	2.2	mg/kg	0.12	06/16/20 14:09	
ASTM D2974	Percent Moisture	16.3	%	0.10	06/12/20 14:30	N2
10521027097	**SS-22E (1-1.5)**					
EPA 7471B	Mercury	0.15	mg/kg	0.022	06/15/20 11:20	
ASTM D2974	Percent Moisture	13.0	%	0.10	06/12/20 14:30	N2
10521027098	**SS-22F (0-0.5)**					
EPA 7471B	Mercury	3.0	mg/kg	0.12	06/16/20 14:13	
ASTM D2974	Percent Moisture	20.8	%	0.10	06/12/20 14:30	N2
10521027099	**SS-22F (1-1.5)**					
EPA 7471B	Mercury	0.072	mg/kg	0.021	06/15/20 11:25	
ASTM D2974	Percent Moisture	15.1	%	0.10	06/12/20 14:30	N2
10521027100	**SS-22G (0-0.5)**					
EPA 7471B	Mercury	4.7	mg/kg	0.22	06/16/20 14:15	
ASTM D2974	Percent Moisture	15.4	%	0.10	06/12/20 14:31	N2
10521027101	**SS-22G (1-1.5)**					
EPA 7471B	Mercury	0.073	mg/kg	0.022	06/15/20 11:44	
ASTM D2974	Percent Moisture	18.6	%	0.10	06/12/20 14:31	N2
10521027102	**SS-22H (0-0.5)**					
EPA 7471B	Mercury	1.8	mg/kg	0.11	06/16/20 14:20	
ASTM D2974	Percent Moisture	15.0	%	0.10	06/12/20 14:31	N2
10521027103	**SS-22H (1-1.5)**					
EPA 7471B	Mercury	0.080	mg/kg	0.023	06/15/20 11:54	
ASTM D2974	Percent Moisture	18.4	%	0.10	06/12/20 14:31	N2
10521027104	**SS-22I (0-0.5)**					
EPA 7471B	Mercury	0.066	mg/kg	0.023	06/15/20 11:56	
ASTM D2974	Percent Moisture	17.5	%	0.10	06/12/20 14:31	N2
10521027105	**SS-22I (1-1.5)**					
ASTM D2974	Percent Moisture	16.9	%	0.10	06/12/20 14:59	N2
10521027106	**SS-43 (0-0.5)**					
EPA 7471B	Mercury	2.7	mg/kg	0.10	06/16/20 14:22	

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SUMMARY OF DETECTION

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10521027106	**SS-43 (0-0.5)**					
ASTM D2974	Percent Moisture	12.7	%	0.10	06/12/20 15:00	N2
10521027107	**SS-43 (1-1.5)**					
EPA 7471B	Mercury	0.16	mg/kg	0.023	06/15/20 12:09	
ASTM D2974	Percent Moisture	15.5	%	0.10	06/12/20 15:00	N2
10521027108	**SS-32 (0-0.5)**					
EPA 7471B	Mercury	40.9	mg/kg	2.0	06/16/20 15:47	
ASTM D2974	Percent Moisture	11.3	%	0.10	06/12/20 15:00	N2
10521027109	**SS-32 (1-1.5)**					
ASTM D2974	Percent Moisture	17.3	%	0.10	06/12/20 15:00	N2
10521027110	**SS-14C (0-0.5)**					
EPA 7471B	Mercury	1.7	mg/kg	0.048	06/16/20 14:35	
ASTM D2974	Percent Moisture	19.4	%	0.10	06/12/20 15:00	N2
10521027111	**SS-14C (1-1.5)**					
EPA 7471B	Mercury	0.20	mg/kg	0.022	06/15/20 12:24	
ASTM D2974	Percent Moisture	12.3	%	0.10	06/12/20 15:00	N2
10521027112	**SS-14B (0-0.5)**					
EPA 7471B	Mercury	4.0	mg/kg	0.14	06/16/20 14:37	
ASTM D2974	Percent Moisture	30.9	%	0.10	06/12/20 15:01	N2
10521027113	**SS-14B (1-1.5)**					
EPA 7471B	Mercury	0.14	mg/kg	0.023	06/15/20 12:35	
ASTM D2974	Percent Moisture	21.7	%	0.10	06/12/20 15:01	N2
10521027114	**SS-14D (0-0.5)**					
EPA 7471B	Mercury	0.093	mg/kg	0.023	06/15/20 12:38	
ASTM D2974	Percent Moisture	18.1	%	0.10	06/12/20 15:01	N2
10521027115	**SS-14D (1-1.5)**					
ASTM D2974	Percent Moisture	16.0	%	0.10	06/12/20 15:01	N2
10521027116	**SS-29 (0-0.5)**					
EPA 7471B	Mercury	79.8	mg/kg	6.0	06/16/20 15:50	
ASTM D2974	Percent Moisture	19.1	%	0.10	06/12/20 15:01	N2
10521027117	**SS-29 (1-1.5)**					
EPA 7471B	Mercury	0.33	mg/kg	0.020	06/15/20 12:52	
ASTM D2974	Percent Moisture	12.3	%	0.10	06/12/20 15:01	N2
10521027118	**Dup-4-06092020**					
EPA 7471B	Mercury	1.2	mg/kg	0.049	06/16/20 14:42	
ASTM D2974	Percent Moisture	21.4	%	0.10	06/12/20 15:02	N2

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Method: **EPA 6010D**
Description: 6010D MET ICP
Client: Braun Intertec Corporation
Date: June 17, 2020

General Information:
6 samples were analyzed for EPA 6010D by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3050B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Method: **EPA 7471B**
Description: 7471B Mercury
Client: Braun Intertec Corporation
Date: June 17, 2020

General Information:
118 samples were analyzed for EPA 7471B by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7471B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 680503

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10521027001

M6: Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

- MS (Lab ID: 3641419)
  - Mercury
- MSD (Lab ID: 3641420)
  - Mercury

QC Batch: 680504

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10521027021

M6: Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

- MS (Lab ID: 3641423)
  - Mercury
- MSD (Lab ID: 3641424)
  - Mercury

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Method: **EPA 7471B**
Description: 7471B Mercury
Client: Braun Intertec Corporation
Date: June 17, 2020

QC Batch: 680507

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10521027061

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3641435)
  - Mercury

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-28 (0-0.5) **Lab ID: 10521027001** Collected: 06/07/20 11:20 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**110**	mg/kg	5.5	250	06/11/20 12:18	06/16/20 12:40	7439-97-6	M6
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**19.6**	%	0.10	1		06/11/20 16:56		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-28 (1-1.5) **Lab ID: 10521027002** Collected: 06/07/20 11:21 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.22**	mg/kg	0.022	1	06/11/20 12:18	06/12/20 16:02	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**11.3**	%	0.10	1		06/11/20 16:56		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-1D (0-0.5) **Lab ID: 10521027003** Collected: 06/07/20 11:40 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.039**	mg/kg	0.022	1	06/11/20 12:18	06/12/20 16:04	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**12.7**	%	0.10	1		06/11/20 16:56		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-1D (1-1.5) **Lab ID: 10521027004** Collected: 06/07/20 11:41 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.028**	mg/kg	0.022	1	06/11/20 12:18	06/12/20 16:07	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**13.8**	%	0.10	1		06/11/20 16:56		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-1C (0-0.5) **Lab ID: 10521027005** Collected: 06/07/20 11:55 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**3.2**	mg/kg	2.3	2	06/11/20 10:21	06/11/20 15:59	7440-38-2	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.080**	mg/kg	0.020	1	06/11/20 12:18	06/12/20 16:14	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**12.2**	%	0.10	1		06/11/20 16:56		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-1C (1-1.5) **Lab ID: 10521027006** Collected: 06/07/20 11:56 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**3.7**	mg/kg	2.2	2	06/11/20 10:21	06/11/20 16:12	7440-38-2	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.057**	mg/kg	0.021	1	06/11/20 12:18	06/12/20 16:16	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**12.4**	%	0.10	1		06/11/20 16:57		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-1B (0-0.5) **Lab ID: 10521027007** Collected: 06/07/20 12:06 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**117**	mg/kg	2.6	2	06/11/20 10:21	06/11/20 16:14	7440-38-2	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**38.2**	mg/kg	2.7	100	06/11/20 12:18	06/16/20 13:38	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**25.2**	%	0.10	1		06/12/20 10:38		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-1B (1-1.5) **Lab ID: 10521027008** Collected: 06/07/20 12:07 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**29.1**	mg/kg	2.4	2	06/11/20 10:21	06/11/20 16:19	7440-38-2	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**11.6**	mg/kg	0.44	20	06/11/20 12:18	06/16/20 13:40	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**17.4**	%	0.10	1		06/12/20 10:38		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-1F (0-0.5) **Lab ID: 10521027009** Collected: 06/07/20 12:20 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**7.4**	mg/kg	1.2	1	06/11/20 10:21	06/11/20 15:56	7440-38-2	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**6.6**	mg/kg	0.22	10	06/11/20 12:18	06/16/20 12:52	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**20.8**	%	0.10	1		06/12/20 10:38		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-1F (1-1.5) **Lab ID: 10521027010** Collected: 06/07/20 12:21 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**2.9**	mg/kg	1.1	1	06/11/20 10:21	06/11/20 15:57	7440-38-2	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.057**	mg/kg	0.021	1	06/11/20 12:18	06/12/20 16:38	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**8.8**	%	0.10	1		06/12/20 10:39		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-1E (0-0.5) **Lab ID: 10521027011** Collected: 06/07/20 12:35 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**3.9**	mg/kg	0.12	5	06/11/20 12:18	06/16/20 12:55	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**16.8**	%	0.10	1		06/12/20 10:39		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-1E (1-1.5) **Lab ID: 10521027012** Collected: 06/07/20 12:36 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.11**	mg/kg	0.022	1	06/11/20 12:18	06/12/20 16:44	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**13.0**	%	0.10	1		06/12/20 10:39		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-1K (0-0.5) **Lab ID: 10521027013** Collected: 06/07/20 12:44 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**1.1**	mg/kg	0.047	2	06/11/20 12:18	06/16/20 12:57	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**18.5**	%	0.10	1		06/12/20 10:39		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-1K (1-1.5) **Lab ID: 10521027014** Collected: 06/07/20 12:45 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.10**	mg/kg	0.023	1	06/11/20 12:18	06/12/20 16:54	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**17.2**	%	0.10	1		06/12/20 10:39		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-1J (0-0.5) **Lab ID: 10521027015** Collected: 06/07/20 12:54 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**5.1**	mg/kg	0.21	10	06/11/20 12:18	06/16/20 13:00	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**11.5**	%	0.10	1		06/12/20 10:39		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-1J (1-1.5) **Lab ID: 10521027016** Collected: 06/07/20 12:55 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.087**	mg/kg	0.022	1	06/11/20 12:18	06/12/20 17:01	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**13.8**	%	0.10	1		06/12/20 10:39		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-1G (0-0.5) **Lab ID: 10521027017** Collected: 06/07/20 13:07 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.022	1	06/11/20 12:18	06/12/20 17:03	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**14.3**	%	0.10	1		06/12/20 10:40		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-1G (1-1.5) **Lab ID: 10521027018** Collected: 06/07/20 13:08 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.028**	mg/kg	0.020	1	06/11/20 12:18	06/12/20 17:06	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**7.8**	%	0.10	1		06/12/20 10:40		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-1H (0-0.5) **Lab ID: 10521027019** Collected: 06/07/20 13:16 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.13**	mg/kg	0.021	1	06/11/20 12:18	06/12/20 17:08	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**11.2**	%	0.10	1		06/12/20 10:40		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-1H (1-1.5) **Lab ID: 10521027020** Collected: 06/07/20 13:17 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.021	1	06/11/20 12:18	06/12/20 17:10	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**6.9**	%	0.10	1		06/12/20 10:40		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-1I (0-0.5) **Lab ID: 10521027021** Collected: 06/07/20 13:27 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**6.7**	mg/kg	0.24	10	06/11/20 12:18	06/16/20 13:07	7439-97-6	M6
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**20.5**	%	0.10	1		06/12/20 10:40		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-1I (1-1.5) **Lab ID: 10521027022** Collected: 06/07/20 13:28 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.20**	mg/kg	0.021	1	06/11/20 12:18	06/12/20 17:39	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**13.0**	%	0.10	1		06/12/20 10:40		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-18E (0-0.5) **Lab ID: 10521027023** Collected: 06/07/20 13:49 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.13**	mg/kg	0.021	1	06/11/20 12:18	06/12/20 17:41	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**16.5**	%	0.10	1		06/12/20 10:41		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-18E (1-1.5) **Lab ID: 10521027024** Collected: 06/07/20 13:50 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.021	1	06/11/20 12:18	06/12/20 17:44	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**13.6**	%	0.10	1		06/12/20 10:41		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-18D (0-0.5) **Lab ID: 10521027025** Collected: 06/07/20 14:04 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.80**	mg/kg	0.022	1	06/11/20 12:18	06/12/20 17:51	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**18.7**	%	0.10	1		06/12/20 11:47		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-18D (1-1.5) **Lab ID: 10521027026** Collected: 06/07/20 14:05 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.042**	mg/kg	0.021	1	06/11/20 12:18	06/12/20 17:53	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**12.7**	%	0.10	1		06/12/20 11:47		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-18C (0-0.5) **Lab ID: 10521027027** Collected: 06/07/20 14:18 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**4.1**	mg/kg	0.14	5	06/11/20 12:18	06/16/20 13:14	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**28.9**	%	0.10	1		06/12/20 11:47		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-18C (1-1.5) **Lab ID: 10521027028** Collected: 06/07/20 14:19 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.11**	mg/kg	0.023	1	06/11/20 12:18	06/12/20 18:00	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**16.1**	%	0.10	1		06/12/20 11:47		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: Dup-1-06072020 **Lab ID: 10521027029** Collected: 06/07/20 12:00 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.85**	mg/kg	0.026	1	06/11/20 12:18	06/12/20 18:02	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**24.2**	%	0.10	1		06/12/20 11:47		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-18B (0-0.5) **Lab ID: 10521027030** Collected: 06/07/20 14:34 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**3.1**	mg/kg	0.13	5	06/11/20 12:18	06/16/20 13:17	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**27.6**	%	0.10	1		06/12/20 11:47		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-18B (1-1.5) **Lab ID: 10521027031** Collected: 06/07/20 14:35 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**2.7**	mg/kg	0.11	5	06/11/20 12:18	06/16/20 13:19	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**18.8**	%	0.10	1		06/12/20 11:48		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-18 (0-0.5) **Lab ID: 10521027032** Collected: 06/07/20 14:45 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.48**	mg/kg	0.023	1	06/11/20 12:18	06/12/20 18:09	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**19.9**	%	0.10	1		06/12/20 11:48		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-18 (1-1.5) **Lab ID: 10521027033** Collected: 06/07/20 14:47 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.054**	mg/kg	0.024	1	06/11/20 12:18	06/12/20 18:17	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**18.2**	%	0.10	1		06/12/20 11:48		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-38 (0-0.5) **Lab ID: 10521027034** Collected: 06/07/20 15:10 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.056**	mg/kg	0.020	1	06/11/20 12:18	06/12/20 18:19	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**7.4**	%	0.10	1		06/12/20 11:48		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-38 (1-1.5) **Lab ID: 10521027035** Collected: 06/07/20 15:11 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.050**	mg/kg	0.024	1	06/11/20 12:18	06/12/20 18:22	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**15.1**	%	0.10	1		06/12/20 11:48		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-25 (0-0.5) **Lab ID: 10521027036** Collected: 06/07/20 15:24 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**63.9**	mg/kg	2.3	100	06/11/20 12:18	06/16/20 13:43	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**19.8**	%	0.10	1		06/12/20 11:49		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-25 (1-1.5) **Lab ID: 10521027037** Collected: 06/07/20 15:25 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**1.6**	mg/kg	0.047	2	06/11/20 12:18	06/16/20 13:24	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**19.6**	%	0.10	1		06/12/20 11:49		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-48 (0-0.5) **Lab ID: 10521027038** Collected: 06/07/20 15:38 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**8.2**	mg/kg	0.22	10	06/11/20 12:18	06/16/20 13:27	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**17.3**	%	0.10	1		06/12/20 11:49		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-48 (1-1.5) **Lab ID: 10521027039** Collected: 06/07/20 15:40 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.073**	mg/kg	0.021	1	06/11/20 12:18	06/12/20 18:41	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**8.9**	%	0.10	1		06/12/20 11:49		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-50 (0-0.5) **Lab ID: 10521027040** Collected: 06/07/20 16:01 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**3.5**	mg/kg	0.11	5	06/11/20 12:18	06/16/20 13:35	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**18.9**	%	0.10	1		06/12/20 11:49		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-50 (1-1.5) **Lab ID: 10521027041** Collected: 06/07/20 16:03 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.047**	mg/kg	0.023	1	06/11/20 11:06	06/12/20 14:00	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**11.8**	%	0.10	1		06/12/20 11:49		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-41 (0-0.5) **Lab ID: 10521027042** Collected: 06/07/20 14:15 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**6.4**	mg/kg	0.24	10	06/11/20 11:06	06/16/20 11:55	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**16.2**	%	0.10	1		06/12/20 11:50		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: Dup-2-06072020 **Lab ID: 10521027043** Collected: 06/07/20 12:01 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**4.6**	mg/kg	0.22	10	06/11/20 11:06	06/16/20 11:58	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**16.2**	%	0.10	1		06/12/20 11:50		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-41 (1-1.5) **Lab ID: 10521027044** Collected: 06/07/20 14:16 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**1.6**	mg/kg	0.041	2	06/11/20 11:06	06/16/20 12:00	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**14.0**	%	0.10	1		06/12/20 11:50		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-3I (0-0.5) **Lab ID: 10521027045** Collected: 06/09/20 07:54 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.92**	mg/kg	0.021	1	06/11/20 11:06	06/12/20 14:24	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**14.7**	%	0.10	1		06/12/20 12:31		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-3I (1-1.5) **Lab ID: 10521027046** Collected: 06/09/20 07:56 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.051**	mg/kg	0.021	1	06/11/20 11:06	06/12/20 14:26	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**15.1**	%	0.10	1		06/12/20 12:31		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-3H (0-0.5) **Lab ID: 10521027047** Collected: 06/09/20 08:06 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**130**	mg/kg	5.4	250	06/11/20 11:06	06/16/20 12:20	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**13.7**	%	0.10	1		06/12/20 12:32		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-3H (1-1.5) **Lab ID: 10521027048** Collected: 06/09/20 08:08 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**1.8**	mg/kg	0.042	2	06/11/20 11:06	06/16/20 12:07	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**12.8**	%	0.10	1		06/12/20 12:32		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-3K (0-0.5) **Lab ID: 10521027049** Collected: 06/09/20 08:18 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.90**	mg/kg	0.025	1	06/11/20 11:06	06/12/20 14:42	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**21.1**	%	0.10	1		06/12/20 12:32		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-3K (1-1.5) **Lab ID: 10521027050** Collected: 06/09/20 08:20 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.10**	mg/kg	0.020	1	06/11/20 11:06	06/12/20 14:45	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**8.9**	%	0.10	1		06/12/20 12:32		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-3L (0-0.5) **Lab ID: 10521027051** Collected: 06/09/20 08:28 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**1.4**	mg/kg	0.043	2	06/11/20 11:06	06/16/20 12:09	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**13.4**	%	0.10	1		06/12/20 12:32		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-3L (1-1.5) **Lab ID: 10521027052** Collected: 06/09/20 08:30 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.054**	mg/kg	0.023	1	06/11/20 11:06	06/12/20 14:50	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**11.2**	%	0.10	1		06/12/20 12:32		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-3G (0-0.5) **Lab ID: 10521027053** Collected: 06/09/20 08:35 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.15**	mg/kg	0.020	1	06/11/20 11:06	06/12/20 14:57	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**1.3**	%	0.10	1		06/12/20 12:33		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-3G (1-1.5) **Lab ID: 10521027054** Collected: 06/09/20 08:37 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.022	1	06/11/20 11:06	06/12/20 15:00	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**10.3**	%	0.10	1		06/12/20 12:33		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-20 (0-0.5) **Lab ID: 10521027055** Collected: 06/09/20 08:53 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.021**	mg/kg	0.020	1	06/11/20 11:06	06/12/20 15:02	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**8.4**	%	0.10	1		06/12/20 12:33		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: Dup-3-06092020 **Lab ID: 10521027056** Collected: 06/09/20 12:02 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.26**	mg/kg	0.024	1	06/11/20 11:06	06/12/20 15:04	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**20.3**	%	0.10	1		06/12/20 12:33		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-20 (1-1.5) **Lab ID: 10521027057** Collected: 06/09/20 08:55 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.070**	mg/kg	0.023	1	06/11/20 11:06	06/12/20 15:07	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**18.0**	%	0.10	1		06/12/20 12:33		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-20B (0-0.5) **Lab ID: 10521027058** Collected: 06/09/20 09:03 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.33**	mg/kg	0.024	1	06/11/20 11:06	06/12/20 15:09	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**18.4**	%	0.10	1		06/12/20 12:33		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-20B (1-1.5) **Lab ID: 10521027059** Collected: 06/09/20 09:05 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.11**	mg/kg	0.023	1	06/11/20 11:06	06/12/20 15:12	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**16.2**	%	0.10	1		06/12/20 12:33		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-20D (0-0.5) **Lab ID: 10521027060** Collected: 06/09/20 09:15 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**2.8**	mg/kg	0.12	5	06/11/20 11:06	06/16/20 12:12	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**18.5**	%	0.10	1		06/12/20 12:34		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-20D (1-1.5) **Lab ID: 10521027061** Collected: 06/09/20 09:17 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.068**	mg/kg	0.020	1	06/11/20 15:54	06/15/20 13:09	7439-97-6	M1
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**12.3**	%	0.10	1		06/12/20 12:34		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-20C (0-0.5) **Lab ID: 10521027062** Collected: 06/09/20 09:25 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**6.8**	mg/kg	0.22	10	06/11/20 15:54	06/16/20 14:45	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**19.0**	%	0.10	1		06/12/20 12:34		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-20C (1-1.5) **Lab ID: 10521027063** Collected: 06/09/20 09:28 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.023**	mg/kg	0.021	1	06/11/20 15:54	06/15/20 13:21	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**14.6**	%	0.10	1		06/12/20 12:34		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-3J (0-0.5) **Lab ID: 10521027064** Collected: 06/09/20 09:40 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**4.0**	mg/kg	0.14	5	06/11/20 15:54	06/16/20 14:47	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**29.3**	%	0.10	1		06/12/20 12:34		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-3J (1-1.5) **Lab ID: 10521027065** Collected: 06/09/20 09:42 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.14**	mg/kg	0.022	1	06/11/20 15:54	06/15/20 13:32	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**18.7**	%	0.10	1		06/12/20 13:56		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-3M (0-0.5) **Lab ID: 10521027066** Collected: 06/09/20 09:53 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**1.5**	mg/kg	0.047	2	06/11/20 15:54	06/16/20 14:50	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**23.3**	%	0.10	1		06/12/20 13:56		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-3M (1-1.5) **Lab ID: 10521027067** Collected: 06/09/20 09:55 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.043**	mg/kg	0.024	1	06/11/20 15:54	06/15/20 13:37	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**18.3**	%	0.10	1		06/12/20 13:56		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-13C (0-0.5) **Lab ID: 10521027068** Collected: 06/09/20 10:19 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.023	1	06/11/20 15:54	06/15/20 13:39	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**16.9**	%	0.10	1		06/12/20 13:56		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-13C (1-1.5) **Lab ID: 10521027069** Collected: 06/09/20 10:20 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.087**	mg/kg	0.022	1	06/11/20 15:54	06/15/20 13:42	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**13.3**	%	0.10	1		06/12/20 13:56		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-13B (0-0.5) **Lab ID: 10521027070** Collected: 06/09/20 10:30 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**3.0**	mg/kg	0.13	5	06/11/20 15:54	06/16/20 14:52	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**24.1**	%	0.10	1		06/12/20 13:57		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-13B (1-1.5) **Lab ID: 10521027071** Collected: 06/09/20 10:31 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.080**	mg/kg	0.023	1	06/11/20 15:54	06/15/20 13:46	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**19.1**	%	0.10	1		06/12/20 13:57		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-10C (0-0.5) **Lab ID: 10521027072** Collected: 06/09/20 10:39 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**1.7**	mg/kg	0.048	2	06/11/20 15:54	06/16/20 14:55	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**22.0**	%	0.10	1		06/12/20 13:57		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-10C (1-1.5) **Lab ID: 10521027073** Collected: 06/09/20 10:40 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.023	1	06/11/20 15:54	06/15/20 13:51	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**16.9**	%	0.10	1		06/12/20 13:57		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-10B (0-0.5) **Lab ID: 10521027074** Collected: 06/09/20 10:55 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**3.7**	mg/kg	0.13	5	06/11/20 15:54	06/16/20 15:03	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**22.8**	%	0.10	1		06/12/20 13:57		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-10B (1-1.5) **Lab ID: 10521027075** Collected: 06/09/20 10:56 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.040**	mg/kg	0.023	1	06/11/20 15:54	06/15/20 14:02	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**18.3**	%	0.10	1		06/12/20 13:57		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-10D (0-0.5) **Lab ID: 10521027076** Collected: 06/09/20 10:59 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.87**	mg/kg	0.025	1	06/11/20 15:54	06/15/20 14:05	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**21.5**	%	0.10	1		06/12/20 13:57		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-10D (1-1.5) **Lab ID: 10521027077** Collected: 06/09/20 11:00 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.071**	mg/kg	0.023	1	06/11/20 15:54	06/15/20 14:07	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**18.9**	%	0.10	1		06/12/20 13:58		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-10E (0-0.5) **Lab ID: 10521027078** Collected: 06/09/20 11:15 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.22**	mg/kg	0.023	1	06/11/20 15:54	06/15/20 14:10	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**19.9**	%	0.10	1		06/12/20 13:58		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-10E (1-1.5) **Lab ID: 10521027079** Collected: 06/09/20 11:16 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.022	1	06/11/20 15:54	06/15/20 14:12	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**16.8**	%	0.10	1		06/12/20 13:58		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-10F (0-0.5) **Lab ID: 10521027080** Collected: 06/09/20 11:20 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**2.3**	mg/kg	0.12	5	06/11/20 15:54	06/16/20 15:06	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**19.3**	%	0.10	1		06/12/20 13:58		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-10F (1-1.5) **Lab ID: 10521027081** Collected: 06/09/20 11:21 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.22**	mg/kg	0.022	1	06/11/20 15:54	06/15/20 10:21	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**15.7**	%	0.10	1		06/12/20 13:58		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: Dup-5-06092020 **Lab ID: 10521027082** Collected: 06/09/20 12:06 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.61**	mg/kg	0.022	1	06/11/20 15:54	06/15/20 10:28	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**18.9**	%	0.10	1		06/12/20 13:58		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-10G (0-0.5) **Lab ID: 10521027083** Collected: 06/09/20 11:34 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**2.8**	mg/kg	0.22	10	06/11/20 15:54	06/16/20 13:45	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**20.8**	%	0.10	1		06/12/20 13:58		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-10G (1-1.5) **Lab ID: 10521027084** Collected: 06/09/20 11:35 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.57**	mg/kg	0.023	1	06/11/20 15:54	06/15/20 10:33	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**15.2**	%	0.10	1		06/12/20 13:59		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-10H (0-0.5) **Lab ID: 10521027085** Collected: 06/09/20 11:55 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**3.5**	mg/kg	0.24	10	06/11/20 15:54	06/16/20 13:48	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**22.7**	%	0.10	1		06/12/20 14:28		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-10H (1-1.5) **Lab ID: 10521027086** Collected: 06/09/20 11:56 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.023	1	06/11/20 15:54	06/15/20 10:43	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**19.5**	%	0.10	1		06/12/20 14:28		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-22C (0-0.5) **Lab ID: 10521027087** Collected: 06/09/20 12:30 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**4.5**	mg/kg	0.22	10	06/11/20 15:54	06/16/20 13:50	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**15.5**	%	0.10	1		06/12/20 14:28		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-22C (1-1.5) **Lab ID: 10521027088** Collected: 06/09/20 12:32 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.22**	mg/kg	0.022	1	06/11/20 15:54	06/15/20 10:49	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**13.0**	%	0.10	1		06/12/20 14:28		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-22 (0-0.5) **Lab ID: 10521027089** Collected: 06/09/20 12:45 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**1.4**	mg/kg	0.045	2	06/11/20 15:54	06/16/20 13:53	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**19.4**	%	0.10	1		06/12/20 14:29		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-22 (1-1.5) **Lab ID: 10521027090** Collected: 06/09/20 12:47 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.038**	mg/kg	0.025	1	06/11/20 15:54	06/15/20 10:54	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**18.5**	%	0.10	1		06/12/20 14:29		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-22B (0-0.5) **Lab ID: 10521027091** Collected: 06/09/20 12:56 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**16.9**	mg/kg	1.2	50	06/11/20 15:54	06/16/20 13:55	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**16.5**	%	0.10	1		06/12/20 14:29		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-22B (1-1.5) **Lab ID: 10521027092** Collected: 06/09/20 12:58 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**109**	mg/kg	5.7	250	06/11/20 15:54	06/16/20 14:17	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**20.5**	%	0.10	1		06/12/20 14:29		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: Dup-6-06092020 **Lab ID: 10521027093** Collected: 06/09/20 12:07 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**25.0**	mg/kg	1.1	50	06/11/20 15:54	06/16/20 14:06	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**17.2**	%	0.10	1		06/12/20 14:29		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-22D (0-0.5) **Lab ID: 10521027094** Collected: 06/09/20 13:02 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.077**	mg/kg	0.022	1	06/11/20 15:54	06/15/20 11:13	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**12.7**	%	0.10	1		06/12/20 14:29		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-22D (1-1.5) **Lab ID: 10521027095** Collected: 06/09/20 13:05 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.023**	mg/kg	0.021	1	06/11/20 15:54	06/15/20 11:15	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**11.8**	%	0.10	1		06/12/20 14:30		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-22E (0-0.5) **Lab ID: 10521027096** Collected: 06/09/20 13:13 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**2.2**	mg/kg	0.12	5	06/11/20 15:54	06/16/20 14:09	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**16.3**	%	0.10	1		06/12/20 14:30		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-22E (1-1.5) **Lab ID: 10521027097** Collected: 06/09/20 13:15 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.15**	mg/kg	0.022	1	06/11/20 15:54	06/15/20 11:20	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**13.0**	%	0.10	1		06/12/20 14:30		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-22F (0-0.5) **Lab ID: 10521027098** Collected: 06/09/20 13:19 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**3.0**	mg/kg	0.12	5	06/11/20 15:54	06/16/20 14:13	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**20.8**	%	0.10	1		06/12/20 14:30		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-22F (1-1.5) **Lab ID: 10521027099** Collected: 06/09/20 13:22 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.072**	mg/kg	0.021	1	06/11/20 15:54	06/15/20 11:25	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**15.1**	%	0.10	1		06/12/20 14:30		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-22G (0-0.5) **Lab ID: 10521027100** Collected: 06/09/20 13:29 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**4.7**	mg/kg	0.22	10	06/11/20 15:54	06/16/20 14:15	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**15.4**	%	0.10	1		06/12/20 14:31		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-22G (1-1.5) **Lab ID: 10521027101** Collected: 06/09/20 13:31 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.073**	mg/kg	0.022	1	06/11/20 16:40	06/15/20 11:44	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**18.6**	%	0.10	1		06/12/20 14:31		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-22H (0-0.5) **Lab ID: 10521027102** Collected: 06/09/20 13:36 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**1.8**	mg/kg	0.11	5	06/11/20 16:40	06/16/20 14:20	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**15.0**	%	0.10	1		06/12/20 14:31		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-22H (1-1.5) **Lab ID: 10521027103** Collected: 06/09/20 13:38 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.080**	mg/kg	0.023	1	06/11/20 16:40	06/15/20 11:54	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**18.4**	%	0.10	1		06/12/20 14:31		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-22I (0-0.5) **Lab ID: 10521027104** Collected: 06/09/20 13:44 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.066**	mg/kg	0.023	1	06/11/20 16:40	06/15/20 11:56	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**17.5**	%	0.10	1		06/12/20 14:31		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-22I (1-1.5) **Lab ID: 10521027105** Collected: 06/09/20 13:46 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.023	1	06/11/20 16:40	06/15/20 12:04	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**16.9**	%	0.10	1		06/12/20 14:59		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-43 (0-0.5) **Lab ID: 10521027106** Collected: 06/09/20 14:03 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**2.7**	mg/kg	0.10	5	06/11/20 16:40	06/16/20 14:22	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**12.7**	%	0.10	1		06/12/20 15:00		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-43 (1-1.5) **Lab ID: 10521027107** Collected: 06/09/20 14:04 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.16**	mg/kg	0.023	1	06/11/20 16:40	06/15/20 12:09	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**15.5**	%	0.10	1		06/12/20 15:00		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-32 (0-0.5) **Lab ID: 10521027108** Collected: 06/09/20 14:14 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**40.9**	mg/kg	2.0	100	06/11/20 16:40	06/16/20 15:47	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**11.3**	%	0.10	1		06/12/20 15:00		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-32 (1-1.5) **Lab ID: 10521027109** Collected: 06/09/20 14:15 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.022	1	06/11/20 16:40	06/15/20 12:19	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**17.3**	%	0.10	1		06/12/20 15:00		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-14C (0-0.5) **Lab ID: 10521027110** Collected: 06/09/20 14:23 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**1.7**	mg/kg	0.048	2	06/11/20 16:40	06/16/20 14:35	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**19.4**	%	0.10	1		06/12/20 15:00		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-14C (1-1.5) **Lab ID: 10521027111** Collected: 06/09/20 14:24 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.20**	mg/kg	0.022	1	06/11/20 16:40	06/15/20 12:24	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**12.3**	%	0.10	1		06/12/20 15:00		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-14B (0-0.5) **Lab ID: 10521027112** Collected: 06/09/20 14:30 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**4.0**	mg/kg	0.14	5	06/11/20 16:40	06/16/20 14:37	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**30.9**	%	0.10	1		06/12/20 15:01		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-14B (1-1.5) **Lab ID: 10521027113** Collected: 06/09/20 14:31 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.14**	mg/kg	0.023	1	06/11/20 16:40	06/15/20 12:35	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**21.7**	%	0.10	1		06/12/20 15:01		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-14D (0-0.5) **Lab ID: 10521027114** Collected: 06/09/20 14:44 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.093**	mg/kg	0.023	1	06/11/20 16:40	06/15/20 12:38	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**18.1**	%	0.10	1		06/12/20 15:01		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-14D (1-1.5) **Lab ID: 10521027115** Collected: 06/09/20 14:45 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.024	1	06/11/20 16:40	06/15/20 12:40	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**16.0**	%	0.10	1		06/12/20 15:01		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-29 (0-0.5) **Lab ID: 10521027116** Collected: 06/09/20 14:54 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**79.8**	mg/kg	6.0	250	06/11/20 16:40	06/16/20 15:50	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**19.1**	%	0.10	1		06/12/20 15:01		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: SS-29 (1-1.5) **Lab ID: 10521027117** Collected: 06/09/20 14:55 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.33**	mg/kg	0.020	1	06/11/20 16:40	06/15/20 12:52	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**12.3**	%	0.10	1		06/12/20 15:01		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Sample: Dup-4-06092020 **Lab ID: 10521027118** Collected: 06/09/20 12:03 Received: 06/10/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**1.2**	mg/kg	0.049	2	06/11/20 16:40	06/16/20 14:42	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**21.4**	%	0.10	1		06/12/20 15:02		N2

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

QC Batch: 680503 — Analysis Method: EPA 7471B
QC Batch Method: EPA 7471B — Analysis Description: 7471B Mercury Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10521027001, 10521027002, 10521027003, 10521027004, 10521027005, 10521027006, 10521027007, 10521027008, 10521027009, 10521027010, 10521027011, 10521027012, 10521027013, 10521027014, 10521027015, 10521027016, 10521027017, 10521027018, 10521027019, 10521027020

METHOD BLANK: 3641417 — Matrix: Solid
Associated Lab Samples: 10521027001, 10521027002, 10521027003, 10521027004, 10521027005, 10521027006, 10521027007, 10521027008, 10521027009, 10521027010, 10521027011, 10521027012, 10521027013, 10521027014, 10521027015, 10521027016, 10521027017, 10521027018, 10521027019, 10521027020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.019	06/12/20 15:45	

LABORATORY CONTROL SAMPLE: 3641418

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.48	0.48	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3641419 3641420

Parameter	Units	10521027001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	110	0.6	0.62	85.8	96.1	-3940	-2150	80-120	11	20	M6

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

QC Batch: 680504
QC Batch Method: EPA 7471B
Analysis Method: EPA 7471B
Analysis Description: 7471B Mercury Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10521027021, 10521027022, 10521027023, 10521027024, 10521027025, 10521027026, 10521027027, 10521027028, 10521027029, 10521027030, 10521027031, 10521027032, 10521027033, 10521027034, 10521027035, 10521027036, 10521027037, 10521027038, 10521027039, 10521027040

METHOD BLANK: 3641421
Matrix: Solid
Associated Lab Samples: 10521027021, 10521027022, 10521027023, 10521027024, 10521027025, 10521027026, 10521027027, 10521027028, 10521027029, 10521027030, 10521027031, 10521027032, 10521027033, 10521027034, 10521027035, 10521027036, 10521027037, 10521027038, 10521027039, 10521027040

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.019	06/12/20 17:20	

LABORATORY CONTROL SAMPLE: 3641422

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.47	0.45	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3641423 3641424

Parameter	Units	10521027021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	6.7	0.59	0.63	6.1	5.6	-93	-165	80-120	8	20	M6

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

QC Batch: 680506
QC Batch Method: EPA 7471B
Analysis Method: EPA 7471B
Analysis Description: 7471B Mercury Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10521027041, 10521027042, 10521027043, 10521027044, 10521027045, 10521027046, 10521027047, 10521027048, 10521027049, 10521027050, 10521027051, 10521027052, 10521027053, 10521027054, 10521027055, 10521027056, 10521027057, 10521027058, 10521027059, 10521027060

METHOD BLANK: 3641429
Matrix: Solid
Associated Lab Samples: 10521027041, 10521027042, 10521027043, 10521027044, 10521027045, 10521027046, 10521027047, 10521027048, 10521027049, 10521027050, 10521027051, 10521027052, 10521027053, 10521027054, 10521027055, 10521027056, 10521027057, 10521027058, 10521027059, 10521027060

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.019	06/12/20 13:55	

LABORATORY CONTROL SAMPLE: 3641430

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.44	0.42	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3641431 3641432

Parameter	Units	10521027041 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.047	0.57	0.53	0.67	0.55	109	95	80-120	19	20	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

QC Batch: 680507
QC Batch Method: EPA 7471B
Analysis Method: EPA 7471B
Analysis Description: 7471B Mercury Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10521027061, 10521027062, 10521027063, 10521027064, 10521027065, 10521027066, 10521027067, 10521027068, 10521027069, 10521027070, 10521027071, 10521027072, 10521027073, 10521027074, 10521027075, 10521027076, 10521027077, 10521027078, 10521027079, 10521027080

METHOD BLANK: 3641433
Matrix: Solid
Associated Lab Samples: 10521027061, 10521027062, 10521027063, 10521027064, 10521027065, 10521027066, 10521027067, 10521027068, 10521027069, 10521027070, 10521027071, 10521027072, 10521027073, 10521027074, 10521027075, 10521027076, 10521027077, 10521027078, 10521027079, 10521027080

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.019	06/15/20 13:04	

LABORATORY CONTROL SAMPLE: 3641434

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.45	0.46	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3641435 3641436

Parameter	Units	10521027061 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.068	0.51	0.54	0.71	0.69	125	117	80-120	3	20	M1

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

QC Batch: 680509
QC Batch Method: EPA 7471B
Analysis Method: EPA 7471B
Analysis Description: 7471B Mercury Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10521027081, 10521027082, 10521027083, 10521027084, 10521027085, 10521027086, 10521027087, 10521027088, 10521027089, 10521027090, 10521027091, 10521027092, 10521027093, 10521027094, 10521027095, 10521027096, 10521027097, 10521027098, 10521027099, 10521027100

METHOD BLANK: 3641441
Matrix: Solid
Associated Lab Samples: 10521027081, 10521027082, 10521027083, 10521027084, 10521027085, 10521027086, 10521027087, 10521027088, 10521027089, 10521027090, 10521027091, 10521027092, 10521027093, 10521027094, 10521027095, 10521027096, 10521027097, 10521027098, 10521027099, 10521027100

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.018	06/15/20 10:16	

LABORATORY CONTROL SAMPLE: 3641442

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.47	0.46	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3641443 3641444

Parameter	Units	10521027081 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.22	0.57	0.56	0.69	0.69	82	83	80-120	1	20	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

QC Batch: 680511
QC Batch Method: EPA 7471B
Analysis Method: EPA 7471B
Analysis Description: 7471B Mercury Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10521027101, 10521027102, 10521027103, 10521027104, 10521027105, 10521027106, 10521027107, 10521027108, 10521027109, 10521027110, 10521027111, 10521027112, 10521027113, 10521027114, 10521027115, 10521027116, 10521027117, 10521027118

METHOD BLANK: 3641445 Matrix: Solid
Associated Lab Samples: 10521027101, 10521027102, 10521027103, 10521027104, 10521027105, 10521027106, 10521027107, 10521027108, 10521027109, 10521027110, 10521027111, 10521027112, 10521027113, 10521027114, 10521027115, 10521027116, 10521027117, 10521027118

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.019	06/15/20 11:39	

LABORATORY CONTROL SAMPLE: 3641446

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.47	0.49	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3641447 3641448

Parameter	Units	10521027101 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.073	0.55	0.58	0.67	0.70	108	109	80-120	4	20	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

QC Batch: 680348 | Analysis Method: EPA 6010D
QC Batch Method: EPA 3050B | Analysis Description: 6010D Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10521027005, 10521027006, 10521027007, 10521027008, 10521027009, 10521027010

METHOD BLANK: 3640360 Matrix: Solid
Associated Lab Samples: 10521027005, 10521027006, 10521027007, 10521027008, 10521027009, 10521027010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	0.96	06/11/20 15:34	

LABORATORY CONTROL SAMPLE: 3640361

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	46.7	45.0	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3640362 3640363

Parameter	Units	10521027005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	3.2	53.2	54.8	50.9	52.8	90	91	75-125	4	20	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

QC Batch: 680637
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10521027001, 10521027002, 10521027003, 10521027004, 10521027005, 10521027006

SAMPLE DUPLICATE: 3642525

Parameter	Units	10520914009 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.1	7.8	3	30	N2

SAMPLE DUPLICATE: 3642526

Parameter	Units	10521027005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.2	14.8	19	30	N2

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

QC Batch: 680766
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10521027007, 10521027008, 10521027009, 10521027010, 10521027011, 10521027012, 10521027013, 10521027014, 10521027015, 10521027016, 10521027017, 10521027018, 10521027019, 10521027020, 10521027021, 10521027022, 10521027023, 10521027024

SAMPLE DUPLICATE: 3642986

Parameter	Units	10521192002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	2.2	2.4	7	30	N2

SAMPLE DUPLICATE: 3643205

Parameter	Units	10521027023 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.5	17.9	8	30	N2

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

QC Batch: 680779
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10521027025, 10521027026, 10521027027, 10521027028, 10521027029, 10521027030, 10521027031, 10521027032, 10521027033, 10521027034, 10521027035, 10521027036, 10521027037, 10521027038, 10521027039, 10521027040, 10521027041, 10521027042, 10521027043, 10521027044

SAMPLE DUPLICATE: 3643019

Parameter	Units	10521027025 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	18.7	19.1	2	30	N2

SAMPLE DUPLICATE: 3643022

Parameter	Units	10521027044 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.0	14.0	0	30	N2

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

QC Batch: 680781
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10521027045, 10521027046, 10521027047, 10521027048, 10521027049, 10521027050, 10521027051, 10521027052, 10521027053, 10521027054, 10521027055, 10521027056, 10521027057, 10521027058, 10521027059, 10521027060, 10521027061, 10521027062, 10521027063, 10521027064

SAMPLE DUPLICATE: 3643027

Parameter	Units	10521027045 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.7	15.9	8	30	N2

SAMPLE DUPLICATE: 3643028

Parameter	Units	10521027064 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	29.3	28.9	1	30	N2

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

QC Batch: 680787
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10521027065, 10521027066, 10521027067, 10521027068, 10521027069, 10521027070, 10521027071, 10521027072, 10521027073, 10521027074, 10521027075, 10521027076, 10521027077, 10521027078, 10521027079, 10521027080, 10521027081, 10521027082, 10521027083, 10521027084

SAMPLE DUPLICATE: 3643051

Parameter	Units	10521027065 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	18.7	18.5	1	30	N2

SAMPLE DUPLICATE: 3643052

Parameter	Units	10521027084 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	15.2	14.9	2	30	N2

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

QC Batch: 680800
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10521027085, 10521027086, 10521027087, 10521027088, 10521027089, 10521027090, 10521027091, 10521027092, 10521027093, 10521027094, 10521027095, 10521027096, 10521027097, 10521027098, 10521027099, 10521027100, 10521027101, 10521027102, 10521027103, 10521027104

SAMPLE DUPLICATE: 3643093

Parameter	Units	10521027085 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	22.7	21.6	5	30	N2

SAMPLE DUPLICATE: 3643094

Parameter	Units	10521027104 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.5	17.5	0	30	N2

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

QC Batch: 680900
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10521027105, 10521027106, 10521027107, 10521027108, 10521027109, 10521027110, 10521027111, 10521027112, 10521027113, 10521027114, 10521027115, 10521027116, 10521027117, 10521027118

SAMPLE DUPLICATE: 3643612

Parameter	Units	10521027105 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.9	17.0	1	30	N2

SAMPLE DUPLICATE: 3643642

Parameter	Units	10521027118 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	21.4	21.1	1	30	N2

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QUALIFIERS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10521027005	**SS-1C (0-0.5)**	EPA 3050B	680348	EPA 6010D	680648
10521027006	**SS-1C (1-1.5)**	EPA 3050B	680348	EPA 6010D	680648
10521027007	**SS-1B (0-0.5)**	EPA 3050B	680348	EPA 6010D	680648
10521027008	**SS-1B (1-1.5)**	EPA 3050B	680348	EPA 6010D	680648
10521027009	**SS-1F (0-0.5)**	EPA 3050B	680348	EPA 6010D	680648
10521027010	**SS-1F (1-1.5)**	EPA 3050B	680348	EPA 6010D	680648
10521027001	**SS-28 (0-0.5)**	EPA 7471B	680503	EPA 7471B	680677
10521027002	**SS-28 (1-1.5)**	EPA 7471B	680503	EPA 7471B	680677
10521027003	**SS-1D (0-0.5)**	EPA 7471B	680503	EPA 7471B	680677
10521027004	**SS-1D (1-1.5)**	EPA 7471B	680503	EPA 7471B	680677
10521027005	**SS-1C (0-0.5)**	EPA 7471B	680503	EPA 7471B	680677
10521027006	**SS-1C (1-1.5)**	EPA 7471B	680503	EPA 7471B	680677
10521027007	**SS-1B (0-0.5)**	EPA 7471B	680503	EPA 7471B	680677
10521027008	**SS-1B (1-1.5)**	EPA 7471B	680503	EPA 7471B	680677
10521027009	**SS-1F (0-0.5)**	EPA 7471B	680503	EPA 7471B	680677
10521027010	**SS-1F (1-1.5)**	EPA 7471B	680503	EPA 7471B	680677
10521027011	**SS-1E (0-0.5)**	EPA 7471B	680503	EPA 7471B	680677
10521027012	**SS-1E (1-1.5)**	EPA 7471B	680503	EPA 7471B	680677
10521027013	**SS-1K (0-0.5)**	EPA 7471B	680503	EPA 7471B	680677
10521027014	**SS-1K (1-1.5)**	EPA 7471B	680503	EPA 7471B	680677
10521027015	**SS-1J (0-0.5)**	EPA 7471B	680503	EPA 7471B	680677
10521027016	**SS-1J (1-1.5)**	EPA 7471B	680503	EPA 7471B	680677
10521027017	**SS-1G (0-0.5)**	EPA 7471B	680503	EPA 7471B	680677
10521027018	**SS-1G (1-1.5)**	EPA 7471B	680503	EPA 7471B	680677
10521027019	**SS-1H (0-0.5)**	EPA 7471B	680503	EPA 7471B	680677
10521027020	**SS-1H (1-1.5)**	EPA 7471B	680503	EPA 7471B	680677
10521027021	**SS-1I (0-0.5)**	EPA 7471B	680504	EPA 7471B	680676
10521027022	**SS-1I (1-1.5)**	EPA 7471B	680504	EPA 7471B	680676
10521027023	**SS-18E (0-0.5)**	EPA 7471B	680504	EPA 7471B	680676
10521027024	**SS-18E (1-1.5)**	EPA 7471B	680504	EPA 7471B	680676
10521027025	**SS-18D (0-0.5)**	EPA 7471B	680504	EPA 7471B	680676
10521027026	**SS-18D (1-1.5)**	EPA 7471B	680504	EPA 7471B	680676
10521027027	**SS-18C (0-0.5)**	EPA 7471B	680504	EPA 7471B	680676
10521027028	**SS-18C (1-1.5)**	EPA 7471B	680504	EPA 7471B	680676
10521027029	**Dup-1-06072020**	EPA 7471B	680504	EPA 7471B	680676
10521027030	**SS-18B (0-0.5)**	EPA 7471B	680504	EPA 7471B	680676
10521027031	**SS-18B (1-1.5)**	EPA 7471B	680504	EPA 7471B	680676
10521027032	**SS-18 (0-0.5)**	EPA 7471B	680504	EPA 7471B	680676
10521027033	**SS-18 (1-1.5)**	EPA 7471B	680504	EPA 7471B	680676
10521027034	**SS-38 (0-0.5)**	EPA 7471B	680504	EPA 7471B	680676
10521027035	**SS-38 (1-1.5)**	EPA 7471B	680504	EPA 7471B	680676
10521027036	**SS-25 (0-0.5)**	EPA 7471B	680504	EPA 7471B	680676
10521027037	**SS-25 (1-1.5)**	EPA 7471B	680504	EPA 7471B	680676
10521027038	**SS-48 (0-0.5)**	EPA 7471B	680504	EPA 7471B	680676
10521027039	**SS-48 (1-1.5)**	EPA 7471B	680504	EPA 7471B	680676
10521027040	**SS-50 (0-0.5)**	EPA 7471B	680504	EPA 7471B	680676
10521027041	**SS-50 (1-1.5)**	EPA 7471B	680506	EPA 7471B	680682

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10521027042	**SS-41 (0-0.5)**	EPA 7471B	680506	EPA 7471B	680682
10521027043	**Dup-2-06072020**	EPA 7471B	680506	EPA 7471B	680682
10521027044	**SS-41 (1-1.5)**	EPA 7471B	680506	EPA 7471B	680682
10521027045	**SS-3I (0-0.5)**	EPA 7471B	680506	EPA 7471B	680682
10521027046	**SS-3I (1-1.5)**	EPA 7471B	680506	EPA 7471B	680682
10521027047	**SS-3H (0-0.5)**	EPA 7471B	680506	EPA 7471B	680682
10521027048	**SS-3H (1-1.5)**	EPA 7471B	680506	EPA 7471B	680682
10521027049	**SS-3K (0-0.5)**	EPA 7471B	680506	EPA 7471B	680682
10521027050	**SS-3K (1-1.5)**	EPA 7471B	680506	EPA 7471B	680682
10521027051	**SS-3L (0-0.5)**	EPA 7471B	680506	EPA 7471B	680682
10521027052	**SS-3L (1-1.5)**	EPA 7471B	680506	EPA 7471B	680682
10521027053	**SS-3G (0-0.5)**	EPA 7471B	680506	EPA 7471B	680682
10521027054	**SS-3G (1-1.5)**	EPA 7471B	680506	EPA 7471B	680682
10521027055	**SS-20 (0-0.5)**	EPA 7471B	680506	EPA 7471B	680682
10521027056	**Dup-3-06092020**	EPA 7471B	680506	EPA 7471B	680682
10521027057	**SS-20 (1-1.5)**	EPA 7471B	680506	EPA 7471B	680682
10521027058	**SS-20B (0-0.5)**	EPA 7471B	680506	EPA 7471B	680682
10521027059	**SS-20B (1-1.5)**	EPA 7471B	680506	EPA 7471B	680682
10521027060	**SS-20D (0-0.5)**	EPA 7471B	680506	EPA 7471B	680682
10521027061	**SS-20D (1-1.5)**	EPA 7471B	680507	EPA 7471B	680875
10521027062	**SS-20C (0-0.5)**	EPA 7471B	680507	EPA 7471B	680875
10521027063	**SS-20C (1-1.5)**	EPA 7471B	680507	EPA 7471B	680875
10521027064	**SS-3J (0-0.5)**	EPA 7471B	680507	EPA 7471B	680875
10521027065	**SS-3J (1-1.5)**	EPA 7471B	680507	EPA 7471B	680875
10521027066	**SS-3M (0-0.5)**	EPA 7471B	680507	EPA 7471B	680875
10521027067	**SS-3M (1-1.5)**	EPA 7471B	680507	EPA 7471B	680875
10521027068	**SS-13C (0-0.5)**	EPA 7471B	680507	EPA 7471B	680875
10521027069	**SS-13C (1-1.5)**	EPA 7471B	680507	EPA 7471B	680875
10521027070	**SS-13B (0-0.5)**	EPA 7471B	680507	EPA 7471B	680875
10521027071	**SS-13B (1-1.5)**	EPA 7471B	680507	EPA 7471B	680875
10521027072	**SS-10C (0-0.5)**	EPA 7471B	680507	EPA 7471B	680875
10521027073	**SS-10C (1-1.5)**	EPA 7471B	680507	EPA 7471B	680875
10521027074	**SS-10B (0-0.5)**	EPA 7471B	680507	EPA 7471B	680875
10521027075	**SS-10B (1-1.5)**	EPA 7471B	680507	EPA 7471B	680875
10521027076	**SS-10D (0-0.5)**	EPA 7471B	680507	EPA 7471B	680875
10521027077	**SS-10D (1-1.5)**	EPA 7471B	680507	EPA 7471B	680875
10521027078	**SS-10E (0-0.5)**	EPA 7471B	680507	EPA 7471B	680875
10521027079	**SS-10E (1-1.5)**	EPA 7471B	680507	EPA 7471B	680875
10521027080	**SS-10F (0-0.5)**	EPA 7471B	680507	EPA 7471B	680875
10521027081	**SS-10F (1-1.5)**	EPA 7471B	680509	EPA 7471B	680874
10521027082	**Dup-5-06092020**	EPA 7471B	680509	EPA 7471B	680874
10521027083	**SS-10G (0-0.5)**	EPA 7471B	680509	EPA 7471B	680874
10521027084	**SS-10G (1-1.5)**	EPA 7471B	680509	EPA 7471B	680874
10521027085	**SS-10H (0-0.5)**	EPA 7471B	680509	EPA 7471B	680874
10521027086	**SS-10H (1-1.5)**	EPA 7471B	680509	EPA 7471B	680874
10521027087	**SS-22C (0-0.5)**	EPA 7471B	680509	EPA 7471B	680874
10521027088	**SS-22C (1-1.5)**	EPA 7471B	680509	EPA 7471B	680874
10521027089	**SS-22 (0-0.5)**	EPA 7471B	680509	EPA 7471B	680874

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10521027090	SS-22 (1-1.5)	EPA 7471B	680509	EPA 7471B	680874
10521027091	SS-22B (0-0.5)	EPA 7471B	680509	EPA 7471B	680874
10521027092	SS-22B (1-1.5)	EPA 7471B	680509	EPA 7471B	680874
10521027093	Dup-6-06092020	EPA 7471B	680509	EPA 7471B	680874
10521027094	SS-22D (0-0.5)	EPA 7471B	680509	EPA 7471B	680874
10521027095	SS-22D (1-1.5)	EPA 7471B	680509	EPA 7471B	680874
10521027096	SS-22E (0-0.5)	EPA 7471B	680509	EPA 7471B	680874
10521027097	SS-22E (1-1.5)	EPA 7471B	680509	EPA 7471B	680874
10521027098	SS-22F (0-0.5)	EPA 7471B	680509	EPA 7471B	680874
10521027099	SS-22F (1-1.5)	EPA 7471B	680509	EPA 7471B	680874
10521027100	SS-22G (0-0.5)	EPA 7471B	680509	EPA 7471B	680874
10521027101	SS-22G (1-1.5)	EPA 7471B	680511	EPA 7471B	680877
10521027102	SS-22H (0-0.5)	EPA 7471B	680511	EPA 7471B	680877
10521027103	SS-22H (1-1.5)	EPA 7471B	680511	EPA 7471B	680877
10521027104	SS-22I (0-0.5)	EPA 7471B	680511	EPA 7471B	680877
10521027105	SS-22I (1-1.5)	EPA 7471B	680511	EPA 7471B	680877
10521027106	SS-43 (0-0.5)	EPA 7471B	680511	EPA 7471B	680877
10521027107	SS-43 (1-1.5)	EPA 7471B	680511	EPA 7471B	680877
10521027108	SS-32 (0-0.5)	EPA 7471B	680511	EPA 7471B	680877
10521027109	SS-32 (1-1.5)	EPA 7471B	680511	EPA 7471B	680877
10521027110	SS-14C (0-0.5)	EPA 7471B	680511	EPA 7471B	680877
10521027111	SS-14C (1-1.5)	EPA 7471B	680511	EPA 7471B	680877
10521027112	SS-14B (0-0.5)	EPA 7471B	680511	EPA 7471B	680877
10521027113	SS-14B (1-1.5)	EPA 7471B	680511	EPA 7471B	680877
10521027114	SS-14D (0-0.5)	EPA 7471B	680511	EPA 7471B	680877
10521027115	SS-14D (1-1.5)	EPA 7471B	680511	EPA 7471B	680877
10521027116	SS-29 (0-0.5)	EPA 7471B	680511	EPA 7471B	680877
10521027117	SS-29 (1-1.5)	EPA 7471B	680511	EPA 7471B	680877
10521027118	Dup-4-06092020	EPA 7471B	680511	EPA 7471B	680877
10521027001	SS-28 (0-0.5)	ASTM D2974	680637		
10521027002	SS-28 (1-1.5)	ASTM D2974	680637		
10521027003	SS-1D (0-0.5)	ASTM D2974	680637		
10521027004	SS-1D (1-1.5)	ASTM D2974	680637		
10521027005	SS-1C (0-0.5)	ASTM D2974	680637		
10521027006	SS-1C (1-1.5)	ASTM D2974	680637		
10521027007	SS-1B (0-0.5)	ASTM D2974	680766		
10521027008	SS-1B (1-1.5)	ASTM D2974	680766		
10521027009	SS-1F (0-0.5)	ASTM D2974	680766		
10521027010	SS-1F (1-1.5)	ASTM D2974	680766		
10521027011	SS-1E (0-0.5)	ASTM D2974	680766		
10521027012	SS-1E (1-1.5)	ASTM D2974	680766		
10521027013	SS-1K (0-0.5)	ASTM D2974	680766		
10521027014	SS-1K (1-1.5)	ASTM D2974	680766		
10521027015	SS-1J (0-0.5)	ASTM D2974	680766		
10521027016	SS-1J (1-1.5)	ASTM D2974	680766		
10521027017	SS-1G (0-0.5)	ASTM D2974	680766		
10521027018	SS-1G (1-1.5)	ASTM D2974	680766		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10521027019	SS-1H (0-0.5)	ASTM D2974	680766		
10521027020	SS-1H (1-1.5)	ASTM D2974	680766		
10521027021	SS-1I (0-0.5)	ASTM D2974	680766		
10521027022	SS-1I (1-1.5)	ASTM D2974	680766		
10521027023	SS-18E (0-0.5)	ASTM D2974	680766		
10521027024	SS-18E (1-1.5)	ASTM D2974	680766		
10521027025	SS-18D (0-0.5)	ASTM D2974	680779		
10521027026	SS-18D (1-1.5)	ASTM D2974	680779		
10521027027	SS-18C (0-0.5)	ASTM D2974	680779		
10521027028	SS-18C (1-1.5)	ASTM D2974	680779		
10521027029	Dup-1-06072020	ASTM D2974	680779		
10521027030	SS-18B (0-0.5)	ASTM D2974	680779		
10521027031	SS-18B (1-1.5)	ASTM D2974	680779		
10521027032	SS-18 (0-0.5)	ASTM D2974	680779		
10521027033	SS-18 (1-1.5)	ASTM D2974	680779		
10521027034	SS-38 (0-0.5)	ASTM D2974	680779		
10521027035	SS-38 (1-1.5)	ASTM D2974	680779		
10521027036	SS-25 (0-0.5)	ASTM D2974	680779		
10521027037	SS-25 (1-1.5)	ASTM D2974	680779		
10521027038	SS-48 (0-0.5)	ASTM D2974	680779		
10521027039	SS-48 (1-1.5)	ASTM D2974	680779		
10521027040	SS-50 (0-0.5)	ASTM D2974	680779		
10521027041	SS-50 (1-1.5)	ASTM D2974	680779		
10521027042	SS-41 (0-0.5)	ASTM D2974	680779		
10521027043	Dup-2-06072020	ASTM D2974	680779		
10521027044	SS-41 (1-1.5)	ASTM D2974	680779		
10521027045	SS-3I (0-0.5)	ASTM D2974	680781		
10521027046	SS-3I (1-1.5)	ASTM D2974	680781		
10521027047	SS-3H (0-0.5)	ASTM D2974	680781		
10521027048	SS-3H (1-1.5)	ASTM D2974	680781		
10521027049	SS-3K (0-0.5)	ASTM D2974	680781		
10521027050	SS-3K (1-1.5)	ASTM D2974	680781		
10521027051	SS-3L (0-0.5)	ASTM D2974	680781		
10521027052	SS-3L (1-1.5)	ASTM D2974	680781		
10521027053	SS-3G (0-0.5)	ASTM D2974	680781		
10521027054	SS-3G (1-1.5)	ASTM D2974	680781		
10521027055	SS-20 (0-0.5)	ASTM D2974	680781		
10521027056	Dup-3-06092020	ASTM D2974	680781		
10521027057	SS-20 (1-1.5)	ASTM D2974	680781		
10521027058	SS-20B (0-0.5)	ASTM D2974	680781		
10521027059	SS-20B (1-1.5)	ASTM D2974	680781		
10521027060	SS-20D (0-0.5)	ASTM D2974	680781		
10521027061	SS-20D (1-1.5)	ASTM D2974	680781		
10521027062	SS-20C (0-0.5)	ASTM D2974	680781		
10521027063	SS-20C (1-1.5)	ASTM D2974	680781		
10521027064	SS-3J (0-0.5)	ASTM D2974	680781		
10521027065	SS-3J (1-1.5)	ASTM D2974	680787		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10521027066	**SS-3M (0-0.5)**	ASTM D2974	680787		
10521027067	**SS-3M (1-1.5)**	ASTM D2974	680787		
10521027068	**SS-13C (0-0.5)**	ASTM D2974	680787		
10521027069	**SS-13C (1-1.5)**	ASTM D2974	680787		
10521027070	**SS-13B (0-0.5)**	ASTM D2974	680787		
10521027071	**SS-13B (1-1.5)**	ASTM D2974	680787		
10521027072	**SS-10C (0-0.5)**	ASTM D2974	680787		
10521027073	**SS-10C (1-1.5)**	ASTM D2974	680787		
10521027074	**SS-10B (0-0.5)**	ASTM D2974	680787		
10521027075	**SS-10B (1-1.5)**	ASTM D2974	680787		
10521027076	**SS-10D (0-0.5)**	ASTM D2974	680787		
10521027077	**SS-10D (1-1.5)**	ASTM D2974	680787		
10521027078	**SS-10E (0-0.5)**	ASTM D2974	680787		
10521027079	**SS-10E (1-1.5)**	ASTM D2974	680787		
10521027080	**SS-10F (0-0.5)**	ASTM D2974	680787		
10521027081	**SS-10F (1-1.5)**	ASTM D2974	680787		
10521027082	**Dup-5-06092020**	ASTM D2974	680787		
10521027083	**SS-10G (0-0.5)**	ASTM D2974	680787		
10521027084	**SS-10G (1-1.5)**	ASTM D2974	680787		
10521027085	**SS-10H (0-0.5)**	ASTM D2974	680800		
10521027086	**SS-10H (1-1.5)**	ASTM D2974	680800		
10521027087	**SS-22C (0-0.5)**	ASTM D2974	680800		
10521027088	**SS-22C (1-1.5)**	ASTM D2974	680800		
10521027089	**SS-22 (0-0.5)**	ASTM D2974	680800		
10521027090	**SS-22 (1-1.5)**	ASTM D2974	680800		
10521027091	**SS-22B (0-0.5)**	ASTM D2974	680800		
10521027092	**SS-22B (1-1.5)**	ASTM D2974	680800		
10521027093	**Dup-6-06092020**	ASTM D2974	680800		
10521027094	**SS-22D (0-0.5)**	ASTM D2974	680800		
10521027095	**SS-22D (1-1.5)**	ASTM D2974	680800		
10521027096	**SS-22E (0-0.5)**	ASTM D2974	680800		
10521027097	**SS-22E (1-1.5)**	ASTM D2974	680800		
10521027098	**SS-22F (0-0.5)**	ASTM D2974	680800		
10521027099	**SS-22F (1-1.5)**	ASTM D2974	680800		
10521027100	**SS-22G (0-0.5)**	ASTM D2974	680800		
10521027101	**SS-22G (1-1.5)**	ASTM D2974	680800		
10521027102	**SS-22H (0-0.5)**	ASTM D2974	680800		
10521027103	**SS-22H (1-1.5)**	ASTM D2974	680800		
10521027104	**SS-22I (0-0.5)**	ASTM D2974	680800		
10521027105	**SS-22I (1-1.5)**	ASTM D2974	680900		
10521027106	**SS-43 (0-0.5)**	ASTM D2974	680900		
10521027107	**SS-43 (1-1.5)**	ASTM D2974	680900		
10521027108	**SS-32 (0-0.5)**	ASTM D2974	680900		
10521027109	**SS-32 (1-1.5)**	ASTM D2974	680900		
10521027110	**SS-14C (0-0.5)**	ASTM D2974	680900		
10521027111	**SS-14C (1-1.5)**	ASTM D2974	680900		
10521027112	**SS-14B (0-0.5)**	ASTM D2974	680900		
10521027113	**SS-14B (1-1.5)**	ASTM D2974	680900		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B1903316.00 Hillcrest
Pace Project No.: 10521027

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10521027114	**SS-14D (0-0.5)**	ASTM D2974	680900		
10521027115	**SS-14D (1-1.5)**	ASTM D2974	680900		
10521027116	**SS-29 (0-0.5)**	ASTM D2974	680900		
10521027117	**SS-29 (1-1.5)**	ASTM D2974	680900		
10521027118	**Dup-4-06092020**	ASTM D2974	680900		

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Page: 1 of 10

2277753

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Braun Intertec	Report To: Mark Keefer	Attention:
Address: 11001 Hampshire Ave S. Bloomington, MN 55438	Copy To:	Company Name: Same
Email To: MKeefer@braunintertec.com	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name: Hillcrest	Pace Project Manager:
Requested Due Date/TAT: STD	Project Number: B1903316.00	Pace Profile #: 34125

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MN

WO#: 10521027

10521027

Requested Analysis Filtered (Y/N)

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: Mercury	Arsenic	Resid	Pace Project No./ Lab I.D.
1	SS-2B (0-0.5)	SL	G			6/1/20	1120		1	1								X			001
2	SS-2B (1-1.5)						1121														002
3	SS-1D (0-0.5)						1140														003
4	SS-1D (1-1.5)						1141														004
5	SS-1C (0-0.5)						1155												X		005
6	SS-1C (1-1.5)						1156												X		006
7	SS-1B (0-0.5)						1206												X		007
8	SS-1B (1-1.5)						1207												X		008
9	SS-1F (0-0.5)						1220												X		009
10	SS-1F (1-1.5)						1221												X		010
11	SS-1E (0-0.5)						1235														011
12	SS-1E (1-1.5)						1236														012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	~~Graham Hanson/Braun~~ 6/1			PACE	6.10.20	0930	2-4	Y	N	Y
	Mark Keefe/Bic	6-10-20	9:24	[signature] PACE	6/10/20	1010				
	PACE	6.10.20	0930							
	[signature] PACE	6/10/20	1125	[signature]	6/10/20	1125	1.9 2.3 2.6	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Graham Hanson

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 6/10/20

ORIGINAL

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2277754

Section A Required Client Information:

Company:	Braun Intertec
Address:	11001 Hampshire Ave S. Bloomington, MN 55438
Email To:	MKeefer@Brauninterte c.com
Phone:	
Fax:	
Requested Due Date/TAT:	STD

Section B Required Project Information:

Report To:	Mark Keefer
Copy To:	
Purchase Order No.:	
Project Name:	Hillcrest
Project Number:	B1903316.00

Section C Invoice Information:

Attention:	
Company Name:	
Address:	Same
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	34125

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MN

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Mercury	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SS-1K (0-0.5)	SL	G			6/7/20	1244		1	1									X		013
2	SS-1K (1-1.5)						1245														014
3	SS-1J (0-0.5)						1254														015
4	SS-1J (1-1.5)						1255														016
5	SS-1G (0-0.5)						1307														017
6	SS-1G (1-1.5)						1308														018
7	SS-1H (0-0.5)						1316														019
8	SS-1H (1-1.5)						1317														020
9	SS-1I (0-0.5)						1327														021
10	SS-1I (1-1.5)						1328														022
11	SS-18E (0-0.5)						1349														023
12	SS-18E (1-1.5)						1350														024

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Mark Keefer / BIC	6-10-20	9:24	[signature] PACE	6.10.20	0930	2.4	Y	N	Y
	[signature] PACE	6.10.20	0930	[signature] / Pace	6/10/20	1010				
	[signature] / Pace	6/10/20	1125	[signature]	6/10/20	1125	1.9	Y	N	Y
							2.3,2.6			

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Gunnham Hanson

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 6/10/20

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F-ALL-C-010-rev.00, 09Nov2017

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Page: 3 of 10

2277750

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Braun Intertec	Report To: Mark Keefer	Attention:
Address: 11001 Hampshire Ave S. Bloomington, MN 55438	Copy To:	Company Name:
		Address:
Email To: MKeefer@BraunIntertec.com	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name: Hillcrest	Pace Project Manager:
Requested Due Date/TAT: STD	Project Number: B1903316.00	Pace Profile #: 34125

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Mercury	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SS-18 D (0-0.5)	SL	G			6/7/20	1404		1	1									X		025
2	SS-18D (1-1.5)						1405														026
3	SS-18C (0-0.5)						1418														027
4	SS-18C (1-1.5)						1419														028
5	DUP-1-06072020		C				1200														029
6	SS-18B (0-0.5)		G				1434														036
7	SS-18B (1-1.5)						1435														031
8	SS-18 (0-0.5)						1445		3	3											032
9	SS-18 (1-1.5)						1447		1	1											033
10	SS-38 (0-0.5)						1510														034
11	SS-38 (1-1.5)						1511														035
12	SS-25 (0-0.5)						1524														036

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Mark Keefer / BIC	6-10-20	9:24	[signature] PACE	6.10.20	0930	2.4	Y	N	Y
	[signature] PACE	6.10.20	0930	[signature] / Pace	6/10/20	1010				
	[signature] / Pace	6/10/20	1125	[signature]	6/10/20	1125	1.9	Y	N	Y
							2.3, 2.6			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Graham Hanson

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 6/10/20

ORIGINAL

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2277751

Section A Required Client Information:

Company: Braun Intertec
Address: 11001 Hampshire Ave S.
Bloomington MN 55438
Email To: MKeefer@Braunintertec.com
Phone: Fax:
Requested Due Date/TAT: STD

Section B Required Project Information:

Report To: Mark Keefer
Copy To:
Purchase Order No.:
Project Name: Hillcrest
Project Number: B1903316.00

Section C Invoice Information:

Attention:
Company Name:
Address: Same
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 34125

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analysis Test: Mercury	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SS-25 (1-1.5)	SL	G			6/1/20	1525		1	1									X		037
2	SS-48 (0-0.5)						1538														038
3	SS-48 (1-1.5)						1540														039
4	SS-50 (0-0.5)						1601														040
5	SS-50 (1-1.5)						1603														041
6	SS-41 (0-0.5)		↓				1415														042
7	DUP-2-06072020		C				1201														043
8	SS-41 (1-1.5)		G			↓	1416														044
9	SS-3I (0-0.5)					6/9/20	0754														045
10	SS-3I (1-1.5)						0756														046
11	SS-3H (0-0.5)						0806														047
12	SS-3H (1-1.5)	↓	↓			↓	0808		↓	↓									↓		048

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Mark Keefer / BIC	6-10-20	924	PACE	6.10.20	0930	2.4	Y	N	Y
	PACE	6.10.20	0930	Clayton B / Pace	6/10/20	1010				
	Clayton B / Pace	6/10/20	1125	Mark K / Pace	6/10/20	1125	1.9	Y	N	Y
							2.3,2.6			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Graham Hanson
SIGNATURE of SAMPLER: Graham Hanson
DATE Signed (MM/DD/YY): 6/10/20

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2277752

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Braun Intertec	Report To: Mark Keefer	Attention:
Address: 11001 Hampshire Ave S.	Copy To:	Company Name:
Bloomington MN 55438		Address: Same
Email To: MKeefer@BraunIntertec.com	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name: Hillcrest	Pace Project Manager:
Requested Due Date/TAT: STD	Project Number: B1903316.00	Pace Profile #: 34125

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE)

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis Filtered (Y/N): Y/N	Analysis Test: Mercury	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SS-3K (0-0.5')	SL	G			6/9/20	0818		1	1									X		049
2	SS-3K (1-1.5')						0820														050
3	SS-3L (0-0.5')						0828														051
4	SS-3L (1-1.5')						0830														052
5	SS-3G (0-0.5')						0835														053
6	SS-3G (1-1.5')						0837														054
7	SS-20 (0-0.5')		↓				0853														055
8	DUP-3-06092020		C				1202														056
9	SS-20 (1-1.5')		G				0855														057
10	SS-20B (0-0.5')						0903														058
11	SS-20B (1-1.5')						0905														059
12	SS-20D (0-0.5')	↓	↓			↓	0915		↓	↓									↓		060

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Mary Keefer/BIC	6-10-20	924	PACE	6.10.20	0930	2.4	Y	N	Y
	PACE	6.10.20	0930	Clayton B/ Pace	6/10/20	1010				
	Clayton B/ Pace	6/10/20	1125	Mitch McRae	6/10/20	1125	1.9	Y	N	Y
							2.3, 2.6			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2277755

Section A Required Client Information:

Company: Brown Intertec
Address: 11001 Hampshire Ave S.
Bloomington, MN 55438
Email To: MKeefer@Brownintertec.com
Phone: Fax:
Requested Due Date/TAT: STD

Section B Required Project Information:

Report To: Mark Keefer
Copy To:
Purchase Order No.:
Project Name: Hillcrest
Project Number: B1903316.00

Section C Invoice Information:

Attention:
Company Name:
Address: Same
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 34125

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analysis Test: Mercury	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SS-20D (1-1.5)	SL	G			6/9/20	0917		1	1									X		061
2	SS-20C (0-0.5)		C				0925		3	3											062
3	SS-20C (1-1.5)		G				0928		1	1											063
4	SS-3J (0-0.5)						0940														064
5	SS-3J (1-1.5)						0942														065
6	SS-3M (0-0.5)						0953														066
7	SS-3M (1-1.5)		↓				0955														067
8	Dup-4-06092020		C				1203														~~068~~ 118
9	SS-13C (0-0.5)		G				1019														68 065
10	SS-13C (1-1.5)						1020														69 066 CEG
11	SS-13B (0-0.5)						1030														70 071 6/10/20
12	SS-13B (1-1.5)	↓	↓			↓	1031		↓	↓									↓		71 072

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Mark Keefer/BIC	6-10-20	924	PACE	6.10.20	0930	2.4	Y	N	Y
	PACE	6.10.20	0930	Chase BI/Pace	6/10/20	1010				
	Chase BI/Pace	6/10/20	1125	Mark A Pace	6/10/20	1125	1.9	Y	N	Y
							2.3, 2.6			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Graham Hanson
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 6/10/20

ORIGINAL

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CHAIN-OF-CUSTODY / Analytical Request Document

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2277756

Section A Required Client Information:

Company: Braun Intertec
Address: 11001 Hampshire Ave S
Bloomington, MN 55438
Email To: MKeeter@BraunIntertec.com
Phone: Fax:
Requested Due Date/TAT: STD

Section B Required Project Information:

Report To: Mark Keeter
Copy To:
Purchase Order No.:
Project Name: Hillcrest
Project Number: B1903316.00

Section C Invoice Information:

Attention:
Company Name: Same
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 34125

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: Mercury	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SS-10C (0-0.5)	SL	G			6/9/20	1039		1	1								X		72 073
2	SS-10C (1-1.5)						1040													73 074
3	SS-10B (0-0.5)						1055													74 075
4	SS-10B (1-1.5)						1056													75 076
5	SS-10D (0-0.5)						1059													76 077 CEG
6	SS-10D (1-1.5)						1100													77 078 6/10/20
7	SS-10E (0-0.5)						1115													78 079
8	SS-10E (1-1.5)						1116													79 080
9	SS-10F (0-0.5)						1120													80 081
10	SS-10F (1-1.5)		↓				1121													81 082
11	DUP-5-06092020		C				1206													82 083
12	SS-10G (0-0.5)	↓	G			↓	1134		↓	↓								↓		83 084

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Mark Keeter/BIC	6-10-20	924	PACE	6.10.20	0930	2.4	Y	N	Y
	PACE	6.10.20	0936	[illegible]	6/10/20	1010				
	[illegible]	6/10/20	1125	[illegible]	6/10/20	1125	1.9	Y	N	Y
							2.3, 2.6			

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

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CHAIN-OF-CUSTODY / Analytical Request Document

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2277757

Section A Required Client Information:

Company: Braun Intertec
Address: 11001 Hampshire Ave S.
Bloomington MN 55438
Email To: MKeeler@braunintertec.com
Phone: Fax:
Requested Due Date/TAT: STD

Section B Required Project Information:

Report To: Mark Keeler
Copy To:
Purchase Order No.:
Project Name: Hillcrest
Project Number: B1903316.00

Section C Invoice Information:

Attention:
Company Name:
Address: Same
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 34125

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Analysis Test: Mercury	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SS-10 G (1-1.5)	SL	G			06/09/20	1135		1	1									X		84 0845
2	SS-10 H (0-0.5)						1155														85 0856
3	SS-10 H (1-1.5)						1156														86 0857
4	SS-22 C (0-0.5)						1230														87 0845
5	SS-22 C (1-1.5)						1232														88 0845 CEG
6	SS-22 (0-0.5)						1245														89 0900 6/10/20
7	SS-22 (1-1.5)						1247														90 0901
8	SS-22B (0-0.5)						1256														91 0902
9	SS-22B (1-1.5		↓				1258														92 0903
10	Dup-6-06092020		C				1207														93 0941
11	SS-22D (0-0.5)		G				1302														94 0945
12	SS-22D (1-1.5)	↓	↓			↓	1305		↓	↓									↓		95 0946

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Mark Keeler/BI	6-10-20	924	RACE	6.10.20	0930	2.4	Y	N	Y
	RACE	6.10.20	0930	Chuck B/Pace	6/10/20	1010				
	Chuck B/Pace	6/10/20	1125	Mark Keeler	6/10/20	1125	1.9	Y	N	Y
							2.3, 2.6			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Graham Hanson
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 6/10/20

ORIGINAL

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CHAIN-OF-CUSTODY / Analytical Request Document

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2277758

Section A Required Client Information:

Company: Braun Intertec
Address: 11001 Hampshire Ave S.
Bloomington MN 55438
Email To: MKeeter@braunintertec.com
Phone: Fax:
Requested Due Date/TAT: STD

Section B Required Project Information:

Report To: Mark Keeter
Copy To:
Purchase Order No.:
Project Name: Hillcrest
Project Number: B1903316.00

Section C Invoice Information:

Attention:
Company Name:
Address: Same
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 34125

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE:

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Analysis Test: Mercury	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SS-22 E (0-0.5)	SL	G			6/9/20	1313		1	1									X		96 097
2	SS-22 E (1-1.5)						1315														97 098
3	SS-22 F (0-0.5)						1319														98 099
4	SS-22 F (1-1.5)						1322														99 100
5	SS-22 G (0-0.5)						1329														100 101
6	SS-22 G (1-1.5)						1331														101 102 CEG
7	SS-22 H (0-0.5)						1336														102 103 6/10/20
8	SS-22 H (1-1.5)						1338														103 104
9	SS-22 I (0-0.5)						1344														104 105
10	SS-22 I (1-1.5)						1346														105 106
11	SS-43 (0-0.5)						1403														106 107
12	SS-43 (1-1.5)						1404														107 108

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Mark Keeter / BIC	6-10-20	924	PACE	6.10.20	0930	2.4	Y	N	Y
	PACE	6.10.20	0930	Chris B / Pace	6/10/20	1010				
	Chris B / Pace	6/10/20	1125	Will K Pace	6/10/20	1125	1.9	Y	N	Y
							2.2			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Gretchen Hanson

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 6/10/20

ORIGINAL

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 10 of 10

2277759

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Brown Interior	Report To: Mark Keefer	Attention:
Address: 11001 Hampshire Ave S	Copy To:	Company Name: Same
		Address:
Email To: MKeefer@brownintertec.com	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name: Hillcrest	Pace Project Manager:
Requested Due Date/TAT: STD	Project Number: B1903316.00	Pace Profile #: 34125

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE)

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Analysis Test: Mercury	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SS-32 (0-0.5)	SL	G			6/9/20	1414		1									Y	X		108 107
2	SS-32 (1-1.5)						1415														109 110
3	SS-14C (0-0.5)						1423														110 111
4	SS-14C (1-1.5)						1424														111 112 CEG
5	SS-14B (0-0.5)						1430														112 113 6/10/20
6	SS-14B (1-1.5)						1431														113 114
7	SS-14D (0-0.5)						1444														104 115
8	SS-14D (1-1.5)						1445														115 116
9	SS-29 (0-0.5)						1454														116 117
10	SS-29 (1-1.5)					↓	1455														117 118
11																					
12		↓	↓																↓		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Mark Keefer / BIC	6-10-20	924	PACE	6.10.20	0930	2.4	Y	N	Y
	PACE	6.10.20	0930	Client / Pace	6/10/20	1015				
	Client / Pace	6/10/20	1125	Mark Keefer	6/10/20	1125	1.9	Y	N	Y
							2.3, 2.6			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Graham Hauser

SIGNATURE of SAMPLER: For Mark Keefer — DATE Signed (MM/DD/YY): 6-10-20

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical®	Document Name: **Sample Condition Upon Receipt (SCUR) - MN**	Document Revised: 27Mar2020 **Page 1 of 1**
	Document No.: **ENV-FRM-MIN4-0150 Rev.00**	Pace Analytical Services - **Minneapolis**

Sample Condition Upon Receipt

Client Name: Braun Intertec

Project #: **WO# : 10521027**

PM: BM2 Due Date: 06/17/20

CLIENT: Braun-BLM

Courier: ☐ Fed Ex ☒ Pace ☐ UPS ☐ SpeeDee ☐ USPS ☐ Commercial ☐ Client See Exceptions ☐

Tracking Number:

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No **Biological Tissue Frozen?** ☐ Yes ☐ No ☒ N/A

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other: Cardboard box **Temp Blank?** ☒ Yes ☐ No

Thermometer: ☐ T1(0461) ☐ T2(1336) ☒ T3(0459) ☐ T4(0254) ☐ T5(0489) **Type of Ice:** ☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted

Did Samples Originate in West Virginia? ☐ Yes ☒ No **Were All Container Temps Taken?** ☐ Yes ☐ No ☒ N/A

Temp should be above freezing to 6°C **Cooler Temp Read w/temp blank:** 1.8, 2.2, 2.5 °C

Average Corrected Temp (no temp blank only): ☐ See Exceptions ☐ 1 Container ____ °C

Correction Factor: +0.1 **Cooler Temp Corrected w/temp blank :** 1.9, 2.3, 2.6 °C

USDA Regulated Soil: (☐ N/A, water sample/Other:_____)

Date/Initials of Person Examining Contents: MR 6/10/20

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☒ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present and Filled Out?	☒ Yes	☐ No		1.
Chain of Custody Relinquished?	☒ Yes	☐ No		2.
Sampler Name and/or Signature on COC?	☒ Yes	☐ No	☐ N/A	3.
Samples Arrived within Hold Time?	☒ Yes	☐ No		4.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No		5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other_____
Rush Turn Around Time Requested?	☐ Yes	☒ No		6.
Sufficient Volume?	☒ Yes	☐ No		7.
Correct Containers Used?	☒ Yes	☐ No		8.
-Pace Containers Used?	☒ Yes	☐ No		
Containers Intact?	☒ Yes	☐ No		9.
Field Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☒ N/A	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Is sufficient information available to reconcile the samples to the COC?	☒ Yes	☐ No		11. **If no, write ID/ Date/Time on Container Below:** **See Exception** ☐
Matrix: ☐ Water ☒ Soil ☐ Oil ☐ Other_____				
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☒ N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide)	☐ Yes	☐ No	☒ N/A	☐ NaOH ☐ HNO_3 ☐ H_2SO_4 ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☐ Yes	☐ No	☒ N/A	Positive for Res. Chlorine? ☐ Yes ☐ No **pH Paper Lot#** **See Exception** ☐
				Res. Chlorine | 0-6 Roll | 0-6 Strip | 0-14 Strip
Extra labels present on soil VOA or WIDRO containers?	☐ Yes	☐ No	☒ N/A	13. **See Exception** ☐
Headspace in VOA Vials (greater than 6mm)?	☐ Yes	☐ No	☒ N/A	
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	14.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	Pace Trip Blank Lot # (if purchased):_____

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: BM **Date:** 6/10/2020

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: RMC

Pace Analytical®

Document Name:
Service Center Transfer Checklist
Document Number:
ENV-FRM-MIN4-0135 Rev.00

Document Revised: 26Mar2020
Page 1 of 1
Pace Analytical Services - Minneapolis

Service Center Transfer Checklist

Service Center: MPLS ☐ BLM ☒ AZ ☐

Client: Braun Intertec

Destination Lab: MPLS ☒ VM ☐ Duluth ☐

National ☐ Other _____

Received w/ Custody Seal ? Yes ☐ No ☑

Custody Seal Intact ? Yes ☐ No ☑

Temperature °C

	Temp Read	Corr. Factor	Corr. Temp
①	2.3	+0.1 True	2.4
②	1.6		1.7
③	2.0		2.1

① 2.4
② 1.7
③ 2.1

IR Gun: B88A0143310092 ☐ Samples on ice, in cool down

Rush ☐ **Short Hold** ☐ **N/A** ☑

Containers Intact ? Yes ☑ No ☐

Repacked and Re-Iced ? Yes ☐ No ☑

Notes: _____

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

January 08, 2021

Mark Keefer
Braun Intertec
11001 Hampshire Ave S
Bloomington, MN 55438

RE: Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Dear Mark Keefer:

Enclosed are the analytical results for sample(s) received by the laboratory on June 12, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

This report was revised on January 8, 2021, to update the samples IDs of Pace samples 10521458088-089.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bob Michels
bob.michels@pacelabs.com
(612)709-5046
Project Manager

Enclosures

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Pace Analytical Services - Minneapolis MN
1700 Elm Street SE, Minneapolis, MN 55414
1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab
A2LA Certification #: 2926.01*
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009*
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014*
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605*
Georgia Certification #: 959
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086*
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064*
Maryland Certification #: 322
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137*
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240*
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081*
New Jersey Certification #: MN002
New York Certification #: 11647*
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507*
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001*
Pennsylvania Certification #: 68-00563*
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192*
Utah Certification #: MN00064*
Vermont Certification #: VT-027053137
Virginia Certification #: 460163*
Washington Certification #: C486*
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01
USDA Permit #: P330-19-00208
*Please Note: Applicable air certifications are denoted with an asterisk (*).

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10521458001	SS-23 (0-0.5)	Solid	06/10/20 09:22	06/12/20 16:30
10521458002	SS-23 (1-1.5)	Solid	06/10/20 09:24	06/12/20 16:30
10521458003	SS-23B (0-0.5)	Solid	06/10/20 09:34	06/12/20 16:30
10521458004	SS-23B (1-1.5)	Solid	06/10/20 09:36	06/12/20 16:30
10521458005	SS-23C (0-0.5)	Solid	06/10/20 09:46	06/12/20 16:30
10521458006	SS-23C (1-1.5)	Solid	06/10/20 09:48	06/12/20 16:30
10521458007	SS-23D (0-0.5)	Solid	06/10/20 09:53	06/12/20 16:30
10521458008	SS-23D (1-1.5)	Solid	06/10/20 09:55	06/12/20 16:30
10521458009	SS-23E (0-0.5)	Solid	06/10/20 10:00	06/12/20 16:30
10521458010	SS-23E (1-1.5)	Solid	06/10/20 10:02	06/12/20 16:30
10521458011	SS-23G (0-0.5)	Solid	06/10/20 10:14	06/12/20 16:30
10521458012	SS-23G (1-1.5)	Solid	06/10/20 10:16	06/12/20 16:30
10521458013	SS-23H (0-0.5)	Solid	06/10/20 10:21	06/12/20 16:30
10521458014	SS-23H (1-1.5)	Solid	06/10/20 10:23	06/12/20 16:30
10521458015	SS-23F (0-0.5)	Solid	06/10/20 10:33	06/12/20 16:30
10521458016	SS-23F (1-1.5)	Solid	06/10/20 10:35	06/12/20 16:30
10521458017	SS-23I (0-0.5)	Solid	06/10/20 10:43	06/12/20 16:30
10521458018	SS-23I (1-1.5)	Solid	06/10/20 10:45	06/12/20 16:30
10521458019	SS-23J (0-0.5)	Solid	06/10/20 10:53	06/12/20 16:30
10521458020	SS-23J (1-1.5)	Solid	06/10/20 10:55	06/12/20 16:30
10521458021	SS-35 (0-0.5)	Solid	06/10/20 11:06	06/12/20 16:30
10521458022	SS-35 (1-1.5)	Solid	06/10/20 11:08	06/12/20 16:30
10521458023	Dup-7-06092020	Solid	06/10/20 12:00	06/12/20 16:30
10521458024	SS-46 (0-0.5)	Solid	06/10/20 11:21	06/12/20 16:30
10521458025	SS-46 (1-1.5)	Solid	06/10/20 11:23	06/12/20 16:30
10521458026	SS-47 (0-0.5)	Solid	06/10/20 11:33	06/12/20 16:30
10521458027	SS-47 (1-1.5)	Solid	06/10/20 11:35	06/12/20 16:30
10521458028	SS-23K (0-0.5)	Solid	06/10/20 11:47	06/12/20 16:30
10521458029	SS-23K (1-1.5)	Solid	06/10/20 11:49	06/12/20 16:30
10521458030	SS-19F (0-0.5)	Solid	06/10/20 12:20	06/12/20 16:30
10521458031	SS-19F (1-1.5)	Solid	06/10/20 12:21	06/12/20 16:30
10521458032	Dup-8-06102020	Solid	06/10/20 12:01	06/12/20 16:30
10521458033	SS-19E (0-0.5)	Solid	06/10/20 12:29	06/12/20 16:30
10521458034	SS-19E (1-1.5)	Solid	06/10/20 12:30	06/12/20 16:30
10521458035	SS-19D (0-0.5)	Solid	06/10/20 12:39	06/12/20 16:30
10521458036	SS-19D (1-1.5)	Solid	06/10/20 12:40	06/12/20 16:30
10521458037	SS-19C (0-0.5)	Solid	06/10/20 12:49	06/12/20 16:30

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10521458038	SS-19C (1-1.5)	Solid	06/10/20 12:50	06/12/20 16:30
10521458039	SS-19B (0-0.5)	Solid	06/10/20 12:59	06/12/20 16:30
10521458040	SS-19B (1-1.5)	Solid	06/10/20 13:00	06/12/20 16:30
10521458041	SS-19 (0-0.5)	Solid	06/10/20 13:04	06/12/20 16:30
10521458042	SS-19 (1-1.5)	Solid	06/10/20 13:05	06/12/20 16:30
10521458043	SS-44 (0-0.5)	Solid	06/10/20 13:24	06/12/20 16:30
10521458044	SS-44 (1-1.5)	Solid	06/10/20 13:25	06/12/20 16:30
10521458045	SS-31 (0-0.5)	Solid	06/10/20 13:34	06/12/20 16:30
10521458046	SS-31 (1-1.5)	Solid	06/10/20 13:35	06/12/20 16:30
10521458047	SS-17J (0-0.5)	Solid	06/10/20 13:44	06/12/20 16:30
10521458048	SS-17J (1-1.5)	Solid	06/10/20 13:45	06/12/20 16:30
10521458049	SS-17I (0-0.5)	Solid	06/10/20 13:50	06/12/20 16:30
10521458050	SS-17I (1-1.5)	Solid	06/10/20 13:51	06/12/20 16:30
10521458051	SS-17H (0-0.5)	Solid	06/10/20 13:59	06/12/20 16:30
10521458052	SS-17H (1-1.5)	Solid	06/10/20 14:00	06/12/20 16:30
10521458053	SS-17G (0-0.5)	Solid	06/10/20 14:09	06/12/20 16:30
10521458054	SS-17G (1-1.5)	Solid	06/10/20 14:10	06/12/20 16:30
10521458055	Dup-9-06102020	Solid	06/10/20 12:03	06/12/20 16:30
10521458056	SS-17F (0-0.5)	Solid	06/10/20 14:14	06/12/20 16:30
10521458057	SS-17F (1-1.5)	Solid	06/10/20 14:15	06/12/20 16:30
10521458058	SS-17E (0-0.5)	Solid	06/10/20 14:32	06/12/20 16:30
10521458059	SS-17E (1-1.5)	Solid	06/10/20 14:34	06/12/20 16:30
10521458060	SS-17D (0-0.5)	Solid	06/10/20 14:40	06/12/20 16:30
10521458061	SS-17D (1-1.5)	Solid	06/10/20 14:42	06/12/20 16:30
10521458062	SS-17C (0-0.5)	Solid	06/10/20 14:46	06/12/20 16:30
10521458063	SS-17C (1-1.5)	Solid	06/10/20 14:48	06/12/20 16:30
10521458064	SS-17B (0-0.5)	Solid	06/10/20 14:54	06/12/20 16:30
10521458065	SS-17B (1-1.5)	Solid	06/10/20 14:56	06/12/20 16:30
10521458066	SS-17 (0-0.5)	Solid	06/10/20 15:01	06/12/20 16:30
10521458067	SS-17 (1-1.5)	Solid	06/10/20 15:03	06/12/20 16:30
10521458068	SS-34 (0-0.5)	Solid	06/10/20 15:08	06/12/20 16:30
10521458069	SS-34 (1-1.5)	Solid	06/10/20 15:10	06/12/20 16:30
10521458070	SS-30 (0-0.5)	Solid	06/10/20 15:24	06/12/20 16:30
10521458071	SS-30 (1-1.5)	Solid	06/10/20 15:26	06/12/20 16:30
10521458072	SS-42 (0-0.5)	Solid	06/10/20 15:39	06/12/20 16:30
10521458073	SS-42 (1-1.5)	Solid	06/10/20 15:41	06/12/20 16:30
10521458074	SS-51 (0-0.5)	Solid	06/10/20 15:44	06/12/20 16:30

REPORT OF LABORATORY ANALYSIS

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(612)607-1700

SAMPLE SUMMARY

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10521458075	SS-51 (1-1.5)	Solid	06/10/20 15:45	06/12/20 16:30
10521458076	SS-45 (0-0.5)	Solid	06/10/20 15:57	06/12/20 16:30
10521458077	SS-45 (1-1.5)	Solid	06/10/20 15:59	06/12/20 16:30
10521458078	SS-39 (0-0.5)	Solid	06/10/20 16:08	06/12/20 16:30
10521458079	SS-39 (1-1.5)	Solid	06/10/20 16:10	06/12/20 16:30
10521458080	SS-26 (0-0.5)	Solid	06/10/20 16:19	06/12/20 16:30
10521458081	SS-26 (1-1.5)	Solid	06/10/20 16:20	06/12/20 16:30
10521458082	SS-21F (0-0.5)	Solid	06/11/20 09:20	06/12/20 16:30
10521458083	SS-21F (1-1.5)	Solid	06/11/20 09:21	06/12/20 16:30
10521458084	SS-21G (0-0.5)	Solid	06/11/20 09:32	06/12/20 16:30
10521458085	SS-21G (1-1.5)	Solid	06/11/20 09:33	06/12/20 16:30
10521458086	SS-21E (0-0.5)	Solid	06/11/20 09:49	06/12/20 16:30
10521458087	SS-21E (1-1.5)	Solid	06/11/20 09:50	06/12/20 16:30
10521458088	SS-21C (0-0.5)	Solid	06/11/20 10:00	06/12/20 16:30
10521458089	SS-21C (1-1.5)	Solid	06/11/20 10:01	06/12/20 16:30
10521458090	SS-21D (0-0.5)	Solid	06/11/20 10:17	06/12/20 16:30
10521458091	SS-21D (1-1.5)	Solid	06/11/20 10:18	06/12/20 16:30
10521458092	Dup-10-06112020	Solid	06/11/20 12:00	06/12/20 16:30
10521458093	SS-21B (0-0.5)	Solid	06/11/20 10:29	06/12/20 16:30
10521458094	SS-21B (1-1.5)	Solid	06/11/20 10:30	06/12/20 16:30
10521458095	SS-21 (0-0.5)	Solid	06/11/20 10:59	06/12/20 16:30
10521458096	SS-21 (1-1.5)	Solid	06/11/20 11:00	06/12/20 16:30
10521458097	SS-33 (0-0.5)	Solid	06/11/20 11:52	06/12/20 16:30
10521458098	SS-33 (1-1.5)	Solid	06/11/20 11:53	06/12/20 16:30
10521458099	SS-4B (0-0.5)	Solid	06/11/20 12:05	06/12/20 16:30
10521458100	SS-4B (1-1.5)	Solid	06/11/20 12:06	06/12/20 16:30
10521458101	SS-4C (0-0.5)	Solid	06/11/20 12:16	06/12/20 16:30
10521458102	SS-4C (1-1.5)	Solid	06/11/20 12:17	06/12/20 16:30
10521458103	Dup-11-06112020	Solid	06/11/20 12:01	06/12/20 16:30
10521458104	SS-4D (0-0.5)	Solid	06/11/20 12:27	06/12/20 16:30
10521458105	SS-4D (1-1.5)	Solid	06/11/20 12:28	06/12/20 16:30
10521458106	SS-4E (0-0.5)	Solid	06/11/20 12:41	06/12/20 16:30
10521458107	SS-4E (1-1.5)	Solid	06/11/20 12:42	06/12/20 16:30
10521458108	SS-4F (0-0.5)	Solid	06/11/20 12:52	06/12/20 16:30
10521458109	SS-4F (1-1.5)	Solid	06/11/20 12:53	06/12/20 16:30
10521458110	SS-16D (0-0.5)	Solid	06/11/20 13:24	06/12/20 16:30
10521458111	SS-16D (1-1.5)	Solid	06/11/20 13:25	06/12/20 16:30

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(612)607-1700

SAMPLE SUMMARY

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10521458112	SS-16C (0-0.5)	Solid	06/11/20 13:34	06/12/20 16:30
10521458113	SS-16C (1-1.5)	Solid	06/11/20 13:35	06/12/20 16:30
10521458114	SS-16B (0-0.5)	Solid	06/11/20 13:44	06/12/20 16:30
10521458115	SS-16B (1-1.5)	Solid	06/11/20 13:45	06/12/20 16:30
10521458116	SS-5L (0-0.5)	Solid	06/11/20 14:07	06/12/20 16:30
10521458117	SS-5L (1-1.5)	Solid	06/11/20 14:08	06/12/20 16:30
10521458118	SS-27 (0-0.5)	Solid	06/11/20 14:15	06/12/20 16:30
10521458119	SS-27 (1-1.5)	Solid	06/11/20 14:16	06/12/20 16:30
10521458120	SS-40 (0-0.5)	Solid	06/11/20 14:29	06/12/20 16:30
10521458121	SS-40 (1-1.5)	Solid	06/11/20 14:30	06/12/20 16:30
10521458122	SS-37 (0-0.5)	Solid	06/11/20 14:50	06/12/20 16:30
10521458123	SS-37 (1-1.5)	Solid	06/11/20 14:51	06/12/20 16:30
10521458124	SS-5F (0-0.5)	Solid	06/12/20 08:43	06/12/20 16:30
10521458125	SS-5F (1-1.5)	Solid	06/12/20 08:45	06/12/20 16:30
10521458126	Dup-13-06122020	Solid	06/12/20 12:00	06/12/20 16:30
10521458127	SS-5G (0-0.5)	Solid	06/12/20 08:56	06/12/20 16:30
10521458128	SS-5G (1-1.5)	Solid	06/12/20 08:58	06/12/20 16:30
10521458129	SS-5H (0-0.5)	Solid	06/12/20 09:01	06/12/20 16:30
10521458130	SS-5H (1-1.5)	Solid	06/12/20 09:03	06/12/20 16:30
10521458131	SS-5D (0-0.5)	Solid	06/12/20 09:06	06/12/20 16:30
10521458132	SS-5D (1-1.5)	Solid	06/12/20 09:09	06/12/20 16:30
10521458133	SS-5E (0-0.5)	Solid	06/12/20 09:15	06/12/20 16:30
10521458134	SS-5E (1-1.5)	Solid	06/12/20 09:17	06/12/20 16:30
10521458135	SS-5I (0-0.5)	Solid	06/12/20 09:24	06/12/20 16:30
10521458136	SS-5I (1-1.5)	Solid	06/12/20 09:26	06/12/20 16:30
10521458137	SS-5J (0-0.5)	Solid	06/12/20 09:30	06/12/20 16:30
10521458138	SS-5J (1-1.5)	Solid	06/12/20 09:32	06/12/20 16:30
10521458139	SS-5M (0-0.5)	Solid	06/12/20 09:38	06/12/20 16:30
10521458140	SS-5M (1-1.5)	Solid	06/12/20 09:40	06/12/20 16:30
10521458141	SS-5K (0-0.5)	Solid	06/12/20 09:45	06/12/20 16:30
10521458142	SS-5K (1-1.5)	Solid	06/12/20 09:47	06/12/20 16:30
10521458143	Dup-14-06122020	Solid	06/12/20 12:01	06/12/20 16:30
10521458144	SS-24D (0-0.5)	Solid	06/12/20 10:16	06/12/20 16:30
10521458145	SS-24D (1-1.5)	Solid	06/12/20 10:17	06/12/20 16:30
10521458146	SS-24 (0-0.5)	Solid	06/12/20 10:24	06/12/20 16:30
10521458147	SS-24 (1-1.5)	Solid	06/12/20 10:25	06/12/20 16:30
10521458148	SS-24E (0-0.5)	Solid	06/12/20 10:34	06/12/20 16:30

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1700 Elm Street - Suite 200
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(612)607-1700

SAMPLE SUMMARY

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10521458149	**SS-24E (1-1.5)**	Solid	06/12/20 10:35	06/12/20 16:30
10521458150	**SS-24F (0-0.5)**	Solid	06/12/20 10:45	06/12/20 16:30
10521458151	**SS-24F (1-1.5)**	Solid	06/12/20 10:46	06/12/20 16:30
10521458152	**Dup-15-06122020**	Solid	06/12/20 12:02	06/12/20 16:30
10521458153	**SS-24C (0-0.5)**	Solid	06/12/20 10:59	06/12/20 16:30
10521458154	**SS-24C (1-1.5)**	Solid	06/12/20 11:00	06/12/20 16:30
10521458155	**SS-24B (0-0.5)**	Solid	06/12/20 11:14	06/12/20 16:30
10521458156	**SS-24B (1-1.5)**	Solid	06/12/20 11:15	06/12/20 16:30
10521458158	**Equipment Blank (HA)**	Water	06/12/20 09:30	06/12/20 16:30

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10521458001	**SS-23 (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458002	**SS-23 (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458003	**SS-23B (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458004	**SS-23B (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458005	**SS-23C (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458006	**SS-23C (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458007	**SS-23D (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458008	**SS-23D (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458009	**SS-23E (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458010	**SS-23E (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458011	**SS-23G (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458012	**SS-23G (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458013	**SS-23H (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458014	**SS-23H (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458015	**SS-23F (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458016	**SS-23F (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458017	**SS-23I (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458018	**SS-23I (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458019	**SS-23J (0-0.5)**	EPA 7471B	LMW	1	PASI-M

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SAMPLE ANALYTE COUNT

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		ASTM D2974	JDL	1	PASI-M
10521458020	SS-23J (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458021	SS-35 (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458022	SS-35 (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458023	Dup-7-06092020	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458024	SS-46 (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458025	SS-46 (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458026	SS-47 (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458027	SS-47 (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458028	SS-23K (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458029	SS-23K (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458030	SS-19F (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458031	SS-19F (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458032	Dup-8-06102020	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458033	SS-19E (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458034	SS-19E (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458035	SS-19D (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458036	SS-19D (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458037	SS-19C (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M

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10521458038	**SS-19C (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458039	**SS-19B (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458040	**SS-19B (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458041	**SS-19 (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458042	**SS-19 (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458043	**SS-44 (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458044	**SS-44 (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458045	**SS-31 (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458046	**SS-31 (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458047	**SS-17J (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458048	**SS-17J (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458049	**SS-17I (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458050	**SS-17I (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458051	**SS-17H (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458052	**SS-17H (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458053	**SS-17G (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458054	**SS-17G (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458055	**Dup-9-06102020**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458056	**SS-17F (0-0.5)**	EPA 7471B	LMW	1	PASI-M

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Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		ASTM D2974	JDL	1	PASI-M
10521458057	SS-17F (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458058	SS-17E (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458059	SS-17E (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458060	SS-17D (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458061	SS-17D (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458062	SS-17C (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458063	SS-17C (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458064	SS-17B (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458065	SS-17B (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458066	SS-17 (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458067	SS-17 (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458068	SS-34 (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458069	SS-34 (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458070	SS-30 (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458071	SS-30 (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458072	SS-42 (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458073	SS-42 (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458074	SS-51 (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M

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Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10521458075	**SS-51 (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458076	**SS-45 (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458077	**SS-45 (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458078	**SS-39 (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458079	**SS-39 (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458080	**SS-26 (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458081	**SS-26 (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458082	**SS-21F (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458083	**SS-21F (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458084	**SS-21G (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458085	**SS-21G (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458086	**SS-21E (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458087	**SS-21E (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458088	**SS-21C (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458089	**SS-21C (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458090	**SS-21D (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458091	**SS-21D (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458092	**Dup-10-06112020**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458093	**SS-21B (0-0.5)**	EPA 7471B	LMW	1	PASI-M

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Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		ASTM D2974	JDL	1	PASI-M
10521458094	SS-21B (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458095	SS-21 (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458096	SS-21 (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458097	SS-33 (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458098	SS-33 (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458099	SS-4B (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458100	SS-4B (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458101	SS-4C (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458102	SS-4C (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458103	Dup-11-06112020	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458104	SS-4D (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458105	SS-4D (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458106	SS-4E (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458107	SS-4E (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458108	SS-4F (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458109	SS-4F (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458110	SS-16D (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458111	SS-16D (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M

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Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10521458112	**SS-16C (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458113	**SS-16C (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458114	**SS-16B (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458115	**SS-16B (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458116	**SS-5L (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458117	**SS-5L (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458118	**SS-27 (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458119	**SS-27 (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458120	**SS-40 (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458121	**SS-40 (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458122	**SS-37 (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458123	**SS-37 (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458124	**SS-5F (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458125	**SS-5F (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458126	**Dup-13-06122020**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458127	**SS-5G (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458128	**SS-5G (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458129	**SS-5H (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458130	**SS-5H (1-1.5)**	EPA 7471B	LMW	1	PASI-M

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Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		ASTM D2974	JDL	1	PASI-M
10521458131	SS-5D (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458132	SS-5D (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458133	SS-5E (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458134	SS-5E (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458135	SS-5I (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458136	SS-5I (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458137	SS-5J (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458138	SS-5J (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458139	SS-5M (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458140	SS-5M (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458141	SS-5K (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458142	SS-5K (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458143	Dup-14-06122020	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458144	SS-24D (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458145	SS-24D (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458146	SS-24 (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458147	SS-24 (1-1.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458148	SS-24E (0-0.5)	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M

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SAMPLE ANALYTE COUNT

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10521458149	**SS-24E (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458150	**SS-24F (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458151	**SS-24F (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458152	**Dup-15-06122020**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458153	**SS-24C (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458154	**SS-24C (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458155	**SS-24B (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458156	**SS-24B (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521458158	**Equipment Blank (HA)**	EPA 7470A	LMW	1	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

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SUMMARY OF DETECTION

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10521458001	**SS-23 (0-0.5)**					
EPA 7471B	Mercury	44.1	mg/kg	1.0	06/16/20 15:52	M6, R1
ASTM D2974	Percent Moisture	15.8	%	0.10	06/16/20 15:38	N2
10521458002	**SS-23 (1-1.5)**					
EPA 7471B	Mercury	0.040	mg/kg	0.020	06/15/20 18:45	
ASTM D2974	Percent Moisture	10.8	%	0.10	06/16/20 15:39	N2
10521458003	**SS-23B (0-0.5)**					
EPA 7471B	Mercury	0.029	mg/kg	0.019	06/15/20 18:48	
ASTM D2974	Percent Moisture	7.7	%	0.10	06/16/20 16:19	N2
10521458004	**SS-23B (1-1.5)**					
EPA 7471B	Mercury	0.025	mg/kg	0.021	06/15/20 18:50	
ASTM D2974	Percent Moisture	10	%	0.10	06/16/20 16:19	N2
10521458005	**SS-23C (0-0.5)**					
EPA 7471B	Mercury	1.3	mg/kg	0.047	06/16/20 16:00	
ASTM D2974	Percent Moisture	22.6	%	0.10	06/16/20 16:19	N2
10521458006	**SS-23C (1-1.5)**					
EPA 7471B	Mercury	0.086	mg/kg	0.023	06/15/20 19:00	
ASTM D2974	Percent Moisture	15.8	%	0.10	06/16/20 16:19	N2
10521458007	**SS-23D (0-0.5)**					
EPA 7471B	Mercury	2.3	mg/kg	0.12	06/16/20 16:02	
ASTM D2974	Percent Moisture	19.8	%	0.10	06/16/20 16:20	N2
10521458008	**SS-23D (1-1.5)**					
EPA 7471B	Mercury	0.091	mg/kg	0.021	06/15/20 19:05	
ASTM D2974	Percent Moisture	9.0	%	0.10	06/16/20 16:20	N2
10521458009	**SS-23E (0-0.5)**					
EPA 7471B	Mercury	4.8	mg/kg	0.26	06/16/20 16:10	
ASTM D2974	Percent Moisture	22.6	%	0.10	06/16/20 16:20	N2
10521458010	**SS-23E (1-1.5)**					
EPA 7471B	Mercury	1.0	mg/kg	0.024	06/15/20 19:12	
ASTM D2974	Percent Moisture	16.7	%	0.10	06/16/20 16:20	N2
10521458011	**SS-23G (0-0.5)**					
EPA 7471B	Mercury	8.0	mg/kg	0.24	06/16/20 17:18	
ASTM D2974	Percent Moisture	20.8	%	0.10	06/16/20 16:20	N2
10521458012	**SS-23G (1-1.5)**					
EPA 7471B	Mercury	0.11	mg/kg	0.021	06/15/20 19:19	
ASTM D2974	Percent Moisture	15.1	%	0.10	06/16/20 16:20	N2
10521458013	**SS-23H (0-0.5)**					
EPA 7471B	Mercury	0.33	mg/kg	0.025	06/15/20 19:26	
ASTM D2974	Percent Moisture	21.0	%	0.10	06/16/20 16:21	N2

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10521458014	**SS-23H (1-1.5)**					
ASTM D2974	Percent Moisture	11.7	%	0.10	06/16/20 16:21	N2
10521458015	**SS-23F (0-0.5)**					
EPA 7471B	Mercury	0.042	mg/kg	0.022	06/15/20 19:31	
ASTM D2974	Percent Moisture	13.6	%	0.10	06/16/20 16:21	N2
10521458016	**SS-23F (1-1.5)**					
EPA 7471B	Mercury	0.035	mg/kg	0.020	06/15/20 19:34	
ASTM D2974	Percent Moisture	12.3	%	0.10	06/16/20 16:21	N2
10521458017	**SS-23I (0-0.5)**					
EPA 7471B	Mercury	1.4	mg/kg	0.049	06/16/20 16:14	
ASTM D2974	Percent Moisture	24.1	%	0.10	06/16/20 16:21	N2
10521458018	**SS-23I (1-1.5)**					
EPA 7471B	Mercury	0.042	mg/kg	0.021	06/15/20 19:39	
ASTM D2974	Percent Moisture	11.3	%	0.10	06/16/20 16:21	N2
10521458019	**SS-23J (0-0.5)**					
EPA 7471B	Mercury	0.49	mg/kg	0.030	06/15/20 19:41	
ASTM D2974	Percent Moisture	36.2	%	0.10	06/16/20 16:21	N2
10521458020	**SS-23J (1-1.5)**					
EPA 7471B	Mercury	0.39	mg/kg	0.024	06/15/20 19:43	
ASTM D2974	Percent Moisture	18.8	%	0.10	06/16/20 16:22	N2
10521458021	**SS-35 (0-0.5)**					
EPA 7471B	Mercury	23.4	mg/kg	0.86	06/16/20 15:14	M6,R1
ASTM D2974	Percent Moisture	15.2	%	0.10	06/16/20 16:22	N2
10521458022	**SS-35 (1-1.5)**					
EPA 7471B	Mercury	0.086	mg/kg	0.021	06/15/20 17:11	
ASTM D2974	Percent Moisture	14.4	%	0.10	06/17/20 10:40	N2
10521458023	**Dup-7-06092020**					
EPA 7471B	Mercury	20.5	mg/kg	0.90	06/16/20 17:16	
ASTM D2974	Percent Moisture	16.4	%	0.10	06/17/20 10:40	N2
10521458024	**SS-46 (0-0.5)**					
EPA 7471B	Mercury	1.3	mg/kg	0.048	06/16/20 15:26	
ASTM D2974	Percent Moisture	20.1	%	0.10	06/17/20 10:40	N2
10521458025	**SS-46 (1-1.5)**					
EPA 7471B	Mercury	0.043	mg/kg	0.022	06/15/20 17:28	
ASTM D2974	Percent Moisture	11.1	%	0.10	06/17/20 10:41	N2
10521458026	**SS-47 (0-0.5)**					
EPA 7471B	Mercury	0.054	mg/kg	0.023	06/15/20 17:31	
ASTM D2974	Percent Moisture	17.2	%	0.10	06/17/20 10:41	N2
10521458027	**SS-47 (1-1.5)**					
EPA 7471B	Mercury	0.025	mg/kg	0.022	06/15/20 17:33	

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SUMMARY OF DETECTION

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10521458027	**SS-47 (1-1.5)**					
ASTM D2974	Percent Moisture	14.3	%	0.10	06/17/20 10:41	N2
10521458028	**SS-23K (0-0.5)**					
EPA 7471B	Mercury	1.4	mg/kg	0.047	06/16/20 15:29	
ASTM D2974	Percent Moisture	18.4	%	0.10	06/17/20 10:41	N2
10521458029	**SS-23K (1-1.5)**					
EPA 7471B	Mercury	0.029	mg/kg	0.020	06/15/20 17:38	
ASTM D2974	Percent Moisture	9.9	%	0.10	06/17/20 10:41	N2
10521458030	**SS-19F (0-0.5)**					
EPA 7471B	Mercury	0.35	mg/kg	0.023	06/15/20 17:41	
ASTM D2974	Percent Moisture	20.1	%	0.10	06/17/20 10:41	N2
10521458031	**SS-19F (1-1.5)**					
EPA 7471B	Mercury	0.047	mg/kg	0.021	06/15/20 17:43	
ASTM D2974	Percent Moisture	12.2	%	0.10	06/17/20 10:42	N2
10521458032	**Dup-8-06102020**					
EPA 7471B	Mercury	0.35	mg/kg	0.023	06/15/20 17:45	
ASTM D2974	Percent Moisture	21.5	%	0.10	06/17/20 10:42	N2
10521458033	**SS-19E (0-0.5)**					
EPA 7471B	Mercury	0.67	mg/kg	0.025	06/15/20 17:53	
ASTM D2974	Percent Moisture	21.9	%	0.10	06/17/20 10:42	N2
10521458034	**SS-19E (1-1.5)**					
ASTM D2974	Percent Moisture	11.1	%	0.10	06/17/20 10:42	N2
10521458035	**SS-19D (0-0.5)**					
EPA 7471B	Mercury	2.0	mg/kg	0.11	06/16/20 15:31	
ASTM D2974	Percent Moisture	18.9	%	0.10	06/17/20 10:42	N2
10521458036	**SS-19D (1-1.5)**					
EPA 7471B	Mercury	0.092	mg/kg	0.022	06/15/20 18:00	
ASTM D2974	Percent Moisture	15.7	%	0.10	06/17/20 10:42	N2
10521458037	**SS-19C (0-0.5)**					
EPA 7471B	Mercury	3.0	mg/kg	0.13	06/16/20 15:43	
ASTM D2974	Percent Moisture	28.6	%	0.10	06/17/20 10:42	N2
10521458038	**SS-19C (1-1.5)**					
EPA 7471B	Mercury	0.30	mg/kg	0.024	06/15/20 18:05	
ASTM D2974	Percent Moisture	16.5	%	0.10	06/17/20 10:43	N2
10521458039	**SS-19B (0-0.5)**					
EPA 7471B	Mercury	3.1	mg/kg	0.14	06/16/20 15:45	
ASTM D2974	Percent Moisture	30.7	%	0.10	06/17/20 10:43	N2
10521458040	**SS-19B (1-1.5)**					
EPA 7471B	Mercury	0.65	mg/kg	0.023	06/15/20 18:10	
ASTM D2974	Percent Moisture	17.4	%	0.10	06/17/20 10:43	N2

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SUMMARY OF DETECTION

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10521458041	**SS-19 (0-0.5)**					
EPA 7471B	Mercury	1.1	mg/kg	0.027	06/15/20 21:23	
ASTM D2974	Percent Moisture	24.7	%	0.10	06/17/20 10:43	N2
10521458042	**SS-19 (1-1.5)**					
EPA 7471B	Mercury	0.12	mg/kg	0.024	06/15/20 21:30	
ASTM D2974	Percent Moisture	19.5	%	0.10	06/17/20 11:09	N2
10521458043	**SS-44 (0-0.5)**					
EPA 7471B	Mercury	11.7	mg/kg	0.44	06/16/20 17:21	
ASTM D2974	Percent Moisture	19.9	%	0.10	06/17/20 11:09	N2
10521458044	**SS-44 (1-1.5)**					
EPA 7471B	Mercury	0.13	mg/kg	0.023	06/15/20 21:38	
ASTM D2974	Percent Moisture	15.3	%	0.10	06/17/20 11:09	N2
10521458045	**SS-31 (0-0.5)**					
EPA 7471B	Mercury	1.4	mg/kg	0.044	06/16/20 16:55	
ASTM D2974	Percent Moisture	12.3	%	0.10	06/17/20 11:09	N2
10521458046	**SS-31 (1-1.5)**					
EPA 7471B	Mercury	1.6	mg/kg	0.051	06/16/20 16:57	
ASTM D2974	Percent Moisture	22.1	%	0.10	06/17/20 11:10	N2
10521458047	**SS-17J (0-0.5)**					
EPA 7471B	Mercury	3.8	mg/kg	0.13	06/16/20 17:00	
ASTM D2974	Percent Moisture	23.4	%	0.10	06/17/20 11:10	N2
10521458048	**SS-17J (1-1.5)**					
EPA 7471B	Mercury	0.16	mg/kg	0.023	06/15/20 21:54	
ASTM D2974	Percent Moisture	15.6	%	0.10	06/17/20 11:10	N2
10521458049	**SS-17I (0-0.5)**					
EPA 7471B	Mercury	3.3	mg/kg	0.13	06/16/20 17:08	
ASTM D2974	Percent Moisture	25.5	%	0.10	06/17/20 11:10	N2
10521458050	**SS-17I (1-1.5)**					
EPA 7471B	Mercury	0.56	mg/kg	0.023	06/15/20 21:59	
ASTM D2974	Percent Moisture	16.7	%	0.10	06/17/20 11:10	N2
10521458051	**SS-17H (0-0.5)**					
EPA 7471B	Mercury	1.0	mg/kg	0.025	06/15/20 22:02	
ASTM D2974	Percent Moisture	21.4	%	0.10	06/17/20 11:10	N2
10521458052	**SS-17H (1-1.5)**					
EPA 7471B	Mercury	0.12	mg/kg	0.023	06/15/20 22:04	
ASTM D2974	Percent Moisture	12.6	%	0.10	06/17/20 11:10	N2
10521458053	**SS-17G (0-0.5)**					
EPA 7471B	Mercury	16.5	mg/kg	0.48	06/16/20 17:11	
ASTM D2974	Percent Moisture	21.1	%	0.10	06/17/20 11:11	N2

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SUMMARY OF DETECTION

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10521458054	**SS-17G (1-1.5)**					
EPA 7471B	Mercury	0.21	mg/kg	0.022	06/15/20 22:17	
ASTM D2974	Percent Moisture	11.0	%	0.10	06/17/20 11:11	N2
10521458055	**Dup-9-06102020**					
EPA 7471B	Mercury	0.12	mg/kg	0.023	06/15/20 22:20	
ASTM D2974	Percent Moisture	12.4	%	0.10	06/17/20 11:11	N2
10521458056	**SS-17F (0-0.5)**					
EPA 7471B	Mercury	0.16	mg/kg	0.025	06/15/20 22:22	
ASTM D2974	Percent Moisture	23.3	%	0.10	06/17/20 11:11	N2
10521458057	**SS-17F (1-1.5)**					
ASTM D2974	Percent Moisture	14.5	%	0.10	06/17/20 11:11	N2
10521458058	**SS-17E (0-0.5)**					
EPA 7471B	Mercury	2.4	mg/kg	0.13	06/16/20 17:13	
ASTM D2974	Percent Moisture	24.7	%	0.10	06/17/20 11:12	N2
10521458059	**SS-17E (1-1.5)**					
EPA 7471B	Mercury	0.022	mg/kg	0.022	06/15/20 22:29	
ASTM D2974	Percent Moisture	12.6	%	0.10	06/17/20 11:12	N2
10521458060	**SS-17D (0-0.5)**					
EPA 7471B	Mercury	0.39	mg/kg	0.026	06/15/20 22:32	
ASTM D2974	Percent Moisture	29.2	%	0.10	06/17/20 11:12	N2
10521458061	**SS-17D (1-1.5)**					
EPA 7471B	Mercury	0.028	mg/kg	0.023	06/15/20 19:58	
ASTM D2974	Percent Moisture	16.8	%	0.10	06/17/20 11:12	N2
10521458062	**SS-17C (0-0.5)**					
EPA 7471B	Mercury	0.088	mg/kg	0.024	06/15/20 20:06	
ASTM D2974	Percent Moisture	20.3	%	0.10	06/17/20 11:47	N2
10521458063	**SS-17C (1-1.5)**					
EPA 7471B	Mercury	0.041	mg/kg	0.021	06/15/20 20:08	
ASTM D2974	Percent Moisture	12.4	%	0.10	06/17/20 11:47	N2
10521458064	**SS-17B (0-0.5)**					
EPA 7471B	Mercury	0.050	mg/kg	0.022	06/15/20 20:10	
ASTM D2974	Percent Moisture	7.3	%	0.10	06/17/20 11:47	N2
10521458065	**SS-17B (1-1.5)**					
EPA 7471B	Mercury	0.023	mg/kg	0.022	06/15/20 20:18	
ASTM D2974	Percent Moisture	20.2	%	0.10	06/17/20 11:48	N2
10521458066	**SS-17 (0-0.5)**					
EPA 7471B	Mercury	0.65	mg/kg	0.024	06/15/20 20:20	
ASTM D2974	Percent Moisture	20.7	%	0.10	06/17/20 11:48	N2
10521458067	**SS-17 (1-1.5)**					
EPA 7471B	Mercury	10.0	mg/kg	0.24	06/16/20 16:17	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10521458067	**SS-17 (1-1.5)**					
ASTM D2974	Percent Moisture	18.3	%	0.10	06/17/20 11:48	N2
10521458068	**SS-34 (0-0.5)**					
EPA 7471B	Mercury	3.1	mg/kg	0.11	06/16/20 16:19	
ASTM D2974	Percent Moisture	11.3	%	0.10	06/17/20 11:48	N2
10521458069	**SS-34 (1-1.5)**					
EPA 7471B	Mercury	0.15	mg/kg	0.024	06/15/20 20:32	
ASTM D2974	Percent Moisture	17.3	%	0.10	06/17/20 11:48	N2
10521458070	**SS-30 (0-0.5)**					
EPA 7471B	Mercury	1.3	mg/kg	0.045	06/16/20 16:40	
ASTM D2974	Percent Moisture	11.4	%	0.10	06/17/20 11:48	N2
10521458071	**SS-30 (1-1.5)**					
EPA 7471B	Mercury	0.032	mg/kg	0.024	06/15/20 20:37	
ASTM D2974	Percent Moisture	17.7	%	0.10	06/17/20 11:48	N2
10521458072	**SS-42 (0-0.5)**					
EPA 7471B	Mercury	0.11	mg/kg	0.023	06/15/20 20:39	
ASTM D2974	Percent Moisture	16.1	%	0.10	06/17/20 11:49	N2
10521458073	**SS-42 (1-1.5)**					
EPA 7471B	Mercury	7.2	mg/kg	0.21	06/16/20 16:42	
ASTM D2974	Percent Moisture	15.2	%	0.10	06/17/20 11:49	N2
10521458074	**SS-51 (0-0.5)**					
EPA 7471B	Mercury	2.8	mg/kg	0.13	06/16/20 16:45	
ASTM D2974	Percent Moisture	25.1	%	0.10	06/17/20 11:49	N2
10521458075	**SS-51 (1-1.5)**					
EPA 7471B	Mercury	0.21	mg/kg	0.022	06/15/20 20:54	
ASTM D2974	Percent Moisture	17.9	%	0.10	06/17/20 11:49	N2
10521458076	**SS-45 (0-0.5)**					
EPA 7471B	Mercury	0.069	mg/kg	0.023	06/15/20 20:56	
ASTM D2974	Percent Moisture	20.0	%	0.10	06/17/20 11:49	N2
10521458077	**SS-45 (1-1.5)**					
EPA 7471B	Mercury	0.028	mg/kg	0.020	06/15/20 20:59	
ASTM D2974	Percent Moisture	9.7	%	0.10	06/17/20 11:50	N2
10521458078	**SS-39 (0-0.5)**					
EPA 7471B	Mercury	4.4	mg/kg	0.25	06/16/20 16:47	
ASTM D2974	Percent Moisture	19.5	%	0.10	06/17/20 11:50	N2
10521458079	**SS-39 (1-1.5)**					
ASTM D2974	Percent Moisture	12.7	%	0.10	06/17/20 11:50	N2
10521458080	**SS-26 (0-0.5)**					
EPA 7471B	Mercury	1.7	mg/kg	0.10	06/16/20 16:50	
ASTM D2974	Percent Moisture	11.6	%	0.10	06/17/20 11:50	N2

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SUMMARY OF DETECTION

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10521458081	**SS-26 (1-1.5)**					
EPA 7471B	Mercury	0.64	mg/kg	0.024	06/17/20 16:10	M1
ASTM D2974	Percent Moisture	16.4	%	0.10	06/17/20 11:51	N2
10521458082	**SS-21F (0-0.5)**					
EPA 7471B	Mercury	0.82	mg/kg	0.024	06/17/20 16:18	
ASTM D2974	Percent Moisture	16.4	%	0.10	06/17/20 12:25	N2
10521458083	**SS-21F (1-1.5)**					
EPA 7471B	Mercury	0.25	mg/kg	0.022	06/17/20 16:20	
ASTM D2974	Percent Moisture	15.0	%	0.10	06/17/20 12:25	N2
10521458084	**SS-21G (0-0.5)**					
EPA 7471B	Mercury	0.56	mg/kg	0.026	06/17/20 16:23	
ASTM D2974	Percent Moisture	24.2	%	0.10	06/17/20 12:25	N2
10521458085	**SS-21G (1-1.5)**					
EPA 7471B	Mercury	0.051	mg/kg	0.021	06/17/20 16:30	
ASTM D2974	Percent Moisture	14.6	%	0.10	06/17/20 12:25	N2
10521458086	**SS-21E (0-0.5)**					
EPA 7471B	Mercury	0.047	mg/kg	0.023	06/17/20 16:33	
ASTM D2974	Percent Moisture	16.9	%	0.10	06/17/20 12:25	N2
10521458087	**SS-21E (1-1.5)**					
ASTM D2974	Percent Moisture	15.0	%	0.10	06/17/20 12:25	N2
10521458088	**SS-21C (0-0.5)**					
EPA 7471B	Mercury	0.60	mg/kg	0.025	06/17/20 16:37	
ASTM D2974	Percent Moisture	27.1	%	0.10	06/17/20 12:26	N2
10521458089	**SS-21C (1-1.5)**					
EPA 7471B	Mercury	0.062	mg/kg	0.022	06/17/20 16:40	
ASTM D2974	Percent Moisture	19.1	%	0.10	06/17/20 12:26	N2
10521458090	**SS-21D (0-0.5)**					
EPA 7471B	Mercury	0.53	mg/kg	0.024	06/17/20 16:42	
ASTM D2974	Percent Moisture	17.7	%	0.10	06/17/20 12:26	N2
10521458091	**SS-21D (1-1.5)**					
EPA 7471B	Mercury	0.19	mg/kg	0.022	06/17/20 16:45	
ASTM D2974	Percent Moisture	12.9	%	0.10	06/17/20 12:26	N2
10521458092	**Dup-10-06112020**					
EPA 7471B	Mercury	0.54	mg/kg	0.024	06/17/20 16:47	
ASTM D2974	Percent Moisture	17.4	%	0.10	06/17/20 12:26	N2
10521458093	**SS-21B (0-0.5)**					
EPA 7471B	Mercury	0.10	mg/kg	0.023	06/17/20 17:03	
ASTM D2974	Percent Moisture	24.8	%	0.10	06/17/20 12:27	N2
10521458094	**SS-21B (1-1.5)**					
ASTM D2974	Percent Moisture	15.8	%	0.10	06/17/20 12:27	N2

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SUMMARY OF DETECTION

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10521458095	**SS-21 (0-0.5)**					
EPA 7471B	Mercury	4.5	mg/kg	0.15	06/18/20 12:04	
ASTM D2974	Percent Moisture	33.4	%	0.10	06/17/20 12:27	N2
10521458096	**SS-21 (1-1.5)**					
EPA 7471B	Mercury	0.031	mg/kg	0.023	06/17/20 17:11	
ASTM D2974	Percent Moisture	18.1	%	0.10	06/17/20 12:27	N2
10521458097	**SS-33 (0-0.5)**					
EPA 7471B	Mercury	73.0	mg/kg	4.4	06/18/20 12:58	
ASTM D2974	Percent Moisture	13.9	%	0.10	06/17/20 12:27	N2
10521458098	**SS-33 (1-1.5)**					
EPA 7471B	Mercury	0.085	mg/kg	0.022	06/17/20 17:24	
ASTM D2974	Percent Moisture	14.6	%	0.10	06/17/20 12:28	N2
10521458099	**SS-4B (0-0.5)**					
EPA 7471B	Mercury	46.0	mg/kg	1.1	06/18/20 18:10	
ASTM D2974	Percent Moisture	14.7	%	0.10	06/17/20 12:28	N2
10521458100	**SS-4B (1-1.5)**					
EPA 7471B	Mercury	0.27	mg/kg	0.024	06/17/20 17:32	
ASTM D2974	Percent Moisture	16.6	%	0.10	06/17/20 12:28	N2
10521458101	**SS-4C (0-0.5)**					
EPA 7471B	Mercury	2.5	mg/kg	0.13	06/18/20 11:37	M1
ASTM D2974	Percent Moisture	29.2	%	0.10	06/17/20 12:28	N2
10521458102	**SS-4C (1-1.5)**					
EPA 7471B	Mercury	0.24	mg/kg	0.023	06/17/20 14:54	
ASTM D2974	Percent Moisture	18.9	%	0.10	06/17/20 14:15	N2
10521458103	**Dup-11-06112020**					
EPA 7471B	Mercury	2.1	mg/kg	0.053	06/18/20 11:50	
ASTM D2974	Percent Moisture	28.6	%	0.10	06/17/20 14:15	N2
10521458104	**SS-4D (0-0.5)**					
EPA 7471B	Mercury	3.6	mg/kg	0.12	06/18/20 11:52	
ASTM D2974	Percent Moisture	29.0	%	0.10	06/17/20 14:15	N2
10521458105	**SS-4D (1-1.5)**					
EPA 7471B	Mercury	0.046	mg/kg	0.024	06/17/20 15:08	
ASTM D2974	Percent Moisture	20.5	%	0.10	06/17/20 14:15	N2
10521458106	**SS-4E (0-0.5)**					
EPA 7471B	Mercury	3.4	mg/kg	0.13	06/18/20 11:55	
ASTM D2974	Percent Moisture	22.7	%	0.10	06/17/20 14:16	N2
10521458107	**SS-4E (1-1.5)**					
EPA 7471B	Mercury	0.12	mg/kg	0.024	06/17/20 15:15	
ASTM D2974	Percent Moisture	17.7	%	0.10	06/17/20 14:16	N2

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SUMMARY OF DETECTION

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10521458108	**SS-4F (0-0.5)**					
EPA 7471B	Mercury	0.13	mg/kg	0.023	06/17/20 15:17	
ASTM D2974	Percent Moisture	24.8	%	0.10	06/17/20 14:16	N2
10521458109	**SS-4F (1-1.5)**					
ASTM D2974	Percent Moisture	16.2	%	0.10	06/17/20 14:16	N2
10521458110	**SS-16D (0-0.5)**					
EPA 7471B	Mercury	1.2	mg/kg	0.048	06/18/20 11:57	
ASTM D2974	Percent Moisture	18.7	%	0.10	06/17/20 14:16	N2
10521458111	**SS-16D (1-1.5)**					
EPA 7471B	Mercury	0.13	mg/kg	0.022	06/17/20 15:24	
ASTM D2974	Percent Moisture	9.5	%	0.10	06/17/20 14:17	N2
10521458112	**SS-16C (0-0.5)**					
EPA 7471B	Mercury	1.2	mg/kg	0.049	06/18/20 11:59	
ASTM D2974	Percent Moisture	20.4	%	0.10	06/17/20 14:17	N2
10521458113	**SS-16C (1-1.5)**					
ASTM D2974	Percent Moisture	11.7	%	0.10	06/17/20 14:17	N2
10521458114	**SS-16B (0-0.5)**					
EPA 7471B	Mercury	1.1	mg/kg	0.025	06/17/20 15:39	
ASTM D2974	Percent Moisture	22.4	%	0.10	06/17/20 14:17	N2
10521458115	**SS-16B (1-1.5)**					
EPA 7471B	Mercury	0.20	mg/kg	0.023	06/17/20 15:42	
ASTM D2974	Percent Moisture	12.2	%	0.10	06/17/20 14:17	N2
10521458116	**SS-5L (0-0.5)**					
EPA 7471B	Mercury	0.16	mg/kg	0.023	06/17/20 15:44	
ASTM D2974	Percent Moisture	11.3	%	0.10	06/17/20 14:17	N2
10521458117	**SS-5L (1-1.5)**					
ASTM D2974	Percent Moisture	10.2	%	0.10	06/17/20 14:18	N2
10521458118	**SS-27 (0-0.5)**					
EPA 7471B	Mercury	3.0	mg/kg	0.11	06/18/20 12:02	
ASTM D2974	Percent Moisture	14.2	%	0.10	06/17/20 14:18	N2
10521458119	**SS-27 (1-1.5)**					
EPA 7471B	Mercury	0.18	mg/kg	0.023	06/17/20 15:53	
ASTM D2974	Percent Moisture	19.9	%	0.10	06/17/20 14:18	N2
10521458120	**SS-40 (0-0.5)**					
EPA 7471B	Mercury	0.40	mg/kg	0.023	06/17/20 15:56	
ASTM D2974	Percent Moisture	19.1	%	0.10	06/17/20 14:18	N2
10521458121	**SS-40 (1-1.5)**					
EPA 7471B	Mercury	0.036	mg/kg	0.022	06/17/20 08:25	
ASTM D2974	Percent Moisture	14.3	%	0.10	06/17/20 14:18	N2

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SUMMARY OF DETECTION

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10521458122	**SS-37 (0-0.5)**					
EPA 7471B	Mercury	2.0	mg/kg	0.11	06/18/20 11:14	
ASTM D2974	Percent Moisture	11.5	%	0.10	06/17/20 14:49	N2
10521458123	**SS-37 (1-1.5)**					
EPA 7471B	Mercury	0.089	mg/kg	0.022	06/17/20 08:35	
ASTM D2974	Percent Moisture	15.8	%	0.10	06/17/20 14:49	N2
10521458124	**SS-5F (0-0.5)**					
EPA 7471B	Mercury	1.9	mg/kg	0.11	06/18/20 11:16	
ASTM D2974	Percent Moisture	17.8	%	0.10	06/17/20 14:50	N2
10521458125	**SS-5F (1-1.5)**					
ASTM D2974	Percent Moisture	6.6	%	0.10	06/17/20 14:50	N2
10521458126	**Dup-13-06122020**					
EPA 7471B	Mercury	2.0	mg/kg	0.11	06/18/20 11:19	
ASTM D2974	Percent Moisture	17.2	%	0.10	06/17/20 14:50	N2
10521458127	**SS-5G (0-0.5)**					
EPA 7471B	Mercury	33.5	mg/kg	0.99	06/18/20 12:56	
ASTM D2974	Percent Moisture	5.6	%	0.10	06/17/20 14:50	N2
10521458128	**SS-5G (1-1.5)**					
EPA 7471B	Mercury	0.066	mg/kg	0.022	06/17/20 08:52	
ASTM D2974	Percent Moisture	10.5	%	0.10	06/17/20 14:50	N2
10521458129	**SS-5H (0-0.5)**					
ASTM D2974	Percent Moisture	7.4	%	0.10	06/17/20 14:51	N2
10521458130	**SS-5H (1-1.5)**					
EPA 7471B	Mercury	0.025	mg/kg	0.019	06/17/20 08:57	
ASTM D2974	Percent Moisture	8.0	%	0.10	06/17/20 14:51	N2
10521458131	**SS-5D (0-0.5)**					
EPA 7471B	Mercury	5.6	mg/kg	0.23	06/18/20 11:25	
ASTM D2974	Percent Moisture	21.9	%	0.10	06/17/20 14:51	N2
10521458132	**SS-5D (1-1.5)**					
EPA 7471B	Mercury	0.035	mg/kg	0.022	06/17/20 09:03	
ASTM D2974	Percent Moisture	10.9	%	0.10	06/17/20 14:51	N2
10521458133	**SS-5E (0-0.5)**					
EPA 7471B	Mercury	2.3	mg/kg	0.11	06/18/20 11:28	
ASTM D2974	Percent Moisture	18.6	%	0.10	06/17/20 14:51	N2
10521458134	**SS-5E (1-1.5)**					
EPA 7471B	Mercury	0.053	mg/kg	0.020	06/17/20 09:12	
ASTM D2974	Percent Moisture	10.3	%	0.10	06/17/20 14:51	N2
10521458135	**SS-5I (0-0.5)**					
EPA 7471B	Mercury	1.3	mg/kg	0.047	06/18/20 11:30	
ASTM D2974	Percent Moisture	22.7	%	0.10	06/17/20 14:52	N2

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10521458136	**SS-5I (1-1.5)**					
EPA 7471B	Mercury	0.11	mg/kg	0.021	06/17/20 09:17	
ASTM D2974	Percent Moisture	9.8	%	0.10	06/17/20 14:52	N2
10521458137	**SS-5J (0-0.5)**					
EPA 7471B	Mercury	5.5	mg/kg	0.22	06/18/20 11:32	
ASTM D2974	Percent Moisture	16.6	%	0.10	06/17/20 14:52	N2
10521458138	**SS-5J (1-1.5)**					
EPA 7471B	Mercury	2.8	mg/kg	0.10	06/18/20 11:35	
ASTM D2974	Percent Moisture	15.9	%	0.10	06/17/20 14:52	N2
10521458139	**SS-5M (0-0.5)**					
EPA 7471B	Mercury	0.13	mg/kg	0.022	06/17/20 09:26	
ASTM D2974	Percent Moisture	16.1	%	0.10	06/17/20 14:52	N2
10521458140	**SS-5M (1-1.5)**					
EPA 7471B	Mercury	0.30	mg/kg	0.026	06/17/20 09:29	
ASTM D2974	Percent Moisture	25.5	%	0.10	06/17/20 14:52	N2
10521458141	**SS-5K (0-0.5)**					
EPA 7471B	Mercury	0.055	mg/kg	0.025	06/17/20 13:42	M1
ASTM D2974	Percent Moisture	21.6	%	0.10	06/17/20 14:52	N2
10521458142	**SS-5K (1-1.5)**					
EPA 7471B	Mercury	0.24	mg/kg	0.023	06/17/20 13:49	
ASTM D2974	Percent Moisture	22.5	%	0.10	06/17/20 15:29	N2
10521458143	**Dup-14-06122020**					
EPA 7471B	Mercury	0.053	mg/kg	0.023	06/17/20 13:52	
ASTM D2974	Percent Moisture	22.7	%	0.10	06/17/20 15:29	N2
10521458144	**SS-24D (0-0.5)**					
ASTM D2974	Percent Moisture	12.0	%	0.10	06/17/20 15:29	N2
10521458145	**SS-24D (1-1.5)**					
ASTM D2974	Percent Moisture	10.5	%	0.10	06/17/20 15:30	N2
10521458146	**SS-24 (0-0.5)**					
EPA 7471B	Mercury	0.023	mg/kg	0.022	06/17/20 13:59	
ASTM D2974	Percent Moisture	13.8	%	0.10	06/17/20 15:30	N2
10521458147	**SS-24 (1-1.5)**					
ASTM D2974	Percent Moisture	12.1	%	0.10	06/17/20 15:30	N2
10521458148	**SS-24E (0-0.5)**					
EPA 7471B	Mercury	0.25	mg/kg	0.023	06/17/20 14:09	
ASTM D2974	Percent Moisture	16.7	%	0.10	06/17/20 15:30	N2
10521458149	**SS-24E (1-1.5)**					
ASTM D2974	Percent Moisture	9.4	%	0.10	06/17/20 15:30	N2

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10521458150	**SS-24F (0-0.5)**					
EPA 7471B	Mercury	0.024	mg/kg	0.022	06/17/20 14:14	
ASTM D2974	Percent Moisture	15.8	%	0.10	06/17/20 15:31	N2
10521458151	**SS-24F (1-1.5)**					
ASTM D2974	Percent Moisture	10.3	%	0.10	06/17/20 15:31	N2
10521458152	**Dup-15-06122020**					
ASTM D2974	Percent Moisture	15.9	%	0.10	06/17/20 15:31	N2
10521458153	**SS-24C (0-0.5)**					
EPA 7471B	Mercury	0.033	mg/kg	0.025	06/17/20 14:21	
ASTM D2974	Percent Moisture	26.6	%	0.10	06/17/20 15:31	N2
10521458154	**SS-24C (1-1.5)**					
ASTM D2974	Percent Moisture	9.9	%	0.10	06/17/20 15:31	N2
10521458155	**SS-24B (0-0.5)**					
ASTM D2974	Percent Moisture	6.1	%	0.10	06/17/20 15:31	N2
10521458156	**SS-24B (1-1.5)**					
ASTM D2974	Percent Moisture	8.9	%	0.10	06/17/20 15:32	N2

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Method: **EPA 7470A**
Description: 7470A Mercury
Client: Braun Intertec Corporation
Date: January 08, 2021

General Information:
1 sample was analyzed for EPA 7470A by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Method: **EPA 7471B**
Description: 7471B Mercury
Client: Braun Intertec Corporation
Date: January 08, 2021

General Information:
156 samples were analyzed for EPA 7471B by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7471B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 681010

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10521458001

M6: Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

- MS (Lab ID: 3644596)
  - Mercury
- MSD (Lab ID: 3644597)
  - Mercury

R1: RPD value was outside control limits.

- MSD (Lab ID: 3644597)
  - Mercury

QC Batch: 681011

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10521458021

M6: Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

- MS (Lab ID: 3644600)
  - Mercury
- MSD (Lab ID: 3644601)
  - Mercury

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Method: **EPA 7471B**
Description: 7471B Mercury
Client: Braun Intertec Corporation
Date: January 08, 2021

QC Batch: 681011

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10521458021

R1: RPD value was outside control limits.

- MSD (Lab ID: 3644601)
  - Mercury

QC Batch: 681144

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10521458081

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3644997)
  - Mercury
- MSD (Lab ID: 3644998)
  - Mercury

QC Batch: 681205

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10521458101

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 3645345)
  - Mercury

QC Batch: 681207

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10521458141

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 3645353)
  - Mercury

Additional Comments:

Analyte Comments:

QC Batch: 681033

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 3644642)
  - Mercury
- MSD (Lab ID: 3644643)
  - Mercury

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-23 (0-0.5) **Lab ID: 10521458001** Collected: 06/10/20 09:22 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**44.1**	mg/kg	1.0	50	06/14/20 15:42	06/16/20 15:52	7439-97-6	M6,R1
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**15.8**	%	0.10	1		06/16/20 15:38		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-23 (1-1.5) **Lab ID: 10521458002** Collected: 06/10/20 09:24 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.040**	mg/kg	0.020	1	06/14/20 15:42	06/15/20 18:45	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**10.8**	%	0.10	1		06/16/20 15:39		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-23B (0-0.5) **Lab ID: 10521458003** Collected: 06/10/20 09:34 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.029**	mg/kg	0.019	1	06/14/20 15:42	06/15/20 18:48	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**7.7**	%	0.10	1		06/16/20 16:19		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-23B (1-1.5) **Lab ID: 10521458004** Collected: 06/10/20 09:36 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.025**	mg/kg	0.021	1	06/14/20 15:42	06/15/20 18:50	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**10**	%	0.10	1		06/16/20 16:19		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-23C (0-0.5) **Lab ID: 10521458005** Collected: 06/10/20 09:46 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**1.3**	mg/kg	0.047	2	06/14/20 15:42	06/16/20 16:00	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**22.6**	%	0.10	1		06/16/20 16:19		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-23C (1-1.5) **Lab ID: 10521458006** Collected: 06/10/20 09:48 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.086**	mg/kg	0.023	1	06/14/20 15:42	06/15/20 19:00	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**15.8**	%	0.10	1		06/16/20 16:19		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-23D (0-0.5) **Lab ID: 10521458007** Collected: 06/10/20 09:53 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**2.3**	mg/kg	0.12	5	06/14/20 15:42	06/16/20 16:02	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**19.8**	%	0.10	1		06/16/20 16:20		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-23D (1-1.5) **Lab ID: 10521458008** Collected: 06/10/20 09:55 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.091**	mg/kg	0.021	1	06/14/20 15:42	06/15/20 19:05	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**9.0**	%	0.10	1		06/16/20 16:20		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-23E (0-0.5) **Lab ID: 10521458009** Collected: 06/10/20 10:00 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**4.8**	mg/kg	0.26	10	06/14/20 15:42	06/16/20 16:10	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**22.6**	%	0.10	1		06/16/20 16:20		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-23E (1-1.5) **Lab ID: 10521458010** Collected: 06/10/20 10:02 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**1.0**	mg/kg	0.024	1	06/14/20 15:42	06/15/20 19:12	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**16.7**	%	0.10	1		06/16/20 16:20		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-23G (0-0.5) **Lab ID: 10521458011** Collected: 06/10/20 10:14 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**8.0**	mg/kg	0.24	10	06/14/20 15:42	06/16/20 17:18	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**20.8**	%	0.10	1		06/16/20 16:20		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-23G (1-1.5) **Lab ID: 10521458012** Collected: 06/10/20 10:16 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.11**	mg/kg	0.021	1	06/14/20 15:42	06/15/20 19:19	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**15.1**	%	0.10	1		06/16/20 16:20		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-23H (0-0.5) **Lab ID: 10521458013** Collected: 06/10/20 10:21 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.33**	mg/kg	0.025	1	06/14/20 15:42	06/15/20 19:26	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**21.0**	%	0.10	1		06/16/20 16:21		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-23H (1-1.5) **Lab ID: 10521458014** Collected: 06/10/20 10:23 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.022	1	06/14/20 15:42	06/15/20 19:29	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**11.7**	%	0.10	1		06/16/20 16:21		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-23F (0-0.5) **Lab ID: 10521458015** Collected: 06/10/20 10:33 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.042**	mg/kg	0.022	1	06/14/20 15:42	06/15/20 19:31	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**13.6**	%	0.10	1		06/16/20 16:21		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-23F (1-1.5) **Lab ID: 10521458016** Collected: 06/10/20 10:35 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.035**	mg/kg	0.020	1	06/14/20 15:42	06/15/20 19:34	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**12.3**	%	0.10	1		06/16/20 16:21		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-23I (0-0.5) **Lab ID: 10521458017** Collected: 06/10/20 10:43 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**1.4**	mg/kg	0.049	2	06/14/20 15:42	06/16/20 16:14	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**24.1**	%	0.10	1		06/16/20 16:21		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-23I (1-1.5) **Lab ID: 10521458018** Collected: 06/10/20 10:45 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.042**	mg/kg	0.021	1	06/14/20 15:42	06/15/20 19:39	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**11.3**	%	0.10	1		06/16/20 16:21		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-23J (0-0.5) **Lab ID: 10521458019** Collected: 06/10/20 10:53 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.49**	mg/kg	0.030	1	06/14/20 15:42	06/15/20 19:41	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**36.2**	%	0.10	1		06/16/20 16:21		N2

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Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-23J (1-1.5) **Lab ID: 10521458020** Collected: 06/10/20 10:55 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.39**	mg/kg	0.024	1	06/14/20 15:42	06/15/20 19:43	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**18.8**	%	0.10	1		06/16/20 16:22		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-35 (0-0.5) **Lab ID: 10521458021** Collected: 06/10/20 11:06 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**23.4**	mg/kg	0.86	40	06/14/20 15:42	06/16/20 15:14	7439-97-6	M6,R1
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**15.2**	%	0.10	1		06/16/20 16:22		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-35 (1-1.5) **Lab ID: 10521458022** Collected: 06/10/20 11:08 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.086**	mg/kg	0.021	1	06/14/20 15:42	06/15/20 17:11	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**14.4**	%	0.10	1		06/17/20 10:40		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: Dup-7-06092020 **Lab ID: 10521458023** Collected: 06/10/20 12:00 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**20.5**	mg/kg	0.90	40	06/14/20 15:42	06/16/20 17:16	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**16.4**	%	0.10	1		06/17/20 10:40		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-46 (0-0.5) **Lab ID: 10521458024** Collected: 06/10/20 11:21 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**1.3**	mg/kg	0.048	2	06/14/20 15:42	06/16/20 15:26	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**20.1**	%	0.10	1		06/17/20 10:40		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-46 (1-1.5) **Lab ID: 10521458025** Collected: 06/10/20 11:23 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.043**	mg/kg	0.022	1	06/14/20 15:42	06/15/20 17:28	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**11.1**	%	0.10	1		06/17/20 10:41		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-47 (0-0.5) **Lab ID: 10521458026** Collected: 06/10/20 11:33 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.054**	mg/kg	0.023	1	06/14/20 15:42	06/15/20 17:31	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**17.2**	%	0.10	1		06/17/20 10:41		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-47 (1-1.5) **Lab ID: 10521458027** Collected: 06/10/20 11:35 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.025**	mg/kg	0.022	1	06/14/20 15:42	06/15/20 17:33	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**14.3**	%	0.10	1		06/17/20 10:41		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-23K (0-0.5) **Lab ID: 10521458028** Collected: 06/10/20 11:47 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**1.4**	mg/kg	0.047	2	06/14/20 15:42	06/16/20 15:29	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**18.4**	%	0.10	1		06/17/20 10:41		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-23K (1-1.5) **Lab ID: 10521458029** Collected: 06/10/20 11:49 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.029**	mg/kg	0.020	1	06/14/20 15:42	06/15/20 17:38	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**9.9**	%	0.10	1		06/17/20 10:41		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-19F (0-0.5) **Lab ID: 10521458030** Collected: 06/10/20 12:20 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.35**	mg/kg	0.023	1	06/14/20 15:42	06/15/20 17:41	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**20.1**	%	0.10	1		06/17/20 10:41		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-19F (1-1.5) **Lab ID: 10521458031** Collected: 06/10/20 12:21 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.047**	mg/kg	0.021	1	06/14/20 15:42	06/15/20 17:43	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**12.2**	%	0.10	1		06/17/20 10:42		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: Dup-8-06102020 **Lab ID: 10521458032** Collected: 06/10/20 12:01 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.35**	mg/kg	0.023	1	06/14/20 15:42	06/15/20 17:45	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**21.5**	%	0.10	1		06/17/20 10:42		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-19E (0-0.5) **Lab ID: 10521458033** Collected: 06/10/20 12:29 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.67**	mg/kg	0.025	1	06/14/20 15:42	06/15/20 17:53	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**21.9**	%	0.10	1		06/17/20 10:42		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-19E (1-1.5) **Lab ID: 10521458034** Collected: 06/10/20 12:30 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.021	1	06/14/20 15:42	06/15/20 17:55	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**11.1**	%	0.10	1		06/17/20 10:42		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-19D (0-0.5) **Lab ID: 10521458035** Collected: 06/10/20 12:39 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**2.0**	mg/kg	0.11	5	06/14/20 15:42	06/16/20 15:31	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**18.9**	%	0.10	1		06/17/20 10:42		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-19D (1-1.5) **Lab ID: 10521458036** Collected: 06/10/20 12:40 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.092**	mg/kg	0.022	1	06/14/20 15:42	06/15/20 18:00	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**15.7**	%	0.10	1		06/17/20 10:42		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-19C (0-0.5) **Lab ID: 10521458037** Collected: 06/10/20 12:49 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**3.0**	mg/kg	0.13	5	06/14/20 15:42	06/16/20 15:43	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**28.6**	%	0.10	1		06/17/20 10:42		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-19C (1-1.5) **Lab ID: 10521458038** Collected: 06/10/20 12:50 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.30**	mg/kg	0.024	1	06/14/20 15:42	06/15/20 18:05	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**16.5**	%	0.10	1		06/17/20 10:43		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-19B (0-0.5) **Lab ID: 10521458039** Collected: 06/10/20 12:59 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**3.1**	mg/kg	0.14	5	06/14/20 15:42	06/16/20 15:45	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**30.7**	%	0.10	1		06/17/20 10:43		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-19B (1-1.5) **Lab ID: 10521458040** Collected: 06/10/20 13:00 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.65**	mg/kg	0.023	1	06/14/20 15:42	06/15/20 18:10	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**17.4**	%	0.10	1		06/17/20 10:43		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-19 (0-0.5) **Lab ID: 10521458041** Collected: 06/10/20 13:04 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**1.1**	mg/kg	0.027	1	06/15/20 11:17	06/15/20 21:23	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**24.7**	%	0.10	1		06/17/20 10:43		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-19 (1-1.5) **Lab ID: 10521458042** Collected: 06/10/20 13:05 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.12**	mg/kg	0.024	1	06/15/20 11:17	06/15/20 21:30	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**19.5**	%	0.10	1		06/17/20 11:09		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-44 (0-0.5) **Lab ID: 10521458043** Collected: 06/10/20 13:24 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**11.7**	mg/kg	0.44	20	06/15/20 11:17	06/16/20 17:21	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**19.9**	%	0.10	1		06/17/20 11:09		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-44 (1-1.5) **Lab ID: 10521458044** Collected: 06/10/20 13:25 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.13**	mg/kg	0.023	1	06/15/20 11:17	06/15/20 21:38	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**15.3**	%	0.10	1		06/17/20 11:09		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-31 (0-0.5) **Lab ID: 10521458045** Collected: 06/10/20 13:34 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**1.4**	mg/kg	0.044	2	06/15/20 11:17	06/16/20 16:55	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**12.3**	%	0.10	1		06/17/20 11:09		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-31 (1-1.5) **Lab ID: 10521458046** Collected: 06/10/20 13:35 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**1.6**	mg/kg	0.051	2	06/15/20 11:17	06/16/20 16:57	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**22.1**	%	0.10	1		06/17/20 11:10		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-17J (0-0.5) **Lab ID: 10521458047** Collected: 06/10/20 13:44 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**3.8**	mg/kg	0.13	5	06/15/20 11:17	06/16/20 17:00	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**23.4**	%	0.10	1		06/17/20 11:10		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-17J (1-1.5) **Lab ID: 10521458048** Collected: 06/10/20 13:45 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.16**	mg/kg	0.023	1	06/15/20 11:17	06/15/20 21:54	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**15.6**	%	0.10	1		06/17/20 11:10		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-17I (0-0.5) **Lab ID: 10521458049** Collected: 06/10/20 13:50 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**3.3**	mg/kg	0.13	5	06/15/20 11:17	06/16/20 17:08	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**25.5**	%	0.10	1		06/17/20 11:10		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-17I (1-1.5) **Lab ID: 10521458050** Collected: 06/10/20 13:51 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.56**	mg/kg	0.023	1	06/15/20 11:17	06/15/20 21:59	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**16.7**	%	0.10	1		06/17/20 11:10		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-17H (0-0.5) **Lab ID: 10521458051** Collected: 06/10/20 13:59 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**1.0**	mg/kg	0.025	1	06/15/20 11:17	06/15/20 22:02	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**21.4**	%	0.10	1		06/17/20 11:10		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-17H (1-1.5) **Lab ID: 10521458052** Collected: 06/10/20 14:00 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.12**	mg/kg	0.023	1	06/15/20 11:17	06/15/20 22:04	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**12.6**	%	0.10	1		06/17/20 11:10		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-17G (0-0.5) **Lab ID: 10521458053** Collected: 06/10/20 14:09 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**16.5**	mg/kg	0.48	20	06/15/20 11:17	06/16/20 17:11	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**21.1**	%	0.10	1		06/17/20 11:11		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-17G (1-1.5) **Lab ID: 10521458054** Collected: 06/10/20 14:10 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.21**	mg/kg	0.022	1	06/15/20 11:17	06/15/20 22:17	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**11.0**	%	0.10	1		06/17/20 11:11		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: Dup-9-06102020 **Lab ID: 10521458055** Collected: 06/10/20 12:03 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.12**	mg/kg	0.023	1	06/15/20 11:17	06/15/20 22:20	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**12.4**	%	0.10	1		06/17/20 11:11		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-17F (0-0.5) **Lab ID: 10521458056** Collected: 06/10/20 14:14 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.16**	mg/kg	0.025	1	06/15/20 11:17	06/15/20 22:22	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**23.3**	%	0.10	1		06/17/20 11:11		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-17F (1-1.5) **Lab ID: 10521458057** Collected: 06/10/20 14:15 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.023	1	06/15/20 11:17	06/15/20 22:25	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**14.5**	%	0.10	1		06/17/20 11:11		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-17E (0-0.5) **Lab ID: 10521458058** Collected: 06/10/20 14:32 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**2.4**	mg/kg	0.13	5	06/15/20 11:17	06/16/20 17:13	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**24.7**	%	0.10	1		06/17/20 11:12		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-17E (1-1.5) **Lab ID: 10521458059** Collected: 06/10/20 14:34 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.022**	mg/kg	0.022	1	06/15/20 11:17	06/15/20 22:29	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**12.6**	%	0.10	1		06/17/20 11:12		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-17D (0-0.5) **Lab ID: 10521458060** Collected: 06/10/20 14:40 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.39**	mg/kg	0.026	1	06/15/20 11:17	06/15/20 22:32	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**29.2**	%	0.10	1		06/17/20 11:12		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-17D (1-1.5) **Lab ID: 10521458061** Collected: 06/10/20 14:42 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.028**	mg/kg	0.023	1	06/15/20 11:16	06/15/20 19:58	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**16.8**	%	0.10	1		06/17/20 11:12		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-17C (0-0.5) **Lab ID: 10521458062** Collected: 06/10/20 14:46 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.088**	mg/kg	0.024	1	06/15/20 11:16	06/15/20 20:06	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**20.3**	%	0.10	1		06/17/20 11:47		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-17C (1-1.5) **Lab ID: 10521458063** Collected: 06/10/20 14:48 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.041**	mg/kg	0.021	1	06/15/20 11:16	06/15/20 20:08	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**12.4**	%	0.10	1		06/17/20 11:47		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-17B (0-0.5) **Lab ID: 10521458064** Collected: 06/10/20 14:54 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.050**	mg/kg	0.022	1	06/15/20 11:16	06/15/20 20:10	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**7.3**	%	0.10	1		06/17/20 11:47		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-17B (1-1.5) **Lab ID: 10521458065** Collected: 06/10/20 14:56 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.023**	mg/kg	0.022	1	06/15/20 11:16	06/15/20 20:18	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**20.2**	%	0.10	1		06/17/20 11:48		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-17 (0-0.5) **Lab ID: 10521458066** Collected: 06/10/20 15:01 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.65**	mg/kg	0.024	1	06/15/20 11:16	06/15/20 20:20	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**20.7**	%	0.10	1		06/17/20 11:48		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-17 (1-1.5) **Lab ID: 10521458067** Collected: 06/10/20 15:03 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**10.0**	mg/kg	0.24	10	06/15/20 11:16	06/16/20 16:17	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**18.3**	%	0.10	1		06/17/20 11:48		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-34 (0-0.5) **Lab ID: 10521458068** Collected: 06/10/20 15:08 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**3.1**	mg/kg	0.11	5	06/15/20 11:16	06/16/20 16:19	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**11.3**	%	0.10	1		06/17/20 11:48		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-34 (1-1.5) **Lab ID: 10521458069** Collected: 06/10/20 15:10 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.15**	mg/kg	0.024	1	06/15/20 11:16	06/15/20 20:32	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**17.3**	%	0.10	1		06/17/20 11:48		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-30 (0-0.5) **Lab ID: 10521458070** Collected: 06/10/20 15:24 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**1.3**	mg/kg	0.045	2	06/15/20 11:16	06/16/20 16:40	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**11.4**	%	0.10	1		06/17/20 11:48		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-30 (1-1.5) **Lab ID: 10521458071** Collected: 06/10/20 15:26 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.032**	mg/kg	0.024	1	06/15/20 11:16	06/15/20 20:37	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**17.7**	%	0.10	1		06/17/20 11:48		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-42 (0-0.5) **Lab ID: 10521458072** Collected: 06/10/20 15:39 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.11**	mg/kg	0.023	1	06/15/20 11:16	06/15/20 20:39	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**16.1**	%	0.10	1		06/17/20 11:49		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-42 (1-1.5) **Lab ID: 10521458073** Collected: 06/10/20 15:41 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**7.2**	mg/kg	0.21	10	06/15/20 11:16	06/16/20 16:42	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**15.2**	%	0.10	1		06/17/20 11:49		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-51 (0-0.5) **Lab ID: 10521458074** Collected: 06/10/20 15:44 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**2.8**	mg/kg	0.13	5	06/15/20 11:16	06/16/20 16:45	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**25.1**	%	0.10	1		06/17/20 11:49		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-51 (1-1.5) **Lab ID: 10521458075** Collected: 06/10/20 15:45 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.21**	mg/kg	0.022	1	06/15/20 11:16	06/15/20 20:54	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**17.9**	%	0.10	1		06/17/20 11:49		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-45 (0-0.5) **Lab ID: 10521458076** Collected: 06/10/20 15:57 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.069**	mg/kg	0.023	1	06/15/20 11:16	06/15/20 20:56	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**20.0**	%	0.10	1		06/17/20 11:49		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-45 (1-1.5) **Lab ID: 10521458077** Collected: 06/10/20 15:59 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.028**	mg/kg	0.020	1	06/15/20 11:16	06/15/20 20:59	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**9.7**	%	0.10	1		06/17/20 11:50		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-39 (0-0.5) **Lab ID: 10521458078** Collected: 06/10/20 16:08 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**4.4**	mg/kg	0.25	10	06/15/20 11:16	06/16/20 16:47	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**19.5**	%	0.10	1		06/17/20 11:50		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-39 (1-1.5) **Lab ID: 10521458079** Collected: 06/10/20 16:10 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.023	1	06/15/20 11:16	06/15/20 21:05	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**12.7**	%	0.10	1		06/17/20 11:50		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-26 (0-0.5) **Lab ID: 10521458080** Collected: 06/10/20 16:19 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**1.7**	mg/kg	0.10	5	06/15/20 11:16	06/16/20 16:50	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**11.6**	%	0.10	1		06/17/20 11:50		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-26 (1-1.5) **Lab ID: 10521458081** Collected: 06/10/20 16:20 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.64**	mg/kg	0.024	1	06/16/20 12:21	06/17/20 16:10	7439-97-6	M1
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**16.4**	%	0.10	1		06/17/20 11:51		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-21F (0-0.5) **Lab ID: 10521458082** Collected: 06/11/20 09:20 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.82**	mg/kg	0.024	1	06/16/20 12:21	06/17/20 16:18	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**16.4**	%	0.10	1		06/17/20 12:25		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-21F (1-1.5) **Lab ID: 10521458083** Collected: 06/11/20 09:21 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.25**	mg/kg	0.022	1	06/16/20 12:21	06/17/20 16:20	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**15.0**	%	0.10	1		06/17/20 12:25		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-21G (0-0.5) **Lab ID: 10521458084** Collected: 06/11/20 09:32 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.56**	mg/kg	0.026	1	06/16/20 12:21	06/17/20 16:23	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**24.2**	%	0.10	1		06/17/20 12:25		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-21G (1-1.5) **Lab ID: 10521458085** Collected: 06/11/20 09:33 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.051**	mg/kg	0.021	1	06/16/20 12:21	06/17/20 16:30	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**14.6**	%	0.10	1		06/17/20 12:25		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-21E (0-0.5) **Lab ID: 10521458086** Collected: 06/11/20 09:49 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.047**	mg/kg	0.023	1	06/16/20 12:21	06/17/20 16:33	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**16.9**	%	0.10	1		06/17/20 12:25		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-21E (1-1.5) **Lab ID: 10521458087** Collected: 06/11/20 09:50 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.022	1	06/16/20 12:21	06/17/20 16:35	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**15.0**	%	0.10	1		06/17/20 12:25		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-21C (0-0.5) **Lab ID: 10521458088** Collected: 06/11/20 10:00 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.60**	mg/kg	0.025	1	06/16/20 12:21	06/17/20 16:37	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**27.1**	%	0.10	1		06/17/20 12:26		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-21C (1-1.5) **Lab ID: 10521458089** Collected: 06/11/20 10:01 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.062**	mg/kg	0.022	1	06/16/20 12:21	06/17/20 16:40	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**19.1**	%	0.10	1		06/17/20 12:26		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-21D (0-0.5) **Lab ID: 10521458090** Collected: 06/11/20 10:17 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.53**	mg/kg	0.024	1	06/16/20 12:21	06/17/20 16:42	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**17.7**	%	0.10	1		06/17/20 12:26		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-21D (1-1.5) **Lab ID: 10521458091** Collected: 06/11/20 10:18 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.19**	mg/kg	0.022	1	06/16/20 12:21	06/17/20 16:45	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**12.9**	%	0.10	1		06/17/20 12:26		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: Dup-10-06112020 **Lab ID: 10521458092** Collected: 06/11/20 12:00 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.54**	mg/kg	0.024	1	06/16/20 12:21	06/17/20 16:47	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**17.4**	%	0.10	1		06/17/20 12:26		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-21B (0-0.5) **Lab ID: 10521458093** Collected: 06/11/20 10:29 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.10**	mg/kg	0.023	1	06/16/20 12:21	06/17/20 17:03	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**24.8**	%	0.10	1		06/17/20 12:27		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-21B (1-1.5) **Lab ID: 10521458094** Collected: 06/11/20 10:30 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.023	1	06/16/20 12:21	06/17/20 17:05	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**15.8**	%	0.10	1		06/17/20 12:27		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-21 (0-0.5) **Lab ID: 10521458095** Collected: 06/11/20 10:59 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**4.5**	mg/kg	0.15	5	06/16/20 12:21	06/18/20 12:04	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**33.4**	%	0.10	1		06/17/20 12:27		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-21 (1-1.5) **Lab ID: 10521458096** Collected: 06/11/20 11:00 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.031**	mg/kg	0.023	1	06/16/20 12:21	06/17/20 17:11	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**18.1**	%	0.10	1		06/17/20 12:27		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-33 (0-0.5) **Lab ID: 10521458097** Collected: 06/11/20 11:52 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**73.0**	mg/kg	4.4	200	06/16/20 12:21	06/18/20 12:58	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**13.9**	%	0.10	1		06/17/20 12:27		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-33 (1-1.5) **Lab ID: 10521458098** Collected: 06/11/20 11:53 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.085**	mg/kg	0.022	1	06/16/20 12:21	06/17/20 17:24	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**14.6**	%	0.10	1		06/17/20 12:28		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-4B (0-0.5) **Lab ID: 10521458099** Collected: 06/11/20 12:05 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**46.0**	mg/kg	1.1	50	06/16/20 12:21	06/18/20 18:10	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**14.7**	%	0.10	1		06/17/20 12:28		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-4B (1-1.5) **Lab ID: 10521458100** Collected: 06/11/20 12:06 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.27**	mg/kg	0.024	1	06/16/20 12:21	06/17/20 17:32	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**16.6**	%	0.10	1		06/17/20 12:28		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-4C (0-0.5) **Lab ID: 10521458101** Collected: 06/11/20 12:16 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**2.5**	mg/kg	0.13	5	06/16/20 12:22	06/18/20 11:37	7439-97-6	M1
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**29.2**	%	0.10	1		06/17/20 12:28		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-4C (1-1.5) **Lab ID: 10521458102** Collected: 06/11/20 12:17 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.24**	mg/kg	0.023	1	06/16/20 12:22	06/17/20 14:54	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**18.9**	%	0.10	1		06/17/20 14:15		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: Dup-11-06112020 **Lab ID: 10521458103** Collected: 06/11/20 12:01 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**2.1**	mg/kg	0.053	2	06/16/20 12:22	06/18/20 11:50	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**28.6**	%	0.10	1		06/17/20 14:15		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-4D (0-0.5) **Lab ID: 10521458104** Collected: 06/11/20 12:27 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**3.6**	mg/kg	0.12	5	06/16/20 12:22	06/18/20 11:52	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**29.0**	%	0.10	1		06/17/20 14:15		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-4D (1-1.5) **Lab ID: 10521458105** Collected: 06/11/20 12:28 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.046**	mg/kg	0.024	1	06/16/20 12:22	06/17/20 15:08	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**20.5**	%	0.10	1		06/17/20 14:15		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-4E (0-0.5) **Lab ID: 10521458106** Collected: 06/11/20 12:41 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**3.4**	mg/kg	0.13	5	06/16/20 12:22	06/18/20 11:55	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**22.7**	%	0.10	1		06/17/20 14:16		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-4E (1-1.5) **Lab ID: 10521458107** Collected: 06/11/20 12:42 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.12**	mg/kg	0.024	1	06/16/20 12:22	06/17/20 15:15	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**17.7**	%	0.10	1		06/17/20 14:16		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-4F (0-0.5) **Lab ID: 10521458108** Collected: 06/11/20 12:52 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.13**	mg/kg	0.023	1	06/16/20 12:22	06/17/20 15:17	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**24.8**	%	0.10	1		06/17/20 14:16		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-4F (1-1.5) **Lab ID: 10521458109** Collected: 06/11/20 12:53 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.023	1	06/16/20 12:22	06/17/20 15:19	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**16.2**	%	0.10	1		06/17/20 14:16		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-16D (0-0.5) **Lab ID: 10521458110** Collected: 06/11/20 13:24 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**1.2**	mg/kg	0.048	2	06/16/20 12:22	06/18/20 11:57	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**18.7**	%	0.10	1		06/17/20 14:16		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-16D (1-1.5) **Lab ID: 10521458111** Collected: 06/11/20 13:25 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.13**	mg/kg	0.022	1	06/16/20 12:22	06/17/20 15:24	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**9.5**	%	0.10	1		06/17/20 14:17		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-16C (0-0.5) **Lab ID: 10521458112** Collected: 06/11/20 13:34 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**1.2**	mg/kg	0.049	2	06/16/20 12:22	06/18/20 11:59	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**20.4**	%	0.10	1		06/17/20 14:17		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-16C (1-1.5) **Lab ID: 10521458113** Collected: 06/11/20 13:35 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.023	1	06/16/20 12:22	06/17/20 15:37	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**11.7**	%	0.10	1		06/17/20 14:17		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-16B (0-0.5) **Lab ID: 10521458114** Collected: 06/11/20 13:44 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**1.1**	mg/kg	0.025	1	06/16/20 12:22	06/17/20 15:39	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**22.4**	%	0.10	1		06/17/20 14:17		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-16B (1-1.5) **Lab ID: 10521458115** Collected: 06/11/20 13:45 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.20**	mg/kg	0.023	1	06/16/20 12:22	06/17/20 15:42	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**12.2**	%	0.10	1		06/17/20 14:17		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-5L (0-0.5) **Lab ID: 10521458116** Collected: 06/11/20 14:07 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.16**	mg/kg	0.023	1	06/16/20 12:22	06/17/20 15:44	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**11.3**	%	0.10	1		06/17/20 14:17		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-5L (1-1.5) **Lab ID: 10521458117** Collected: 06/11/20 14:08 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.022	1	06/16/20 12:22	06/17/20 15:47	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**10.2**	%	0.10	1		06/17/20 14:18		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-27 (0-0.5) **Lab ID: 10521458118** Collected: 06/11/20 14:15 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**3.0**	mg/kg	0.11	5	06/16/20 12:22	06/18/20 12:02	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**14.2**	%	0.10	1		06/17/20 14:18		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-27 (1-1.5) **Lab ID: 10521458119** Collected: 06/11/20 14:16 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.18**	mg/kg	0.023	1	06/16/20 12:22	06/17/20 15:53	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**19.9**	%	0.10	1		06/17/20 14:18		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-40 (0-0.5) **Lab ID: 10521458120** Collected: 06/11/20 14:29 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.40**	mg/kg	0.023	1	06/16/20 12:22	06/17/20 15:56	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**19.1**	%	0.10	1		06/17/20 14:18		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-40 (1-1.5) **Lab ID: 10521458121** Collected: 06/11/20 14:30 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.036**	mg/kg	0.022	1	06/16/20 13:35	06/17/20 08:25	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**14.3**	%	0.10	1		06/17/20 14:18		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-37 (0-0.5) **Lab ID: 10521458122** Collected: 06/11/20 14:50 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**2.0**	mg/kg	0.11	5	06/16/20 13:35	06/18/20 11:14	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**11.5**	%	0.10	1		06/17/20 14:49		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-37 (1-1.5) **Lab ID: 10521458123** Collected: 06/11/20 14:51 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.089**	mg/kg	0.022	1	06/16/20 13:35	06/17/20 08:35	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**15.8**	%	0.10	1		06/17/20 14:49		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-5F (0-0.5) **Lab ID: 10521458124** Collected: 06/12/20 08:43 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**1.9**	mg/kg	0.11	5	06/16/20 13:35	06/18/20 11:16	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**17.8**	%	0.10	1		06/17/20 14:50		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-5F (1-1.5) **Lab ID: 10521458125** Collected: 06/12/20 08:45 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.019	1	06/16/20 13:35	06/17/20 08:44	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**6.6**	%	0.10	1		06/17/20 14:50		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: Dup-13-06122020 **Lab ID: 10521458126** Collected: 06/12/20 12:00 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**2.0**	mg/kg	0.11	5	06/16/20 13:35	06/18/20 11:19	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**17.2**	%	0.10	1		06/17/20 14:50		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-5G (0-0.5) **Lab ID: 10521458127** Collected: 06/12/20 08:56 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**33.5**	mg/kg	0.99	50	06/16/20 13:35	06/18/20 12:56	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**5.6**	%	0.10	1		06/17/20 14:50		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-5G (1-1.5) **Lab ID: 10521458128** Collected: 06/12/20 08:58 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.066**	mg/kg	0.022	1	06/16/20 13:35	06/17/20 08:52	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**10.5**	%	0.10	1		06/17/20 14:50		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-5H (0-0.5) **Lab ID: 10521458129** Collected: 06/12/20 09:01 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.021	1	06/16/20 13:35	06/17/20 08:55	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**7.4**	%	0.10	1		06/17/20 14:51		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-5H (1-1.5) **Lab ID: 10521458130** Collected: 06/12/20 09:03 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.025**	mg/kg	0.019	1	06/16/20 13:35	06/17/20 08:57	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**8.0**	%	0.10	1		06/17/20 14:51		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-5D (0-0.5) **Lab ID: 10521458131** Collected: 06/12/20 09:06 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**5.6**	mg/kg	0.23	10	06/16/20 13:35	06/18/20 11:25	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**21.9**	%	0.10	1		06/17/20 14:51		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-5D (1-1.5) **Lab ID: 10521458132** Collected: 06/12/20 09:09 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.035**	mg/kg	0.022	1	06/16/20 13:35	06/17/20 09:03	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**10.9**	%	0.10	1		06/17/20 14:51		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-5E (0-0.5) **Lab ID: 10521458133** Collected: 06/12/20 09:15 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**2.3**	mg/kg	0.11	5	06/16/20 13:35	06/18/20 11:28	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**18.6**	%	0.10	1		06/17/20 14:51		N2

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-5E (1-1.5) **Lab ID: 10521458134** Collected: 06/12/20 09:17 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.053**	mg/kg	0.020	1	06/16/20 13:35	06/17/20 09:12	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**10.3**	%	0.10	1		06/17/20 14:51		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-5I (0-0.5) **Lab ID: 10521458135** Collected: 06/12/20 09:24 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**1.3**	mg/kg	0.047	2	06/16/20 13:35	06/18/20 11:30	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**22.7**	%	0.10	1		06/17/20 14:52		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-5I (1-1.5) **Lab ID: 10521458136** Collected: 06/12/20 09:26 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.11**	mg/kg	0.021	1	06/16/20 13:35	06/17/20 09:17	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**9.8**	%	0.10	1		06/17/20 14:52		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-5J (0-0.5) **Lab ID: 10521458137** Collected: 06/12/20 09:30 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**5.5**	mg/kg	0.22	10	06/16/20 13:35	06/18/20 11:32	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**16.6**	%	0.10	1		06/17/20 14:52		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-5J (1-1.5) **Lab ID: 10521458138** Collected: 06/12/20 09:32 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**2.8**	mg/kg	0.10	5	06/16/20 13:35	06/18/20 11:35	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**15.9**	%	0.10	1		06/17/20 14:52		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-5M (0-0.5) **Lab ID: 10521458139** Collected: 06/12/20 09:38 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.13**	mg/kg	0.022	1	06/16/20 13:35	06/17/20 09:26	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**16.1**	%	0.10	1		06/17/20 14:52		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-5M (1-1.5) **Lab ID: 10521458140** Collected: 06/12/20 09:40 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.30**	mg/kg	0.026	1	06/16/20 13:35	06/17/20 09:29	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**25.5**	%	0.10	1		06/17/20 14:52		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-5K (0-0.5) **Lab ID: 10521458141** Collected: 06/12/20 09:45 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.055**	mg/kg	0.025	1	06/16/20 13:35	06/17/20 13:42	7439-97-6	M1
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**21.6**	%	0.10	1		06/17/20 14:52		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-5K (1-1.5) **Lab ID: 10521458142** Collected: 06/12/20 09:47 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.24**	mg/kg	0.023	1	06/16/20 13:35	06/17/20 13:49	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**22.5**	%	0.10	1		06/17/20 15:29		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: Dup-14-06122020 **Lab ID: 10521458143** Collected: 06/12/20 12:01 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.053**	mg/kg	0.023	1	06/16/20 13:35	06/17/20 13:52	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**22.7**	%	0.10	1		06/17/20 15:29		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-24D (0-0.5) **Lab ID: 10521458144** Collected: 06/12/20 10:16 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.022	1	06/16/20 13:35	06/17/20 13:54	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**12.0**	%	0.10	1		06/17/20 15:29		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-24D (1-1.5) **Lab ID: 10521458145** Collected: 06/12/20 10:17 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.020	1	06/16/20 13:35	06/17/20 13:57	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**10.5**	%	0.10	1		06/17/20 15:30		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-24 (0-0.5) **Lab ID: 10521458146** Collected: 06/12/20 10:24 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.023**	mg/kg	0.022	1	06/16/20 13:35	06/17/20 13:59	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**13.8**	%	0.10	1		06/17/20 15:30		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-24 (1-1.5) **Lab ID: 10521458147** Collected: 06/12/20 10:25 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.022	1	06/16/20 13:35	06/17/20 14:06	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**12.1**	%	0.10	1		06/17/20 15:30		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-24E (0-0.5) **Lab ID: 10521458148** Collected: 06/12/20 10:34 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.25**	mg/kg	0.023	1	06/16/20 13:35	06/17/20 14:09	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**16.7**	%	0.10	1		06/17/20 15:30		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-24E (1-1.5) **Lab ID: 10521458149** Collected: 06/12/20 10:35 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.021	1	06/16/20 13:35	06/17/20 14:11	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**9.4**	%	0.10	1		06/17/20 15:30		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-24F (0-0.5) **Lab ID: 10521458150** Collected: 06/12/20 10:45 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.024**	mg/kg	0.022	1	06/16/20 13:35	06/17/20 14:14	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**15.8**	%	0.10	1		06/17/20 15:31		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-24F (1-1.5) **Lab ID: 10521458151** Collected: 06/12/20 10:46 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.021	1	06/16/20 13:35	06/17/20 14:16	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**10.3**	%	0.10	1		06/17/20 15:31		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: Dup-15-06122020 **Lab ID: 10521458152** Collected: 06/12/20 12:02 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.023	1	06/16/20 13:35	06/17/20 14:19	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**15.9**	%	0.10	1		06/17/20 15:31		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-24C (0-0.5) **Lab ID: 10521458153** Collected: 06/12/20 10:59 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.033**	mg/kg	0.025	1	06/16/20 13:35	06/17/20 14:21	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**26.6**	%	0.10	1		06/17/20 15:31		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-24C (1-1.5) **Lab ID: 10521458154** Collected: 06/12/20 11:00 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.020	1	06/16/20 13:35	06/17/20 14:23	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**9.9**	%	0.10	1		06/17/20 15:31		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-24B (0-0.5) **Lab ID: 10521458155** Collected: 06/12/20 11:14 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.021	1	06/16/20 13:35	06/17/20 14:26	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**6.1**	%	0.10	1		06/17/20 15:31		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: SS-24B (1-1.5) **Lab ID: 10521458156** Collected: 06/12/20 11:15 Received: 06/12/20 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.021	1	06/16/20 13:35	06/17/20 14:28	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**8.9**	%	0.10	1		06/17/20 15:32		N2

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Sample: Equipment Blank (HA) **Lab ID: 10521458158** Collected: 06/12/20 09:30 Received: 06/12/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470A Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Minneapolis							
Mercury	ND	ug/L	0.20	1	06/17/20 12:06	06/18/20 14:38	7439-97-6	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

QC Batch: 681650
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470A Mercury Water
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10521458158

METHOD BLANK: 3647658 Matrix: Water
Associated Lab Samples: 10521458158

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	06/18/20 14:33	

LABORATORY CONTROL SAMPLE: 3647659

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.5	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3647660 3647661

Parameter	Units	10521738001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.075	5	5	5.6	5.5	112	110	80-120	2	20	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

QC Batch: 681010
QC Batch Method: EPA 7471B
Analysis Method: EPA 7471B
Analysis Description: 7471B Mercury Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10521458001, 10521458002, 10521458003, 10521458004, 10521458005, 10521458006, 10521458007, 10521458008, 10521458009, 10521458010, 10521458011, 10521458012, 10521458013, 10521458014, 10521458015, 10521458016, 10521458017, 10521458018, 10521458019, 10521458020

METHOD BLANK: 3644594 Matrix: Solid
Associated Lab Samples: 10521458001, 10521458002, 10521458003, 10521458004, 10521458005, 10521458006, 10521458007, 10521458008, 10521458009, 10521458010, 10521458011, 10521458012, 10521458013, 10521458014, 10521458015, 10521458016, 10521458017, 10521458018, 10521458019, 10521458020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.018	06/15/20 18:20	

LABORATORY CONTROL SAMPLE: 3644595

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.44	0.45	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3644596 3644597

Parameter	Units	10521458001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	44.1	0.59	0.56	15.7	25.3	-4780	-3370	80-120	47	20	M6,R1

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

QC Batch: 681011
QC Batch Method: EPA 7471B
Analysis Method: EPA 7471B
Analysis Description: 7471B Mercury Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10521458021, 10521458022, 10521458023, 10521458024, 10521458025, 10521458026, 10521458027, 10521458028, 10521458029, 10521458030, 10521458031, 10521458032, 10521458033, 10521458034, 10521458035, 10521458036, 10521458037, 10521458038, 10521458039, 10521458040

METHOD BLANK: 3644598 Matrix: Solid
Associated Lab Samples: 10521458021, 10521458022, 10521458023, 10521458024, 10521458025, 10521458026, 10521458027, 10521458028, 10521458029, 10521458030, 10521458031, 10521458032, 10521458033, 10521458034, 10521458035, 10521458036, 10521458037, 10521458038, 10521458039, 10521458040

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.019	06/15/20 16:42	

LABORATORY CONTROL SAMPLE: 3644599

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.5	0.51	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3644600 3644601

Parameter	Units	10521458021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	23.4	0.53	0.57	26.8	20.2	640	-560	80-120	28	20	M6,R1

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

QC Batch: 681033
QC Batch Method: EPA 7471B
Analysis Method: EPA 7471B
Analysis Description: 7471B Mercury Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10521458041, 10521458042, 10521458043, 10521458044, 10521458045, 10521458046, 10521458047, 10521458048, 10521458049, 10521458050, 10521458051, 10521458052, 10521458053, 10521458054, 10521458055, 10521458056, 10521458057, 10521458058, 10521458059, 10521458060

METHOD BLANK: 3644640 Matrix: Solid
Associated Lab Samples: 10521458041, 10521458042, 10521458043, 10521458044, 10521458045, 10521458046, 10521458047, 10521458048, 10521458049, 10521458050, 10521458051, 10521458052, 10521458053, 10521458054, 10521458055, 10521458056, 10521458057, 10521458058, 10521458059, 10521458060

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.019	06/15/20 21:18	

LABORATORY CONTROL SAMPLE: 3644641

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.5	0.52	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3644642 3644643

Parameter	Units	10521458041 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	1.1	0.62	0.64	1.7	1.8	98	103	80-120	3	20	E

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

QC Batch: 681034
QC Batch Method: EPA 7471B
Analysis Method: EPA 7471B
Analysis Description: 7471B Mercury Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10521458061, 10521458062, 10521458063, 10521458064, 10521458065, 10521458066, 10521458067, 10521458068, 10521458069, 10521458070, 10521458071, 10521458072, 10521458073, 10521458074, 10521458075, 10521458076, 10521458077, 10521458078, 10521458079, 10521458080

METHOD BLANK: 3644644 Matrix: Solid
Associated Lab Samples: 10521458061, 10521458062, 10521458063, 10521458064, 10521458065, 10521458066, 10521458067, 10521458068, 10521458069, 10521458070, 10521458071, 10521458072, 10521458073, 10521458074, 10521458075, 10521458076, 10521458077, 10521458078, 10521458079, 10521458080

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.019	06/15/20 19:53	

LABORATORY CONTROL SAMPLE: 3644645

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.45	0.47	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3644646 3644647

Parameter	Units	10521458061 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.028	0.54	0.6	0.59	0.69	103	110	80-120	15	20	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

QC Batch: 681144
QC Batch Method: EPA 7471B
Analysis Method: EPA 7471B
Analysis Description: 7471B Mercury Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10521458081, 10521458082, 10521458083, 10521458084, 10521458085, 10521458086, 10521458087, 10521458088, 10521458089, 10521458090, 10521458091, 10521458092, 10521458093, 10521458094, 10521458095, 10521458096, 10521458097, 10521458098, 10521458099, 10521458100

METHOD BLANK: 3644995
Matrix: Solid
Associated Lab Samples: 10521458081, 10521458082, 10521458083, 10521458084, 10521458085, 10521458086, 10521458087, 10521458088, 10521458089, 10521458090, 10521458091, 10521458092, 10521458093, 10521458094, 10521458095, 10521458096, 10521458097, 10521458098, 10521458099, 10521458100

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.019	06/17/20 16:06	

LABORATORY CONTROL SAMPLE: 3644996

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.45	0.48	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3644997 3644998

Parameter	Units	10521458081 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.64	0.56	0.57	0.89	0.77	45	21	80-120	15	20	M1

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

QC Batch: 681205
QC Batch Method: EPA 7471B
Analysis Method: EPA 7471B
Analysis Description: 7471B Mercury Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10521458101, 10521458102, 10521458103, 10521458104, 10521458105, 10521458106, 10521458107, 10521458108, 10521458109, 10521458110, 10521458111, 10521458112, 10521458113, 10521458114, 10521458115, 10521458116, 10521458117, 10521458118, 10521458119, 10521458120

METHOD BLANK: 3645342
Matrix: Solid
Associated Lab Samples: 10521458101, 10521458102, 10521458103, 10521458104, 10521458105, 10521458106, 10521458107, 10521458108, 10521458109, 10521458110, 10521458111, 10521458112, 10521458113, 10521458114, 10521458115, 10521458116, 10521458117, 10521458118, 10521458119, 10521458120

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.019	06/17/20 14:38	

LABORATORY CONTROL SAMPLE: 3645343

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.45	0.46	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3645344 3645345

Parameter	Units	10521458101 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	2.5	0.62	0.66	3.1	3.4	90	133	80-120	10	20	M1

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

QC Batch: 681206
QC Batch Method: EPA 7471B
Analysis Method: EPA 7471B
Analysis Description: 7471B Mercury Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10521458121, 10521458122, 10521458123, 10521458124, 10521458125, 10521458126, 10521458127, 10521458128, 10521458129, 10521458130, 10521458131, 10521458132, 10521458133, 10521458134, 10521458135, 10521458136, 10521458137, 10521458138, 10521458139, 10521458140

METHOD BLANK: 3645346 Matrix: Solid
Associated Lab Samples: 10521458121, 10521458122, 10521458123, 10521458124, 10521458125, 10521458126, 10521458127, 10521458128, 10521458129, 10521458130, 10521458131, 10521458132, 10521458133, 10521458134, 10521458135, 10521458136, 10521458137, 10521458138, 10521458139, 10521458140

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.019	06/17/20 08:20	

LABORATORY CONTROL SAMPLE: 3645347

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.47	0.50	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3645348 3645349

Parameter	Units	10521458121 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.036	0.58	0.56	0.68	0.63	111	106	80-120	8	20	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

QC Batch: 681207
QC Batch Method: EPA 7471B
Analysis Method: EPA 7471B
Analysis Description: 7471B Mercury Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10521458141, 10521458142, 10521458143, 10521458144, 10521458145, 10521458146, 10521458147, 10521458148, 10521458149, 10521458150, 10521458151, 10521458152, 10521458153, 10521458154, 10521458155, 10521458156

METHOD BLANK: 3645350 Matrix: Solid
Associated Lab Samples: 10521458141, 10521458142, 10521458143, 10521458144, 10521458145, 10521458146, 10521458147, 10521458148, 10521458149, 10521458150, 10521458151, 10521458152, 10521458153, 10521458154, 10521458155, 10521458156

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.018	06/17/20 13:37	

LABORATORY CONTROL SAMPLE: 3645351

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.48	0.51	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3645352 3645353

Parameter	Units	10521458141 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.055	0.61	0.57	0.71	0.50	106	77	80-120	35	20	M1

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

QC Batch: 681350
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10521458001, 10521458002

SAMPLE DUPLICATE: 3645943

Parameter	Units	10521189003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.1	20.0	0	30	N2

SAMPLE DUPLICATE: 3646906

Parameter	Units	10521458001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	15.8	15.6	1	30	N2

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

QC Batch: 681521
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10521458003, 10521458004, 10521458005, 10521458006, 10521458007, 10521458008, 10521458009, 10521458010, 10521458011, 10521458012, 10521458013, 10521458014, 10521458015, 10521458016, 10521458017, 10521458018, 10521458019, 10521458020, 10521458021

SAMPLE DUPLICATE: 3646924

Parameter	Units	10521458021 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	15.2	14.9	2	30	N2

SAMPLE DUPLICATE: 3646937

Parameter	Units	10521458003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.7	7.6	1	30	N2

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

QC Batch: 681591
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10521458022, 10521458023, 10521458024, 10521458025, 10521458026, 10521458027, 10521458028, 10521458029, 10521458030, 10521458031, 10521458032, 10521458033, 10521458034, 10521458035, 10521458036, 10521458037, 10521458038, 10521458039, 10521458040, 10521458041

SAMPLE DUPLICATE: 3647470

Parameter	Units	10521458041 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	24.7	24.7	0	30	N2

SAMPLE DUPLICATE: 3647491

Parameter	Units	10521458024 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.1	20.8	3	30	N2

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

QC Batch: 681594
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10521458042, 10521458043, 10521458044, 10521458045, 10521458046, 10521458047, 10521458048, 10521458049, 10521458050, 10521458051, 10521458052, 10521458053, 10521458054, 10521458055, 10521458056, 10521458057, 10521458058, 10521458059, 10521458060, 10521458061

SAMPLE DUPLICATE: 3647480

Parameter	Units	10521458042 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	19.5	19.1	2	30	N2

SAMPLE DUPLICATE: 3647481

Parameter	Units	10521458061 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.8	17.5	4	30	N2

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

QC Batch: 681600
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10521458062, 10521458063, 10521458064, 10521458065, 10521458066, 10521458067, 10521458068, 10521458069, 10521458070, 10521458071, 10521458072, 10521458073, 10521458074, 10521458075, 10521458076, 10521458077, 10521458078, 10521458079, 10521458080, 10521458081

SAMPLE DUPLICATE: 3647497

Parameter	Units	10521458062 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.3	20.4	0	30	N2

SAMPLE DUPLICATE: 3648038

Parameter	Units	10521458080 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	11.6	11.8	2	30	N2

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REPORT OF LABORATORY ANALYSIS

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(612)607-1700

QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

QC Batch: 681618
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10521458082, 10521458083, 10521458084, 10521458085, 10521458086, 10521458087, 10521458088, 10521458089, 10521458090, 10521458091, 10521458092, 10521458093, 10521458094, 10521458095, 10521458096, 10521458097, 10521458098, 10521458099, 10521458100, 10521458101

SAMPLE DUPLICATE: 3647552

Parameter	Units	10521458082 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.4	16.2	1	30	N2

SAMPLE DUPLICATE: 3647553

Parameter	Units	10521458101 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	29.2	28.2	3	30	N2

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

QC Batch: 681619
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10521458102, 10521458103, 10521458104, 10521458105, 10521458106, 10521458107, 10521458108, 10521458109, 10521458110, 10521458111, 10521458112, 10521458113, 10521458114, 10521458115, 10521458116, 10521458117, 10521458118, 10521458119, 10521458120, 10521458121

SAMPLE DUPLICATE: 3647555

Parameter	Units	10521458121 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.3	14.1	1	30	N2

SAMPLE DUPLICATE: 3648262

Parameter	Units	10521458110 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	18.7	18.9	1	30	N2

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

QC Batch: 681622
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10521458122, 10521458123, 10521458124, 10521458125, 10521458126, 10521458127, 10521458128, 10521458129, 10521458130, 10521458131, 10521458132, 10521458133, 10521458134, 10521458135, 10521458136, 10521458137, 10521458138, 10521458139, 10521458140, 10521458141

SAMPLE DUPLICATE: 3647564

Parameter	Units	10521458122 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	11.5	12.3	7	30	N2

SAMPLE DUPLICATE: 3647565

Parameter	Units	10521458141 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	21.6	23.4	8	30	N2

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

QC Batch: 681706
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10521458142, 10521458143, 10521458144, 10521458145, 10521458146, 10521458147, 10521458148, 10521458149, 10521458150, 10521458151, 10521458152, 10521458153, 10521458154, 10521458155, 10521458156

SAMPLE DUPLICATE: 3648344

Parameter	Units	10521458145 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	10.5	10.7	2	30	N2

SAMPLE DUPLICATE: 3648357

Parameter	Units	10521458156 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.9	9.6	8	30	N2

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QUALIFIERS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10521458158	**Equipment Blank (HA)**	EPA 7470A	681650	EPA 7470A	681785
10521458001	**SS-23 (0-0.5)**	EPA 7471B	681010	EPA 7471B	681227
10521458002	**SS-23 (1-1.5)**	EPA 7471B	681010	EPA 7471B	681227
10521458003	**SS-23B (0-0.5)**	EPA 7471B	681010	EPA 7471B	681227
10521458004	**SS-23B (1-1.5)**	EPA 7471B	681010	EPA 7471B	681227
10521458005	**SS-23C (0-0.5)**	EPA 7471B	681010	EPA 7471B	681227
10521458006	**SS-23C (1-1.5)**	EPA 7471B	681010	EPA 7471B	681227
10521458007	**SS-23D (0-0.5)**	EPA 7471B	681010	EPA 7471B	681227
10521458008	**SS-23D (1-1.5)**	EPA 7471B	681010	EPA 7471B	681227
10521458009	**SS-23E (0-0.5)**	EPA 7471B	681010	EPA 7471B	681227
10521458010	**SS-23E (1-1.5)**	EPA 7471B	681010	EPA 7471B	681227
10521458011	**SS-23G (0-0.5)**	EPA 7471B	681010	EPA 7471B	681227
10521458012	**SS-23G (1-1.5)**	EPA 7471B	681010	EPA 7471B	681227
10521458013	**SS-23H (0-0.5)**	EPA 7471B	681010	EPA 7471B	681227
10521458014	**SS-23H (1-1.5)**	EPA 7471B	681010	EPA 7471B	681227
10521458015	**SS-23F (0-0.5)**	EPA 7471B	681010	EPA 7471B	681227
10521458016	**SS-23F (1-1.5)**	EPA 7471B	681010	EPA 7471B	681227
10521458017	**SS-23I (0-0.5)**	EPA 7471B	681010	EPA 7471B	681227
10521458018	**SS-23I (1-1.5)**	EPA 7471B	681010	EPA 7471B	681227
10521458019	**SS-23J (0-0.5)**	EPA 7471B	681010	EPA 7471B	681227
10521458020	**SS-23J (1-1.5)**	EPA 7471B	681010	EPA 7471B	681227
10521458021	**SS-35 (0-0.5)**	EPA 7471B	681011	EPA 7471B	681226
10521458022	**SS-35 (1-1.5)**	EPA 7471B	681011	EPA 7471B	681226
10521458023	**Dup-7-06092020**	EPA 7471B	681011	EPA 7471B	681226
10521458024	**SS-46 (0-0.5)**	EPA 7471B	681011	EPA 7471B	681226
10521458025	**SS-46 (1-1.5)**	EPA 7471B	681011	EPA 7471B	681226
10521458026	**SS-47 (0-0.5)**	EPA 7471B	681011	EPA 7471B	681226
10521458027	**SS-47 (1-1.5)**	EPA 7471B	681011	EPA 7471B	681226
10521458028	**SS-23K (0-0.5)**	EPA 7471B	681011	EPA 7471B	681226
10521458029	**SS-23K (1-1.5)**	EPA 7471B	681011	EPA 7471B	681226
10521458030	**SS-19F (0-0.5)**	EPA 7471B	681011	EPA 7471B	681226
10521458031	**SS-19F (1-1.5)**	EPA 7471B	681011	EPA 7471B	681226
10521458032	**Dup-8-06102020**	EPA 7471B	681011	EPA 7471B	681226
10521458033	**SS-19E (0-0.5)**	EPA 7471B	681011	EPA 7471B	681226
10521458034	**SS-19E (1-1.5)**	EPA 7471B	681011	EPA 7471B	681226
10521458035	**SS-19D (0-0.5)**	EPA 7471B	681011	EPA 7471B	681226
10521458036	**SS-19D (1-1.5)**	EPA 7471B	681011	EPA 7471B	681226
10521458037	**SS-19C (0-0.5)**	EPA 7471B	681011	EPA 7471B	681226
10521458038	**SS-19C (1-1.5)**	EPA 7471B	681011	EPA 7471B	681226
10521458039	**SS-19B (0-0.5)**	EPA 7471B	681011	EPA 7471B	681226
10521458040	**SS-19B (1-1.5)**	EPA 7471B	681011	EPA 7471B	681226
10521458041	**SS-19 (0-0.5)**	EPA 7471B	681033	EPA 7471B	681239
10521458042	**SS-19 (1-1.5)**	EPA 7471B	681033	EPA 7471B	681239
10521458043	**SS-44 (0-0.5)**	EPA 7471B	681033	EPA 7471B	681239
10521458044	**SS-44 (1-1.5)**	EPA 7471B	681033	EPA 7471B	681239
10521458045	**SS-31 (0-0.5)**	EPA 7471B	681033	EPA 7471B	681239
10521458046	**SS-31 (1-1.5)**	EPA 7471B	681033	EPA 7471B	681239

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10521458047	**SS-17J (0-0.5)**	EPA 7471B	681033	EPA 7471B	681239
10521458048	**SS-17J (1-1.5)**	EPA 7471B	681033	EPA 7471B	681239
10521458049	**SS-17I (0-0.5)**	EPA 7471B	681033	EPA 7471B	681239
10521458050	**SS-17I (1-1.5)**	EPA 7471B	681033	EPA 7471B	681239
10521458051	**SS-17H (0-0.5)**	EPA 7471B	681033	EPA 7471B	681239
10521458052	**SS-17H (1-1.5)**	EPA 7471B	681033	EPA 7471B	681239
10521458053	**SS-17G (0-0.5)**	EPA 7471B	681033	EPA 7471B	681239
10521458054	**SS-17G (1-1.5)**	EPA 7471B	681033	EPA 7471B	681239
10521458055	**Dup-9-06102020**	EPA 7471B	681033	EPA 7471B	681239
10521458056	**SS-17F (0-0.5)**	EPA 7471B	681033	EPA 7471B	681239
10521458057	**SS-17F (1-1.5)**	EPA 7471B	681033	EPA 7471B	681239
10521458058	**SS-17E (0-0.5)**	EPA 7471B	681033	EPA 7471B	681239
10521458059	**SS-17E (1-1.5)**	EPA 7471B	681033	EPA 7471B	681239
10521458060	**SS-17D (0-0.5)**	EPA 7471B	681033	EPA 7471B	681239
10521458061	**SS-17D (1-1.5)**	EPA 7471B	681034	EPA 7471B	681238
10521458062	**SS-17C (0-0.5)**	EPA 7471B	681034	EPA 7471B	681238
10521458063	**SS-17C (1-1.5)**	EPA 7471B	681034	EPA 7471B	681238
10521458064	**SS-17B (0-0.5)**	EPA 7471B	681034	EPA 7471B	681238
10521458065	**SS-17B (1-1.5)**	EPA 7471B	681034	EPA 7471B	681238
10521458066	**SS-17 (0-0.5)**	EPA 7471B	681034	EPA 7471B	681238
10521458067	**SS-17 (1-1.5)**	EPA 7471B	681034	EPA 7471B	681238
10521458068	**SS-34 (0-0.5)**	EPA 7471B	681034	EPA 7471B	681238
10521458069	**SS-34 (1-1.5)**	EPA 7471B	681034	EPA 7471B	681238
10521458070	**SS-30 (0-0.5)**	EPA 7471B	681034	EPA 7471B	681238
10521458071	**SS-30 (1-1.5)**	EPA 7471B	681034	EPA 7471B	681238
10521458072	**SS-42 (0-0.5)**	EPA 7471B	681034	EPA 7471B	681238
10521458073	**SS-42 (1-1.5)**	EPA 7471B	681034	EPA 7471B	681238
10521458074	**SS-51 (0-0.5)**	EPA 7471B	681034	EPA 7471B	681238
10521458075	**SS-51 (1-1.5)**	EPA 7471B	681034	EPA 7471B	681238
10521458076	**SS-45 (0-0.5)**	EPA 7471B	681034	EPA 7471B	681238
10521458077	**SS-45 (1-1.5)**	EPA 7471B	681034	EPA 7471B	681238
10521458078	**SS-39 (0-0.5)**	EPA 7471B	681034	EPA 7471B	681238
10521458079	**SS-39 (1-1.5)**	EPA 7471B	681034	EPA 7471B	681238
10521458080	**SS-26 (0-0.5)**	EPA 7471B	681034	EPA 7471B	681238
10521458081	**SS-26 (1-1.5)**	EPA 7471B	681144	EPA 7471B	681554
10521458082	**SS-21F (0-0.5)**	EPA 7471B	681144	EPA 7471B	681554
10521458083	**SS-21F (1-1.5)**	EPA 7471B	681144	EPA 7471B	681554
10521458084	**SS-21G (0-0.5)**	EPA 7471B	681144	EPA 7471B	681554
10521458085	**SS-21G (1-1.5)**	EPA 7471B	681144	EPA 7471B	681554
10521458086	**SS-21E (0-0.5)**	EPA 7471B	681144	EPA 7471B	681554
10521458087	**SS-21E (1-1.5)**	EPA 7471B	681144	EPA 7471B	681554
10521458088	**SS-21C (0-0.5)**	EPA 7471B	681144	EPA 7471B	681554
10521458089	**SS-21C (1-1.5)**	EPA 7471B	681144	EPA 7471B	681554
10521458090	**SS-21D (0-0.5)**	EPA 7471B	681144	EPA 7471B	681554
10521458091	**SS-21D (1-1.5)**	EPA 7471B	681144	EPA 7471B	681554
10521458092	**Dup-10-06112020**	EPA 7471B	681144	EPA 7471B	681554
10521458093	**SS-21B (0-0.5)**	EPA 7471B	681144	EPA 7471B	681554
10521458094	**SS-21B (1-1.5)**	EPA 7471B	681144	EPA 7471B	681554

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10521458095	SS-21 (0-0.5)	EPA 7471B	681144	EPA 7471B	681554
10521458096	SS-21 (1-1.5)	EPA 7471B	681144	EPA 7471B	681554
10521458097	SS-33 (0-0.5)	EPA 7471B	681144	EPA 7471B	681554
10521458098	SS-33 (1-1.5)	EPA 7471B	681144	EPA 7471B	681554
10521458099	SS-4B (0-0.5)	EPA 7471B	681144	EPA 7471B	681554
10521458100	SS-4B (1-1.5)	EPA 7471B	681144	EPA 7471B	681554
10521458101	SS-4C (0-0.5)	EPA 7471B	681205	EPA 7471B	681555
10521458102	SS-4C (1-1.5)	EPA 7471B	681205	EPA 7471B	681555
10521458103	Dup-11-06112020	EPA 7471B	681205	EPA 7471B	681555
10521458104	SS-4D (0-0.5)	EPA 7471B	681205	EPA 7471B	681555
10521458105	SS-4D (1-1.5)	EPA 7471B	681205	EPA 7471B	681555
10521458106	SS-4E (0-0.5)	EPA 7471B	681205	EPA 7471B	681555
10521458107	SS-4E (1-1.5)	EPA 7471B	681205	EPA 7471B	681555
10521458108	SS-4F (0-0.5)	EPA 7471B	681205	EPA 7471B	681555
10521458109	SS-4F (1-1.5)	EPA 7471B	681205	EPA 7471B	681555
10521458110	SS-16D (0-0.5)	EPA 7471B	681205	EPA 7471B	681555
10521458111	SS-16D (1-1.5)	EPA 7471B	681205	EPA 7471B	681555
10521458112	SS-16C (0-0.5)	EPA 7471B	681205	EPA 7471B	681555
10521458113	SS-16C (1-1.5)	EPA 7471B	681205	EPA 7471B	681555
10521458114	SS-16B (0-0.5)	EPA 7471B	681205	EPA 7471B	681555
10521458115	SS-16B (1-1.5)	EPA 7471B	681205	EPA 7471B	681555
10521458116	SS-5L (0-0.5)	EPA 7471B	681205	EPA 7471B	681555
10521458117	SS-5L (1-1.5)	EPA 7471B	681205	EPA 7471B	681555
10521458118	SS-27 (0-0.5)	EPA 7471B	681205	EPA 7471B	681555
10521458119	SS-27 (1-1.5)	EPA 7471B	681205	EPA 7471B	681555
10521458120	SS-40 (0-0.5)	EPA 7471B	681205	EPA 7471B	681555
10521458121	SS-40 (1-1.5)	EPA 7471B	681206	EPA 7471B	681557
10521458122	SS-37 (0-0.5)	EPA 7471B	681206	EPA 7471B	681557
10521458123	SS-37 (1-1.5)	EPA 7471B	681206	EPA 7471B	681557
10521458124	SS-5F (0-0.5)	EPA 7471B	681206	EPA 7471B	681557
10521458125	SS-5F (1-1.5)	EPA 7471B	681206	EPA 7471B	681557
10521458126	Dup-13-06122020	EPA 7471B	681206	EPA 7471B	681557
10521458127	SS-5G (0-0.5)	EPA 7471B	681206	EPA 7471B	681557
10521458128	SS-5G (1-1.5)	EPA 7471B	681206	EPA 7471B	681557
10521458129	SS-5H (0-0.5)	EPA 7471B	681206	EPA 7471B	681557
10521458130	SS-5H (1-1.5)	EPA 7471B	681206	EPA 7471B	681557
10521458131	SS-5D (0-0.5)	EPA 7471B	681206	EPA 7471B	681557
10521458132	SS-5D (1-1.5)	EPA 7471B	681206	EPA 7471B	681557
10521458133	SS-5E (0-0.5)	EPA 7471B	681206	EPA 7471B	681557
10521458134	SS-5E (1-1.5)	EPA 7471B	681206	EPA 7471B	681557
10521458135	SS-5I (0-0.5)	EPA 7471B	681206	EPA 7471B	681557
10521458136	SS-5I (1-1.5)	EPA 7471B	681206	EPA 7471B	681557
10521458137	SS-5J (0-0.5)	EPA 7471B	681206	EPA 7471B	681557
10521458138	SS-5J (1-1.5)	EPA 7471B	681206	EPA 7471B	681557
10521458139	SS-5M (0-0.5)	EPA 7471B	681206	EPA 7471B	681557
10521458140	SS-5M (1-1.5)	EPA 7471B	681206	EPA 7471B	681557
10521458141	SS-5K (0-0.5)	EPA 7471B	681207	EPA 7471B	681556

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10521458142	**SS-5K (1-1.5)**	EPA 7471B	681207	EPA 7471B	681556
10521458143	**Dup-14-06122020**	EPA 7471B	681207	EPA 7471B	681556
10521458144	**SS-24D (0-0.5)**	EPA 7471B	681207	EPA 7471B	681556
10521458145	**SS-24D (1-1.5)**	EPA 7471B	681207	EPA 7471B	681556
10521458146	**SS-24 (0-0.5)**	EPA 7471B	681207	EPA 7471B	681556
10521458147	**SS-24 (1-1.5)**	EPA 7471B	681207	EPA 7471B	681556
10521458148	**SS-24E (0-0.5)**	EPA 7471B	681207	EPA 7471B	681556
10521458149	**SS-24E (1-1.5)**	EPA 7471B	681207	EPA 7471B	681556
10521458150	**SS-24F (0-0.5)**	EPA 7471B	681207	EPA 7471B	681556
10521458151	**SS-24F (1-1.5)**	EPA 7471B	681207	EPA 7471B	681556
10521458152	**Dup-15-06122020**	EPA 7471B	681207	EPA 7471B	681556
10521458153	**SS-24C (0-0.5)**	EPA 7471B	681207	EPA 7471B	681556
10521458154	**SS-24C (1-1.5)**	EPA 7471B	681207	EPA 7471B	681556
10521458155	**SS-24B (0-0.5)**	EPA 7471B	681207	EPA 7471B	681556
10521458156	**SS-24B (1-1.5)**	EPA 7471B	681207	EPA 7471B	681556
10521458001	**SS-23 (0-0.5)**	ASTM D2974	681350		
10521458002	**SS-23 (1-1.5)**	ASTM D2974	681350		
10521458003	**SS-23B (0-0.5)**	ASTM D2974	681521		
10521458004	**SS-23B (1-1.5)**	ASTM D2974	681521		
10521458005	**SS-23C (0-0.5)**	ASTM D2974	681521		
10521458006	**SS-23C (1-1.5)**	ASTM D2974	681521		
10521458007	**SS-23D (0-0.5)**	ASTM D2974	681521		
10521458008	**SS-23D (1-1.5)**	ASTM D2974	681521		
10521458009	**SS-23E (0-0.5)**	ASTM D2974	681521		
10521458010	**SS-23E (1-1.5)**	ASTM D2974	681521		
10521458011	**SS-23G (0-0.5)**	ASTM D2974	681521		
10521458012	**SS-23G (1-1.5)**	ASTM D2974	681521		
10521458013	**SS-23H (0-0.5)**	ASTM D2974	681521		
10521458014	**SS-23H (1-1.5)**	ASTM D2974	681521		
10521458015	**SS-23F (0-0.5)**	ASTM D2974	681521		
10521458016	**SS-23F (1-1.5)**	ASTM D2974	681521		
10521458017	**SS-23I (0-0.5)**	ASTM D2974	681521		
10521458018	**SS-23I (1-1.5)**	ASTM D2974	681521		
10521458019	**SS-23J (0-0.5)**	ASTM D2974	681521		
10521458020	**SS-23J (1-1.5)**	ASTM D2974	681521		
10521458021	**SS-35 (0-0.5)**	ASTM D2974	681521		
10521458022	**SS-35 (1-1.5)**	ASTM D2974	681591		
10521458023	**Dup-7-06092020**	ASTM D2974	681591		
10521458024	**SS-46 (0-0.5)**	ASTM D2974	681591		
10521458025	**SS-46 (1-1.5)**	ASTM D2974	681591		
10521458026	**SS-47 (0-0.5)**	ASTM D2974	681591		
10521458027	**SS-47 (1-1.5)**	ASTM D2974	681591		
10521458028	**SS-23K (0-0.5)**	ASTM D2974	681591		
10521458029	**SS-23K (1-1.5)**	ASTM D2974	681591		
10521458030	**SS-19F (0-0.5)**	ASTM D2974	681591		
10521458031	**SS-19F (1-1.5)**	ASTM D2974	681591		
10521458032	**Dup-8-06102020**	ASTM D2974	681591		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10521458033	SS-19E (0-0.5)	ASTM D2974	681591		
10521458034	SS-19E (1-1.5)	ASTM D2974	681591		
10521458035	SS-19D (0-0.5)	ASTM D2974	681591		
10521458036	SS-19D (1-1.5)	ASTM D2974	681591		
10521458037	SS-19C (0-0.5)	ASTM D2974	681591		
10521458038	SS-19C (1-1.5)	ASTM D2974	681591		
10521458039	SS-19B (0-0.5)	ASTM D2974	681591		
10521458040	SS-19B (1-1.5)	ASTM D2974	681591		
10521458041	SS-19 (0-0.5)	ASTM D2974	681591		
10521458042	SS-19 (1-1.5)	ASTM D2974	681594		
10521458043	SS-44 (0-0.5)	ASTM D2974	681594		
10521458044	SS-44 (1-1.5)	ASTM D2974	681594		
10521458045	SS-31 (0-0.5)	ASTM D2974	681594		
10521458046	SS-31 (1-1.5)	ASTM D2974	681594		
10521458047	SS-17J (0-0.5)	ASTM D2974	681594		
10521458048	SS-17J (1-1.5)	ASTM D2974	681594		
10521458049	SS-17I (0-0.5)	ASTM D2974	681594		
10521458050	SS-17I (1-1.5)	ASTM D2974	681594		
10521458051	SS-17H (0-0.5)	ASTM D2974	681594		
10521458052	SS-17H (1-1.5)	ASTM D2974	681594		
10521458053	SS-17G (0-0.5)	ASTM D2974	681594		
10521458054	SS-17G (1-1.5)	ASTM D2974	681594		
10521458055	Dup-9-06102020	ASTM D2974	681594		
10521458056	SS-17F (0-0.5)	ASTM D2974	681594		
10521458057	SS-17F (1-1.5)	ASTM D2974	681594		
10521458058	SS-17E (0-0.5)	ASTM D2974	681594		
10521458059	SS-17E (1-1.5)	ASTM D2974	681594		
10521458060	SS-17D (0-0.5)	ASTM D2974	681594		
10521458061	SS-17D (1-1.5)	ASTM D2974	681594		
10521458062	SS-17C (0-0.5)	ASTM D2974	681600		
10521458063	SS-17C (1-1.5)	ASTM D2974	681600		
10521458064	SS-17B (0-0.5)	ASTM D2974	681600		
10521458065	SS-17B (1-1.5)	ASTM D2974	681600		
10521458066	SS-17 (0-0.5)	ASTM D2974	681600		
10521458067	SS-17 (1-1.5)	ASTM D2974	681600		
10521458068	SS-34 (0-0.5)	ASTM D2974	681600		
10521458069	SS-34 (1-1.5)	ASTM D2974	681600		
10521458070	SS-30 (0-0.5)	ASTM D2974	681600		
10521458071	SS-30 (1-1.5)	ASTM D2974	681600		
10521458072	SS-42 (0-0.5)	ASTM D2974	681600		
10521458073	SS-42 (1-1.5)	ASTM D2974	681600		
10521458074	SS-51 (0-0.5)	ASTM D2974	681600		
10521458075	SS-51 (1-1.5)	ASTM D2974	681600		
10521458076	SS-45 (0-0.5)	ASTM D2974	681600		
10521458077	SS-45 (1-1.5)	ASTM D2974	681600		
10521458078	SS-39 (0-0.5)	ASTM D2974	681600		
10521458079	SS-39 (1-1.5)	ASTM D2974	681600		
10521458080	SS-26 (0-0.5)	ASTM D2974	681600		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10521458081	SS-26 (1-1.5)	ASTM D2974	681600		
10521458082	SS-21F (0-0.5)	ASTM D2974	681618		
10521458083	SS-21F (1-1.5)	ASTM D2974	681618		
10521458084	SS-21G (0-0.5)	ASTM D2974	681618		
10521458085	SS-21G (1-1.5)	ASTM D2974	681618		
10521458086	SS-21E (0-0.5)	ASTM D2974	681618		
10521458087	SS-21E (1-1.5)	ASTM D2974	681618		
10521458088	SS-21C (0-0.5)	ASTM D2974	681618		
10521458089	SS-21C (1-1.5)	ASTM D2974	681618		
10521458090	SS-21D (0-0.5)	ASTM D2974	681618		
10521458091	SS-21D (1-1.5)	ASTM D2974	681618		
10521458092	Dup-10-06112020	ASTM D2974	681618		
10521458093	SS-21B (0-0.5)	ASTM D2974	681618		
10521458094	SS-21B (1-1.5)	ASTM D2974	681618		
10521458095	SS-21 (0-0.5)	ASTM D2974	681618		
10521458096	SS-21 (1-1.5)	ASTM D2974	681618		
10521458097	SS-33 (0-0.5)	ASTM D2974	681618		
10521458098	SS-33 (1-1.5)	ASTM D2974	681618		
10521458099	SS-4B (0-0.5)	ASTM D2974	681618		
10521458100	SS-4B (1-1.5)	ASTM D2974	681618		
10521458101	SS-4C (0-0.5)	ASTM D2974	681618		
10521458102	SS-4C (1-1.5)	ASTM D2974	681619		
10521458103	Dup-11-06112020	ASTM D2974	681619		
10521458104	SS-4D (0-0.5)	ASTM D2974	681619		
10521458105	SS-4D (1-1.5)	ASTM D2974	681619		
10521458106	SS-4E (0-0.5)	ASTM D2974	681619		
10521458107	SS-4E (1-1.5)	ASTM D2974	681619		
10521458108	SS-4F (0-0.5)	ASTM D2974	681619		
10521458109	SS-4F (1-1.5)	ASTM D2974	681619		
10521458110	SS-16D (0-0.5)	ASTM D2974	681619		
10521458111	SS-16D (1-1.5)	ASTM D2974	681619		
10521458112	SS-16C (0-0.5)	ASTM D2974	681619		
10521458113	SS-16C (1-1.5)	ASTM D2974	681619		
10521458114	SS-16B (0-0.5)	ASTM D2974	681619		
10521458115	SS-16B (1-1.5)	ASTM D2974	681619		
10521458116	SS-5L (0-0.5)	ASTM D2974	681619		
10521458117	SS-5L (1-1.5)	ASTM D2974	681619		
10521458118	SS-27 (0-0.5)	ASTM D2974	681619		
10521458119	SS-27 (1-1.5)	ASTM D2974	681619		
10521458120	SS-40 (0-0.5)	ASTM D2974	681619		
10521458121	SS-40 (1-1.5)	ASTM D2974	681619		
10521458122	SS-37 (0-0.5)	ASTM D2974	681622		
10521458123	SS-37 (1-1.5)	ASTM D2974	681622		
10521458124	SS-5F (0-0.5)	ASTM D2974	681622		
10521458125	SS-5F (1-1.5)	ASTM D2974	681622		
10521458126	Dup-13-06122020	ASTM D2974	681622		
10521458127	SS-5G (0-0.5)	ASTM D2974	681622		

REPORT OF LABORATORY ANALYSIS

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(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10521458

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10521458128	**SS-5G (1-1.5)**	ASTM D2974	681622		
10521458129	**SS-5H (0-0.5)**	ASTM D2974	681622		
10521458130	**SS-5H (1-1.5)**	ASTM D2974	681622		
10521458131	**SS-5D (0-0.5)**	ASTM D2974	681622		
10521458132	**SS-5D (1-1.5)**	ASTM D2974	681622		
10521458133	**SS-5E (0-0.5)**	ASTM D2974	681622		
10521458134	**SS-5E (1-1.5)**	ASTM D2974	681622		
10521458135	**SS-5I (0-0.5)**	ASTM D2974	681622		
10521458136	**SS-5I (1-1.5)**	ASTM D2974	681622		
10521458137	**SS-5J (0-0.5)**	ASTM D2974	681622		
10521458138	**SS-5J (1-1.5)**	ASTM D2974	681622		
10521458139	**SS-5M (0-0.5)**	ASTM D2974	681622		
10521458140	**SS-5M (1-1.5)**	ASTM D2974	681622		
10521458141	**SS-5K (0-0.5)**	ASTM D2974	681622		
10521458142	**SS-5K (1-1.5)**	ASTM D2974	681706		
10521458143	**Dup-14-06122020**	ASTM D2974	681706		
10521458144	**SS-24D (0-0.5)**	ASTM D2974	681706		
10521458145	**SS-24D (1-1.5)**	ASTM D2974	681706		
10521458146	**SS-24 (0-0.5)**	ASTM D2974	681706		
10521458147	**SS-24 (1-1.5)**	ASTM D2974	681706		
10521458148	**SS-24E (0-0.5)**	ASTM D2974	681706		
10521458149	**SS-24E (1-1.5)**	ASTM D2974	681706		
10521458150	**SS-24F (0-0.5)**	ASTM D2974	681706		
10521458151	**SS-24F (1-1.5)**	ASTM D2974	681706		
10521458152	**Dup-15-06122020**	ASTM D2974	681706		
10521458153	**SS-24C (0-0.5)**	ASTM D2974	681706		
10521458154	**SS-24C (1-1.5)**	ASTM D2974	681706		
10521458155	**SS-24B (0-0.5)**	ASTM D2974	681706		
10521458156	**SS-24B (1-1.5)**	ASTM D2974	681706		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2277791

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Braun Intertec	Report To: Mark Keefer	Attention:
Address: 11001 Hampshire Ave S. Bloomington MN 55438	Copy To:	Company Name: Same
Email To: MKeefer@braunintertec.com	Purchase Order No.:	Address: Same
Phone: Fax:	Project Name: Hillcrest	Pace Quote Reference:
Requested Due Date/TAT: STD	Project Number: B1903316-00	Pace Project Manager:
		Pace Profile #: 34125

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MN

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: Mercury	Residu	Pace Project No./ Lab I.D.
1	SS-23 (0-0.5)	SL	G			6/10/20	0922		1	1								X		
2	SS-23 (1-1.5)						0924													
3	SS-23B (0-0.5)						0934													
4	SS-23B (1-1.5)						0936													
5	SS-23C (0-0.5)						0946													
6	SS-23C (1-1.5)						0948													
7	SS-23D (0-0.5)						0953													
8	SS-23D (1-1.5)						0955													
9	SS-23E (0-0.5)						1000													
10	SS-23E (1-1.5)						1002													
11	SS-23G (0-0.5)						0014													
12	SS-23G (1-1.5)						1016													

WO#: 10521458

10521458

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Graham Hanson/Braun	6/12/20	1345	PACE	6.12.20	1350	2.5	Y	N	Y
	PACE	6.12.20	1350	Chuck B/Pace	6/12/20	1445				
	Chuck B/Pace	6/12/20	1630		6/12/20	1630		Y	N	Y

T=1.5 1.1, 0.2, 0.4, 0.7

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Graham Hanson

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 06/11/20

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2277792

Section A Required Client Information:

Company: Braun Intertec
Address: 11601 Hampshire Ave S.
Bloomington MN 55438
Email To: MKeeter@braunintertec.com
Phone: Fax:
Requested Due Date/TAT: STD

Section B Required Project Information:

Report To: Mark Keeter
Copy To:
Purchase Order No.:
Project Name: Hilcrest
Project Number: B1903316.00

Section C Invoice Information:

Attention:
Company Name:
Address: Same
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 34125

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MN

Section D Required Client Information

Matrix Codes (MATRIX / CODE)

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Mercury	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SS-23H (0-0.5)	SL	G			6/10/20	1021		1	1											
2	SS-23H (1-1.5)						1023														
3	SS-23F (0-0.5)						1033														
4	SS-23F (1-1.5)						1035														
5	SS-23I (0-0.5)						1043														
6	SS-23I (1-1.5)						1045														
7	SS-23J (0-0.5)						1053														
8	SS-23J (1-1.5)						1055														
9	SS-35 (0-0.5)						1106														
10	SS-35 (1-1.5)		↓				1108														
11	DUP-7-06092020		C				1200		↓	↓											
12	SS-46 (0-0.5)	↓	G			↓	1121		3	B									↓		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Graham Hanson/Braun	6/12/20	1345	PACE	6.12.20	1350	2.5	Y	N	Y
	PACE	6.12.20	1350	Charles B/Pace	6/12/20	1445	4.1			
	Charles B/Pace	6/12/20	1630		6/12/20	1630	B3 0.9	Y	N	Y
							0.9			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Graham Hanson

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 06/10/20

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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CHAIN-OF-CUSTODY / Analytical Request Document

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2277793

Section A Required Client Information:

Company: Braun Intertec
Address: 11001 Hampshire Ave S.
Bloomington, MN 55438
Email To: MKeeter@Braunintertec.com
Phone: Fax:
Requested Due Date/TAT: STD

Section B Required Project Information:

Report To: Mark Keeter
Copy To:
Purchase Order No.:
Project Name: Hillcrest
Project Number: B1903316.00

Section C Invoice Information:

Attention:
Company Name:
Address: Same
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 34125

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MN

Section D Required Client Information

Matrix Codes (MATRIX / CODE)

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Analysis Test: Mercury	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SS-46 (1-1.5)	SL	G			6/10/20	1123		1	1									X		
2	SS-47 (0-0.5)						1133														
3	SS-47 (1-1.5)						1135														
4	SS-23K (0-0.5)						1147														
5	SS-23K (1-1.5)						1149														
6	SS-19F (0-0.5)						1220														
7	SS-19F (1-1.5)		↓				1221														
8	DUP-8-06102020		C				1201														
9	SS-19E (0-0.5)		G				1229														
10	SS-19E (1-1.5)		↓				1230														
11	SS-19D (0-0.5)						1239														
12	SS-19D (1-1.5)	↓	↓			↓	1240	↓	↓	↓									↓		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Graham Hanson/Braun	6/12/20	1345	PACE	6.12.20	1350	2.5	Y	N	Y
	PACE	6.12.20	1350	Clarke B/Pace	6/12/20	1445	1.1 1.2			
	Clarke B/Pace	6/12/20	1430		6/12/20	1630	0.4 0.7	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Graham Hanson
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 06/11/20

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 4 of 14

2277798

Section A Required Client Information:

Company:	Braun Intertec
Address:	11001 Hampshire Ave S Bloomington MN 55438
Email To:	MKeeter@braunintertec.com
Phone:	
Fax:	
Requested Due Date/TAT:	STD

Section B Required Project Information:

Report To:	Mark Keeter
Copy To:	
Purchase Order No.:	
Project Name:	Hillcrest
Project Number:	B1903316.00

Section C Invoice Information:

Attention:	
Company Name:	
Address:	Same
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	34125

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MN

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Mercury	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SS-19 C (0-0.5)	SL	G			6/10/20	1249		1	1									X		
2	SS-19 C (1-1.5)						1250														
3	SS-19B (0-0.5)						1259														
4	SS-19B (1-1.5)						1300														
5	SS-19 (0-0.5)						1304														
6	SS-19 (1-1.5)						1305														
7	SS-44 (0-0.5)						1324														
8	SS-44 ~~to~~ (1-1.5)						1325														
9	SS-31 (0-0.5)						1334														
10	SS-31 (1-1.5)						1335														
11	SS-17J (0-0.5)						1344														
12	SS-17J (1-1.5)						1345														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Graham Hanson/Braun	6/12/20	1345	[signature] PACE	6.12.20	1350	2.5	Y	N	Y
	[signature] PACE	6.12.20	1350	Charles G / Pace	6/12/20	1445	11.02			
	Charles G / Pace	6/12/20	1630	[signature]	6/12/20	16:30	10.4	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Graham Hanson

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 06/11/20

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-C-010-rev.00, 09Nov2017

CHAIN-OF-CUSTODY / Analytical Request Document

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2277799

Section A Required Client Information:

Company: Braun Intertec
Address: 11001 Hampshire Ave S
Bloomington MN 55438
Email To: MKeeler@braunintertec.com
Phone: Fax:
Requested Due Date/TAT: STD

Section B Required Project Information:

Report To: Mark Keeler
Copy To:
Purchase Order No.:
Project Name: Hillcrest
Project Number: B1903316.00

Section C Invoice Information:

Attention:
Company Name:
Address: Same
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 34125

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MN

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: Mercury	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SS-17 I (0-0.5)	SL	G			6/10/20	1350		1	1								X		
2	SS-17 I (1-1.5)						1351													
3	SS-17 H (0-0.5)						1359													
4	SS-17 H (1-1.5)						1400													
5	SS-17 G (0-0.5)						1409													
6	SS-17 G (1-1.5)						1410													
7	DUP-9-06102020		C				1203													
8	SS-17 F (0-0.5)		G				1414													
9	SS-17 F (1-1.5)						1415													
10	SS-17 E (0-0.5)						1432													
11	SS-17 E (1-1.5)						1434													
12	SS-17 D (0-0.5)						1440													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Graham Hanson/Braun	6/12/20	1345	PACE	6.12.20	1350	2-5	Y	N	Y
	PACE	6.12.20	1350	Chase D/Pace	6/12/20	1445	0.2			
	Chase D/Pace	6/12/20	1630		6/12/20	1630	0.5 OT	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Graham Hanson
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 06/11/20

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

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CHAIN-OF-CUSTODY / Analytical Request Document

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2277797

Section A Required Client Information:

Company: Braun Intertec
Address: 11001 Hampshire Ave S.
Bloomington MN 55438
Email To: MKeeler@braunintertec.com
Phone: Fax:
Requested Due Date/TAT: STD

Section B Required Project Information:

Report To: Mark Keeler
Copy To:
Purchase Order No.:
Project Name: Hillcrest
Project Number: B1903316.00

Section C Invoice Information:

Attention:
Company Name:
Address: Same
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 34125

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MN

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Analysis Test: Mercury	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SS-17D (1-1.5)	SL	G			6/10/20	1442		1	1									X		
2	SS-17C (0-0.5)						1446														
3	SS-17C (1-1.5)						1448														
4	SS-17B (0-0.5)						1454														
5	SS-17B (1-1.5)						1456														
6	SS-17 (0-0.5)						1501														
7	SS-17 (1-1.5)						1503														
8	SS-34 (0-0.5)						1508														
9	SS-34 (1-1.5)						1510														
10	SS-30 (0-0.5)						1524														
11	SS-30 (1-1.5)						1526														
12	SS-42 (0-0.5)						1539														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Graham Hanson/Braun	6/12/20	1345	PACE	6.12.20	1350	2.5	Y	N	Y
	PACE	6.12.20	1350	Charles B/Pace	6/12/20	1445	4.1			
	Charles B/Pace	6/12/20	1630		6/12/20	1630	0.2, 0.4, 1.7	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Graham Hanson

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 06/11/20

ORIGINAL

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 7 of 14

2277794

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Braun Intertec	Report To: Mark Keefer	Attention:
Address: 11001 Hampshire Ave S Bloomington, MN 55438	Copy To:	Company Name:
		Address: Same
Email To: MKeefer@braunintertec.com	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name: Hillcrest	Pace Project Manager:
Requested Due Date/TAT: STD	Project Number: B1903316.00	Pace Profile #: 34125

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MN

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Mercury	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SS-42 (1-1.5)	SL	G			6/10/20	1541		1	1									X		
2	SS-51 (0-0.5)						1544														
3	SS-51 (1-1.5)						1545														
4	SS-45 (0-0.5)						1557														
5	SS-45 (1-1.5)						1559														
6	SS-39 (0-0.5)						1608														
7	SS-39 (1-1.5)						1610														
8	SS-26 (0-0.5)						1619														
9	SS-26 (1-1.5)						1620														
10	SS-21F (0-0.5)					6/11/20	0920														
11	SS-21F (1-1.5)						0921														
12	SS-21G (0-0.5)						0932														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Graham Hanson/Braun	6/12/20	1345	[signature] PACE	6.12.20	1350	2.5	Y	N	Y
	[signature] PACE	6.12.20	1350	Charles G/Pace	6/12/20	1445	1.1 w2			
	Charles G/Pace	6/12/20	1630	[signature]	6/12/20	1630	0.4 0.7	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Graham Hanson

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 06/11/20

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-C-010-rev.00, 09Nov2017

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2277795

Section A Required Client Information:

Company: Braun Intertec
Address: 11001 Hampshire Ave S.
Bloomington MN
Email To: MKeefer@Braunintertec.com
Phone: Fax:
Requested Due Date/TAT: STD

Section B Required Project Information:

Report To: Mark Keefer
Copy To:
Purchase Order No.:
Project Name: Hillcrest
Project Number: B1903316.00

Section C Invoice Information:

Attention:
Company Name:
Address: Same
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 34125

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MN

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: Mercury	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SS-21G(1-1.5)	SL	G			6/11/20	0933		1	1								X		
2	SS-21E(0-0.5)						0949													
3	SS-21E(1-1.5)						0950													
4	SS-21K(0-0.5)						1000													
5	SS-21K(1-1.5)						1001													
6	SS-21D(0-0.5)						1017													
7	SS-21D(1-1.5)		G				1018													
8	DUP-10-06112020		C				1200													
9	SS-21B(0-0.5)		G				1029													
10	SS-21B(1-1.5						1030													
11	SS-21(0-0.5)						1059													
12	SS-21(1-1.5)						1100													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Graham Hanson/Braun	6/12/20	1345	PACE	6.12.20	1350	2-5	Y	N	Y
	PACE	6.12.20	1350	Chase B/Pace	6/12/20	1445	1.1			
	Chase B/Pace	6/12/20	1630		6/12/20	1630	0.3, 0.4, 0.7	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Graham Hanson
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 06/11/20

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2277796

Section A Required Client Information:

Company:	Braun Intertec
Address:	11001 Hampshire Ave S, Bloomington MN 55438
Email To:	MKeefer@braunintertec.com
Phone:	
Fax:	
Requested Due Date/TAT:	STD

Section B Required Project Information:

Report To:	Mark Keefer
Copy To:	
Purchase Order No.:	
Project Name:	Hillcrest
Project Number:	B1903316.00

Section C Invoice Information:

Attention:	
Company Name:	Same
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	34125

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MN

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Mercury	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SS-33 (0-0.5)	SL	G			06/11/20	1152		1	1									X		
2	SS-33 (1-1.5)						1153														
3	SS-4B (0-0.5)						1205														
4	SS-4B (1-1.5)						1206														
5	SS-4C (0-0.5)						1216														
6	SS-4C (1-1.5)						1217														
7	DUP-11-06112020		C				1201														
8	SS-4D (0-0.5)		G				1227														
9	SS-4D (1-1.5)						1228														
10	SS-4E (0-0.5)						1241														
11	SS-4E (1-1.5)						1242														
12	SS-4F (0-0.5)						1252														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Graham Hanson/Braun	6/12/20	1345	[signature] PACE	6.12.20	1350	2.5	Y	N	Y
	[signature] PACE	6.12.20	1350	Charles [signature] / Pace	6/12/20	1445	1.1			
	Charles [signature] / Pace	6/12/20	1630	[signature]	6/12/20	1630	0.2 0.4 0.7	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Graham Hanson

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 06/11/20

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-C-010-rev.00, 09Nov2017

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2277764

Section A Required Client Information:

Company: Brown Interiec
Address: 11001 Hampshire Ave S.
Bloomington MN 55438
Email To: MKeeter@brownintertec.com
Phone: Fax:
Requested Due Date/TAT: STD

Section B Required Project Information:

Report To: Mark Keeter
Copy To:
Purchase Order No.:
Project Name: Hillcrest
Project Number: B1903316.00

Section C Invoice Information:

Attention:
Company Name:
Address: Same
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 34125

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MN

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes — MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: Mercury	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SS-4F (1-1.5)	SL	G			6/11/20	1253		1	1								X		
2	SS-16D (0-0.5)		C				1324		3	3										
3	SS-16D (1-1.5)		G				1325		1	1										
4	SS-16C (0-0.5)						1334													
5	SS-16C (1-1.5)						1335													
6	SS-16B (0-0.5)						1344													
7	SS-16B (1-1.5)						1345													
8	SS-5L (0-0.5)						1407													
9	SS-5L (1-1.5)						1408													
10	SS-27 (0-0.5)						1415													
11	SS-27 (1-1.5)						1416													
12	SS-40 (0-0.5)						1429													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Graham Hanson/Brown	6/12/20	1345	PACE	6.12.20	1350	2.5 Y N Y
	PACE	6.12.20	1350	Chase BJ/Pace	6/12/20	1445	0.0
	Chase BJ/Pace	6/12/20	1630		6/12/20	1630	0.4 Y N Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Graham Hanson

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 06/11/20

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

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CHAIN-OF-CUSTODY / Analytical Request Document

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2277765

Section A Required Client Information:

Company: Braun Intertec
Address: 11001 Hampshire Ave S
Bloomington MN 55438
Email To: MKeeler@braunintertec.com
Phone: Fax:
Requested Due Date/TAT: STD

Section B Required Project Information:

Report To: Mark Keeler
Copy To:
Purchase Order No.:
Project Name: Hillcrest
Project Number: B1903316.00

Section C Invoice Information:

Attention:
Company Name:
Address: Same
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 34125

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MN

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes — MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Analysis Test: Mercury	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SS-4O (1-1.5)	SL	G			6/11/20	1430		2	1									X		
2	SS-37 (0-0.5)						1450														
3	SS-37 (1-1.5)						1451														
4	SS-5F (0-0.5)					6/12/20	0843														
5	SS-5F (1-1.5)						0845														
6	DUP-13-06122020		C				1200														
7	SS-5G (0-0.5)		G				0856														
8	SS-5G (1-1.5)						0858														
9	SS-5H (0-0.5)						0901														
10	SS-5H (1-1.5)						0903														
11	SS-5D (0-0.5)						0906														
12	SS-5D (1-1.5)						0909														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Graham Hanson/Braun	6/12/20	1345	PACE	6.12.20	1350	2.5	Y	N	Y
	PACE	6.12.20	1350	Chase D/ Pace	6/12/20	1445	1.3			
	Chase D/ Pace	6/12/20	1630		6/12/20	1630	0.4 0.7	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Graham Hanson
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 06/12/20

ORIGINAL

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CHAIN-OF-CUSTODY / Analytical Request Document

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2277767

Section A Required Client Information:

Company: Braun Intertec
Address: 11001 Hampshire Ave S
Bloomington MN 55438
Email To: MKeefer@braunintertec.com
Phone: Fax:
Requested Due Date/TAT: STD

Section B Required Project Information:

Report To: Mark Keefer
Copy To:
Purchase Order No.:
Project Name: Hilcrest
Project Number: B1903316.00

Section C Invoice Information:

Attention:
Company Name:
Address: Same
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 34125

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MN

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Analysis Test: Mercury	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SS-5E (0-0.5)	SL	G			6/12/20	0915		1	1									X		
2	SS-5E (1-1.5)						0917														
3	SS-5I (0-0.5)						0924														
4	SS-5I (1-1.5)						0926														
5	SS-5J (0-0.5)						0930														
6	SS-5J (1-1.5)						0932														
7	SS-5M (0-0.5)						0938														
8	SS-5M (1-1.5)						0940														
9	SS-5K (0-0.5)						0945														
10	SS-5K (1-1.5)		↓				0947														
11	DUP-14-06122020		C				1201		↓	↓											
12	SS-24D (0-0.5)	↓	↓			↓	1016		3	3									↓		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Graham Hanson/Braun	6/12/20	1345	PACE	6.12.20	1350	2-5	Y	N	Y
	PACE	6.12.20	1350	Chandler D/Pace	6/12/20	1445	1.1 0.8			
	Chandler D/Pace	6/12/20	1630		6/12/20	1630	0.4 0.7	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Graham Hanson
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 06/12/20

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

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CHAIN-OF-CUSTODY / Analytical Request Document

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2277766

Section A Required Client Information:

Company: Braun Intertec
Address: 11001 Hampshire Ave S. Bloomington, MN 55438
Email To: MKeefer@braunintertec.com
Phone: Fax:
Requested Due Date/TAT: STD

Section B Required Project Information:

Report To: Mark Keefer
Copy To:
Purchase Order No.:
Project Name: Hillcrest
Project Number: B1903316.00

Section C Invoice Information:

Attention:
Company Name:
Address: Same
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 34125

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

Matrix Codes (MATRIX / CODE)

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SS-24D (1-1.5)	SL	G			6/12/20	1017													
2	SS-24 (0-0.5)						1024													
3	SS-24 (1-1.5)						1025													
4	SS-24E (0-0.5)						1034													
5	SS-24E (1-1.5)						1035													
6	SS-24F (0-0.5)						1045													
7	SS-24F (1-1.5)		↓				1046													
8	DUP-15-06122020		C				1202													
9	SS-24C (0-0.5)		G				1059													
10	SS-24C (1-1.5)						1100													
11	SS-24B (0-0.5)						1114													
12	SS-24B (1-1.5)	↓	↓			↓	1115													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Graham Hanson/Braun	6/12/20	1345	PACE	6.12.20	1350	2.5	Y	N	Y
	PACE	6.12.20	1350	Charles B/Pace	6/12/20	1445	1.1			
	Charles B/Pace	6/12/20	1630		6/13/20	1630	0.4	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 14 of 14

2277768

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Braun Intertec	Report To: Mark Keefer	Attention:
Address: 11001 Hampshire Ave S Bloomington, MN 55438	Copy To:	Company Name:
		Address: Same
Email To:	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name: Hillcrest	Pace Project Manager:
Requested Due Date/TAT:	Project Number: B1903316.00	Pace Profile #: 34125

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MN

Section D Required Client Information

Matrix Codes MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Mercury	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Equipment Blank (HA)	WT	G			6/12/20	0930		2	2									Y		
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Graham Hanson/Braun	6/12/20	1345	[signature] PACE	6.12.20	1350	2.5	Y	N	Y
	[signature] PACE	6.12.20	1350	Charles G/ Pace	6/12/20	1445	1.1 0.2			
	Charles G/ Pace	6/12/20	1650	[signature]	6/12/20	16:50	0.4 0.7	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Graham Hanson

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 06/12/20

ORIGINAL

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F-ALL-C-010-rev.00, 09Nov2017

Pace Analytical®	Document Name: **Sample Condition Upon Receipt (SCUR) - MN**	Document Revised: 27Mar2020 **Page 1 of 1**
	Document No.: **ENV-FRM-MIN4-0150 Rev.00**	Pace Analytical Services - **Minneapolis**

Sample Condition Upon Receipt

Client Name: Braun-BLM

Project #: **WO# : 10521458**

PM: BM2 Due Date: 06/19/20

CLIENT: Braun-BLM

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☒ Pace ☐ SpeeDee ☐ Commercial See Exceptions ☐

Tracking Number:

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No **Biological Tissue Frozen?** ☐ Yes ☐ No ☒ N/A

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other: **Temp Blank?** ☒ Yes ☐ No

Thermometer: ☐ T1(0461) ☐ T2(1336) ☐ T3(0459) ☐ T4(0254) ☒ T5(0489) **Type of Ice:** ☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted

Did Samples Originate in West Virginia? ☐ Yes ☒ No **Were All Container Temps Taken?** ☐ Yes ☐ No ☒ N/A

Temp should be above freezing to 6°C **Cooler Temp Read w/temp blank:** °C

Average Corrected Temp (no temp blank only): ☐ See Exceptions °C ☐ 1 Container

Correction Factor: True **Cooler Temp Corrected w/temp blank :** 1.1, 0.2, 0.4, 0.7 °C

USDA Regulated Soil: (☐ N/A, water sample/Other:) **Date/Initials of Person Examining Contents:** CLT 6/12/20

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☒ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present and Filled Out?	☒ Yes	☐ No		1.
Chain of Custody Relinquished?	☒ Yes	☐ No		2.
Sampler Name and/or Signature on COC?	☒ Yes	☐ No	☐ N/A	3.
Samples Arrived within Hold Time?	☒ Yes	☐ No		4.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No		5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other
Rush Turn Around Time Requested?	☐ Yes	☒ No		6.
Sufficient Volume?	☒ Yes	☐ No		7.
Correct Containers Used?	☒ Yes	☐ No		8.
-Pace Containers Used?	☒ Yes	☐ No		
Containers Intact?	☒ Yes	☐ No		9.
Field Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☒ N/A	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Is sufficient information available to reconcile the samples to the COC?	☒ Yes	☐ No		11. **If no, write ID/ Date/Time on Container Below:** **See Exception** ☐
Matrix: ☐ Water ☒ Soil ☐ Oil ☐ Other				
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☒ N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide)	☐ Yes	☐ No	☒ N/A	☐ NaOH ☐ HNO_3 ☐ H_2SO_4 ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☐ Yes	☐ No	☒ N/A	Positive for Res. Chlorine? ☐ Yes ☐ No **pH Paper Lot#** **See Exception** ☐
				Res. Chlorine | 0-6 Roll | 0-6 Strip | 0-14 Strip
Extra labels present on soil VOA or WIDRO containers?	☐ Yes	☐ No	☒ N/A	13. **See Exception** ☐
Headspace in VOA Vials (greater than 6mm)?	☐ Yes	☐ No	☒ N/A	
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	14.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	Pace Trip Blank Lot # (if purchased):

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Lauren Ferur **Date:** 6/16/20

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: CLT 6/12/20

Service Center Transfer Checklist

Service Center: MPLS ☐ BLM ☒ AZ ☐

Client: Braun Intertec

Destination Lab: MPLS ☒ VM ☐ Duluth ☐

National ☐ Other _____

Received w/ Custody Seal ? Yes ☐ No ☑

Custody Seal Intact ? Yes ☐ No ☑

	Temp Read	Corr. Factor	Corr. Temp
Temperature °C	① 1.8 ② 2.0 ③ 1.9 ④ 2.4	+0.1 True	① 1.9 ② 2.1 ③ 2.0 ④ 2.5

IR Gun: B88A0143310092 ☐ Samples on ice, in cool down

Rush ☐ **Short Hold** ☐ **N/A** ☑

Containers Intact ? Yes ☑ No ☐

Repacked and Re-Iced ? Yes ☐ No ☑

Notes: _____

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

June 23, 2020

Mark Keefer
Braun Intertec
11001 Hampshire Ave S
Bloomington, MN 55438

RE: Project: B1903316.00 Hillcrest
Pace Project No.: 10521749

Dear Mark Keefer:

Enclosed are the analytical results for sample(s) received by the laboratory on June 16, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bob Michels
bob.michels@pacelabs.com
(612)709-5046
Project Manager

Enclosures

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521749

Pace Analytical Services Minneapolis

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

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Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: B1903316.00 Hillcrest
Pace Project No.: 10521749

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10521749001	**SS-49 (0-0.5)**	Solid	06/15/20 11:06	06/16/20 10:35
10521749002	**SS-49 (1-1.5)**	Solid	06/15/20 11:07	06/16/20 10:35
10521749003	**SS-36 (0-0.5)**	Solid	06/15/20 12:00	06/16/20 10:35
10521749004	**SS-36 (1-1.5)**	Solid	06/15/20 12:01	06/16/20 10:35

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: B1903316.00 Hillcrest
Pace Project No.: 10521749

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10521749001	**SS-49 (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521749002	**SS-49 (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521749003	**SS-36 (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10521749004	**SS-36 (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

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SUMMARY OF DETECTION

Project: B1903316.00 Hillcrest
Pace Project No.: 10521749

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10521749001	**SS-49 (0-0.5)**					
EPA 7471B	Mercury	0.96	mg/kg	0.041	06/23/20 14:14	
ASTM D2974	Percent Moisture	13.8	%	0.10	06/19/20 14:32	N2
10521749002	**SS-49 (1-1.5)**					
ASTM D2974	Percent Moisture	12.0	%	0.10	06/19/20 14:32	N2
10521749003	**SS-36 (0-0.5)**					
EPA 7471B	Mercury	2.0	mg/kg	0.10	06/23/20 14:17	
ASTM D2974	Percent Moisture	7.3	%	0.10	06/19/20 14:32	N2
10521749004	**SS-36 (1-1.5)**					
EPA 7471B	Mercury	0.10	mg/kg	0.022	06/23/20 11:09	
ASTM D2974	Percent Moisture	11.4	%	0.10	06/19/20 14:32	N2

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest
Pace Project No.: 10521749

Method: **EPA 7471B**
Description: 7471B Mercury
Client: Braun Intertec Corporation
Date: June 23, 2020

General Information:
4 samples were analyzed for EPA 7471B by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7471B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 682072

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10521749002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 3649866)
  - Mercury

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521749

Sample: SS-49 (0-0.5) **Lab ID: 10521749001** Collected: 06/15/20 11:06 Received: 06/16/20 10:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.96**	mg/kg	0.041	2	06/19/20 11:40	06/23/20 14:14	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**13.8**	%	0.10	1		06/19/20 14:32		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521749

Sample: SS-49 (1-1.5) **Lab ID: 10521749002** Collected: 06/15/20 11:07 Received: 06/16/20 10:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.022	1	06/19/20 11:40	06/23/20 10:59	7439-97-6	M1
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**12.0**	%	0.10	1		06/19/20 14:32		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521749

Sample: SS-36 (0-0.5) **Lab ID: 10521749003** Collected: 06/15/20 12:00 Received: 06/16/20 10:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**2.0**	mg/kg	0.10	5	06/19/20 11:40	06/23/20 14:17	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**7.3**	%	0.10	1		06/19/20 14:32		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521749

Sample: SS-36 (1-1.5) **Lab ID: 10521749004** Collected: 06/15/20 12:01 Received: 06/16/20 10:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.10**	mg/kg	0.022	1	06/19/20 11:40	06/23/20 11:09	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**11.4**	%	0.10	1		06/19/20 14:32		N2

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10521749

QC Batch: 682072
QC Batch Method: EPA 7471B
Analysis Method: EPA 7471B
Analysis Description: 7471B Mercury Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10521749001, 10521749002, 10521749003, 10521749004

METHOD BLANK: 3649863 Matrix: Solid
Associated Lab Samples: 10521749001, 10521749002, 10521749003, 10521749004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.018	06/23/20 10:52	

LABORATORY CONTROL SAMPLE: 3649864

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.48	0.53	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3649865 3649866

Parameter	Units	10521749002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	ND	0.51	0.55	0.43	0.44	80	76	80-120	1	20	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10521749

QC Batch: 682225
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10521749001, 10521749002, 10521749003, 10521749004

SAMPLE DUPLICATE: 3650967

Parameter	Units	10520911009 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	15.1	15.2	0	30	N2

SAMPLE DUPLICATE: 3651052

Parameter	Units	10521749004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	11.4	11.4	0	30	N2

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: B1903316.00 Hillcrest
Pace Project No.: 10521749

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B1903316.00 Hillcrest
Pace Project No.: 10521749

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10521749001	**SS-49 (0-0.5)**	EPA 7471B	682072	EPA 7471B	682528
10521749002	**SS-49 (1-1.5)**	EPA 7471B	682072	EPA 7471B	682528
10521749003	**SS-36 (0-0.5)**	EPA 7471B	682072	EPA 7471B	682528
10521749004	**SS-36 (1-1.5)**	EPA 7471B	682072	EPA 7471B	682528
10521749001	**SS-49 (0-0.5)**	ASTM D2974	682225		
10521749002	**SS-49 (1-1.5)**	ASTM D2974	682225		
10521749003	**SS-36 (0-0.5)**	ASTM D2974	682225		
10521749004	**SS-36 (1-1.5)**	ASTM D2974	682225		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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www.pacelabs.com

Page: 1 of 1

2277774

Section A Required Client Information:

Company: Braun Intertec
Address: 11001 Hampshire Ave S
Bloomington, MN 55438
Email To: MKeefer@Braunintertec.com
Phone: Fax:
Requested Due Date/TAT: STD

Section B Required Project Information:

Report To: Mark Keefer
Copy To:
Purchase Order No.:
Project Name: Hilcrest
Project Number: B1903316.00

Section C Invoice Information:

Attention:
Company Name:
Address: Same
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 34126

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MN

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Mercury	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SS-49 (0-0.5)	SL	G			6/15/20	1106		1	1									X		01
2	SS-49 (1-1.5)						1107														02
3	SS-36 (0-0.5)						1200														03
4	SS-36 (1-1.5)						1201														04
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

WO#: 10521749
10521749

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Graham Hanson/Braun	6/15/20	1345	PACE	6.15.20	1525	1.9			
	PACE	6.15.20	1525	Chase D/Pace	6/16/20	1005				
	Chase D/Pace	6/16/20	1035	RHL/Pace	6/16/20	1035	0.3	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Graham Hanson
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 06/15/20

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-C-010-rev.00, 09Nov2017

Pace Analytical®	Document Name: **Sample Condition Upon Receipt (SCUR) - MN**	Document Revised: 27Mar2020 **Page 1 of 1**
	Document No.: **ENV-FRM-MIN4-0150 Rev.00**	Pace Analytical Services - **Minneapolis**

Sample Condition Upon Receipt **Client Name:** Braun Intertec **Project #:** **WO#: 10521749**

PM: BM2 **Due Date: 06/23/20**

CLIENT: Braun-BLM

Courier: ☐Fed Ex ☐UPS ☐USPS ☐Client ☑Pace ☐SpeeDee ☐Commercial **See Exceptions** ☐

Tracking Number: _____

Custody Seal on Cooler/Box Present? ☐Yes ☑No **Seals Intact?** ☐Yes ☑No **Biological Tissue Frozen?** ☐Yes ☐No ☑N/A

Packing Material: ☑Bubble Wrap ☑Bubble Bags ☐None ☐Other:_____ **Temp Blank?** ☑Yes ☐No

Thermometer: ☐T1(0461) ☐T2(1336) ☐T3(0459) ☐T4(0254) ☑T5(0489) **Type of Ice:** ☑Wet ☐Blue ☐None ☐Dry ☐Melted

Did Samples Originate in West Virginia? ☐Yes ☑No **Were All Container Temps Taken?** ☐Yes ☐No ☑N/A

Temp should be above freezing to 6°C **Cooler Temp Read w/temp blank:** 0.3 °C **Average Corrected Temp (no temp blank only):** ☐See Exceptions _____ °C ☐1 Container

Correction Factor: True **Cooler Temp Corrected w/temp blank :** 0.3 °C

USDA Regulated Soil: (☐ N/A, water sample/Other:_____) **Date/Initials of Person Examining Contents:** RHL 6/16/20

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐Yes ☒No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐Yes ☒No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present and Filled Out?	☑Yes	☐No		1.
Chain of Custody Relinquished?	☑Yes	☐No		2.
Sampler Name and/or Signature on COC?	☑Yes	☐No	☐N/A	3.
Samples Arrived within Hold Time?	☑Yes	☐No		4.
Short Hold Time Analysis (<72 hr)?	☐Yes	☑No		5. ☐Fecal Coliform ☐HPC ☐Total Coliform/E coli ☐BOD/cBOD ☐Hex Chrome ☐Turbidity ☐Nitrate ☐Nitrite ☐Orthophos ☐Other_____
Rush Turn Around Time Requested?	☐Yes	☑No		6.
Sufficient Volume?	☑Yes	☐No		7.
Correct Containers Used?	☑Yes	☐No		8.
-Pace Containers Used?	☑Yes	☐No		
Containers Intact?	☑Yes	☐No		9.
Field Filtered Volume Received for Dissolved Tests?	☐Yes	☐No	☑N/A	10. Is sediment visible in the dissolved container? ☐Yes ☐No
Is sufficient information available to reconcile the samples to the COC?	☑Yes	☐No		11. **If no, write ID/ Date/Time on Container Below:** **See Exception** ☐
Matrix: ☐Water ☑Soil ☐Oil ☐Other_____				
All containers needing acid/base preservation have been checked?	☐Yes	☐No	☑N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide)	☐Yes	☐No	☑N/A	☐ NaOH ☐ HNO_3 ☐ H_2SO_4 ☐Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☐Yes	☐No	☑N/A	Positive for Res. Chlorine? ☐Yes ☐No **pH Paper Lot#** **See Exception** ☐
				Res. Chlorine | 0-6 Roll | 0-6 Strip | 0-14 Strip
Extra labels present on soil VOA or WIDRO containers?	☐Yes	☐No	☑N/A	13. **See Exception** ☐
Headspace in VOA Vials (greater than 6mm)?	☐Yes	☐No	☑N/A	
Trip Blank Present?	☐Yes	☐No	☑N/A	14.
Trip Blank Custody Seals Present?	☐Yes	☐No	☑N/A	Pace Trip Blank Lot # (if purchased):_____

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐Yes ☐No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: BM **Date:** 6/16/2020

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: RHL (2)

Service Center Transfer Checklist

Service Center: MPLS ☐ BLM ☒ AZ ☐

Client: Braun Intertec

Destination Lab: MPLS ☒ VM ☐ Duluth ☐

National ☐ Other _____

Received w/ Custody Seal ? Yes ☐ No ☑

Custody Seal Intact ? Yes ☐ No ☑

	Temp Read	Corr. Factor	Corr. Temp
Temperature °C	1.8	+0.1	1.9

IR Gun: B88A0143310092 ☐ Samples on ice, in cool down

Rush ☐ **Short Hold** ☐ **N/A** ☑

Containers Intact ? Yes ☑ No ☐

Repacked and Re-Iced ? Yes ☐ No ☑

Notes: _____

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

August 20, 2020

Mark Keefer
Braun Intertec
11001 Hampshire Ave S
Bloomington, MN 55438

RE: Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Dear Mark Keefer:

Enclosed are the analytical results for sample(s) received by the laboratory on June 23, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses were subcontracted outside of the Pace Network. The test report from the external subcontractor is attached to this report in its entirety.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet
- Pace Analytical Services - Duluth
- Pace Analytical Services - Minneapolis

This report was revised on August 20, 2020, to include results of analysis as described in the revised Chain of Custody for Pace samples 10522569004, 007, 010, 012, 013, 016, 019, 021, 025, 028, 030.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bob Michels
bob.michels@pacelabs.com
(612)709-5046
Project Manager

Enclosures

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Pace Analytical Services - Minneapolis MN

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

Pace Analytical Services Duluth Minnesota

4730 Oneota St., Duluth, MN 55807
Minnesota Dept of Ag Certification #: Via MN Dept of Health 027-137-152
Montana DHHS Certification #: CERT0102
Minnesota Dept of Health Certification #: 1733125
Wisconsin Dept of Agriculture Certification #: 480341
Wisconsin DNR Certification # : 999446800
North Dakota Certification #: R-105
Nevada DCNR Certification #: MN000372019-1

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Pace Analytical Services National

Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05
Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Virginia Certification #: VT2006
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 9980939910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

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(612)607-1700

SAMPLE SUMMARY

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10522569002	**ASB-10 (2-2.5)**	Solid	06/22/20 10:51	06/23/20 11:50
10522569004	**ASB-1 (0-0.5)**	Solid	06/22/20 11:19	06/23/20 11:50
10522569005	**ASB-1 (2-2.5)**	Solid	06/22/20 11:26	06/23/20 11:50
10522569007	**ASB-2 (0-0.5)**	Solid	06/22/20 11:52	06/23/20 11:50
10522569008	**ASB-2 (2-2.5)**	Solid	06/22/20 11:59	06/23/20 11:50
10522569010	**ASB-3 (0-0.5)**	Solid	06/22/20 12:27	06/23/20 11:50
10522569011	**ASB-3 (2-2.5)**	Solid	06/22/20 11:34	06/23/20 11:50
10522569012	**ASB-3 (4-4.5)**	Solid	06/22/20 11:40	06/23/20 11:50
10522569013	**ASB-4 (0-0.5)**	Solid	06/22/20 12:57	06/23/20 11:50
10522569014	**ASB-4 (2-2.5)**	Solid	06/22/20 13:05	06/23/20 11:50
10522569016	**ASB-7 (0-0.5)**	Solid	06/22/20 13:30	06/23/20 11:50
10522569017	**ASB-7 (2-2.5)**	Solid	06/22/20 13:40	06/23/20 11:50
10522569019	**ASB-13c (0-0.5)**	Solid	06/22/20 14:23	06/23/20 11:50
10522569020	**ASB-13c (2-2.5)**	Solid	06/22/20 14:30	06/23/20 11:50
10522569021	**ASB-13c (4-4.5)**	Solid	06/22/20 14:15	06/23/20 11:50
10522569022	**DUP-16-06222020**	Solid	06/22/20 12:00	06/23/20 11:50
10522569023	**Equipment Blank (Water)**	Water	06/22/20 15:00	06/23/20 11:50
10522569024	**DUP-17-06222020**	Solid	06/22/20 12:01	06/23/20 11:50
10522569025	**ASB-6c (0-0.5)**	Solid	06/22/20 15:50	06/23/20 11:50
10522569026	**ASB-6c (2-2.5)**	Solid	06/22/20 15:41	06/23/20 11:50
10522569028	**ASB-8c (0-0.5)**	Solid	06/22/20 16:47	06/23/20 11:50
10522569029	**ASB-8c (2-2.5)**	Solid	06/22/20 16:30	06/23/20 11:50
10522569030	**ASB-8c (4-4.5)**	Solid	06/22/20 16:10	06/23/20 11:50
10522569031	**DUP-18-06222020**	Solid	06/22/20 12:02	06/23/20 11:50
10522569032	**MeOH Trip Blank**	Solid	06/22/20 00:00	06/23/20 11:50

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SAMPLE ANALYTE COUNT

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10522569002	**ASB-10 (2-2.5)**	EPA 6010D	IP	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8260D	JHH	71	PAN
		SM 2540G	KBC	1	PAN
10522569004	**ASB-1 (0-0.5)**	EPA 351.2	AXP	1	PASI-DUL
		EPA 353.2	AXP	1	PASI-DUL
		ASTM D 2974-13 (2013)	AXP	1	PASI-DUL
		EPA 7471B	LMW	1	PASI-M
10522569005	**ASB-1 (2-2.5)**	EPA 351.2	BT1	1	PASI-DUL
		EPA 353.2	AXP	1	PASI-DUL
		EPA 6010D	IP	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10522569007	**ASB-2 (0-0.5)**	EPA 351.2	AXP	1	PASI-DUL
		EPA 353.2	AXP	1	PASI-DUL
		ASTM D 2974-13 (2013)	AXP	1	PASI-DUL
		EPA 7471B	LMW	1	PASI-M
10522569008	**ASB-2 (2-2.5)**	EPA 351.2	BT1	1	PASI-DUL
		EPA 353.2	AXP	1	PASI-DUL
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10522569010	**ASB-3 (0-0.5)**	EPA 351.2	AXP	1	PASI-DUL
		EPA 353.2	AXP	1	PASI-DUL
		ASTM D 2974-13 (2013)	AXP	1	PASI-DUL
		EPA 7471B	LMW	1	PASI-M
10522569011	**ASB-3 (2-2.5)**	EPA 351.2	BT1	1	PASI-DUL
		EPA 353.2	AXP	1	PASI-DUL
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10522569012	**ASB-3 (4-4.5)**	EPA 351.2	AXP	1	PASI-DUL
		ASTM D 2974-13 (2013)	AXP	1	PASI-DUL
10522569013	**ASB-4 (0-0.5)**	EPA 7471B	LMW	1	PASI-M
10522569014	**ASB-4 (2-2.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10522569016	**ASB-7 (0-0.5)**	EPA 351.2	AXP	1	PASI-DUL
		EPA 353.2	AXP	1	PASI-DUL

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SAMPLE ANALYTE COUNT

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		ASTM D 2974-13 (2013)	AXP	1	PASI-DUL
		EPA 7471B	LMW	1	PASI-M
10522569017	**ASB-7 (2-2.5)**	EPA 351.2	BT1	1	PASI-DUL
		EPA 353.2	AXP	1	PASI-DUL
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10522569019	**ASB-13c (0-0.5)**	EPA 7471B	LMW	1	PASI-M
10522569020	**ASB-13c (2-2.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10522569021	**ASB-13c (4-4.5)**	EPA 7471B	LMW	1	PASI-M
10522569022	**DUP-16-06222020**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10522569023	**Equipment Blank (Water)**	EPA 351.2	BT1	1	PASI-DUL
		EPA 353.2	AXP	1	PASI-DUL
		EPA 6010D	DM	7	PASI-M
		EPA 7470A	LMW	1	PASI-M
		EPA 8270E by SIM	JZ	18	PASI-M
		EPA 8260D	JHH	70	PAN
10522569024	**DUP-17-06222020**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10522569025	**ASB-6c (0-0.5)**	EPA 7471B	LMW	1	PASI-M
10522569026	**ASB-6c (2-2.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10522569028	**ASB-8c (0-0.5)**	EPA 351.2	AXP	1	PASI-DUL
		EPA 353.2	AXP	1	PASI-DUL
		ASTM D 2974-13 (2013)	AXP	1	PASI-DUL
		EPA 7471B	LMW	1	PASI-M
10522569029	**ASB-8c (2-2.5)**	EPA 351.2	BT1	1	PASI-DUL
		EPA 353.2	AXP	1	PASI-DUL
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10522569030	**ASB-8c (4-4.5)**	EPA 7471B	LMW	1	PASI-M
10522569031	**DUP-18-06222020**	EPA 351.2	BT1	1	PASI-DUL
		EPA 353.2	AXP	1	PASI-DUL
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10522569032	**MeOH Trip Blank**	EPA 8260D	ADM	71	PAN

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(612)607-1700

SAMPLE ANALYTE COUNT

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory

PAN = Pace National - Mt. Juliet
PASI-DUL = Pace Analytical Services - Duluth
PASI-M = Pace Analytical Services - Minneapolis

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Minneapolis, MN 55414
(612)607-1700

SUMMARY OF DETECTION

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10522569002	**ASB-10 (2-2.5)**					
EPA 6010D	Arsenic	1.4	mg/kg	1.1	06/28/20 12:58	
EPA 6010D	Barium	61.2	mg/kg	0.56	06/28/20 12:58	M1
EPA 6010D	Chromium	20.9	mg/kg	0.56	06/28/20 12:58	
EPA 6010D	Lead	4.9	mg/kg	0.56	06/28/20 12:58	
ASTM D2974	Percent Moisture	14.8	%	0.10	07/01/20 11:51	N2
SM 2540G	Total Solids	86.0	%		07/01/20 01:51	
10522569004	**ASB-1 (0-0.5)**					
EPA 351.2	Nitrogen, Kjeldahl, Total	351	mg/kg	57.7	08/10/20 12:49	
EPA 353.2	Nitrogen, NO2 plus NO3	1.1	mg/kg	0.23	08/06/20 13:27	N2
ASTM D 2974-13 (2013)	Percent Moisture	13.3	%	0.10	08/12/20 17:58	
EPA 7471B	Mercury	0.042	mg/kg	0.018	07/27/20 17:54	
10522569005	**ASB-1 (2-2.5)**					
EPA 351.2	Nitrogen, Kjeldahl, Total	298	mg/kg	50.2	07/02/20 12:26	
EPA 6010D	Arsenic	2.4	mg/kg	1.1	06/28/20 13:13	
EPA 6010D	Barium	57.2	mg/kg	0.54	06/28/20 13:13	
EPA 6010D	Chromium	20.4	mg/kg	0.54	06/28/20 13:13	
EPA 6010D	Lead	5.0	mg/kg	0.54	06/28/20 13:13	
ASTM D2974	Percent Moisture	13.4	%	0.10	07/01/20 11:51	N2
10522569007	**ASB-2 (0-0.5)**					
EPA 351.2	Nitrogen, Kjeldahl, Total	448	mg/kg	58.9	08/10/20 12:50	
EPA 353.2	Nitrogen, NO2 plus NO3	1.7	mg/kg	0.23	08/06/20 13:30	N2
ASTM D 2974-13 (2013)	Percent Moisture	15.2	%	0.10	08/12/20 17:58	
EPA 7471B	Mercury	0.024	mg/kg	0.018	07/27/20 17:59	
10522569008	**ASB-2 (2-2.5)**					
EPA 351.2	Nitrogen, Kjeldahl, Total	355	mg/kg	56.0	06/30/20 15:57	
EPA 353.2	Nitrogen, NO2 plus NO3	0.38	mg/kg	0.23	06/30/20 12:16	N2
ASTM D2974	Percent Moisture	15.0	%	0.10	07/01/20 11:51	N2
10522569010	**ASB-3 (0-0.5)**					
EPA 351.2	Nitrogen, Kjeldahl, Total	340	mg/kg	49.7	08/10/20 12:51	
EPA 353.2	Nitrogen, NO2 plus NO3	1.1	mg/kg	0.22	08/06/20 13:32	N2
ASTM D 2974-13 (2013)	Percent Moisture	8.5	%	0.10	08/12/20 17:58	
EPA 7471B	Mercury	0.15	mg/kg	0.019	07/27/20 18:01	
10522569011	**ASB-3 (2-2.5)**					
EPA 351.2	Nitrogen, Kjeldahl, Total	2640	mg/kg	114	06/30/20 16:15	
EPA 353.2	Nitrogen, NO2 plus NO3	0.28	mg/kg	0.25	06/30/20 12:17	N2
EPA 7471B	Mercury	0.048	mg/kg	0.022	06/30/20 11:53	
ASTM D2974	Percent Moisture	20.0	%	0.10	07/01/20 11:51	N2
10522569012	**ASB-3 (4-4.5)**					
EPA 351.2	Nitrogen, Kjeldahl, Total	332	mg/kg	55.3	08/10/20 12:52	
ASTM D 2974-13 (2013)	Percent Moisture	13.9	%	0.10	08/12/20 17:58	
10522569014	**ASB-4 (2-2.5)**					
ASTM D2974	Percent Moisture	8.0	%	0.10	07/01/20 11:51	N2

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10522569016	**ASB-7 (0-0.5)**					
EPA 351.2	Nitrogen, Kjeldahl, Total	2060	mg/kg	58.7	08/10/20 12:54	
EPA 353.2	Nitrogen, NO2 plus NO3	10.4	mg/kg	0.25	08/06/20 13:33	N2
ASTM D 2974-13 (2013)	Percent Moisture	18.9	%	0.10	08/12/20 17:58	
EPA 7471B	Mercury	0.036	mg/kg	0.018	07/27/20 18:08	
10522569017	**ASB-7 (2-2.5)**					
EPA 351.2	Nitrogen, Kjeldahl, Total	515	mg/kg	62.2	06/30/20 16:01	
EPA 353.2	Nitrogen, NO2 plus NO3	5.4	mg/kg	0.24	06/30/20 12:18	N2
EPA 7471B	Mercury	0.048	mg/kg	0.023	06/30/20 11:58	
ASTM D2974	Percent Moisture	19.6	%	0.10	07/01/20 11:52	N2
10522569019	**ASB-13c (0-0.5)**					
EPA 7471B	Mercury	14.6	mg/kg	0.38	07/27/20 22:57	
10522569020	**ASB-13c (2-2.5)**					
EPA 7471B	Mercury	1.3	mg/kg	0.046	06/30/20 12:21	
ASTM D2974	Percent Moisture	13.4	%	0.10	07/01/20 11:52	N2
10522569021	**ASB-13c (4-4.5)**					
EPA 7471B	Mercury	0.16	mg/kg	0.018	07/27/20 18:13	
10522569022	**DUP-16-06222020**					
EPA 7471B	Mercury	4.2	mg/kg	0.21	06/30/20 12:23	
ASTM D2974	Percent Moisture	13.3	%	0.10	07/01/20 11:52	N2
10522569023	**Equipment Blank (Water)**					
EPA 8270E by SIM	Anthracene	0.066	ug/L	0.044	06/26/20 14:02	
EPA 8270E by SIM	Benzo(a)anthracene	0.12	ug/L	0.044	06/26/20 14:02	B
EPA 8270E by SIM	Benzo(b)fluoranthene	0.10	ug/L	0.044	06/26/20 14:02	B
EPA 8270E by SIM	Chrysene	0.087	ug/L	0.044	06/26/20 14:02	B
EPA 8270E by SIM	Fluoranthene	0.49	ug/L	0.044	06/26/20 14:02	B
EPA 8270E by SIM	Phenanthrene	0.31	ug/L	0.044	06/26/20 14:02	
EPA 8270E by SIM	Pyrene	0.47	ug/L	0.044	06/26/20 14:02	B
10522569024	**DUP-17-06222020**					
ASTM D2974	Percent Moisture	14.9	%	0.10	07/01/20 11:52	N2
10522569025	**ASB-6c (0-0.5)**					
EPA 7471B	Mercury	0.21	mg/kg	0.020	07/27/20 18:15	
10522569026	**ASB-6c (2-2.5)**					
ASTM D2974	Percent Moisture	11.7	%	0.10	07/01/20 11:52	N2
10522569028	**ASB-8c (0-0.5)**					
EPA 351.2	Nitrogen, Kjeldahl, Total	1370	mg/kg	55.5	08/10/20 12:55	
EPA 353.2	Nitrogen, NO2 plus NO3	0.97	mg/kg	0.24	08/06/20 13:36	N2
ASTM D 2974-13 (2013)	Percent Moisture	18.2	%	0.10	08/12/20 17:58	
EPA 7471B	Mercury	1.1	mg/kg	0.038	07/27/20 22:59	
10522569029	**ASB-8c (2-2.5)**					
EPA 351.2	Nitrogen, Kjeldahl, Total	2170	mg/kg	55.7	06/30/20 16:02	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10522569029	**ASB-8c (2-2.5)**					
EPA 353.2	Nitrogen, NO2 plus NO3	0.31	mg/kg	0.23	06/30/20 12:19	N2
EPA 7471B	Mercury	0.58	mg/kg	0.023	06/30/20 12:12	
ASTM D2974	Percent Moisture	14.5	%	0.10	07/01/20 11:53	N2
10522569030	**ASB-8c (4-4.5)**					
EPA 7471B	Mercury	0.037	mg/kg	0.019	07/27/20 18:18	
10522569031	**DUP-18-06222020**					
EPA 351.2	Nitrogen, Kjeldahl, Total	807	mg/kg	54.5	06/30/20 16:04	
EPA 353.2	Nitrogen, NO2 plus NO3	0.33	mg/kg	0.24	06/30/20 12:20	N2
EPA 7471B	Mercury	0.14	mg/kg	0.023	06/30/20 12:25	
ASTM D2974	Percent Moisture	16.6	%	0.10	07/01/20 11:53	N2

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Method: **EPA 351.2**
Description: 351.2 Total Kjeldahl Nitrogen
Client: Braun Intertec Corporation
Date: August 20, 2020

General Information:
12 samples were analyzed for EPA 351.2 by Pace Analytical Services Duluth. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 351.2 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 192624

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10522687002,12146053011

M6: Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

- MS (Lab ID: 759366)

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Method: **EPA 351.2**
Description: 351.2 Total Kjeldahl Nitrogen
Client: Braun Intertec Corporation
Date: August 20, 2020

QC Batch: 192624

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10522687002,12146053011

M6: Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

- Nitrogen, Kjeldahl, Total

QC Batch: 195443

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10522569012,12148110001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 772363)
  - Nitrogen, Kjeldahl, Total
- MSD (Lab ID: 772364)
  - Nitrogen, Kjeldahl, Total

Additional Comments:

Analyte Comments:

QC Batch: 195443

3M: The samples were kept frozen; thawed and extracted within the 6 month holding time as indicated by Minnesota Department of Agriculture Guidance Document 11 for extractions and analysis.

- MS (Lab ID: 772363)
  - Nitrogen, Kjeldahl, Total
- MSD (Lab ID: 772364)
  - Nitrogen, Kjeldahl, Total

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Method: **EPA 351.2**
Description: 351.2 Total Kjeldahl Nitrogen
Client: Braun Intertec Corporation
Date: August 20, 2020

General Information:
1 sample was analyzed for EPA 351.2 by Pace Analytical Services Duluth. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 351.2 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3
Client: Braun Intertec Corporation
Date: August 20, 2020

General Information:
11 samples were analyzed for EPA 353.2 by Pace Analytical Services Duluth. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 353.2 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 195312

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10522569004,10525347042

P6: Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

- MS (Lab ID: 771846)
  - Nitrogen, NO2 plus NO3

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3
Client: Braun Intertec Corporation
Date: August 20, 2020

QC Batch: 195312

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10522569004,10525347042

P6: Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

- MSD (Lab ID: 771847)
  - Nitrogen, NO2 plus NO3

Additional Comments:

Analyte Comments:

QC Batch: 192504

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- ASB-1 (2-2.5) (Lab ID: 10522569005)
  - Nitrogen, NO2 plus NO3
- ASB-2 (2-2.5) (Lab ID: 10522569008)
  - Nitrogen, NO2 plus NO3
- ASB-3 (2-2.5) (Lab ID: 10522569011)
  - Nitrogen, NO2 plus NO3
- ASB-7 (2-2.5) (Lab ID: 10522569017)
  - Nitrogen, NO2 plus NO3
- ASB-8c (2-2.5) (Lab ID: 10522569029)
  - Nitrogen, NO2 plus NO3
- BLANK (Lab ID: 758699)
  - Nitrogen, NO2 plus NO3
- DUP-18-06222020 (Lab ID: 10522569031)
  - Nitrogen, NO2 plus NO3
- LCS (Lab ID: 758698)
  - Nitrogen, NO2 plus NO3
- MS (Lab ID: 758700)
  - Nitrogen, NO2 plus NO3
- MS (Lab ID: 758711)
  - Nitrogen, NO2 plus NO3
- MSD (Lab ID: 758701)
  - Nitrogen, NO2 plus NO3
- MSD (Lab ID: 758712)
  - Nitrogen, NO2 plus NO3

QC Batch: 195312

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- ASB-1 (0-0.5) (Lab ID: 10522569004)
  - Nitrogen, NO2 plus NO3
- ASB-2 (0-0.5) (Lab ID: 10522569007)
  - Nitrogen, NO2 plus NO3

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3
Client: Braun Intertec Corporation
Date: August 20, 2020

Analyte Comments:

QC Batch: 195312

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- ASB-3 (0-0.5) (Lab ID: 10522569010)
  - Nitrogen, NO2 plus NO3
- ASB-7 (0-0.5) (Lab ID: 10522569016)
  - Nitrogen, NO2 plus NO3
- ASB-8c (0-0.5) (Lab ID: 10522569028)
  - Nitrogen, NO2 plus NO3
- BLANK (Lab ID: 771843)
  - Nitrogen, NO2 plus NO3
- LCS (Lab ID: 771842)
  - Nitrogen, NO2 plus NO3
- MS (Lab ID: 771844)
  - Nitrogen, NO2 plus NO3
- MS (Lab ID: 771846)
  - Nitrogen, NO2 plus NO3
- MSD (Lab ID: 771845)
  - Nitrogen, NO2 plus NO3
- MSD (Lab ID: 771847)
  - Nitrogen, NO2 plus NO3

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Method: **EPA 353.2**
Description: 353.2 Nitrate + Nitrite pres.
Client: Braun Intertec Corporation
Date: August 20, 2020

General Information:
1 sample was analyzed for EPA 353.2 by Pace Analytical Services Duluth. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Method: **ASTM D 2974-13 (2013)**
Description: Dry Weight, Duluth
Client: Braun Intertec Corporation
Date: August 20, 2020

General Information:
6 samples were analyzed for ASTM D 2974-13 (2013) by Pace Analytical Services Duluth. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Method: **EPA 6010D**
Description: 6010D MET ICP
Client: Braun Intertec Corporation
Date: August 20, 2020

General Information:
3 samples were analyzed for EPA 6010D by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010A with any exceptions noted below.
The samples were prepared in accordance with EPA 3050B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 683241

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10522569002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 3655748)
  - Barium

Additional Comments:

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Method: **EPA 7470A**
Description: 7470A Mercury
Client: Braun Intertec Corporation
Date: August 20, 2020

General Information:
1 sample was analyzed for EPA 7470A by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Method: **EPA 7471B**
Description: 7471B Mercury
Client: Braun Intertec Corporation
Date: August 20, 2020

General Information:
22 samples were analyzed for EPA 7471B by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7471B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Method: **EPA 7471B**
Description: 7471B Mercury
Client: Braun Intertec Corporation
Date: August 20, 2020

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Method: **EPA 8270E by SIM**
Description: 8270E MSSV PAH by SIM
Client: Braun Intertec Corporation
Date: August 20, 2020

General Information:
1 sample was analyzed for EPA 8270E by SIM by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H1: Sample re-extracted and analyzed outside of EPA method holding time.
- Equipment Blank (Water) (Lab ID: 10522569023)

Sample Preparation:
The samples were prepared in accordance with EPA Mod. 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: 683402

B: Analyte was detected in the associated method blank.
- BLANK for HBN 683402 [OEXT/546 (Lab ID: 3656346)
  - Benzo(a)anthracene
  - Benzo(b)fluoranthene
  - Chrysene
  - Fluoranthene
  - Pyrene

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 683402

R1: RPD value was outside control limits.
- LCSD (Lab ID: 3656348)
  - Acenaphthene

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Method: **EPA 8270E by SIM**
Description: 8270E MSSV PAH by SIM
Client: Braun Intertec Corporation
Date: August 20, 2020

QC Batch: 683402

R1: RPD value was outside control limits.

- Acenaphthylene
- Benzo(a)anthracene
- Benzo(k)fluoranthene
- Fluoranthene
- Naphthalene
- Pyrene

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 683402

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Analyte Comments:

QC Batch: 683402

1M: Analyte was detected method blank. Reported samples are ND for this analyte

- BLANK (Lab ID: 3656346)
  - Benzo(k)fluoranthene
  - Benzo(g,h,i)perylene
  - Benzo(a)anthracene
  - Benzo(b)fluoranthene
  - Benzo(a)pyrene
  - Chrysene
  - Fluoranthene
  - Indeno(1,2,3-cd)pyrene
  - Phenanthrene
  - Pyrene

2M: Results not confirmed by second analysis.

- Equipment Blank (Water) (Lab ID: 10522569023)
  - 2-Fluorobiphenyl (S)

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Method: **EPA 8260D**
Description: VOA (GC/MS) 8260D
Client: Braun Intertec Corporation
Date: August 20, 2020

General Information:
3 samples were analyzed for EPA 8260D by Pace National Mt. Juliet. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

QC Batch: 1503871

CC: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The result may be biased.
- Equipment Blank (Water) (Lab ID: 10522569023)
  - Chloromethane

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 1503026

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
- LCSD (Lab ID: R3545605-2)
  - 1,3,5-Trimethylbenzene
  - 1,3-Dichloropropane
  - Toluene
  - cis-1,3-Dichloropropene

R1: RPD value was outside control limits.
- LCSD (Lab ID: R3545605-2)
  - 1,1,2-Trichlorotrifluoroethane

QC Batch: 1503871

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
- LCS (Lab ID: R3546270-1)

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Method: **EPA 8260D**
Description: VOA (GC/MS) 8260D
Client: Braun Intertec Corporation
Date: August 20, 2020

QC Batch: 1503871

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- Diethyl ether (Ethyl ether)
- Methylene Chloride
- Trichloroethene

- LCSD (Lab ID: R3546270-2)
  - Trichloroethene

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Method: **SM 2540G**
Description: Total Solids 2540 G-2011
Client: Braun Intertec Corporation
Date: August 20, 2020

General Information:
1 sample was analyzed for SM 2540G by Pace National Mt. Juliet. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Sample: ASB-10 (2-2.5) **Lab ID: 10522569002** Collected: 06/22/20 10:51 Received: 06/23/20 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**1.4**	mg/kg	1.1	1	06/25/20 14:47	06/28/20 12:58	7440-38-2	
Barium	**61.2**	mg/kg	0.56	1	06/25/20 14:47	06/28/20 12:58	7440-39-3	M1
Cadmium	ND	mg/kg	0.17	1	06/25/20 14:47	06/28/20 12:58	7440-43-9	
Chromium	**20.9**	mg/kg	0.56	1	06/25/20 14:47	06/28/20 12:58	7440-47-3	
Lead	**4.9**	mg/kg	0.56	1	06/25/20 14:47	06/28/20 12:58	7439-92-1	
Selenium	ND	mg/kg	1.1	1	06/25/20 14:47	06/28/20 12:58	7782-49-2	
Silver	ND	mg/kg	0.56	1	06/25/20 14:47	06/28/20 12:58	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.022	1	06/25/20 16:28	06/30/20 11:36	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**14.8**	%	0.10	1		07/01/20 11:51		N2
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Acetone	ND	mg/kg	2.91	2	06/22/20 10:51	07/02/20 19:10	67-64-1	
Allyl chloride	ND	mg/kg	1.45	2	06/22/20 10:51	07/02/20 19:10	107-05-1	
Benzene	ND	mg/kg	0.0582	2	06/22/20 10:51	07/02/20 19:10	71-43-2	
Bromobenzene	ND	mg/kg	0.727	2	06/22/20 10:51	07/02/20 19:10	108-86-1	
Bromochloromethane	ND	mg/kg	0.291	2	06/22/20 10:51	07/02/20 19:10	74-97-5	
Bromodichloromethane	ND	mg/kg	0.145	2	06/22/20 10:51	07/02/20 19:10	75-27-4	
Bromoform	ND	mg/kg	1.45	2	06/22/20 10:51	07/02/20 19:10	75-25-2	
Bromomethane	ND	mg/kg	0.727	2	06/22/20 10:51	07/02/20 19:10	74-83-9	
n-Butylbenzene	ND	mg/kg	0.727	2	06/22/20 10:51	07/02/20 19:10	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.727	2	06/22/20 10:51	07/02/20 19:10	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.291	2	06/22/20 10:51	07/02/20 19:10	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.291	2	06/22/20 10:51	07/02/20 19:10	56-23-5	
Chlorobenzene	ND	mg/kg	0.145	2	06/22/20 10:51	07/02/20 19:10	108-90-7	
Dibromochloromethane	ND	mg/kg	0.145	2	06/22/20 10:51	07/02/20 19:10	124-48-1	
Chloroethane	ND	mg/kg	0.291	2	06/22/20 10:51	07/02/20 19:10	75-00-3	
Chloroform	ND	mg/kg	0.145	2	06/22/20 10:51	07/02/20 19:10	67-66-3	
Chloromethane	ND	mg/kg	0.727	2	06/22/20 10:51	07/02/20 19:10	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.145	2	06/22/20 10:51	07/02/20 19:10	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.291	2	06/22/20 10:51	07/02/20 19:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	1.45	2	06/22/20 10:51	07/02/20 19:10	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.145	2	06/22/20 10:51	07/02/20 19:10	106-93-4	
Dibromomethane	ND	mg/kg	0.291	2	06/22/20 10:51	07/02/20 19:10	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.291	2	06/22/20 10:51	07/02/20 19:10	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.291	2	06/22/20 10:51	07/02/20 19:10	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.291	2	06/22/20 10:51	07/02/20 19:10	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.145	2	06/22/20 10:51	07/02/20 19:10	75-71-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Sample: ASB-10 (2-2.5) **Lab ID: 10522569002** Collected: 06/22/20 10:51 Received: 06/23/20 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Dichlorofluoromethane	ND	mg/kg	0.145	2	06/22/20 10:51	07/02/20 19:10	75-43-4	
1,1-Dichloroethane	ND	mg/kg	0.145	2	06/22/20 10:51	07/02/20 19:10	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.145	2	06/22/20 10:51	07/02/20 19:10	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.145	2	06/22/20 10:51	07/02/20 19:10	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.145	2	06/22/20 10:51	07/02/20 19:10	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.291	2	06/22/20 10:51	07/02/20 19:10	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.291	2	06/22/20 10:51	07/02/20 19:10	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.145	2	06/22/20 10:51	07/02/20 19:10	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.291	2	06/22/20 10:51	07/02/20 19:10	142-28-9	L0
cis-1,3-Dichloropropene	ND	mg/kg	0.145	2	06/22/20 10:51	07/02/20 19:10	10061-01-5	L0
trans-1,3-Dichloropropene	ND	mg/kg	0.291	2	06/22/20 10:51	07/02/20 19:10	10061-02-6	
2,2-Dichloropropane	ND	mg/kg	0.145	2	06/22/20 10:51	07/02/20 19:10	594-20-7	
Diisopropyl ether	ND	mg/kg	0.0582	2	06/22/20 10:51	07/02/20 19:10	108-20-3	
Ethylbenzene	ND	mg/kg	0.145	2	06/22/20 10:51	07/02/20 19:10	100-41-4	
Diethyl ether (Ethyl ether)	ND	mg/kg	0.145	2	06/22/20 10:51	07/02/20 19:10	60-29-7	
Hexachloro-1,3-butadiene	ND	mg/kg	1.45	2	06/22/20 10:51	07/02/20 19:10	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.145	2	06/22/20 10:51	07/02/20 19:10	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.291	2	06/22/20 10:51	07/02/20 19:10	99-87-6	
2-Butanone (MEK)	ND	mg/kg	5.82	2	06/22/20 10:51	07/02/20 19:10	78-93-3	
Methylene Chloride	ND	mg/kg	1.45	2	06/22/20 10:51	07/02/20 19:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	1.45	2	06/22/20 10:51	07/02/20 19:10	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0582	2	06/22/20 10:51	07/02/20 19:10	1634-04-4	
Naphthalene	ND	mg/kg	0.727	2	06/22/20 10:51	07/02/20 19:10	91-20-3	
n-Propylbenzene	ND	mg/kg	0.291	2	06/22/20 10:51	07/02/20 19:10	103-65-1	
Styrene	ND	mg/kg	0.727	2	06/22/20 10:51	07/02/20 19:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.145	2	06/22/20 10:51	07/02/20 19:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.145	2	06/22/20 10:51	07/02/20 19:10	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.145	2	06/22/20 10:51	07/02/20 19:10	76-13-1	R1
Tetrachloroethene	ND	mg/kg	0.145	2	06/22/20 10:51	07/02/20 19:10	127-18-4	
Tetrahydrofuran	ND	mg/kg	0.727	2	06/22/20 10:51	07/02/20 19:10	109-99-9	
Toluene	ND	mg/kg	0.291	2	06/22/20 10:51	07/02/20 19:10	108-88-3	L0
1,2,3-Trichlorobenzene	ND	mg/kg	0.727	2	06/22/20 10:51	07/02/20 19:10	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.727	2	06/22/20 10:51	07/02/20 19:10	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.145	2	06/22/20 10:51	07/02/20 19:10	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.145	2	06/22/20 10:51	07/02/20 19:10	79-00-5	
Trichloroethene	ND	mg/kg	0.0582	2	06/22/20 10:51	07/02/20 19:10	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.145	2	06/22/20 10:51	07/02/20 19:10	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.727	2	06/22/20 10:51	07/02/20 19:10	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.291	2	06/22/20 10:51	07/02/20 19:10	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.291	2	06/22/20 10:51	07/02/20 19:10	108-67-8	L0
Vinyl chloride	ND	mg/kg	0.145	2	06/22/20 10:51	07/02/20 19:10	75-01-4	
Xylene (Total)	ND	mg/kg	0.378	2	06/22/20 10:51	07/02/20 19:10	1330-20-7	
Surrogates								
Toluene-d8 (S)	107	%	75.0-131	2	06/22/20 10:51	07/02/20 19:10	2037-26-5	
4-Bromofluorobenzene (S)	99.6	%	67.0-138	2	06/22/20 10:51	07/02/20 19:10	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Sample: ASB-10 (2-2.5) **Lab ID: 10522569002** Collected: 06/22/20 10:51 Received: 06/23/20 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Surrogates								
1,2-Dichloroethane-d4 (S)	112	%	70.0-130	2	06/22/20 10:51	07/02/20 19:10	17060-07-0	
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet							
Total Solids	**86.0**	%		1	07/01/20 01:36	07/01/20 01:51		

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Sample: ASB-1 (0-0.5) **Lab ID: 10522569004** Collected: 06/22/20 11:19 Received: 06/23/20 11:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Duluth							
Nitrogen, Kjeldahl, Total	**351**	mg/kg	57.7	1	08/07/20 09:49	08/10/20 12:49	7727-37-9	
353.2 Nitrogen, NO2/NO3	Analytical Method: EPA 353.2 Preparation Method: EPA 353.2 Pace Analytical Services - Duluth							
Nitrogen, NO2 plus NO3	**1.1**	mg/kg	0.23	1	08/06/20 11:37	08/06/20 13:27		
Dry Weight, Duluth	Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Duluth							
Percent Moisture	**13.3**	%	0.10	1		08/12/20 17:58		
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.042**	mg/kg	0.018	1	07/23/20 10:48	07/27/20 17:54	7439-97-6	

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Sample: ASB-1 (2-2.5) **Lab ID: 10522569005** Collected: 06/22/20 11:26 Received: 06/23/20 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Duluth							
Nitrogen, Kjeldahl, Total	**298**	mg/kg	50.2	1	07/01/20 15:45	07/02/20 12:26	7727-37-9	
353.2 Nitrogen, NO2/NO3	Analytical Method: EPA 353.2 Preparation Method: EPA 353.2 Pace Analytical Services - Duluth							
Nitrogen, NO2 plus NO3	ND	mg/kg	0.23	1	06/30/20 09:36	06/30/20 11:53		N2
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**2.4**	mg/kg	1.1	1	06/25/20 14:47	06/28/20 13:13	7440-38-2	
Barium	**57.2**	mg/kg	0.54	1	06/25/20 14:47	06/28/20 13:13	7440-39-3	
Cadmium	ND	mg/kg	0.16	1	06/25/20 14:47	06/28/20 13:13	7440-43-9	
Chromium	**20.4**	mg/kg	0.54	1	06/25/20 14:47	06/28/20 13:13	7440-47-3	
Lead	**5.0**	mg/kg	0.54	1	06/25/20 14:47	06/28/20 13:13	7439-92-1	
Selenium	ND	mg/kg	1.1	1	06/25/20 14:47	06/28/20 13:13	7782-49-2	
Silver	ND	mg/kg	0.54	1	06/25/20 14:47	06/28/20 13:13	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.022	1	06/25/20 16:28	06/30/20 11:38	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**13.4**	%	0.10	1		07/01/20 11:51		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Sample: ASB-2 (0-0.5) **Lab ID: 10522569007** Collected: 06/22/20 11:52 Received: 06/23/20 11:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Duluth							
Nitrogen, Kjeldahl, Total	**448**	mg/kg	58.9	1	08/07/20 09:49	08/10/20 12:50	7727-37-9	
353.2 Nitrogen, NO2/NO3	Analytical Method: EPA 353.2 Preparation Method: EPA 353.2 Pace Analytical Services - Duluth							
Nitrogen, NO2 plus NO3	**1.7**	mg/kg	0.23	1	08/06/20 11:37	08/06/20 13:30		
Dry Weight, Duluth	Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Duluth							
Percent Moisture	**15.2**	%	0.10	1		08/12/20 17:58		
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.024**	mg/kg	0.018	1	07/23/20 10:48	07/27/20 17:59	7439-97-6	

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Sample: ASB-2 (2-2.5) **Lab ID: 10522569008** Collected: 06/22/20 11:59 Received: 06/23/20 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Duluth							
Nitrogen, Kjeldahl, Total	**355**	mg/kg	56.0	1	06/29/20 13:10	06/30/20 15:57	7727-37-9	
353.2 Nitrogen, NO2/NO3	Analytical Method: EPA 353.2 Preparation Method: EPA 353.2 Pace Analytical Services - Duluth							
Nitrogen, NO2 plus NO3	**0.38**	mg/kg	0.23	1	06/30/20 09:36	06/30/20 12:16		N2
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.022	1	06/25/20 16:28	06/30/20 11:46	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**15.0**	%	0.10	1		07/01/20 11:51		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Sample: ASB-3 (0-0.5) **Lab ID: 10522569010** Collected: 06/22/20 12:27 Received: 06/23/20 11:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Duluth							
Nitrogen, Kjeldahl, Total	**340**	mg/kg	49.7	1	08/07/20 09:49	08/10/20 12:51	7727-37-9	
353.2 Nitrogen, NO2/NO3	Analytical Method: EPA 353.2 Preparation Method: EPA 353.2 Pace Analytical Services - Duluth							
Nitrogen, NO2 plus NO3	**1.1**	mg/kg	0.22	1	08/06/20 11:37	08/06/20 13:32		N2
Dry Weight, Duluth	Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Duluth							
Percent Moisture	**8.5**	%	0.10	1		08/12/20 17:58		
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.15**	mg/kg	0.019	1	07/23/20 10:48	07/27/20 18:01	7439-97-6	

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Sample: ASB-3 (2-2.5) **Lab ID: 10522569011** Collected: 06/22/20 11:34 Received: 06/23/20 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Duluth							
Nitrogen, Kjeldahl, Total	**2640**	mg/kg	114	2	06/29/20 13:10	06/30/20 16:15	7727-37-9	
353.2 Nitrogen, NO2/NO3	Analytical Method: EPA 353.2 Preparation Method: EPA 353.2 Pace Analytical Services - Duluth							
Nitrogen, NO2 plus NO3	**0.28**	mg/kg	0.25	1	06/30/20 09:36	06/30/20 12:17		N2
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.048**	mg/kg	0.022	1	06/25/20 16:28	06/30/20 11:53	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**20.0**	%	0.10	1		07/01/20 11:51		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Sample: ASB-3 (4-4.5) **Lab ID: 10522569012** Collected: 06/22/20 11:40 Received: 06/23/20 11:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Duluth							
Nitrogen, Kjeldahl, Total	**332**	mg/kg	55.3	1	08/07/20 09:49	08/10/20 12:52	7727-37-9	H3
Dry Weight, Duluth	Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Duluth							
Percent Moisture	**13.9**	%	0.10	1		08/12/20 17:58		

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Sample: ASB-4 (0-0.5) **Lab ID: 10522569013** Collected: 06/22/20 12:57 Received: 06/23/20 11:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.018	1	07/23/20 10:48	07/27/20 18:02	7439-97-6	

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Sample: ASB-4 (2-2.5) **Lab ID: 10522569014** Collected: 06/22/20 13:05 Received: 06/23/20 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.022	1	06/25/20 16:28	06/30/20 11:55	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**8.0**	%	0.10	1		07/01/20 11:51		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Sample: ASB-7 (0-0.5) **Lab ID: 10522569016** Collected: 06/22/20 13:30 Received: 06/23/20 11:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Duluth							
Nitrogen, Kjeldahl, Total	**2060**	mg/kg	58.7	1	08/07/20 09:49	08/10/20 12:54	7727-37-9	
353.2 Nitrogen, NO2/NO3	Analytical Method: EPA 353.2 Preparation Method: EPA 353.2 Pace Analytical Services - Duluth							
Nitrogen, NO2 plus NO3	**10.4**	mg/kg	0.25	1	08/06/20 11:37	08/06/20 13:33		N2
Dry Weight, Duluth	Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Duluth							
Percent Moisture	**18.9**	%	0.10	1		08/12/20 17:58		
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.036**	mg/kg	0.018	1	07/23/20 10:48	07/27/20 18:08	7439-97-6	

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Sample: ASB-7 (2-2.5) **Lab ID: 10522569017** Collected: 06/22/20 13:40 Received: 06/23/20 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Duluth							
Nitrogen, Kjeldahl, Total	**515**	mg/kg	62.2	1	06/29/20 13:10	06/30/20 16:01	7727-37-9	
353.2 Nitrogen, NO2/NO3	Analytical Method: EPA 353.2 Preparation Method: EPA 353.2 Pace Analytical Services - Duluth							
Nitrogen, NO2 plus NO3	**5.4**	mg/kg	0.24	1	06/30/20 09:36	06/30/20 12:18		N2
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.048**	mg/kg	0.023	1	06/25/20 16:28	06/30/20 11:58	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**19.6**	%	0.10	1		07/01/20 11:52		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Sample: ASB-13c (0-0.5) **Lab ID: 10522569019** Collected: 06/22/20 14:23 Received: 06/23/20 11:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**14.6**	mg/kg	0.38	20	07/23/20 10:48	07/27/20 22:57	7439-97-6	

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Sample: ASB-13c (2-2.5) **Lab ID: 10522569020** Collected: 06/22/20 14:30 Received: 06/23/20 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**1.3**	mg/kg	0.046	2	06/25/20 16:28	06/30/20 12:21	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**13.4**	%	0.10	1		07/01/20 11:52		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Sample: ASB-13c (4-4.5) **Lab ID: 10522569021** Collected: 06/22/20 14:15 Received: 06/23/20 11:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.16**	mg/kg	0.018	1	07/23/20 10:48	07/27/20 18:13	7439-97-6	

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Sample: DUP-16-06222020 **Lab ID: 10522569022** Collected: 06/22/20 12:00 Received: 06/23/20 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**4.2**	mg/kg	0.21	10	06/25/20 16:28	06/30/20 12:23	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**13.3**	%	0.10	1		07/01/20 11:52		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Sample: Equipment Blank (Water) **Lab ID: 10522569023** Collected: 06/22/20 15:00 Received: 06/23/20 11:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Duluth							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.50	1	07/01/20 15:45	07/02/20 11:56	7727-37-9	
353.2 Nitrate + Nitrite pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Duluth							
Nitrogen, NO2 plus NO3	ND	mg/L	0.020	1		06/30/20 11:15		
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis							
Arsenic	ND	ug/L	20.0	1	06/25/20 08:01	06/25/20 15:38	7440-38-2	
Barium	ND	ug/L	10.0	1	06/25/20 08:01	06/25/20 15:38	7440-39-3	
Cadmium	ND	ug/L	3.0	1	06/25/20 08:01	06/25/20 15:38	7440-43-9	
Chromium	ND	ug/L	10.0	1	06/25/20 08:01	06/25/20 15:38	7440-47-3	
Lead	ND	ug/L	10.0	1	06/25/20 08:01	06/25/20 15:38	7439-92-1	
Selenium	ND	ug/L	20.0	1	06/25/20 08:01	06/25/20 15:38	7782-49-2	
Silver	ND	ug/L	10.0	1	06/25/20 08:01	06/25/20 15:38	7440-22-4	
7470A Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Minneapolis							
Mercury	ND	ug/L	0.20	1	06/25/20 10:17	06/25/20 11:31	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA Mod. 3510C Pace Analytical Services - Minneapolis							
Acenaphthene	ND	ug/L	0.044	1	06/25/20 17:13	06/26/20 14:02	83-32-9	
Acenaphthylene	ND	ug/L	0.044	1	06/25/20 17:13	06/26/20 14:02	208-96-8	
Anthracene	**0.066**	ug/L	0.044	1	06/25/20 17:13	06/26/20 14:02	120-12-7	
Benzo(a)anthracene	**0.12**	ug/L	0.044	1	06/25/20 17:13	06/26/20 14:02	56-55-3	B
Benzo(a)pyrene	ND	ug/L	0.044	1	06/25/20 17:13	06/26/20 14:02	50-32-8	
Benzo(b)fluoranthene	**0.10**	ug/L	0.044	1	06/25/20 17:13	06/26/20 14:02	205-99-2	B
Benzo(g,h,i)perylene	ND	ug/L	0.044	1	06/25/20 17:13	06/26/20 14:02	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.044	1	06/25/20 17:13	06/26/20 14:02	207-08-9	
Chrysene	**0.087**	ug/L	0.044	1	06/25/20 17:13	06/26/20 14:02	218-01-9	B
Dibenz(a,h)anthracene	ND	ug/L	0.044	1	06/25/20 17:13	06/26/20 14:02	53-70-3	
Fluoranthene	**0.49**	ug/L	0.044	1	06/25/20 17:13	06/26/20 14:02	206-44-0	B
Fluorene	ND	ug/L	0.044	1	06/25/20 17:13	06/26/20 14:02	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.044	1	06/25/20 17:13	06/26/20 14:02	193-39-5	
Naphthalene	ND	ug/L	0.044	1	06/25/20 17:13	06/26/20 14:02	91-20-3	
Phenanthrene	**0.31**	ug/L	0.044	1	06/25/20 17:13	06/26/20 14:02	85-01-8	
Pyrene	**0.47**	ug/L	0.044	1	06/25/20 17:13	06/26/20 14:02	129-00-0	B
Surrogates								
2-Fluorobiphenyl (S)	52	%.	50-125	1	06/25/20 17:13	06/26/20 14:02	321-60-8	2M,H4
p-Terphenyl-d14 (S)	84	%.	58-125	1	06/25/20 17:13	06/26/20 14:02	1718-51-0	
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet							
Acetone	ND	ug/L	50.0	1	07/03/20 20:11	07/03/20 20:11	67-64-1	

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Sample: Equipment Blank (Water) **Lab ID: 10522569023** Collected: 06/22/20 15:00 Received: 06/23/20 11:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet							
Allyl chloride	ND	ug/L	5.00	1	07/03/20 20:11	07/03/20 20:11	107-05-1	
Benzene	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	71-43-2	
Bromobenzene	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	108-86-1	
Bromochloromethane	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	74-97-5	
Bromodichloromethane	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	75-27-4	
Bromoform	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	75-25-2	
Bromomethane	ND	ug/L	5.00	1	07/03/20 20:11	07/03/20 20:11	74-83-9	
n-Butylbenzene	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	104-51-8	
sec-Butylbenzene	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	135-98-8	
tert-Butylbenzene	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	98-06-6	
Carbon tetrachloride	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	56-23-5	
Chlorobenzene	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	108-90-7	
Dibromochloromethane	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	124-48-1	
Chloroethane	ND	ug/L	5.00	1	07/03/20 20:11	07/03/20 20:11	75-00-3	
Chloroform	ND	ug/L	5.00	1	07/03/20 20:11	07/03/20 20:11	67-66-3	
Chloromethane	ND	ug/L	2.50	1	07/03/20 20:11	07/03/20 20:11	74-87-3	H1,CC
2-Chlorotoluene	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	95-49-8	
4-Chlorotoluene	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	1	07/03/20 20:11	07/03/20 20:11	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	106-93-4	
Dibromomethane	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.00	1	07/03/20 20:11	07/03/20 20:11	75-71-8	
Dichlorofluoromethane	ND	ug/L	5.00	1	07/03/20 20:11	07/03/20 20:11	75-43-4	
1,1-Dichloroethane	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	78-87-5	
1,1-Dichloropropene	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	563-58-6	
1,3-Dichloropropane	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	10061-02-6	
2,2-Dichloropropane	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	594-20-7	
Ethylbenzene	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	100-41-4	
Diethyl ether (Ethyl ether)	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	60-29-7	L0
Hexachloro-1,3-butadiene	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	99-87-6	
2-Butanone (MEK)	ND	ug/L	10.0	1	07/03/20 20:11	07/03/20 20:11	78-93-3	
Methylene Chloride	ND	ug/L	5.00	1	07/03/20 20:11	07/03/20 20:11	75-09-2	L0
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1	07/03/20 20:11	07/03/20 20:11	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	1634-04-4	

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Sample: Equipment Blank (Water) **Lab ID: 10522569023** Collected: 06/22/20 15:00 Received: 06/23/20 11:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet							
Naphthalene	ND	ug/L	5.00	1	07/03/20 20:11	07/03/20 20:11	91-20-3	
n-Propylbenzene	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	103-65-1	
Styrene	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	76-13-1	
Tetrachloroethene	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	127-18-4	
Tetrahydrofuran	ND	ug/L	5.00	1	07/03/20 20:11	07/03/20 20:11	109-99-9	
Toluene	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	79-00-5	
Trichloroethene	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	79-01-6	L0
Trichlorofluoromethane	ND	ug/L	5.00	1	07/03/20 20:11	07/03/20 20:11	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	1	07/03/20 20:11	07/03/20 20:11	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	108-67-8	
Vinyl chloride	ND	ug/L	1.00	1	07/03/20 20:11	07/03/20 20:11	75-01-4	
Xylene (Total)	ND	ug/L	3.00	1	07/03/20 20:11	07/03/20 20:11	1330-20-7	
Surrogates								
Toluene-d8 (S)	100	%	80.0-120	1	07/03/20 20:11	07/03/20 20:11	2037-26-5	
4-Bromofluorobenzene (S)	103	%	77.0-126	1	07/03/20 20:11	07/03/20 20:11	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70.0-130	1	07/03/20 20:11	07/03/20 20:11	17060-07-0	

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Sample: DUP-17-06222020 **Lab ID: 10522569024** Collected: 06/22/20 12:01 Received: 06/23/20 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.024	1	06/25/20 16:28	06/30/20 12:07	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**14.9**	%	0.10	1		07/01/20 11:52		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Sample: ASB-6c (0-0.5) **Lab ID: 10522569025** Collected: 06/22/20 15:50 Received: 06/23/20 11:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.21**	mg/kg	0.020	1	07/23/20 10:48	07/27/20 18:15	7439-97-6	

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Sample: ASB-6c (2-2.5) **Lab ID: 10522569026** Collected: 06/22/20 15:41 Received: 06/23/20 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.021	1	06/25/20 16:28	06/30/20 12:10	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**11.7**	%	0.10	1		07/01/20 11:52		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Sample: ASB-8c (0-0.5) **Lab ID: 10522569028** Collected: 06/22/20 16:47 Received: 06/23/20 11:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Duluth							
Nitrogen, Kjeldahl, Total	**1370**	mg/kg	55.5	1	08/07/20 09:49	08/10/20 12:55	7727-37-9	
353.2 Nitrogen, NO2/NO3	Analytical Method: EPA 353.2 Preparation Method: EPA 353.2 Pace Analytical Services - Duluth							
Nitrogen, NO2 plus NO3	**0.97**	mg/kg	0.24	1	08/06/20 11:37	08/06/20 13:36		
Dry Weight, Duluth	Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Duluth							
Percent Moisture	**18.2**	%	0.10	1		08/12/20 17:58		
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**1.1**	mg/kg	0.038	2	07/23/20 10:48	07/27/20 22:59	7439-97-6	

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Sample: ASB-8c (2-2.5) **Lab ID: 10522569029** Collected: 06/22/20 16:30 Received: 06/23/20 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Duluth							
Nitrogen, Kjeldahl, Total	**2170**	mg/kg	55.7	1	06/29/20 13:10	06/30/20 16:02	7727-37-9	
353.2 Nitrogen, NO2/NO3	Analytical Method: EPA 353.2 Preparation Method: EPA 353.2 Pace Analytical Services - Duluth							
Nitrogen, NO2 plus NO3	**0.31**	mg/kg	0.23	1	06/30/20 09:36	06/30/20 12:19		N2
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.58**	mg/kg	0.023	1	06/25/20 16:28	06/30/20 12:12	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**14.5**	%	0.10	1		07/01/20 11:53		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Sample: ASB-8c (4-4.5) **Lab ID: 10522569030** Collected: 06/22/20 16:10 Received: 06/23/20 11:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.037**	mg/kg	0.019	1	07/23/20 10:48	07/27/20 18:18	7439-97-6	

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Sample: DUP-18-06222020 **Lab ID: 10522569031** Collected: 06/22/20 12:02 Received: 06/23/20 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Duluth							
Nitrogen, Kjeldahl, Total	**807**	mg/kg	54.5	1	06/29/20 13:10	06/30/20 16:04	7727-37-9	
353.2 Nitrogen, NO2/NO3	Analytical Method: EPA 353.2 Preparation Method: EPA 353.2 Pace Analytical Services - Duluth							
Nitrogen, NO2 plus NO3	**0.33**	mg/kg	0.24	1	06/30/20 09:36	06/30/20 12:20		N2
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.14**	mg/kg	0.023	1	06/25/20 16:28	06/30/20 12:25	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**16.6**	%	0.10	1		07/01/20 11:53		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Sample: MeOH Trip Blank **Lab ID: 10522569032** Collected: 06/22/20 00:00 Received: 06/23/20 11:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Acetone	ND	mg/kg	2.50	2	06/22/20 00:00	07/02/20 11:51	67-64-1	
Allyl chloride	ND	mg/kg	1.25	2	06/22/20 00:00	07/02/20 11:51	107-05-1	
Benzene	ND	mg/kg	0.0500	2	06/22/20 00:00	07/02/20 11:51	71-43-2	
Bromobenzene	ND	mg/kg	0.625	2	06/22/20 00:00	07/02/20 11:51	108-86-1	
Bromochloromethane	ND	mg/kg	0.250	2	06/22/20 00:00	07/02/20 11:51	74-97-5	
Bromodichloromethane	ND	mg/kg	0.125	2	06/22/20 00:00	07/02/20 11:51	75-27-4	
Bromoform	ND	mg/kg	1.25	2	06/22/20 00:00	07/02/20 11:51	75-25-2	
Bromomethane	ND	mg/kg	0.625	2	06/22/20 00:00	07/02/20 11:51	74-83-9	
n-Butylbenzene	ND	mg/kg	0.625	2	06/22/20 00:00	07/02/20 11:51	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.625	2	06/22/20 00:00	07/02/20 11:51	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.250	2	06/22/20 00:00	07/02/20 11:51	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.250	2	06/22/20 00:00	07/02/20 11:51	56-23-5	
Chlorobenzene	ND	mg/kg	0.125	2	06/22/20 00:00	07/02/20 11:51	108-90-7	
Dibromochloromethane	ND	mg/kg	0.125	2	06/22/20 00:00	07/02/20 11:51	124-48-1	
Chloroethane	ND	mg/kg	0.250	2	06/22/20 00:00	07/02/20 11:51	75-00-3	
Chloroform	ND	mg/kg	0.125	2	06/22/20 00:00	07/02/20 11:51	67-66-3	
Chloromethane	ND	mg/kg	0.625	2	06/22/20 00:00	07/02/20 11:51	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.125	2	06/22/20 00:00	07/02/20 11:51	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.250	2	06/22/20 00:00	07/02/20 11:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	1.25	2	06/22/20 00:00	07/02/20 11:51	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.125	2	06/22/20 00:00	07/02/20 11:51	106-93-4	
Dibromomethane	ND	mg/kg	0.250	2	06/22/20 00:00	07/02/20 11:51	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.250	2	06/22/20 00:00	07/02/20 11:51	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.250	2	06/22/20 00:00	07/02/20 11:51	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.250	2	06/22/20 00:00	07/02/20 11:51	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.125	2	06/22/20 00:00	07/02/20 11:51	75-71-8	
Dichlorofluoromethane	ND	mg/kg	0.125	2	06/22/20 00:00	07/02/20 11:51	75-43-4	
1,1-Dichloroethane	ND	mg/kg	0.125	2	06/22/20 00:00	07/02/20 11:51	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.125	2	06/22/20 00:00	07/02/20 11:51	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.125	2	06/22/20 00:00	07/02/20 11:51	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.125	2	06/22/20 00:00	07/02/20 11:51	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.250	2	06/22/20 00:00	07/02/20 11:51	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.250	2	06/22/20 00:00	07/02/20 11:51	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.125	2	06/22/20 00:00	07/02/20 11:51	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.250	2	06/22/20 00:00	07/02/20 11:51	142-28-9	L0
cis-1,3-Dichloropropene	ND	mg/kg	0.125	2	06/22/20 00:00	07/02/20 11:51	10061-01-5	L0
trans-1,3-Dichloropropene	ND	mg/kg	0.250	2	06/22/20 00:00	07/02/20 11:51	10061-02-6	
2,2-Dichloropropane	ND	mg/kg	0.125	2	06/22/20 00:00	07/02/20 11:51	594-20-7	
Diisopropyl ether	ND	mg/kg	0.0500	2	06/22/20 00:00	07/02/20 11:51	108-20-3	
Ethylbenzene	ND	mg/kg	0.125	2	06/22/20 00:00	07/02/20 11:51	100-41-4	
Diethyl ether (Ethyl ether)	ND	mg/kg	0.125	2	06/22/20 00:00	07/02/20 11:51	60-29-7	
Hexachloro-1,3-butadiene	ND	mg/kg	1.25	2	06/22/20 00:00	07/02/20 11:51	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.125	2	06/22/20 00:00	07/02/20 11:51	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.250	2	06/22/20 00:00	07/02/20 11:51	99-87-6	
2-Butanone (MEK)	ND	mg/kg	5.00	2	06/22/20 00:00	07/02/20 11:51	78-93-3	

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Sample: MeOH Trip Blank **Lab ID: 10522569032** Collected: 06/22/20 00:00 Received: 06/23/20 11:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Methylene Chloride	ND	mg/kg	1.25	2	06/22/20 00:00	07/02/20 11:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	1.25	2	06/22/20 00:00	07/02/20 11:51	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0500	2	06/22/20 00:00	07/02/20 11:51	1634-04-4	
Naphthalene	ND	mg/kg	0.625	2	06/22/20 00:00	07/02/20 11:51	91-20-3	
n-Propylbenzene	ND	mg/kg	0.250	2	06/22/20 00:00	07/02/20 11:51	103-65-1	
Styrene	ND	mg/kg	0.625	2	06/22/20 00:00	07/02/20 11:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.125	2	06/22/20 00:00	07/02/20 11:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.125	2	06/22/20 00:00	07/02/20 11:51	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.125	2	06/22/20 00:00	07/02/20 11:51	76-13-1	R1
Tetrachloroethene	ND	mg/kg	0.125	2	06/22/20 00:00	07/02/20 11:51	127-18-4	
Tetrahydrofuran	ND	mg/kg	0.625	2	06/22/20 00:00	07/02/20 11:51	109-99-9	
Toluene	ND	mg/kg	0.250	2	06/22/20 00:00	07/02/20 11:51	108-88-3	L0
1,2,3-Trichlorobenzene	ND	mg/kg	0.625	2	06/22/20 00:00	07/02/20 11:51	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.625	2	06/22/20 00:00	07/02/20 11:51	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.125	2	06/22/20 00:00	07/02/20 11:51	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.125	2	06/22/20 00:00	07/02/20 11:51	79-00-5	
Trichloroethene	ND	mg/kg	0.0500	2	06/22/20 00:00	07/02/20 11:51	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.125	2	06/22/20 00:00	07/02/20 11:51	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.625	2	06/22/20 00:00	07/02/20 11:51	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.250	2	06/22/20 00:00	07/02/20 11:51	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.250	2	06/22/20 00:00	07/02/20 11:51	108-67-8	L0
Vinyl chloride	ND	mg/kg	0.125	2	06/22/20 00:00	07/02/20 11:51	75-01-4	
Xylene (Total)	ND	mg/kg	0.325	2	06/22/20 00:00	07/02/20 11:51	1330-20-7	
Surrogates								
Toluene-d8 (S)	111	%	75.0-131	2	06/22/20 00:00	07/02/20 11:51	2037-26-5	
4-Bromofluorobenzene (S)	96.9	%	67.0-138	2	06/22/20 00:00	07/02/20 11:51	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70.0-130	2	06/22/20 00:00	07/02/20 11:51	17060-07-0	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

QC Batch: 192449 | Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 | Analysis Description: 351.2 TKN
Laboratory: Pace Analytical Services - Duluth
Associated Lab Samples: 10522569008, 10522569011, 10522569017, 10522569029, 10522569031

METHOD BLANK: 758449 Matrix: Solid
Associated Lab Samples: 10522569008, 10522569011, 10522569017, 10522569029, 10522569031

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/kg	ND	50.0	06/30/20 15:57	

LABORATORY CONTROL SAMPLE: 758448

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/kg	1000	1080	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 758450 758451

Parameter	Units	10522569008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/kg	355	1120	1180	1510	1580	103	104	90-110	5	10	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

QC Batch: 192624
QC Batch Method: EPA 351.2
Analysis Method: EPA 351.2
Analysis Description: 351.2 TKN
Laboratory: Pace Analytical Services - Duluth
Associated Lab Samples: 10522569005

METHOD BLANK: 759363 Matrix: Solid
Associated Lab Samples: 10522569005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/kg	ND	50.0	07/02/20 12:15	

LABORATORY CONTROL SAMPLE: 759362

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/kg	1000	1040	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 759364 759365

Parameter	Units	12146053011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/kg	844	952	1000	1860	1780	107	94	90-110	5	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 759366 759367

Parameter	Units	10522687002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/kg	2750	870	952	3810	3740	122	104	90-110	2	10	M6

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

QC Batch: 195443 Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN
Laboratory: Pace Analytical Services - Duluth
Associated Lab Samples: 10522569004, 10522569007, 10522569010, 10522569012, 10522569016, 10522569028

METHOD BLANK: 772362 Matrix: Solid
Associated Lab Samples: 10522569004, 10522569007, 10522569010, 10522569012, 10522569016, 10522569028

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/kg	ND	50.0	08/10/20 12:36	

LABORATORY CONTROL SAMPLE: 772361

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/kg	1000	1060	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 772363 772364

Parameter	Units	12148110001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/kg	856	1080	1190	2460	2490	148	137	90-110	1	10	3M,M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 772365 772366

Parameter	Units	10522569012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/kg	332	1160	1160	1480	1460	99	97	90-110	1	10	H3

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

QC Batch: 192623
QC Batch Method: EPA 351.2
Analysis Method: EPA 351.2
Analysis Description: 351.2 TKN
Laboratory: Pace Analytical Services - Duluth
Associated Lab Samples: 10522569023

METHOD BLANK: 759352 Matrix: Water
Associated Lab Samples: 10522569023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	ND	0.50	07/02/20 11:52	

LABORATORY CONTROL SAMPLE: 759351

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	10	10.4	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 759353 759354

Parameter	Units	12146106001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	3.1	10	10	13.6	13.6	106	106	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 759355 759356

Parameter	Units	10522785001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	38.0	50	50	91.3	84.2	106	92	90-110	8	10	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

QC Batch: 192504 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite
Laboratory: Pace Analytical Services - Duluth
Associated Lab Samples: 10522569005, 10522569008, 10522569011, 10522569017, 10522569029, 10522569031

METHOD BLANK: 758699 Matrix: Solid
Associated Lab Samples: 10522569005, 10522569008, 10522569011, 10522569017, 10522569029, 10522569031

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/kg	ND	0.20	06/30/20 11:52	N2

LABORATORY CONTROL SAMPLE: 758698

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/kg	5	5.1	103	90-110	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 758700 758701

Parameter	Units	10522569005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/kg	ND	5.77	5.77	5.9	6.0	100	101	90-110	1	10	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 758711 758712

Parameter	Units	12146230002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/kg	1.4	24.5	24.5	24.6	24.3	95	94	90-110	1	10	N2

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

QC Batch: 195312 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite
Laboratory: Pace Analytical Services - Duluth
Associated Lab Samples: 10522569004, 10522569007, 10522569010, 10522569016, 10522569028

METHOD BLANK: 771843 Matrix: Solid
Associated Lab Samples: 10522569004, 10522569007, 10522569010, 10522569016, 10522569028

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/kg	ND	0.20	08/06/20 13:26	N2

LABORATORY CONTROL SAMPLE: 771842

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/kg	5	5.2	104	90-110	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 771844 771845

Parameter	Units	10522569004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/kg	1.1	5.65	5.77	6.9	7.0	103	103	90-110	1	10	H3,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 771846 771847

Parameter	Units	10525347042 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/kg	198	5.6	5.71	219	226	-125	-9	90-110	3	10	N2,P6

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

QC Batch: 192501
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Duluth
Associated Lab Samples: 10522569023

METHOD BLANK: 758673 Matrix: Water
Associated Lab Samples: 10522569023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.020	06/30/20 11:10	

LABORATORY CONTROL SAMPLE: 758672

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.5	0.50	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 758674 758675

Parameter	Units	12146112001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.022	0.5	0.5	0.54	0.54	103	104	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 758676 758677

Parameter	Units	12146273001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	1.9	2.5	2.5	4.6	4.6	108	108	90-110	0	10	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

QC Batch: 195812
QC Batch Method: ASTM D 2974-13 (2013)
Analysis Method: ASTM D 2974-13 (2013)
Analysis Description: Dry Weight/Percent Moisture Duluth
Laboratory: Pace Analytical Services - Duluth
Associated Lab Samples: 10522569004, 10522569007, 10522569010, 10522569012, 10522569016, 10522569028

SAMPLE DUPLICATE: 773724

Parameter	Units	10522569004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	13.3	12.8	4	5	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

QC Batch: 683253
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470A Mercury Water
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10522569023

METHOD BLANK: 3655786 Matrix: Water
Associated Lab Samples: 10522569023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	06/25/20 11:19	

LABORATORY CONTROL SAMPLE: 3655787

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.5	110	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3655788 3655789

Parameter	Units	10522463001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.4	4.6	89	92	80-120	4	20	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

QC Batch: 683244 Analysis Method: EPA 7471B
QC Batch Method: EPA 7471B Analysis Description: 7471B Mercury Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10522569002, 10522569005, 10522569008, 10522569011, 10522569014, 10522569017, 10522569020, 10522569022, 10522569024, 10522569026, 10522569029, 10522569031

METHOD BLANK: 3655753 Matrix: Solid
Associated Lab Samples: 10522569002, 10522569005, 10522569008, 10522569011, 10522569014, 10522569017, 10522569020, 10522569022, 10522569024, 10522569026, 10522569029, 10522569031

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.019	06/30/20 11:28	

LABORATORY CONTROL SAMPLE: 3655754

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.48	0.51	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3655755 3655756

Parameter	Units	10522569005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	ND	0.54	0.58	0.58	0.62	104	104	80-120	6	20	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

QC Batch: 688597
QC Batch Method: EPA 7471B
Analysis Method: EPA 7471B
Analysis Description: 7471B Mercury Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10522569004, 10522569007, 10522569010, 10522569013, 10522569016, 10522569019, 10522569021, 10522569025, 10522569028, 10522569030

METHOD BLANK: 3683012 Matrix: Solid
Associated Lab Samples: 10522569004, 10522569007, 10522569010, 10522569013, 10522569016, 10522569019, 10522569021, 10522569025, 10522569028, 10522569030

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.019	07/27/20 17:50	

LABORATORY CONTROL SAMPLE: 3683013

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.47	0.47	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3683014 3683015

Parameter	Units	10522569004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.042	0.44	0.45	0.49	0.57	101	116	80-120	16	20	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

QC Batch: 683241
QC Batch Method: EPA 3050B
Analysis Method: EPA 6010D
Analysis Description: 6010D Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10522569002, 10522569005

METHOD BLANK: 3655745 Matrix: Solid
Associated Lab Samples: 10522569002, 10522569005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	0.96	06/28/20 12:49	
Barium	mg/kg	ND	0.48	06/28/20 12:49	
Cadmium	mg/kg	ND	0.14	06/28/20 12:49	
Chromium	mg/kg	ND	0.48	06/28/20 12:49	
Lead	mg/kg	ND	0.48	06/28/20 12:49	
Selenium	mg/kg	ND	0.96	06/28/20 12:49	
Silver	mg/kg	ND	0.48	06/28/20 12:49	

LABORATORY CONTROL SAMPLE: 3655746

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	47.2	49.6	105	80-120	
Barium	mg/kg	47.2	50.0	106	80-120	
Cadmium	mg/kg	47.2	50.1	106	80-120	
Chromium	mg/kg	47.2	50.0	106	80-120	
Lead	mg/kg	47.2	49.4	105	80-120	
Selenium	mg/kg	47.2	49.8	106	80-120	
Silver	mg/kg	23.6	24.3	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3655747 3655748

Parameter	Units	10522569002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	1.4	53.4	58.1	50.9	55.1	93	92	75-125	8	20	
Barium	mg/kg	61.2	53.4	58.1	105	101	83	69	75-125	4	20	M1
Cadmium	mg/kg	ND	53.4	58.1	49.8	53.9	93	93	75-125	8	20	
Chromium	mg/kg	20.9	53.4	58.1	73.2	76.4	98	96	75-125	4	20	
Lead	mg/kg	4.9	53.4	58.1	52.6	56.6	89	89	75-125	7	20	
Selenium	mg/kg	ND	53.4	58.1	48.9	53.3	91	91	75-125	9	20	
Silver	mg/kg	ND	26.6	29.1	25.1	27.0	94	93	75-125	7	20	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

QC Batch: 683251
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D Water
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10522569023

METHOD BLANK: 3655778 Matrix: Water
Associated Lab Samples: 10522569023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	20.0	06/25/20 15:08	
Barium	ug/L	ND	10.0	06/25/20 15:08	
Cadmium	ug/L	ND	3.0	06/25/20 15:08	
Chromium	ug/L	ND	10.0	06/25/20 15:08	
Lead	ug/L	ND	10.0	06/25/20 15:08	
Selenium	ug/L	ND	20.0	06/25/20 15:08	
Silver	ug/L	ND	10.0	06/25/20 15:08	

LABORATORY CONTROL SAMPLE: 3655779

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	1000	999	100	80-120	
Barium	ug/L	1000	996	100	80-120	
Cadmium	ug/L	1000	1010	101	80-120	
Chromium	ug/L	1000	992	99	80-120	
Lead	ug/L	1000	998	100	80-120	
Selenium	ug/L	1000	1040	104	80-120	
Silver	ug/L	500	494	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3655780 3655781

Parameter	Units	10522082001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	ND	1000	1000	1080	1100	106	108	75-125	2	20	
Barium	ug/L	614	1000	1000	1500	1630	89	101	75-125	8	20	
Cadmium	ug/L	15.2	1000	1000	1010	1020	99	101	75-125	2	20	
Chromium	ug/L	517	1000	1000	1490	1550	97	103	75-125	4	20	
Lead	ug/L	3920	1000	1000	4770	5110	85	119	75-125	7	20	
Selenium	ug/L	ND	1000	1000	1090	1130	107	111	75-125	4	20	
Silver	ug/L	ND	500	500	520	535	104	107	75-125	3	20	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

QC Batch: 684460
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10522569002, 10522569005, 10522569008, 10522569011, 10522569014, 10522569017, 10522569020, 10522569022, 10522569024, 10522569026, 10522569029, 10522569031

SAMPLE DUPLICATE: 3661266

Parameter	Units	10523174007 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	4.1	4.2	1	30	N2

SAMPLE DUPLICATE: 3661560

Parameter	Units	10522569008 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	15.0	14.3	5	30	N2

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REPORT OF LABORATORY ANALYSIS

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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

QC Batch: 1503871
QC Batch Method: 8260D
Analysis Method: EPA 8260D
Analysis Description: VOA (GC/MS) 8260D
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 10522569023

METHOD BLANK: R3546270-4 Matrix: Water
Associated Lab Samples: 10522569023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acetone	ug/L	ND	50.0	07/03/20 17:16	
Benzene	ug/L	ND	1.00	07/03/20 17:16	
Bromobenzene	ug/L	ND	1.00	07/03/20 17:16	
Bromodichloromethane	ug/L	ND	1.00	07/03/20 17:16	
Bromochloromethane	ug/L	ND	1.00	07/03/20 17:16	
Bromoform	ug/L	ND	1.00	07/03/20 17:16	
Bromomethane	ug/L	ND	5.00	07/03/20 17:16	
n-Butylbenzene	ug/L	ND	1.00	07/03/20 17:16	
sec-Butylbenzene	ug/L	ND	1.00	07/03/20 17:16	
tert-Butylbenzene	ug/L	ND	1.00	07/03/20 17:16	
Carbon tetrachloride	ug/L	ND	1.00	07/03/20 17:16	
Chlorobenzene	ug/L	ND	1.00	07/03/20 17:16	
Dibromochloromethane	ug/L	ND	1.00	07/03/20 17:16	
Chloroethane	ug/L	ND	5.00	07/03/20 17:16	
Chloroform	ug/L	ND	5.00	07/03/20 17:16	
Chloromethane	ug/L	ND	2.50	07/03/20 17:16	
2-Chlorotoluene	ug/L	ND	1.00	07/03/20 17:16	
4-Chlorotoluene	ug/L	ND	1.00	07/03/20 17:16	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.00	07/03/20 17:16	
1,2-Dibromoethane (EDB)	ug/L	ND	1.00	07/03/20 17:16	
Dibromomethane	ug/L	ND	1.00	07/03/20 17:16	
1,2-Dichlorobenzene	ug/L	ND	1.00	07/03/20 17:16	
1,3-Dichlorobenzene	ug/L	ND	1.00	07/03/20 17:16	
1,4-Dichlorobenzene	ug/L	ND	1.00	07/03/20 17:16	
Dichlorodifluoromethane	ug/L	ND	5.00	07/03/20 17:16	
Dichlorofluoromethane	ug/L	ND	5.00	07/03/20 17:16	
1,1-Dichloroethane	ug/L	ND	1.00	07/03/20 17:16	
1,2-Dichloroethane	ug/L	ND	1.00	07/03/20 17:16	
1,1-Dichloroethene	ug/L	ND	1.00	07/03/20 17:16	
cis-1,2-Dichloroethene	ug/L	ND	1.00	07/03/20 17:16	
trans-1,2-Dichloroethene	ug/L	ND	1.00	07/03/20 17:16	
1,2-Dichloropropane	ug/L	ND	1.00	07/03/20 17:16	
1,1-Dichloropropene	ug/L	ND	1.00	07/03/20 17:16	
1,3-Dichloropropane	ug/L	ND	1.00	07/03/20 17:16	
cis-1,3-Dichloropropene	ug/L	ND	1.00	07/03/20 17:16	
trans-1,3-Dichloropropene	ug/L	ND	1.00	07/03/20 17:16	
2,2-Dichloropropane	ug/L	ND	1.00	07/03/20 17:16	
Ethylbenzene	ug/L	ND	1.00	07/03/20 17:16	
Diethyl ether (Ethyl ether)	ug/L	ND	1.00	07/03/20 17:16	
Hexachloro-1,3-butadiene	ug/L	ND	1.00	07/03/20 17:16	

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(612)607-1700

QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

METHOD BLANK: R3546270-4 Matrix: Water
Associated Lab Samples: 10522569023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Isopropylbenzene (Cumene)	ug/L	ND	1.00	07/03/20 17:16	
p-Isopropyltoluene	ug/L	ND	1.00	07/03/20 17:16	
2-Butanone (MEK)	ug/L	ND	10.0	07/03/20 17:16	
Methylene Chloride	ug/L	ND	5.00	07/03/20 17:16	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	07/03/20 17:16	
Methyl-tert-butyl ether	ug/L	ND	1.00	07/03/20 17:16	
Naphthalene	ug/L	ND	5.00	07/03/20 17:16	
n-Propylbenzene	ug/L	ND	1.00	07/03/20 17:16	
Styrene	ug/L	ND	1.00	07/03/20 17:16	
1,1,1,2-Tetrachloroethane	ug/L	ND	1.00	07/03/20 17:16	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.00	07/03/20 17:16	
Tetrachloroethene	ug/L	ND	1.00	07/03/20 17:16	
Tetrahydrofuran	ug/L	ND	5.00	07/03/20 17:16	
Toluene	ug/L	ND	1.00	07/03/20 17:16	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.00	07/03/20 17:16	
1,2,3-Trichlorobenzene	ug/L	ND	1.00	07/03/20 17:16	
1,2,4-Trichlorobenzene	ug/L	ND	1.00	07/03/20 17:16	
1,1,1-Trichloroethane	ug/L	ND	1.00	07/03/20 17:16	
1,1,2-Trichloroethane	ug/L	ND	1.00	07/03/20 17:16	
Trichloroethene	ug/L	ND	1.00	07/03/20 17:16	
Trichlorofluoromethane	ug/L	ND	5.00	07/03/20 17:16	
1,2,3-Trichloropropane	ug/L	ND	2.50	07/03/20 17:16	
1,2,4-Trimethylbenzene	ug/L	ND	1.00	07/03/20 17:16	
1,3,5-Trimethylbenzene	ug/L	ND	1.00	07/03/20 17:16	
Vinyl chloride	ug/L	ND	1.00	07/03/20 17:16	
Xylene (Total)	ug/L	ND	3.00	07/03/20 17:16	
Allyl chloride	ug/L	ND	5.00	07/03/20 17:16	
Toluene-d8 (S)	%	99.1	80.0-120	07/03/20 17:16	
4-Bromofluorobenzene (S)	%	103	77.0-126	07/03/20 17:16	
1,2-Dichloroethane-d4 (S)	%	96.4	70.0-130	07/03/20 17:16	

LABORATORY CONTROL SAMPLE & LCSD: R3546270-1 R3546270-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Acetone	ug/L	25.0	38.9	38.5	156	154	19.0-160	1.03	27	
Benzene	ug/L	5.00	5.78	5.75	116	115	70.0-123	0.520	20	
Bromobenzene	ug/L	5.00	5.03	4.84	101	96.8	73.0-121	3.85	20	
Bromodichloromethane	ug/L	5.00	5.69	5.53	114	111	75.0-120	2.85	20	
Bromochloromethane	ug/L	5.00	5.99	5.76	120	115	76.0-122	3.91	20	
Bromoform	ug/L	5.00	5.46	5.31	109	106	68.0-132	2.79	20	
Bromomethane	ug/L	5.00	5.30	5.29	106	106	10.0-160	0.189	25	
n-Butylbenzene	ug/L	5.00	5.28	5.37	106	107	73.0-125	1.69	20	
sec-Butylbenzene	ug/L	5.00	5.34	5.36	107	107	75.0-125	0.374	20	
tert-Butylbenzene	ug/L	5.00	5.32	5.31	106	106	76.0-124	0.188	20	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

LABORATORY CONTROL SAMPLE & LCSD: R3546270-1 R3546270-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Carbon tetrachloride	ug/L	5.00	5.87	5.81	117	116	68.0-126	1.03	20	
Chlorobenzene	ug/L	5.00	5.53	5.58	111	112	80.0-121	0.900	20	
Dibromochloromethane	ug/L	5.00	5.57	5.66	111	113	77.0-125	1.60	20	
Chloroethane	ug/L	5.00	4.24	4.88	84.8	97.6	47.0-150	14.0	20	
Chloroform	ug/L	5.00	5.83	5.68	117	114	73.0-120	2.61	20	
Chloromethane	ug/L	5.00	3.75	3.73	75.0	74.6	41.0-142	0.535	20	
2-Chlorotoluene	ug/L	5.00	5.05	4.95	101	99.0	76.0-123	2.00	20	
4-Chlorotoluene	ug/L	5.00	5.13	5.15	103	103	75.0-122	0.389	20	
1,2-Dibromo-3-chloropropane	ug/L	5.00	4.91	5.26	98.2	105	58.0-134	6.88	20	
1,2-Dibromoethane (EDB)	ug/L	5.00	5.44	5.55	109	111	80.0-122	2.00	20	
Dibromomethane	ug/L	5.00	5.85	5.84	117	117	80.0-120	0.171	20	
1,2-Dichlorobenzene	ug/L	5.00	5.54	5.37	111	107	79.0-121	3.12	20	
1,3-Dichlorobenzene	ug/L	5.00	5.41	5.33	108	107	79.0-120	1.49	20	
1,4-Dichlorobenzene	ug/L	5.00	5.18	5.10	104	102	79.0-120	1.56	20	
Dichlorodifluoromethane	ug/L	5.00	4.46	4.30	89.2	86.0	51.0-149	3.65	20	
Dichlorofluoromethane	ug/L	5.00	4.12	4.16	82.4	83.2	65.0-133	0.966	20	
1,1-Dichloroethane	ug/L	5.00	5.95	5.87	119	117	70.0-126	1.35	20	
1,2-Dichloroethane	ug/L	5.00	5.59	5.44	112	109	70.0-128	2.72	20	
1,1-Dichloroethene	ug/L	5.00	6.10	5.96	122	119	71.0-124	2.32	20	
cis-1,2-Dichloroethene	ug/L	5.00	5.72	5.87	114	117	73.0-120	2.59	20	
trans-1,2-Dichloroethene	ug/L	5.00	5.76	5.66	115	113	73.0-120	1.75	20	
1,2-Dichloropropane	ug/L	5.00	6.10	6.07	122	121	77.0-125	0.493	20	
1,1-Dichloropropene	ug/L	5.00	6.05	6.09	121	122	74.0-126	0.659	20	
1,3-Dichloropropane	ug/L	5.00	5.58	5.53	112	111	80.0-120	0.900	20	
cis-1,3-Dichloropropene	ug/L	5.00	5.70	5.72	114	114	80.0-123	0.350	20	
trans-1,3-Dichloropropene	ug/L	5.00	5.19	5.35	104	107	78.0-124	3.04	20	
2,2-Dichloropropane	ug/L	5.00	5.65	5.25	113	105	58.0-130	7.34	20	
Ethylbenzene	ug/L	5.00	5.48	5.41	110	108	79.0-123	1.29	20	
Diethyl ether (Ethyl ether)	ug/L	5.00	7.50	6.23	150	125	66.0-130	18.5	20	L0
Hexachloro-1,3-butadiene	ug/L	5.00	5.50	5.74	110	115	54.0-138	4.27	20	
Isopropylbenzene (Cumene)	ug/L	5.00	5.50	5.58	110	112	76.0-127	1.44	20	
p-Isopropyltoluene	ug/L	5.00	5.46	5.37	109	107	76.0-125	1.66	20	
2-Butanone (MEK)	ug/L	25.0	31.0	31.7	124	127	44.0-160	2.23	20	
Methylene Chloride	ug/L	5.00	6.03	5.85	121	117	67.0-120	3.03	20	L0
4-Methyl-2-pentanone (MIBK)	ug/L	25.0	27.5	28.1	110	112	68.0-142	2.16	20	
Methyl-tert-butyl ether	ug/L	5.00	5.99	5.91	120	118	68.0-125	1.34	20	
Naphthalene	ug/L	5.00	5.09	5.39	102	108	54.0-135	5.73	20	
n-Propylbenzene	ug/L	5.00	5.38	5.27	108	105	77.0-124	2.07	20	
Styrene	ug/L	5.00	5.54	5.63	111	113	73.0-130	1.61	20	
1,1,1,2-Tetrachloroethane	ug/L	5.00	5.36	5.40	107	108	75.0-125	0.744	20	
1,1,2,2-Tetrachloroethane	ug/L	5.00	5.19	5.15	104	103	65.0-130	0.774	20	
Tetrachloroethene	ug/L	5.00	5.64	5.70	113	114	72.0-132	1.06	20	
Tetrahydrofuran	ug/L	5.00	6.78	6.79	136	136	41.0-146	0.147	20	
Toluene	ug/L	5.00	5.47	5.55	109	111	79.0-120	1.45	20	
1,1,2-Trichlorotrifluoroethane	ug/L	5.00	6.54	6.46	131	129	69.0-132	1.23	20	
1,2,3-Trichlorobenzene	ug/L	5.00	5.73	5.88	115	118	50.0-138	2.58	20	
1,2,4-Trichlorobenzene	ug/L	5.00	5.44	5.86	109	117	57.0-137	7.43	20	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

LABORATORY CONTROL SAMPLE & LCSD: R3546270-1 R3546270-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	5.00	5.78	5.92	116	118	73.0-124	2.39	20	
1,1,2-Trichloroethane	ug/L	5.00	5.82	5.90	116	118	80.0-120	1.37	20	
Trichloroethene	ug/L	5.00	6.30	6.31	126	126	78.0-124	0.159	20	L0
Trichlorofluoromethane	ug/L	5.00	4.20	4.35	84.0	87.0	59.0-147	3.51	20	
1,2,3-Trichloropropane	ug/L	5.00	5.78	5.75	116	115	73.0-130	0.520	20	
1,2,4-Trimethylbenzene	ug/L	5.00	5.31	5.30	106	106	76.0-121	0.189	20	
1,3,5-Trimethylbenzene	ug/L	5.00	5.30	5.22	106	104	76.0-122	1.52	20	
Vinyl chloride	ug/L	5.00	4.05	4.08	81.0	81.6	67.0-131	0.738	20	
Xylene (Total)	ug/L	15.0	16.2	16.5	108	110	79.0-123	1.83	20	
Allyl chloride	ug/L	25.0	29.9	29.1	120	116	72.0-128	2.71	20	
Toluene-d8 (S)	%				98.6	100	80.0-120			
4-Bromofluorobenzene (S)	%				106	106	77.0-126			
1,2-Dichloroethane-d4 (S)	%				98.4	96.7	70.0-130			

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

QC Batch: 1503026
QC Batch Method: 5035A
Analysis Method: EPA 8260D
Analysis Description: VOA (GC/MS) 8260D
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 10522569002, 10522569032

METHOD BLANK: R3545605-3 Matrix: Solid
Associated Lab Samples: 10522569002, 10522569032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acetone	mg/kg	ND	1.25	07/02/20 10:51	
Benzene	mg/kg	ND	0.0250	07/02/20 10:51	
Bromobenzene	mg/kg	ND	0.313	07/02/20 10:51	
Bromodichloromethane	mg/kg	ND	0.0625	07/02/20 10:51	
Bromochloromethane	mg/kg	ND	0.125	07/02/20 10:51	
Bromoform	mg/kg	ND	0.625	07/02/20 10:51	
Bromomethane	mg/kg	ND	0.313	07/02/20 10:51	
n-Butylbenzene	mg/kg	ND	0.313	07/02/20 10:51	
sec-Butylbenzene	mg/kg	ND	0.313	07/02/20 10:51	
tert-Butylbenzene	mg/kg	ND	0.125	07/02/20 10:51	
Carbon tetrachloride	mg/kg	ND	0.125	07/02/20 10:51	
Chlorobenzene	mg/kg	ND	0.0625	07/02/20 10:51	
Dibromochloromethane	mg/kg	ND	0.0625	07/02/20 10:51	
Chloroethane	mg/kg	ND	0.125	07/02/20 10:51	
Chloroform	mg/kg	ND	0.0625	07/02/20 10:51	
Chloromethane	mg/kg	ND	0.313	07/02/20 10:51	
2-Chlorotoluene	mg/kg	ND	0.0625	07/02/20 10:51	
4-Chlorotoluene	mg/kg	ND	0.125	07/02/20 10:51	
1,2-Dibromo-3-chloropropane	mg/kg	ND	0.625	07/02/20 10:51	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0625	07/02/20 10:51	
Dibromomethane	mg/kg	ND	0.125	07/02/20 10:51	
1,2-Dichlorobenzene	mg/kg	ND	0.125	07/02/20 10:51	
1,3-Dichlorobenzene	mg/kg	ND	0.125	07/02/20 10:51	
1,4-Dichlorobenzene	mg/kg	ND	0.125	07/02/20 10:51	
Dichlorodifluoromethane	mg/kg	ND	0.0625	07/02/20 10:51	
Dichlorofluoromethane	mg/kg	ND	0.0625	07/02/20 10:51	
1,1-Dichloroethane	mg/kg	ND	0.0625	07/02/20 10:51	
1,2-Dichloroethane	mg/kg	ND	0.0625	07/02/20 10:51	
1,1-Dichloroethene	mg/kg	ND	0.0625	07/02/20 10:51	
cis-1,2-Dichloroethene	mg/kg	ND	0.0625	07/02/20 10:51	
trans-1,2-Dichloroethene	mg/kg	ND	0.125	07/02/20 10:51	
1,2-Dichloropropane	mg/kg	ND	0.125	07/02/20 10:51	
1,1-Dichloropropene	mg/kg	ND	0.0625	07/02/20 10:51	
1,3-Dichloropropane	mg/kg	ND	0.125	07/02/20 10:51	
cis-1,3-Dichloropropene	mg/kg	ND	0.0625	07/02/20 10:51	
trans-1,3-Dichloropropene	mg/kg	ND	0.125	07/02/20 10:51	
2,2-Dichloropropane	mg/kg	ND	0.0625	07/02/20 10:51	
Diisopropyl ether	mg/kg	ND	0.0250	07/02/20 10:51	
Ethylbenzene	mg/kg	ND	0.0625	07/02/20 10:51	
Diethyl ether (Ethyl ether)	mg/kg	ND	0.0625	07/02/20 10:51	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

METHOD BLANK: R3545605-3 Matrix: Solid
Associated Lab Samples: 10522569002, 10522569032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	mg/kg	ND	0.625	07/02/20 10:51	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0625	07/02/20 10:51	
p-Isopropyltoluene	mg/kg	ND	0.125	07/02/20 10:51	
2-Butanone (MEK)	mg/kg	ND	2.50	07/02/20 10:51	
Methylene Chloride	mg/kg	ND	0.625	07/02/20 10:51	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.625	07/02/20 10:51	
Methyl-tert-butyl ether	mg/kg	ND	0.0250	07/02/20 10:51	
Naphthalene	mg/kg	ND	0.313	07/02/20 10:51	
n-Propylbenzene	mg/kg	ND	0.125	07/02/20 10:51	
Styrene	mg/kg	ND	0.313	07/02/20 10:51	
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0625	07/02/20 10:51	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0625	07/02/20 10:51	
Tetrachloroethene	mg/kg	ND	0.0625	07/02/20 10:51	
Tetrahydrofuran	mg/kg	ND	0.313	07/02/20 10:51	
Toluene	mg/kg	ND	0.125	07/02/20 10:51	
1,1,2-Trichlorotrifluoroethane	mg/kg	ND	0.0625	07/02/20 10:51	
1,2,3-Trichlorobenzene	mg/kg	ND	0.313	07/02/20 10:51	
1,2,4-Trichlorobenzene	mg/kg	ND	0.313	07/02/20 10:51	
1,1,1-Trichloroethane	mg/kg	ND	0.0625	07/02/20 10:51	
1,1,2-Trichloroethane	mg/kg	ND	0.0625	07/02/20 10:51	
Trichloroethene	mg/kg	ND	0.0250	07/02/20 10:51	
Trichlorofluoromethane	mg/kg	ND	0.0625	07/02/20 10:51	
1,2,3-Trichloropropane	mg/kg	ND	0.313	07/02/20 10:51	
1,2,4-Trimethylbenzene	mg/kg	ND	0.125	07/02/20 10:51	
1,3,5-Trimethylbenzene	mg/kg	ND	0.125	07/02/20 10:51	
Vinyl chloride	mg/kg	ND	0.0625	07/02/20 10:51	
Xylene (Total)	mg/kg	ND	0.163	07/02/20 10:51	
Allyl chloride	mg/kg	ND	0.625	07/02/20 10:51	
Toluene-d8 (S)	%	111	75.0-131	07/02/20 10:51	
4-Bromofluorobenzene (S)	%	96.7	67.0-138	07/02/20 10:51	
1,2-Dichloroethane-d4 (S)	%	98.6	70.0-130	07/02/20 10:51	

LABORATORY CONTROL SAMPLE & LCSD: R3545605-1 R3545605-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Acetone	mg/kg	0.625	0.581	0.505	93.0	80.8	10.0-160	14.0	31	
Benzene	mg/kg	0.125	0.104	0.0910	83.2	72.8	70.0-123	13.3	20	
Bromobenzene	mg/kg	0.125	0.139	0.132	111	106	73.0-121	5.17	20	
Bromodichloromethane	mg/kg	0.125	0.118	0.107	94.4	85.6	73.0-121	9.78	20	
Bromochloromethane	mg/kg	0.125	0.121	0.112	96.8	89.6	77.0-128	7.73	20	
Bromoform	mg/kg	0.125	0.120	0.115	96.0	92.0	64.0-132	4.26	20	
Bromomethane	mg/kg	0.125	0.100	0.0893	80.0	71.4	56.0-147	11.3	20	
n-Butylbenzene	mg/kg	0.125	0.0984	0.0860	78.7	68.8	68.0-135	13.4	20	
sec-Butylbenzene	mg/kg	0.125	0.121	0.105	96.8	84.0	74.0-130	14.2	20	

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REPORT OF LABORATORY ANALYSIS

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(612)607-1700

QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

LABORATORY CONTROL SAMPLE & LCSD: R3545605-1 R3545605-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
tert-Butylbenzene	mg/kg	0.125	0.125	0.109	100	87.2	75.0-127	13.7	20	
Carbon tetrachloride	mg/kg	0.125	0.135	0.120	108	96.0	66.0-128	11.8	20	
Chlorobenzene	mg/kg	0.125	0.123	0.111	98.4	88.8	76.0-128	10.3	20	
Dibromochloromethane	mg/kg	0.125	0.106	0.0974	84.8	77.9	74.0-127	8.46	20	
Chloroethane	mg/kg	0.125	0.0970	0.0821	77.6	65.7	61.0-134	16.6	20	
Chloroform	mg/kg	0.125	0.117	0.0999	93.6	79.9	72.0-123	15.8	20	
Chloromethane	mg/kg	0.125	0.131	0.116	105	92.8	51.0-138	12.1	20	
2-Chlorotoluene	mg/kg	0.125	0.122	0.108	97.6	86.4	75.0-124	12.2	20	
4-Chlorotoluene	mg/kg	0.125	0.122	0.109	97.6	87.2	75.0-124	11.3	20	
1,2-Dibromo-3-chloropropane	mg/kg	0.125	0.117	0.109	93.6	87.2	59.0-130	7.08	20	
1,2-Dibromoethane (EDB)	mg/kg	0.125	0.135	0.128	108	102	74.0-128	5.32	20	
Dibromomethane	mg/kg	0.125	0.117	0.108	93.6	86.4	75.0-122	8.00	20	
1,2-Dichlorobenzene	mg/kg	0.125	0.120	0.112	96.0	89.6	76.0-124	6.90	20	
1,3-Dichlorobenzene	mg/kg	0.125	0.121	0.108	96.8	86.4	76.0-125	11.4	20	
1,4-Dichlorobenzene	mg/kg	0.125	0.112	0.0994	89.6	79.5	77.0-121	11.9	20	
Dichlorodifluoromethane	mg/kg	0.125	0.120	0.101	96.0	80.8	43.0-156	17.2	20	
Dichlorofluoromethane	mg/kg	0.125	0.108	0.0934	86.4	74.7	65.0-137	14.5	20	
1,1-Dichloroethane	mg/kg	0.125	0.127	0.110	102	88.0	70.0-127	14.3	20	
1,2-Dichloroethane	mg/kg	0.125	0.111	0.104	88.8	83.2	65.0-131	6.51	20	
1,1-Dichloroethene	mg/kg	0.125	0.148	0.123	118	98.4	65.0-131	18.5	20	
cis-1,2-Dichloroethene	mg/kg	0.125	0.138	0.129	110	103	73.0-125	6.74	20	
trans-1,2-Dichloroethene	mg/kg	0.125	0.123	0.103	98.4	82.4	71.0-125	17.7	20	
1,2-Dichloropropane	mg/kg	0.125	0.115	0.102	92.0	81.6	74.0-125	12.0	20	
1,1-Dichloropropene	mg/kg	0.125	0.122	0.106	97.6	84.8	73.0-125	14.0	20	
1,3-Dichloropropane	mg/kg	0.125	0.104	0.0977	83.2	78.2	80.0-125	6.25	20	L0
cis-1,3-Dichloropropene	mg/kg	0.125	0.103	0.0920	82.4	73.6	76.0-127	11.3	20	L0
trans-1,3-Dichloropropene	mg/kg	0.125	0.116	0.108	92.8	86.4	73.0-127	7.14	20	
2,2-Dichloropropane	mg/kg	0.125	0.121	0.101	96.8	80.8	59.0-135	18.0	20	
Diisopropyl ether	mg/kg	0.125	0.109	0.100	87.2	80.0	60.0-136	8.61	20	
Ethylbenzene	mg/kg	0.125	0.135	0.118	108	94.4	74.0-126	13.4	20	
Diethyl ether (Ethyl ether)	mg/kg	0.125	0.0949	0.0871	75.9	69.7	64.0-137	8.57	20	
Hexachloro-1,3-butadiene	mg/kg	0.125	0.114	0.0957	91.2	76.6	57.0-150	17.5	20	
Isopropylbenzene (Cumene)	mg/kg	0.125	0.104	0.0942	83.2	75.4	72.0-127	9.89	20	
p-Isopropyltoluene	mg/kg	0.125	0.133	0.117	106	93.6	72.0-133	12.8	20	
2-Butanone (MEK)	mg/kg	0.625	0.615	0.534	98.4	85.4	30.0-160	14.1	24	
Methylene Chloride	mg/kg	0.125	0.0960	0.0861	76.8	68.9	68.0-123	10.9	20	
4-Methyl-2-pentanone (MIBK)	mg/kg	0.625	0.643	0.594	103	95.0	56.0-143	7.92	20	
Methyl-tert-butyl ether	mg/kg	0.125	0.115	0.107	92.0	85.6	66.0-132	7.21	20	
Naphthalene	mg/kg	0.125	0.126	0.115	101	92.0	59.0-130	9.13	20	
n-Propylbenzene	mg/kg	0.125	0.125	0.109	100	87.2	74.0-126	13.7	20	
Styrene	mg/kg	0.125	0.103	0.0938	82.4	75.0	72.0-127	9.35	20	
1,1,1,2-Tetrachloroethane	mg/kg	0.125	0.113	0.106	90.4	84.8	74.0-129	6.39	20	
1,1,2,2-Tetrachloroethane	mg/kg	0.125	0.102	0.0934	81.6	74.7	68.0-128	8.80	20	
Tetrachloroethene	mg/kg	0.125	0.129	0.115	103	92.0	70.0-136	11.5	20	
Tetrahydrofuran	mg/kg	0.125	0.120	0.105	96.0	84.0	37.0-146	13.3	24	
Toluene	mg/kg	0.125	0.105	0.0922	84.0	73.8	75.0-121	13.0	20	L0
1,1,2-Trichlorotrifluoroethane	mg/kg	0.125	0.132	0.106	106	84.8	61.0-139	21.8	20	R1

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(612)607-1700

QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

LABORATORY CONTROL SAMPLE & LCSD: R3545605-1 R3545605-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,3-Trichlorobenzene	mg/kg	0.125	0.107	0.105	85.6	84.0	59.0-139	1.89	20	
1,2,4-Trichlorobenzene	mg/kg	0.125	0.116	0.110	92.8	88.0	62.0-137	5.31	20	
1,1,1-Trichloroethane	mg/kg	0.125	0.108	0.0900	86.4	72.0	69.0-126	18.2	20	
1,1,2-Trichloroethane	mg/kg	0.125	0.115	0.110	92.0	88.0	78.0-123	4.44	20	
Trichloroethene	mg/kg	0.125	0.129	0.115	103	92.0	76.0-126	11.5	20	
Trichlorofluoromethane	mg/kg	0.125	0.140	0.123	112	98.4	61.0-142	12.9	20	
1,2,3-Trichloropropane	mg/kg	0.125	0.119	0.113	95.2	90.4	67.0-129	5.17	20	
1,2,4-Trimethylbenzene	mg/kg	0.125	0.108	0.0955	86.4	76.4	70.0-126	12.3	20	
1,3,5-Trimethylbenzene	mg/kg	0.125	0.0978	0.0869	78.2	69.5	73.0-127	11.8	20	L0
Vinyl chloride	mg/kg	0.125	0.112	0.0978	89.6	78.2	63.0-134	13.5	20	
Xylene (Total)	mg/kg	0.375	0.351	0.308	93.6	82.1	72.0-127	13.1	20	
Allyl chloride	mg/kg	0.625	0.603	0.524	96.5	83.8	70.0-131	14.0	20	
Toluene-d8 (S)	%				108	107	75.0-131			
4-Bromofluorobenzene (S)	%				102	102	67.0-138			
1,2-Dichloroethane-d4 (S)	%				112	111	70.0-130			

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

QC Batch: 683402
QC Batch Method: EPA Mod. 3510C
Analysis Method: EPA 8270E by SIM
Analysis Description: 8270E Water PAH by SIM MSSV
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10522569023

METHOD BLANK: 3656346 Matrix: Water
Associated Lab Samples: 10522569023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	0.040	06/26/20 11:57	
Acenaphthylene	ug/L	ND	0.040	06/26/20 11:57	
Anthracene	ug/L	ND	0.040	06/26/20 11:57	
Benzo(a)anthracene	ug/L	0.14	0.040	06/26/20 11:57	1M
Benzo(a)pyrene	ug/L	0.047	0.040	06/26/20 11:57	1M
Benzo(b)fluoranthene	ug/L	0.14	0.040	06/26/20 11:57	1M
Benzo(g,h,i)perylene	ug/L	ND	0.040	06/26/20 11:57	1M
Benzo(k)fluoranthene	ug/L	0.063	0.040	06/26/20 11:57	1M
Chrysene	ug/L	0.16	0.040	06/26/20 11:57	1M
Dibenz(a,h)anthracene	ug/L	ND	0.040	06/26/20 11:57	
Fluoranthene	ug/L	0.12	0.040	06/26/20 11:57	1M
Fluorene	ug/L	ND	0.040	06/26/20 11:57	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.040	06/26/20 11:57	1M
Naphthalene	ug/L	ND	0.040	06/26/20 11:57	
Phenanthrene	ug/L	ND	0.040	06/26/20 11:57	1M
Pyrene	ug/L	0.14	0.040	06/26/20 11:57	1M
2-Fluorobiphenyl (S)	%.	83	50-125	06/26/20 11:57	
p-Terphenyl-d14 (S)	%.	114	58-125	06/26/20 11:57	

LABORATORY CONTROL SAMPLE & LCSD: 3656347 3656348

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Acenaphthene	ug/L	1	0.68	0.55	68	55	55-125	21	20	R1
Acenaphthylene	ug/L	1	0.69	0.55	69	55	54-125	23	20	R1
Anthracene	ug/L	1	0.73	0.72	73	72	60-125	2	20	
Benzo(a)anthracene	ug/L	1	0.98	0.71	98	71	61-125	31	20	R1
Benzo(a)pyrene	ug/L	1	0.81	0.71	81	71	64-125	14	20	
Benzo(b)fluoranthene	ug/L	1	0.85	0.73	85	73	64-125	16	20	
Benzo(g,h,i)perylene	ug/L	1	0.80	0.76	80	76	54-125	4	20	
Benzo(k)fluoranthene	ug/L	1	0.96	0.76	96	76	62-125	24	20	R1
Chrysene	ug/L	1	0.99	0.83	99	83	63-125	17	20	
Dibenz(a,h)anthracene	ug/L	1	0.76	0.73	76	73	45-125	5	20	
Fluoranthene	ug/L	1	1.1	0.73	109	73	66-125	39	20	R1
Fluorene	ug/L	1	0.70	0.60	70	60	59-125	14	20	
Indeno(1,2,3-cd)pyrene	ug/L	1	0.78	0.74	78	74	63-125	5	20	
Naphthalene	ug/L	1	0.68	0.55	68	55	53-125	22	20	R1
Phenanthrene	ug/L	1	0.74	0.73	74	73	64-125	2	20	
Pyrene	ug/L	1	1.2	0.87	124	87	67-125	36	20	R1
2-Fluorobiphenyl (S)	%.				67	55	50-125			

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

LABORATORY CONTROL SAMPLE & LCSD: 3656347 3656348

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
p-Terphenyl-d14 (S)	%.				90	85	58-125			

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

QC Batch: 1501621
QC Batch Method: SM 2540 G
Analysis Method: SM 2540G
Analysis Description: Total Solids 2540 G-2011
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 10522569002

METHOD BLANK: R3545275-1 Matrix: Solid
Associated Lab Samples: 10522569002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	%	0.00100		07/01/20 01:51	

LABORATORY CONTROL SAMPLE: R3545275-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	%	50.0	50.0	100	85.0-115	

SAMPLE DUPLICATE: R3545275-3

Parameter	Units	L1233767-01 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	%	87.7	86.9	0.990	10	

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QUALIFIERS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 683615

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1M	Analyte was detected method blank. Reported samples are ND for this analyte
2M	Results not confirmed by second analysis.
3M	The samples were kept frozen; thawed and extracted within the 6 month holding time as indicated by Minnesota Department of Agriculture Guidance Document 11 for extractions and analysis.
B	Analyte was detected in the associated method blank.
CC	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The result may be biased.
H1	Analysis conducted outside the recognized method holding time.
H2	Extraction or preparation was conducted outside of the recognized method holding time.
H3	Sample was received or analysis requested beyond the recognized method holding time.
H4	Sample re-extracted and analyzed outside of EPA method holding time.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

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QUALIFIERS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

ANALYTE QUALIFIERS

P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10522569004	**ASB-1 (0-0.5)**	EPA 351.2	195443	EPA 351.2	195716
10522569005	**ASB-1 (2-2.5)**	EPA 351.2	192624	EPA 351.2	192791
10522569007	**ASB-2 (0-0.5)**	EPA 351.2	195443	EPA 351.2	195716
10522569008	**ASB-2 (2-2.5)**	EPA 351.2	192449	EPA 351.2	192575
10522569010	**ASB-3 (0-0.5)**	EPA 351.2	195443	EPA 351.2	195716
10522569011	**ASB-3 (2-2.5)**	EPA 351.2	192449	EPA 351.2	192575
10522569012	**ASB-3 (4-4.5)**	EPA 351.2	195443	EPA 351.2	195716
10522569016	**ASB-7 (0-0.5)**	EPA 351.2	195443	EPA 351.2	195716
10522569017	**ASB-7 (2-2.5)**	EPA 351.2	192449	EPA 351.2	192575
10522569028	**ASB-8c (0-0.5)**	EPA 351.2	195443	EPA 351.2	195716
10522569029	**ASB-8c (2-2.5)**	EPA 351.2	192449	EPA 351.2	192575
10522569031	**DUP-18-06222020**	EPA 351.2	192449	EPA 351.2	192575
10522569023	**Equipment Blank (Water)**	EPA 351.2	192623	EPA 351.2	192790
10522569004	**ASB-1 (0-0.5)**	EPA 353.2	195312	EPA 353.2	195439
10522569005	**ASB-1 (2-2.5)**	EPA 353.2	192504	EPA 353.2	192529
10522569007	**ASB-2 (0-0.5)**	EPA 353.2	195312	EPA 353.2	195439
10522569008	**ASB-2 (2-2.5)**	EPA 353.2	192504	EPA 353.2	192529
10522569010	**ASB-3 (0-0.5)**	EPA 353.2	195312	EPA 353.2	195439
10522569011	**ASB-3 (2-2.5)**	EPA 353.2	192504	EPA 353.2	192529
10522569016	**ASB-7 (0-0.5)**	EPA 353.2	195312	EPA 353.2	195439
10522569017	**ASB-7 (2-2.5)**	EPA 353.2	192504	EPA 353.2	192529
10522569028	**ASB-8c (0-0.5)**	EPA 353.2	195312	EPA 353.2	195439
10522569029	**ASB-8c (2-2.5)**	EPA 353.2	192504	EPA 353.2	192529
10522569031	**DUP-18-06222020**	EPA 353.2	192504	EPA 353.2	192529
10522569023	**Equipment Blank (Water)**	EPA 353.2	192501		
10522569004	**ASB-1 (0-0.5)**	ASTM D 2974-13 (2013)	195812		
10522569007	**ASB-2 (0-0.5)**	ASTM D 2974-13 (2013)	195812		
10522569010	**ASB-3 (0-0.5)**	ASTM D 2974-13 (2013)	195812		
10522569012	**ASB-3 (4-4.5)**	ASTM D 2974-13 (2013)	195812		
10522569016	**ASB-7 (0-0.5)**	ASTM D 2974-13 (2013)	195812		
10522569028	**ASB-8c (0-0.5)**	ASTM D 2974-13 (2013)	195812		
10522569002	**ASB-10 (2-2.5)**	EPA 3050B	683241	EPA 6010D	683517
10522569005	**ASB-1 (2-2.5)**	EPA 3050B	683241	EPA 6010D	683517
10522569023	**Equipment Blank (Water)**	EPA 3010A	683251	EPA 6010D	683465
10522569023	**Equipment Blank (Water)**	EPA 7470A	683253	EPA 7470A	683381
10522569002	**ASB-10 (2-2.5)**	EPA 7471B	683244	EPA 7471B	683631

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10522569004	**ASB-1 (0-0.5)**	EPA 7471B	688597	EPA 7471B	689013
10522569005	**ASB-1 (2-2.5)**	EPA 7471B	683244	EPA 7471B	683631
10522569007	**ASB-2 (0-0.5)**	EPA 7471B	688597	EPA 7471B	689013
10522569008	**ASB-2 (2-2.5)**	EPA 7471B	683244	EPA 7471B	683631
10522569010	**ASB-3 (0-0.5)**	EPA 7471B	688597	EPA 7471B	689013
10522569011	**ASB-3 (2-2.5)**	EPA 7471B	683244	EPA 7471B	683631
10522569013	**ASB-4 (0-0.5)**	EPA 7471B	688597	EPA 7471B	689013
10522569014	**ASB-4 (2-2.5)**	EPA 7471B	683244	EPA 7471B	683631
10522569016	**ASB-7 (0-0.5)**	EPA 7471B	688597	EPA 7471B	689013
10522569017	**ASB-7 (2-2.5)**	EPA 7471B	683244	EPA 7471B	683631
10522569019	**ASB-13c (0-0.5)**	EPA 7471B	688597	EPA 7471B	689013
10522569020	**ASB-13c (2-2.5)**	EPA 7471B	683244	EPA 7471B	683631
10522569021	**ASB-13c (4-4.5)**	EPA 7471B	688597	EPA 7471B	689013
10522569022	**DUP-16-06222020**	EPA 7471B	683244	EPA 7471B	683631
10522569024	**DUP-17-06222020**	EPA 7471B	683244	EPA 7471B	683631
10522569025	**ASB-6c (0-0.5)**	EPA 7471B	688597	EPA 7471B	689013
10522569026	**ASB-6c (2-2.5)**	EPA 7471B	683244	EPA 7471B	683631
10522569028	**ASB-8c (0-0.5)**	EPA 7471B	688597	EPA 7471B	689013
10522569029	**ASB-8c (2-2.5)**	EPA 7471B	683244	EPA 7471B	683631
10522569030	**ASB-8c (4-4.5)**	EPA 7471B	688597	EPA 7471B	689013
10522569031	**DUP-18-06222020**	EPA 7471B	683244	EPA 7471B	683631
10522569002	**ASB-10 (2-2.5)**	ASTM D2974	684460		
10522569005	**ASB-1 (2-2.5)**	ASTM D2974	684460		
10522569008	**ASB-2 (2-2.5)**	ASTM D2974	684460		
10522569011	**ASB-3 (2-2.5)**	ASTM D2974	684460		
10522569014	**ASB-4 (2-2.5)**	ASTM D2974	684460		
10522569017	**ASB-7 (2-2.5)**	ASTM D2974	684460		
10522569020	**ASB-13c (2-2.5)**	ASTM D2974	684460		
10522569022	**DUP-16-06222020**	ASTM D2974	684460		
10522569024	**DUP-17-06222020**	ASTM D2974	684460		
10522569026	**ASB-6c (2-2.5)**	ASTM D2974	684460		
10522569029	**ASB-8c (2-2.5)**	ASTM D2974	684460		
10522569031	**DUP-18-06222020**	ASTM D2974	684460		
10522569023	**Equipment Blank (Water)**	EPA Mod. 3510C	683402	EPA 8270E by SIM	683615
10522569023	**Equipment Blank (Water)**	8260D	1503871	EPA 8260D	1503871
10522569002	**ASB-10 (2-2.5)**	5035A	1503026	EPA 8260D	1503026
10522569032	**MeOH Trip Blank**	5035A	1503026	EPA 8260D	1503026

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522569

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10522569002	**ASB-10 (2-2.5)**	SM 2540 G	1501621	SM 2540G	1501621

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 1 of 3

2295283

Section A Required Client Information:
Company: Braun Intertec
Address: 11001 Hampshire Ave S
Bloomington MN 55438
Email To: MKeefer@Braunintertec.com
Phone: Fax:
Requested Due Date/TAT: STD

Section B Required Project Information:
Report To: Mark Kiefer
Copy To:
Purchase Order No.:
Project Name: Hillcrest
Project Number: B1903316.00

Section C Invoice Information:
Attention:
Company Name:
Address: Same
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 34125

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER
Site Location STATE: MN

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes — MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	RCRA Metals	VOCs	Fungicides	List 2 Pesticides	Mercury	Nitrate-Nitrite	TKN	HOLD	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	ASB-10 (0-0.5) HOLD	SL	G			6/22/20	1038		5	3					2			X	X	X	X				X		1
2	ASB-10 (2-2.5)						1051																				2
3	ASB-10 (4-4.5) HOLD						1057																			X	3
4	ASB-1 (0-0.5) HOLD						1119		4	4								X				X	X	X	X	4
5	ASB-1 (2-2.5)						1126																			5
6	ASB-1 (4-4.5) HOLD						1131																			X	6
7	ASB-2 (0-0.5) HOLD						1152		3	3												X	X	X	X	7
8	ASB-2 (2-2.5)						1159																			8
9	ASB-2 (4-4.5) HOLD						1205																			9
10	ASB-3 (0-0.5) HOLD						1227		3	3												X	X	X	X	10
11	ASB-3 (2-2.5)						1134																			11
12	ASB-3 (4-4.5) HOLD						1140																			X	12

TKN only

ADDITIONAL COMMENTS

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Graham Hanson/Braun	6/22/20	1956	RAG	6.23.20	0930	3.0 Y N Y
RAG	6.23.20	0930	Chuck B/Pace	6/23/20	1020	
Chuck B/Pace	6/23/20	1150				Y N Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Graham Hanson
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 06/22/20

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

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Page: 2 of 3

2295284

Section A Required Client Information:
Company: Brown Intertec
Address: 11001 Hampshire Ave S
Bloomington MN 55438
Email To: MKeeter@Browninterteccom
Phone: Fax:
Requested Due Date/TAT: STD

Section B Required Project Information:
Report To: Mark Keeter
Copy To:
Purchase Order No.:
Project Name: Hillcrest
Project Number: B190331 6.00

Section C Invoice Information:
Attention:
Company Name:
Address: Same
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 34125

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER
Site Location STATE: MN

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: Mercury	List 2 Pesticides	Fungicides	Nitrite/Nitrate	TKN	RCRA Metals	PAHs	VOCs	HOLD	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	ASB-4 (0-0.5) HOLD	SL	G			6/22/20	1257		3	3								X	X	X						X		13
2	ASB-4 (2-2.5)						1305																					14
3	ASB-4 (4-4.5) HOLD						1310																					15
4	ASB-7 (0-0.5) HOLD						1330		5	5								X	X	X						X		16
5	ASB-7 (2-2.5)						1340											X	X	X	X	X				X		17
6	ASB-7 (4-4.5) HOLD						1350																					18
7	ASB-13 C (0-0.5) HOLD		C				1423		3	3								X	X	X						X		19
8	ASB-13 C (2-2.5)		C				1430																					20
9	ASB-13 C (4-4.5) HOLD		G				1415																					21
10	DUP-16-06222020		C				1200		3	3								X	X	X						X		22
11	Equipment Blank (Water)	WT	G				1500		13	6	2	1	4						X	X	X	X	X	X	X			23
12	DUP-17-06222020	SL	C				1201		3	3								X	X	X						X		24

Mercury only

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Graham Hanson/Brown	6/22/20	1956	PACE	6.23.20	0930	3.0 Y N Y
	PACE	6.23.20	0930	Chloe G/Pace	6/23/20	1020	
	Chloe G/Pace	6/23/20	1150				Y N Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Graham Hanson
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 06/22/20

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

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REVISED COC

Page: 3 of 3

2295285

Section A Required Client Information:
Company: Braun Intertec
Address: 11001 Hampshire Ave S.
Bloomington MN 55438
Email To: MLester@braunintertec.com
Phone: Fax:
Requested Due Date/TAT: STD

Section B Required Project Information:
Report To: Mark Lester
Copy To:
Purchase Order No.:
Project Name: Hillcrest
Project Number: B1903316.00

Section C Invoice Information:
Attention:
Company Name:
Address: Same
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 34125

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER
Site Location STATE: MN

Section D Required Client Information

Matrix Codes — MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Mercury	List 2 Pesticides	Fungicides	Nitrite/Nitrate	TKN	VOCs	HOLD	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	ASB-6C (0-0.5) HOLD	SL	C			6/22/20	1550		3	3									X	X	X				X		25
2	ASB-6C (2-2.5)		C				1541																				26
3	ASB-6C (4-4.5) HOLD		G				1530																		X		27
4	ASB-8C (0-0.5) HOLD		C				1647		5	5									X	X	X	X	Y		X		28
5	ASB-8C (2-2.5)		C				1630																				29
6	ASB-8C (4-4.5) HOLD		G				1610																		X		30
7	DUP-18-06222020		C				1202		5	5									X	X	X	X	X				31
8	MeOH Trip Blank					6/22/20			2							2							X				32
9																											
10																											
11																											
12																											

Mercury only

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Graham Hanson/Braun	6/22/20	1956	PACE	6.23.20	0930	3.0	Y	N	Y
	PACE	6.23.20	0930	Charles B/ Pace	6/23/20	1020				
	Charles B/ Pace	6/23/20	1100					Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Graham Hanson
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 06/22/20

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Page: 1 of 3

2295283

Section A Required Client Information:
Company: Braun Intertec
Address: 11001 Hampshire Ave S
Bloomington MN 55438
Email To: MKeefer@Braunintertec.com
Phone: Fax:
Requested Due Date/TAT: STD

Section B Required Project Information:
Report To: Mark Kiefer
Copy To:
Purchase Order No.:
Project Name: Hillcrest
Project Number: B1903316.00

Section C Invoice Information:
Attention:
Company Name:
Address: Same
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 34125

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER
Site Location STATE: MN

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: RCRA Metals	VOCs	Fungicides	List 2 Pesticides	Mercury	Nitrat-Nitrite	TKN	HOLD	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	ASB-10 (0-0.5) HOLD	SL	G			6/22/20	1038		5	3						2		X	X	X	X				X		1
2	ASB-10 (2-2.5)						1051																				2
3	ASB-10 (4-4.5) HOLD						1057																		X		3
4	ASB-1 (0-0.5) HOLD						1119		4	4								X				X	X	X	X		4
5	ASB-1 (2-2.5)						1126																				5
6	ASB-1 (4-4.5) HOLD						1131																		X		6
7	ASB-2 (0-0.5) HOLD						1152		3	3												X	X	X	X		7
8	ASB-2 (2-2.5)						1159																				8
9	ASB-2 (4-4.5) HOLD						1205																		X		9
10	ASB-3 (0-0.5) HOLD						1227		3	3												X	X	X	X		10
11	ASB-3 (2-2.5)						1134																				11
12	ASB-3 (4-4.5) HOLD						1140																		X		12

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Graham Hanson/Braun	6/22/20	1956	RAM	6.23.20	0930	3.0	Y	N	Y
	RAM	6.23.20	0930	Chuck B/Pace	6/23/20	1020				
	Chuck B/Pace	6/23/20	1150					Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Graham Hanson
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 06/22/20

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CHAIN-OF-CUSTODY / Analytical Request Document

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REVISED COC

Page: 2 of 3

2295284

Section A Required Client Information:
Company: Brown Intertech
Address: 11001 Hampshire Ave S
Bloomington MN 55438
Email To: MKeeter@Brownintertech.com
Phone: Fax:
Requested Due Date/TAT: STD

Section B Required Project Information:
Report To: Mark Keeter
Copy To:
Purchase Order No.:
Project Name: Hillcrest
Project Number: B1903316.00

Section C Invoice Information:
Attention:
Company Name:
Address: Same
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 34125

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER
Site Location STATE: MN

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: Mercury	List 2 Pesticides	Fungicides	Nitrite/Nitrate	TKN	RCRA Metals	PAHs	VOCs	HOLD	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	ASB-4 (0-0.5) HOLD	SL	G			6/22/20	1257		3	3									X	X	X						X	13
2	ASB-4 (2-2.5)						1305																					14
3	ASB-4 (4-4.5) HOLD						1310																					15
4	ASB-7 (0-0.5) HOLD						1330		5	5									X	X	X						X	16
5	ASB-7 (2-2.5)						1340																					17
6	ASB-7 (4-4.5) HOLD						1350																					18
7	ASB-13 C (0-0.5) HOLD		C				1423		3	3									X	X	X						X	19
8	ASB-13 C (2-2.5)		C				1430																					20
9	ASB-13 C (4-4.5) HOLD		G				1415																					21
10	DUP-16-06222020		C				1200		3	3									X	X	X						X	22
11	Equipment Blank (Water)	WT	G				1500		13	6	2	1	4							X	X	X	X	X	X	X		23
12	DUP-17-06222020	SL	C				1201		3	3									X	X	X							24

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Graham Hanson/Brown	6/22/20	1956	PACE	6.23.20	0930	3.0	Y	N	Y
	PACE	6.23.20	0930	Chris S/Pace	6/23/20	1020				
	Chris S/Pace	6/23/20	1150					Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Graham Hanson
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 06/22/20

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

REVISED COC

Page: 3 of 3

2295285

Section A Required Client Information:
Company: Braun Intertec
Address: 11001 Hampshire Ave S.
Bloomington MN 55438
Email To: MLester@braunintertec.com
Phone: Fax:
Requested Due Date/TAT: STD

Section B Required Project Information:
Report To: Mark Lester
Copy To:
Purchase Order No.:
Project Name: Hillcrest
Project Number: B1903316.00

Section C Invoice Information:
Attention:
Company Name:
Address: Same
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 34125

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER
Site Location STATE: MN

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID (A-Z, 0-9 / ,) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Mercury	List 2 Pesticides	Fungicides	Nitrite/Nitrate	TKN	VOCs	HOLD	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	ASB-6C (0-0.5) HOLD	SL	C			6/22/20	1550		3	3									X	X	X				X		25
2	ASB-6C (2-2.5)		C				1541																				26
3	ASB-6C (4-4.5) HOLD		G				1530																		X		27
4	ASB-8C (0-0.5) HOLD		C				1647		5	5									X	X	X	X	Y		X		28
5	ASB-8C (2-2.5)		C				1630																				29
6	ASB-8C (4-4.5) HOLD		G				1610																		X		30
7	DUP-18-06222020		C				1202		5	5									X	X	X	X	X				31
8	MeOH Trip Blank					6/22/20			2							2							X				32
9																											
10																											
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Graham Hanson/Braun	6/22/20	1956	PACE	6.23.20	0930	3.0	Y	N	Y
	PACE	6.23.20	0930	Chuck B/ Pace	6/23/20	1020				
	Chuck B/ Pace	6/23/20	1100					Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Graham Hanson
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 06/22/20

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CHAIN-OF-CU

The Chain-of-Custody is

WO# : 10522569

10522569

Page: 1 of

2295283

Section A Required Client Information:

Company: Braun Intertec
Address: 11001 Hampshire Ave S
Bloomington, MN 55438
Email To: MKiefer@Braunintertec.com
Phone: Fax:
Requested Due Date/TAT: STD

Section B Required Project Information:

Report To: Mark Kiefer
Copy To:
Purchase Order No.:
Project Name: Hillcrest
Project Number: B1903316.00

Attention:
Company Name:
Address: Same
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 34125

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MN

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: RCRA Metals	VOCs	Fungicides	List 2 Pesticides	Mercury	Nitrate-Nitrite	TKN	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	ASB-10 (0-0.5)	SL	G			6/22/20	1038		5	3						2		X	X	X	X					001
2	ASB-10 (2-2.5)						1051																			002
3	ASB-10 (4-4.5)						1057																			003
4	ASB-1 (0-0.5)						1119		4	4								X				X	X	X		004
5	ASB-1 (2-2.5)						1126																			005
6	ASB-1 (4-4.5)						1131																			006
7	ASB-2 (0-0.5)						1152		3	3													X	X	X	007
8	ASB-2 (2-2.5)						1159																			008
9	ASB-2 (4-4.5)						1205																			009
10	ASB-3 (0-0.5)						1227		3	3													X	X	X	010
11	ASB-3 (2-2.5)						1134																			011
12	ASB-3 (4-4.5)						1140																			012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Graham Hanson/Braun	6/22/20	1956	PACE	6.23.20	0930	3.0 Y N Y
	PACE	6.23.20	0930	Chase D/Pace	6/23/20	1020	
	Chase D/Pace	6/23/20	1150		6/23/20	1150	Y N Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Graham Hanson
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 06/22/20

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

ORIGINAL

F-ALL-C-010-rev.00, 09Nov2017

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 of

2295284

Section A Required Client Information:

Company:	Braun Intertec
Address:	11001 Hampshire Ave S Bloomington, MN 55438
Email To:	MKeeter@Brauninterteccom
Phone:	
Fax:	
Requested Due Date/TAT:	STD

Section B Required Project Information:

Report To:	Mark Keeter
Copy To:	
Purchase Order No.:	
Project Name:	Hillcrest
Project Number:	B1903316.00

Section C Invoice Information:

Attention:	
Company Name:	Same
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	34125

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MN

Section D Required Client Information

Matrix Codes MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): Mercury	List 2 Pesticides	Fungicides	Nitrite/Nitrate	TKN	RCRA Metals	PAHs	VOCs	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	ASB-4 (0-0.5)	SL	G			6/22/20	1257		3	3									X	X	X						~~11~~ 013
2	ASB-4 (2-2.5)	↓	↓			↓	1305		↓	↓									↓	↓	↓						~~12~~ 014
3	ASB-4 (4-4.5)	↓	↓			↓	1310		↓	↓									↓	↓	↓						~~13~~ 015
4	ASB-7 (0-0.5)	↓	↓			↓	1330		5	5									X	X	X	X	X				~~14~~ 016
5	ASB-7 (2-2.5)	↓	↓			↓	1340		↓	↓									↓	↓	↓	↓	↓				~~15~~ 017
6	ASB-7 (4-4.5)	↓	↓			↓	1350		↓	↓									↓	↓	↓	↓	↓				~~16~~ 018
7	ASB-13 C (0-0.5)	↓	C			↓	1423		3	3									X	X	X						~~17~~ 019
8	ASB-13 C (2-2.5)	↓	C			↓	1430		↓	↓									↓	↓	↓						~~18~~ 020
9	ASB-13 C (4-4.5)	↓	G			↓	1415		↓	↓									↓	↓	↓						~~19~~ 021
10	DUP-16-06222020	↓	C			↓	1200		3	3									X	X	X						~~20~~ 022
11	Equipment Blank (Water)	WT	G			↓	1500		13	6	2	1	4							X	X	X		X	X	X	21 023
12	DUP-17-06222020	SL	C			↓	1201		3	3									X	X	X						024

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Graham Hanson/Braun	6/22/20	1956	[signature] PACE	6.23.20	0930	3.0	Y	N	Y
	[signature] PACE	6.23.20	0930	[signature] / Pace	6/23/20	1020				
	[signature] / Pace	6/23/20	1100	[signature]	6/23/20	11:50		Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Graham Hanson

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 06/22/20

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-C-010-rev.00, 09Nov2017

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 3 of

2295285

Section A Required Client Information:

Company: Braun Intertec
Address: 11001 Hampshire Ave S.
Bloomington MN 55438
Email To: MKeeler@braunintertec.com
Phone: Fax:
Requested Due Date/TAT: STD

Section B Required Project Information:

Report To: Mark Keeler
Copy To:
Purchase Order No.:
Project Name: Hillcrest
Project Number: B1903316.00

Section C Invoice Information:

Attention:
Company Name:
Address: Same
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 34125

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MN

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Mercury	List 2 Pesticides	Fungicides	Nitrite/Nitrate	TKN	VOCs	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	ASB-6C (0-0.5)	SL	C			6/22/20	1550		3	3									X	X	X					25
2	ASB-6C (2-2.5)		C				1541																			26
3	ASB-6C (4-4.5)		G				1530																			27
4	ASB-8C (0-0.5)		C				1647		5	5									X	X	X	X	Y			28
5	ASB-8C (2-2.5)		C				1630																			29
6	ASB-8C (4-4.5)		G				1610																			30
7	DUP-18-06222020		C				1202		5	5									X	X	X	X	X			31
8	MeOH Trip Blank					6/22/20			2							2								X		32
9																										
10																										
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Graham Hanson/Braun	6/22/20	1956	PACE	6.23.20	0930	3.0	Y	N	Y
	PACE	6.23.20	0930	Chase B/ Pace	6/23/20	1020				
	Chase B/ Pace	6/23/20	1100		6/23/20	1150		Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Graham Hanson

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 06/22/20

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical®	Document Name: **Sample Condition Upon Receipt (SCUR) - MN**	Document Revised: 27Mar2020 **Page 1 of 1**
	Document No.: **ENV-FRM-MIN4-0150 Rev.00**	Pace Analytical Services - **Minneapolis**

Sample Condition Upon Receipt

Client Name: Braun

Project #: TK 6/23/20

WO#: 10522569

PM: BM2 **Due Date: 06/30/20**

CLIENT: Braun-BLM

Courier: ☐Fed Ex ☐UPS ☐USPS ☒~~Client~~ ☒Pace ☐SpeeDee ☐Commercial **See Exceptions** ☐

Tracking Number:

Custody Seal on Cooler/Box Present? ☐Yes ☒No **Seals Intact?** ☐Yes ☒No **Biological Tissue Frozen?** ☐Yes ☐No ☒~~N/A~~

Packing Material: ☒Bubble Wrap ☒Bubble Bags ☐None ☐Other: **Temp Blank?** ☒Yes ☐No

Thermometer: ☐T1(0461) ☐T2(1336) ☐T3(0459) ☐T4(0254) ☒T5(0489) **Type of Ice:** ☒Wet ☐Blue ☐None ☐Dry ☐Melted

Did Samples Originate in West Virginia? ☐Yes ☒No **Were All Container Temps Taken?** ☐Yes ☐No ☒N/A

Temp should be above freezing to 6°C **Cooler Temp Read w/temp blank:** 6.9, 7.3, 6.4, 6.4, 6.6, 6.7 °C

Correction Factor: True **Cooler Temp Corrected w/temp blank:** 6.9, 7.3, 6.4, 6.4, 6.6, 6.7 °C

Average Corrected Temp (no temp blank only): ☐See Exceptions ____ °C ☐1 Container

USDA Regulated Soil: (☐ N/A, water sample/Other:) **Date/Initials of Person Examining Contents:** TK 6/23/20

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐Yes ☒No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐Yes ☒No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present and Filled Out?	☒Yes	☐No		1.
Chain of Custody Relinquished?	☒Yes	☐No		2.
Sampler Name and/or Signature on COC?	☒Yes	☐No	☐N/A	3.
Samples Arrived within Hold Time?	☒Yes	☐No		4.
Short Hold Time Analysis (<72 hr)?	☐Yes	☒No		5. ☐Fecal Coliform ☐HPC ☐Total Coliform/E coli ☐BOD/cBOD ☐Hex Chrome ☐Turbidity ☐Nitrate ☐Nitrite ☐Orthophos ☐Other
Rush Turn Around Time Requested?	☐Yes	☒No		6.
Sufficient Volume?	☒Yes	☐No		7.
Correct Containers Used? -Pace Containers Used?	☒Yes ☒Yes	☐No ☐No		8.
Containers Intact?	☒Yes	☐No		9.
Field Filtered Volume Received for Dissolved Tests?	☐Yes	☐No	☒N/A	10. Is sediment visible in the dissolved container? ☐Yes ☐No
Is sufficient information available to reconcile the samples to the COC? Matrix: ☒Water ☒Soil ☐Oil ☐Other	☒Yes	☐No		11. **If no, write ID/ Date/Time on Container Below:** 2 containers of ASB-1 (2-2.5) Labeled Incorrectly as ASB-1 (0-0.5) **See Exception** ☐
All containers needing acid/base preservation have been checked?	☒Yes	☐No	☐N/A	12. Sample # 23
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide)	☒Yes	☐No	☐N/A	1/1 2/2 ☐NaOH ☒HNO_3 ☒H_2SO_4 ☐Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☒Yes	☐No	☐N/A	Positive for Res. Chlorine? ☐Yes ☐No **pH Paper Lot#** **See Exception** ☐
				Res. Chlorine: 0-6 Roll 203619; 0-6 Strip; 0-14 Strip
Extra labels present on soil VOA or WIDRO containers?	☒Yes	☐No	☐N/A	13. **See Exception** ☐
Headspace in VOA Vials (greater than 6mm)?	☐Yes	☒No	☐N/A	
Trip Blank Present?	☒Yes	☐No	☐N/A	14. Pace Trip Blank Lot # (if purchased): 0518203 (2)
Trip Blank Custody Seals Present?	☒Yes	☐No	☐N/A	

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐Yes ☐No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: BM **Date:** 6/24/2020

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: CMA

Service Center Transfer Checklist

Service Center: MPLS ☐ BLM ☒ AZ ☐

Client: Braun Intertec

Destination Lab: MPLS ☒ VM ☐ Duluth ☐

National ☐ Other _____

Received w/ Custody Seal ? Yes ☐ No ☑

Custody Seal Intact ? Yes ☐ No ☑

	Temp Read	Corr. Factor	Corr. Temp
Temperature °C	1.4, 1.5, 2.9, 2.2, 2.0,	+0.1	1.5, 1.6, 3.0, 2.3, 2.1

IR Gun: B88A0143310092 ☐ Samples on ice, in cool down

Rush ☐ **Short Hold** ☐ **N/A** ☑

Containers Intact ? Yes ☑ No ☐

Repacked and Re-Iced ? Yes ☐ No ☑

Notes: 1 cooler out of temp w/ no temp blank. OOT sticker!

Container temps:
6.9, 7.3, 6.4, 6.4, 6.6, 6.7

Chain of Custody

Pace Analytical®
www.pacelabs.com

☐ Samples were sent directly to the Subcontracting Laboratory.

A202610

State Of Origin: MN
Cert. Needed: [x] Yes [ ] No

Workorder: 10522569 **Workorder Name:** B1903316.00 Hillcrest

Owner Received Date: 6/23/2020 **Results Requested By:** 7/8/2020

Report To	Subcontract To
Bob Michels Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)709-5046	Pace Analytical Madison 2525 Advance Road Madison, WI 53718 Phone (608)221-8700

JGFU-Soils
AG1U-Water

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	Requested Analysis: MDA List 2 Pesticides	LAB USE ONLY
1	ASB-10 (2-2.5)	PS	6/22/2020 10:51	10522569002	Solid	1	X	01
2	ASB-4 (2-2.5)	PS	6/22/2020 13:05	10522569014	Solid	1	X	02
3	ASB-7 (2-2.5)	PS	6/22/2020 13:40	10522569017	Solid	1	X	03
4	ASB-13c (2-2.5)	PS	6/22/2020 14:30	10522569020	Solid	1	X	04
5	DUP-16-06222020	PS	6/22/2020 12:00	10522569022	Solid	1	X	05
6	Equipment Blank (Water)	PS	6/22/2020 15:00	10522569023	Water	2	X	06
7	DUP-17-06222020	PS	6/22/2020 12:01	10522569024	Solid	1	X	07
8	ASB-6c (2-2.5)	PS	6/22/2020 15:41	10522569026	Solid	1	X	08
9	ASB-8c (2-2.5)	PS	6/22/2020 16:30	10522569029	Solid	1	X	09
10	DUP-18-06222020	PS	6/22/2020 12:02	10522569031	Solid	1	X	10

Transfers	Released By	Date/Time	Received By	Date/Time
1			[signature]	6/25/20 1050
2				
3				

Comments

Cooler Temperature on Receipt 2.2 °C | **Custody Seal** Y or N | **Received on Ice** (Y) or N | **Samples Intact** (Y) or N

S/N 140142274
Exp 12/19/20

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.
This chain of custody is considered complete as is since this information is available in the owner laboratory.

Internal Transfer Chain of Custody

☐ Samples Pre-Logged into eCOC.

A203015

State Of Origin: MN
Cert. Needed: ☒ Yes ☐ No
Owner Received Date: 6/23/2020 **Results Requested By:** 8/5/2020

Pace Analytical® www.pacelabs.com

Workorder: 10522569 **Workorder Name:** B1903316.00 Hillcrest

Report To

Bob Michels
Pace Analytical Minnesota
1700 Elm Street
Suite 200
Minneapolis, MN 55414
Phone (612)709-5046

Subcontract To

Pace Analytical Madison
2525 Advance Road
Madison, WI 53718
Phone (608)221-8700

JGFU

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved						Requested Analysis: MDA List 2 Pesticides												LAB USE ONLY
1	ASB-10 (2-2.5)	PS	6/22/2020 10:51	10522569002	Solid																			
2	ASB-4 (0-0.5)	PS	6/22/2020 12:57	10522569013	Solid	1						X												01
3	ASB-4 (2-2.5)	PS	6/22/2020 13:05	10522569014	Solid																			
4	ASB-7 (0-0.5)	PS	6/22/2020 13:30	10522569016	Solid	1						X												02
5	ASB-7 (2-2.5)	PS	6/22/2020 13:40	10522569017	Solid																			
6	ASB-13c (0-0.5)	PS	6/22/2020 14:23	10522569019	Solid	1						X												03
7	ASB-13c (2-2.5)	PS	6/22/2020 14:30	10522569020	Solid																			
8	DUP-16-06222020	PS	6/22/2020 12:00	10522569022	Solid																			
9	Equipment Blank (Water)	PS	6/22/2020 15:00	10522569023	Water																			
10	DUP-17-06222020	PS	6/22/2020 12:01	10522569024	Solid																			
11	ASB-6c (0-0.5)	PS	6/22/2020 15:50	10522569025	Solid	1						X												04
12	ASB-6c (2-2.5)	PS	6/22/2020 15:41	10522569026	Solid																			
13	ASB-8c (0-0.5)	PS	6/22/2020 16:47	10522569028	Solid	1						X												05
14	ASB-8c (2-2.5)	PS	6/22/2020 16:30	10522569029	Solid																			
15	DUP-18-06222020	PS	6/22/2020 12:02	10522569031	Solid																			

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1	[illegible]	7/22/2015:45	[illegible]	7/23/20 11:30	
2					
3					

Cooler Temperature on Receipt 2.4 °C	Custody Seal Y or N	Received on Ice Y or N	Samples Intact Y or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.

This chain of custody is considered complete as is since this information is available in the owner laboratory.

S/N 1601422774
Exp 12/19/20

A203015

20056

Chain of Custody

PASI Minnesota Laboratory

Pace Analytical®
www.pacelabs.com

Workorder: 10522569 **Workorder Name:** B1903316.00 Hillcrest **Results Requested By:** 8/5/2020

Report / Invoice To	Subcontract To
Bob Michels Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)709-5046 Email: bob.michels@pacelabs.com	P.O. 10522569 Synergistic Pesticide Laboratory, LLC 2700 N Hayden Island Dr Portland, OR 97217 503-641-0500

State of Sample Origin: MN

JGFU

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	** Fungicides	LAB USE ONLY
1	ASB-4 (0-0.5)	6/22/2020 12:57	10522569013	Solid	1	X	20056 01
2	ASB-7 (0-0.5)	6/22/2020 13:30	10522569016	Solid	1	X	02
3	ASB-13c (0-0.5)	6/22/2020 14:23	10522569019	Solid	1	X	03
4	ASB-6c (0-0.5)	6/22/2020 15:50	10522569025	Solid	1	X	04
5	ASB-8c (0-0.5)	6/22/2020 16:47	10522569028	Solid	1	X	05

Transfers	Released By	Date/Time	Received By	Date/Time
1	[illegible]	7/22/2015 [illegible]		
2			[illegible] SPL	7/23/2020
3				9:50

Comments

Cooler Temperature on Receipt 1.3 °C | **Custody Seal** (Y) or N | **Received on Ice** (Y) or N | **Samples Intact** (Y) or N

Synergistic Pesticide Laboratory, LLC
Sample Receipt Checklist

Project # 20056
Date 7/23/20
Initials MH

Client Pace Minnesota
Method of Arrival: UPS (FedEx) USPS client delivered courier lab other
Tracking # 1320 7523 2924

Custody Seals Present: (Y) N
If yes: transport container sample container Signed: See back
Date: 7/22

Temperature (°C): 1.3 (IR) digital
Type of coolant: (ice) blue/gel ice other none

Are all samples present?	(Y)	N
Are samples intact?	(Y)	N
Documentation provided?	(COC)	SS Form Email Letter PO None Other:_____
Does sample information match documentation?	(Y)	N NA
Is the documentation signed?	(Y)	N NA
Are the samples within hold time?	Y	(N) NA
Is the sampling date provided?	(Y)	N
Is there sufficient sample volume?	(Y)	N
Are the samples in appropriate containers?	(Y)	N
Do the containers originate from SPL?	Y	(N)

Sample Description:

#	Matrix	#	Container
5	BB CHRY FRESH EXT PREP OTHER:_____ RBB BLK IQF FLR H2O (SOIL) STRW RSP CANNED OIL FOLIAGE/TISSUE:_____	1	ZL-GAL WP-LG MY-LG POLY VIAL 1L AMB 8OZ JAR ZL-SM WP-SM MY-SM GL VIAL 1 GAL POLY (4OZ JAR) OTHER:_____ SYR WAX CENT TUBE SOIL BAG
	BB CHRY FRESH EXT PREP OTHER:_____ RBB BLK IQF FLR H2O SOIL STRW RSP CANNED OIL FOLIAGE/TISSUE:_____		ZL-GAL WP-LG MY-LG POLY VIAL 1L AMB 8OZ JAR ZL-SM WP-SM MY-SM GL VIAL 1 GAL POLY 4OZ JAR OTHER:_____ SYR WAX CENT TUBE SOIL BAG
	BB CHRY FRESH EXT PREP OTHER:_____ RBB BLK IQF FLR H2O SOIL STRW RSP CANNED OIL FOLIAGE/TISSUE:_____		ZL-GAL WP-LG MY-LG POLY VIAL 1L AMB 8OZ JAR ZL-SM WP-SM MY-SM GL VIAL 1 GAL POLY 4OZ JAR OTHER:_____ SYR WAX CENT TUBE SOIL BAG

Comments:_____

L1233810

Chain of Custody

Pace Analytical®
www.pacelabs.com

☐ Samples were sent directly to the Subcontracting Laboratory.

State Of Origin: MN
Cert. Needed: ☒ Yes ☐ No
Owner Received Date: 6/23/2020 **Results Requested By:** 7/8/2020

Workorder: 10522569 **Workorder Name:** B1903316.00 Hillcrest

Report To

Bob Michels
Pace Analytical Minnesota
1700 Elm Street
Suite 200
Minneapolis, MN 55414
Phone (612)709-5046

Subcontract To

Pace National
12064 Lebanon Road
Mt. Juliet, TN 37122

Requested Analysis

A037

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: HCL (VG9H)	MeOH (VG9M)	Other (DWC)	Dry weight	VOCs by 8260D	LAB USE ONLY
1	ASB-10 (2-2.5)	PS	6/22/2020 10:51	10522569002	Solid		2	1	X	X	-01
2	Equipment Blank (Water)	PS	6/22/2020 15:00	10522569023	Water	4				X	-02
3	MeOH Trip Blank	PS	6/22/2020 00:00	10522569032	Solid		1			X	-03
4											
5											

Transfers	Released By	Date/Time	Received By	Date/Time
1	[illegible] /Pace	6/25/20 15:20	Sandy yosse F	6/26/20 8:45
2				
3				

Comments

Cooler Temperature on Receipt 2.4 °C | **Custody Seal** Y or N | **Received on Ice** Y or N | **Samples Intact** Y or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.*
This chain of custody is considered complete as is since this information is available in the owner laboratory.

IWPA3
2.8-.4=2.4

RAD SCREEN: <0.5 mR/hr

Pace Analytical National Center for Testing & Innovation
Cooler Receipt Form

Client: PACEMN	L1233810	
Cooler Received/Opened On: 6 / 26 / 20 Temperature:	2.4	°C
Received By: Sandy Yossef		
Signature: Sandy Yossef		

Receipt Check List	NP	Yes	No
COC Seal Present / Intact?	✓		
COC Signed / Accurate?		✓	
Bottles arrive intact?		✓	
Correct bottles used?		✓	
Sufficient volume sent?		✓	
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			

WO#:12146212

12146212

Chain of Custody

☐ Samples were sent directly to the Subcontracting Laboratory.

State Of Origin: MN
Cert. Needed: [X] Yes [ ]

Workorder: 10522569 **Workorder Name:** B1903316.00 Hillcrest

Owner Received Date: 6/23/2020 **Results Requested By:** 7/8/2020

Report To	Subcontract To
Bob Michels Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)709-5046	Pace Analytical Virginia MN 315 Chestnut Street Virginia, MN 55792 Phone (218)742-1042

						Preserved Containers						Requested Analysis												
						BP3S	JGFU					Nitrate + Nitrite 353.2	Total Kjeldahl Nitrogen 351.2											
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	H2SO4	Unpreserved																	LAB USE ONLY
1	ASB-1 (2-2.5)	PS	6/22/2020 11:26	10522569005	Solid		1					X	X											
2	ASB-2 (2-2.5)	PS	6/22/2020 11:59	10522569008	Solid		1					X	X											
3	ASB-3 (2-2.5)	PS	6/22/2020 11:34	10522569011	Solid		1					X	X											
4	ASB-7 (2-2.5)	PS	6/22/2020 13:40	10522569017	Solid		1					X	X											
5	Equipment Blank (Water)	PS	6/22/2020 15:00	10522569023	Water	2						X	X											
6	ASB-8c (2-2.5)	PS	6/22/2020 16:30	10522569029	Solid		1					X	X											
7	DUP-18-06222020	PS	6/22/2020 12:02	10522569031	Solid		1					X	X											

Transfers	Released By	Date/Time	Received By	Date/Time
1	[illegible] /Pace	6/24/20 11:15	[illegible] 6/24/20	1845
2	[illegible] 6/24/20	2350	B. Mathews	6/25/20 0645
3				

Comments

Cooler Temperature on Receipt 2.7 °C | **Custody Seal** (Y) or N | **Received on Ice** (Y) or N | **Samples Intact** (Y) or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.*

Pace Analytical	Document Name: Sample Condition Upon Receipt Form	Document Revised: 25Feb2020 Page 1 of 1
	Document No.: F-VM-C-001-rev.14	Issuing Authority: Pace Virginia Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Pace MN

Project #:

WO#: 12146212

PM: LM2 **Due Date: 07/08/20**

CLIENT: PACE MPLS

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other:

Tracking Number:

Custody Seal on Cooler/Box Present? ☒ Yes ☐ No Seals Intact? ☒ Yes ☐ No Optional: Proj. Due Date: Proj. Name:

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other: Temp Blank? ☒ Yes ☐ No

Thermometer Used: ☒ 140792808 Type of Ice: ☐ Wet ☐ Blue ☐ None ☒ Samples on ice, cooling process has begun

Cooler Temp Read °C: 2.4 Cooler Temp Corrected °C: 2.7 Biological Tissue Frozen? ☐ Yes ☐ No ☒ NA

Temp should be above freezing to 6 °C Correction Factor: 0.3 Date and Initials of Person Examining Contents: 6/24/20 DL

				Comments: BM 6/25/20
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☒ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☒ Yes	☐ No	☐ N/A	3.
Sampler Name and Signature on COC?	☐ Yes	☒ No	☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	5. If Fecal: ☐ <8 hours ☐ >8, <24 hours ☐ >24 hours
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	7.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☒ N/A	11. Note if sediment is visible in the dissolved containers.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT + SL	☒ Yes	☐ No	☐ N/A	12.
All containers needing acid/base preservation properly preserved?	☒ Yes	☐ No	☐ N/A	13. Note samples needing adjustment:
Headspace in Methyl Mercury Container	☐ Yes	☐ No	☒ N/A	14.
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☒ N/A	15.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	16.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION Field Data Required? ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

SEE EXCEPTION FORM Y N

FECAL WAIVER ON FILE Y N TEMPERATURE WAIVER ON FILE Y N

Project Manager Review: Nikki Jarve **Date:** 6/28/20

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

July 01, 2020

Bob Michels
Pace Analytical
1700 Elm Street, Suite 200
Minneapolis, MN 55414

RE: B1903316.00 Hillcrest

Enclosed are the analytical results for the samples received by the laboratory on 06/25/2020.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. These results are in compliance with the 2009 NELAC Standards and the appropriate agencies listed below, unless otherwise noted in the case narrative. This analytical report should be reproduced in its entirety.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Molly Palzkill
Project Manager

Certification List			Expires
DODELAP	DOD ELAP Accreditation (A2LA)	3269.01	03/31/2021
ILEPA	Illinois Secondary NELAP Accreditation	004366	04/30/2021
KDHE	Kansas Secondary NELAP Accreditation	E-10384	04/30/2021
LELAP	Louisiana Primary NELAP Accreditation	04165	06/30/2021
NJDEP	New Jersey Secondary NELAP Accreditation	WI004	06/30/2020
TCEQ	Texas Secondary NELAP Accreditation	T104704504-16-7	11/30/2020
WDNR	Wisconsin Certification under NR 149	113289110	08/31/2020

Pace Analytical
ENVIRONMENTAL SCIENCES
MOBILE LAB SERVICES

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

Pace Analytical	Project: B1903316.00 Hillcrest
1700 Elm Street, Suite 200	Project Number: 10522569
Minneapolis MN, 55414	Project Manager: Bob Michels

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ASB-10 (2-2.5) (10522569002)	A202610-01	Soil	06/22/2020	06/25/2020
ASB-4 (2-2.5) (10522569014)	A202610-02	Soil	06/22/2020	06/25/2020
ASB-7 (2-2.5) (10522569017)	A202610-03	Soil	06/22/2020	06/25/2020
ASB-13c (2-2.5) (10522569020)	A202610-04	Soil	06/22/2020	06/25/2020
DUP-16-06222020 (10522569022)	A202610-05	Soil	06/22/2020	06/25/2020
Equipment Blank (Water) (10522569023)	A202610-06	Water	06/22/2020	06/25/2020
DUP-17-06222020 (10522569024)	A202610-07	Soil	06/22/2020	06/25/2020
ASB-6c (2-2.5) (10522569026)	A202610-08	Soil	06/22/2020	06/25/2020
ASB-8c (2-2.5) (10522569029)	A202610-09	Soil	06/22/2020	06/25/2020
DUP-18-06222020 (10522569031)	A202610-10	Soil	06/22/2020	06/25/2020

CASE NARRATIVE

Sample Receipt Information:
10 samples were received on 06/25/2020. Samples were received in acceptable condition.

Please see the chain of custody (COC) document at the end of this report for additional information.

Pace Analytical
ENVIRONMENTAL SCIENCES
MOBILE LAB SERVICES

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Pace Analytical	Project: B1903316.00 Hillcrest
1700 Elm Street, Suite 200	Project Number: 10522569
Minneapolis MN, 55414	Project Manager: Bob Michels

ASB-10 (2-2.5) (10522569002)

A202610-01 (Soil)

Date Sampled
06/22/2020 10:51

Pace Analytical - Madison

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pesticides by LCMSMS						**Preparation Batch: A006200**			
2,4-D	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 22:15	EPA 8321B	
2,4-DB	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 22:15	EPA 8321B	
2,4,5-T	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 22:15	EPA 8321B	
2,4,5-TP (Silvex)	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 22:15	EPA 8321B	
Bentazon	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 22:15	EPA 8321B	
Dicamba	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 22:15	EPA 8321B	
MCPA	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 22:15	EPA 8321B	
Picloram	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 22:15	EPA 8321B	
Triclopyr	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 22:15	EPA 8321B	
Surrogate: 2,4-D-d5			*108 %*	*60-140*		*06/29/2020*	*06/29/2020 22:15*	*EPA 8321B*	
Surrogate: DCAA			*107 %*	*60-140*		*06/29/2020*	*06/29/2020 22:15*	*EPA 8321B*	
Classical Chemistry Parameters						**Preparation Batch: A006192**			
% Solids	**86.2**		0.00	% by Weight	1	06/25/2020	06/26/2020 10:26	SM 2540B	

Pace Analytical
ENVIRONMENTAL SCIENCES
MOBILE LAB SERVICES

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

Pace Analytical	Project: B1903316.00 Hillcrest
1700 Elm Street, Suite 200	Project Number: 10522569
Minneapolis MN, 55414	Project Manager: Bob Michels

ASB-4 (2-2.5) (10522569014)

A202610-02 (Soil)

Date Sampled
06/22/2020 13:05

Pace Analytical - Madison

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pesticides by LCMSMS							**Preparation Batch: A006200**		
2,4-D	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 22:33	EPA 8321B	
2,4-DB	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 22:33	EPA 8321B	
2,4,5-T	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 22:33	EPA 8321B	
2,4,5-TP (Silvex)	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 22:33	EPA 8321B	
Bentazon	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 22:33	EPA 8321B	
Dicamba	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 22:33	EPA 8321B	
MCPA	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 22:33	EPA 8321B	
Picloram	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 22:33	EPA 8321B	
Triclopyr	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 22:33	EPA 8321B	
Surrogate: 2,4-D-d5			*106 %*	*60-140*		*06/29/2020*	*06/29/2020 22:33*	*EPA 8321B*	
Surrogate: DCAA			*100 %*	*60-140*		*06/29/2020*	*06/29/2020 22:33*	*EPA 8321B*	
Classical Chemistry Parameters							**Preparation Batch: A006192**		
% Solids	**90.3**		0.00	% by Weight	1	06/25/2020	06/26/2020 10:26	SM 2540B	

Pace Analytical
ENVIRONMENTAL SCIENCES
MOBILE LAB SERVICES

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

Pace Analytical	Project: B1903316.00 Hillcrest
1700 Elm Street, Suite 200	Project Number: 10522569
Minneapolis MN, 55414	Project Manager: Bob Michels

ASB-7 (2-2.5) (10522569017)

A202610-03 (Soil)

Date Sampled
06/22/2020 13:40

Pace Analytical - Madison

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pesticides by LCMSMS						**Preparation Batch: A006200**			
2,4-D	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 22:51	EPA 8321B	
2,4-DB	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 22:51	EPA 8321B	
2,4,5-T	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 22:51	EPA 8321B	
2,4,5-TP (Silvex)	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 22:51	EPA 8321B	
Bentazon	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 22:51	EPA 8321B	
Dicamba	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 22:51	EPA 8321B	
MCPA	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 22:51	EPA 8321B	
Picloram	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 22:51	EPA 8321B	
Triclopyr	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 22:51	EPA 8321B	
Surrogate: 2,4-D-d5			*98.6 %*	*60-140*		*06/29/2020*	*06/29/2020 22:51*	*EPA 8321B*	
Surrogate: DCAA			*95.3 %*	*60-140*		*06/29/2020*	*06/29/2020 22:51*	*EPA 8321B*	
Classical Chemistry Parameters						**Preparation Batch: A006192**			
% Solids	**84.9**		0.00	% by Weight	1	06/25/2020	06/26/2020 10:26	SM 2540B	

Pace Analytical
ENVIRONMENTAL SCIENCES
MOBILE LAB SERVICES

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

Pace Analytical	Project: B1903316.00 Hillcrest
1700 Elm Street, Suite 200	Project Number: 10522569
Minneapolis MN, 55414	Project Manager: Bob Michels

ASB-13c (2-2.5) (10522569020)

A202610-04 (Soil)

Date Sampled
06/22/2020 14:30

Pace Analytical - Madison

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pesticides by LCMSMS						**Preparation Batch: A006200**			
2,4-D	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 23:09	EPA 8321B	
2,4-DB	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 23:09	EPA 8321B	
2,4,5-T	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 23:09	EPA 8321B	
2,4,5-TP (Silvex)	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 23:09	EPA 8321B	
Bentazon	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 23:09	EPA 8321B	
Dicamba	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 23:09	EPA 8321B	
MCPA	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 23:09	EPA 8321B	
Picloram	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 23:09	EPA 8321B	
Triclopyr	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 23:09	EPA 8321B	
Surrogate: 2,4-D-d5			*99.7 %*	*60-140*		*06/29/2020*	*06/29/2020 23:09*	*EPA 8321B*	
Surrogate: DCAA			*100 %*	*60-140*		*06/29/2020*	*06/29/2020 23:09*	*EPA 8321B*	
Classical Chemistry Parameters						**Preparation Batch: A006192**			
% Solids	**86.7**		0.00	% by Weight	1	06/25/2020	06/26/2020 10:26	SM 2540B	

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Pace Analytical	Project: B1903316.00 Hillcrest
1700 Elm Street, Suite 200	Project Number: 10522569
Minneapolis MN, 55414	Project Manager: Bob Michels

DUP-16-06222020 (10522569022)

A202610-05 (Soil)

Date Sampled
06/22/2020 12:00

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pace Analytical - Madison									
Pesticides by LCMSMS						**Preparation Batch: A006200**			
2,4-D	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 23:27	EPA 8321B	
2,4-DB	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 23:27	EPA 8321B	
2,4,5-T	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 23:27	EPA 8321B	
2,4,5-TP (Silvex)	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 23:27	EPA 8321B	
Bentazon	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 23:27	EPA 8321B	
Dicamba	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 23:27	EPA 8321B	
MCPA	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 23:27	EPA 8321B	
Picloram	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 23:27	EPA 8321B	
Triclopyr	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 23:27	EPA 8321B	
Surrogate: 2,4-D-d5			*99.9 %*	*60-140*		*06/29/2020*	*06/29/2020 23:27*	*EPA 8321B*	
Surrogate: DCAA			*99.0 %*	*60-140*		*06/29/2020*	*06/29/2020 23:27*	*EPA 8321B*	
Classical Chemistry Parameters						**Preparation Batch: A006192**			
% Solids	**86.8**		0.00	% by Weight	1	06/25/2020	06/26/2020 10:26	SM 2540B	

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Pace Analytical	Project: B1903316.00 Hillcrest
1700 Elm Street, Suite 200	Project Number: 10522569
Minneapolis MN, 55414	Project Manager: Bob Michels

Equipment Blank (Water) (10522569023)

A202610-06 (Water)

Date Sampled
06/22/2020 15:00

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pace Analytical - Madison									
Pesticides by LCMSMS						**Preparation Batch: A006199**			
2,4-D	ND	0.024	0.10	ug/L	1	06/29/2020	06/29/2020 19:34	EPA 8321B	
2,4-DB	ND	0.032	0.10	ug/L	1	06/29/2020	06/29/2020 19:34	EPA 8321B	
2,4,5-T	ND	0.030	0.10	ug/L	1	06/29/2020	06/29/2020 19:34	EPA 8321B	
2,4,5-TP (Silvex)	ND	0.016	0.10	ug/L	1	06/29/2020	06/29/2020 19:34	EPA 8321B	
Bentazon	ND	0.012	0.10	ug/L	1	06/29/2020	06/29/2020 19:34	EPA 8321B	
Dicamba	ND	0.058	0.20	ug/L	1	06/29/2020	06/29/2020 19:34	EPA 8321B	
MCPA	ND	0.022	0.10	ug/L	1	06/29/2020	06/29/2020 19:34	EPA 8321B	
Picloram	ND	0.048	0.20	ug/L	1	06/29/2020	06/29/2020 19:34	EPA 8321B	
Triclopyr	ND	0.031	0.10	ug/L	1	06/29/2020	06/29/2020 19:34	EPA 8321B	
Surrogate: 2,4-D-d5			*104 %*	*60-140*		*06/29/2020*	*06/29/2020 19:34*	*EPA 8321B*	
Surrogate: DCAA			*93.4 %*	*60-140*		*06/29/2020*	*06/29/2020 19:34*	*EPA 8321B*	

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1700 Elm Street, Suite 200	Project Number: 10522569
Minneapolis MN, 55414	Project Manager: Bob Michels

DUP-17-06222020 (10522569024)

A202610-07 (Soil)

Date Sampled
06/22/2020 12:01

Pace Analytical - Madison

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pesticides by LCMSMS						**Preparation Batch: A006200**			
2,4-D	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 23:45	EPA 8321B	
2,4-DB	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 23:45	EPA 8321B	
2,4,5-T	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 23:45	EPA 8321B	
2,4,5-TP (Silvex)	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 23:45	EPA 8321B	
Bentazon	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 23:45	EPA 8321B	
Dicamba	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 23:45	EPA 8321B	
MCPA	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 23:45	EPA 8321B	
Picloram	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 23:45	EPA 8321B	
Triclopyr	ND		0.10	mg/kg dry	1	06/29/2020	06/29/2020 23:45	EPA 8321B	
Surrogate: 2,4-D-d5			*97.9 %*	*60-140*		*06/29/2020*	*06/29/2020 23:45*	*EPA 8321B*	
Surrogate: DCAA			*99.1 %*	*60-140*		*06/29/2020*	*06/29/2020 23:45*	*EPA 8321B*	
Classical Chemistry Parameters						**Preparation Batch: A006192**			
% Solids	**84.6**		0.00	% by Weight	1	06/25/2020	06/26/2020 10:26	SM 2540B	

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1700 Elm Street, Suite 200	Project Number: 10522569
Minneapolis MN, 55414	Project Manager: Bob Michels

ASB-6c (2-2.5) (10522569026)

A202610-08 (Soil)

Date Sampled
06/22/2020 15:41

Pace Analytical - Madison

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pesticides by LCMSMS							**Preparation Batch: A006200**		
2,4-D	ND		0.10	mg/kg dry	1	06/29/2020	06/30/2020 00:03	EPA 8321B	
2,4-DB	ND		0.10	mg/kg dry	1	06/29/2020	06/30/2020 00:03	EPA 8321B	
2,4,5-T	ND		0.10	mg/kg dry	1	06/29/2020	06/30/2020 00:03	EPA 8321B	
2,4,5-TP (Silvex)	ND		0.10	mg/kg dry	1	06/29/2020	06/30/2020 00:03	EPA 8321B	
Bentazon	ND		0.10	mg/kg dry	1	06/29/2020	06/30/2020 00:03	EPA 8321B	
Dicamba	ND		0.10	mg/kg dry	1	06/29/2020	06/30/2020 00:03	EPA 8321B	
MCPA	ND		0.10	mg/kg dry	1	06/29/2020	06/30/2020 00:03	EPA 8321B	
Picloram	ND		0.10	mg/kg dry	1	06/29/2020	06/30/2020 00:03	EPA 8321B	
Triclopyr	ND		0.10	mg/kg dry	1	06/29/2020	06/30/2020 00:03	EPA 8321B	
Surrogate: 2,4-D-d5			*102 %*	*60-140*		*06/29/2020*	*06/30/2020 00:03*	*EPA 8321B*	
Surrogate: DCAA			*103 %*	*60-140*		*06/29/2020*	*06/30/2020 00:03*	*EPA 8321B*	
Classical Chemistry Parameters							**Preparation Batch: A006192**		
% Solids	**84.9**		0.00	% by Weight	1	06/25/2020	06/26/2020 10:26	SM 2540B	

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1700 Elm Street, Suite 200	Project Number: 10522569
Minneapolis MN, 55414	Project Manager: Bob Michels

ASB-8c (2-2.5) (10522569029)

A202610-09 (Soil)

Date Sampled
06/22/2020 16:30

Pace Analytical - Madison

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pesticides by LCMSMS						**Preparation Batch: A006200**			
2,4-D	ND		0.10	mg/kg dry	1	06/29/2020	06/30/2020 00:21	EPA 8321B	
2,4-DB	ND		0.10	mg/kg dry	1	06/29/2020	06/30/2020 00:21	EPA 8321B	
2,4,5-T	ND		0.10	mg/kg dry	1	06/29/2020	06/30/2020 00:21	EPA 8321B	
2,4,5-TP (Silvex)	ND		0.10	mg/kg dry	1	06/29/2020	06/30/2020 00:21	EPA 8321B	
Bentazon	ND		0.10	mg/kg dry	1	06/29/2020	06/30/2020 00:21	EPA 8321B	
Dicamba	ND		0.10	mg/kg dry	1	06/29/2020	06/30/2020 00:21	EPA 8321B	
MCPA	ND		0.10	mg/kg dry	1	06/29/2020	06/30/2020 00:21	EPA 8321B	
Picloram	ND		0.10	mg/kg dry	1	06/29/2020	06/30/2020 00:21	EPA 8321B	
Triclopyr	ND		0.10	mg/kg dry	1	06/29/2020	06/30/2020 00:21	EPA 8321B	
Surrogate: 2,4-D-d5			*96.4 %*	*60-140*		*06/29/2020*	*06/30/2020 00:21*	*EPA 8321B*	
Surrogate: DCAA			*93.7 %*	*60-140*		*06/29/2020*	*06/30/2020 00:21*	*EPA 8321B*	
Classical Chemistry Parameters						**Preparation Batch: A006192**			
% Solids	**86.1**		0.00	% by Weight	1	06/25/2020	06/26/2020 10:26	SM 2540B	

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Minneapolis MN, 55414	Project Manager: Bob Michels

DUP-18-06222020 (10522569031)

A202610-10 (Soil)

Date Sampled
06/22/2020 12:02

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pace Analytical - Madison									
Pesticides by LCMSMS						**Preparation Batch: A006200**			
2,4-D	ND		0.10	mg/kg dry	1	06/29/2020	06/30/2020 00:39	EPA 8321B	
2,4-DB	ND		0.10	mg/kg dry	1	06/29/2020	06/30/2020 00:39	EPA 8321B	
2,4,5-T	ND		0.10	mg/kg dry	1	06/29/2020	06/30/2020 00:39	EPA 8321B	
2,4,5-TP (Silvex)	ND		0.10	mg/kg dry	1	06/29/2020	06/30/2020 00:39	EPA 8321B	
Bentazon	ND		0.10	mg/kg dry	1	06/29/2020	06/30/2020 00:39	EPA 8321B	
Dicamba	ND		0.10	mg/kg dry	1	06/29/2020	06/30/2020 00:39	EPA 8321B	
MCPA	ND		0.10	mg/kg dry	1	06/29/2020	06/30/2020 00:39	EPA 8321B	
Picloram	ND		0.10	mg/kg dry	1	06/29/2020	06/30/2020 00:39	EPA 8321B	
Triclopyr	ND		0.10	mg/kg dry	1	06/29/2020	06/30/2020 00:39	EPA 8321B	
Surrogate: 2,4-D-d5			*98.6 %*	*60-140*		*06/29/2020*	*06/30/2020 00:39*	*EPA 8321B*	
Surrogate: DCAA			*98.2 %*	*60-140*		*06/29/2020*	*06/30/2020 00:39*	*EPA 8321B*	
Classical Chemistry Parameters						**Preparation Batch: A006192**			
% Solids	**81.0**		0.00	% by Weight	1	06/25/2020	06/26/2020 10:26	SM 2540B	

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1700 Elm Street, Suite 200	Project Number: 10522569
Minneapolis MN, 55414	Project Manager: Bob Michels

Pesticides by LCMSMS - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A006199 - EPA 3535 (SPE)										
Blank (A006199-BLK1)				Prepared: 06/29/2020 Analyzed: 06/29/2020 18:22						
2,4-D	ND	0.10	ug/L							
2,4-DB	ND	0.10	ug/L							
2,4,5-T	ND	0.10	ug/L							
2,4,5-TP (Silvex)	ND	0.10	ug/L							
Bentazon	ND	0.10	ug/L							
Dicamba	ND	0.20	ug/L							
MCPA	ND	0.10	ug/L							
Picloram	ND	0.20	ug/L							
Triclopyr	ND	0.10	ug/L							
Surrogate: 2,4-D-d5	*3.44*		*ug/L*	*3.378*		*102*	*60-140*			
Surrogate: DCAA	*6.35*		*ug/L*	*6.750*		*94.1*	*60-140*			
LCS (A006199-BS1)				Prepared: 06/29/2020 Analyzed: 06/29/2020 18:40						
2,4-D	3.11	0.10	ug/L	3.375		92.1	60-140			
2,4-DB	3.10	0.10	ug/L	3.375		91.9	60-140			
2,4,5-T	3.41	0.10	ug/L	3.375		101	60-140			
2,4,5-TP (Silvex)	3.24	0.10	ug/L	3.375		95.9	60-140			
Bentazon	1.71	0.10	ug/L	1.688		101	60-140			E
Dicamba	6.34	0.20	ug/L	6.750		93.9	60-140			
MCPA	3.26	0.10	ug/L	3.375		96.6	60-140			
Picloram	6.44	0.20	ug/L	6.750		95.5	60-140			
Triclopyr	3.11	0.10	ug/L	3.375		92.2	60-140			
Surrogate: 2,4-D-d5	*3.46*		*ug/L*	*3.378*		*102*	*60-140*			
Surrogate: DCAA	*6.12*		*ug/L*	*6.750*		*90.7*	*60-140*			
Matrix Spike (A006199-MS1)	**Source: A202610-06**			Prepared: 06/29/2020 Analyzed: 06/29/2020 18:58						
2,4-D	3.22	0.10	ug/L	3.375	ND	95.3	60-140			
2,4-DB	3.37	0.10	ug/L	3.375	ND	100	60-140			
2,4,5-T	3.45	0.10	ug/L	3.375	ND	102	60-140			
2,4,5-TP (Silvex)	3.35	0.10	ug/L	3.375	ND	99.2	60-140			
Bentazon	1.81	0.10	ug/L	1.688	ND	107	60-140			E
Dicamba	6.41	0.20	ug/L	6.750	ND	95.0	60-140			
MCPA	3.59	0.10	ug/L	3.375	ND	106	60-140			
Picloram	6.68	0.20	ug/L	6.750	ND	98.9	60-140			
Triclopyr	3.38	0.10	ug/L	3.375	ND	100	60-140			
Surrogate: 2,4-D-d5	*3.58*		*ug/L*	*3.378*		*106*	*60-140*			
Surrogate: DCAA	*6.45*		*ug/L*	*6.750*		*95.6*	*60-140*			

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1700 Elm Street, Suite 200	Project Number: 10522569
Minneapolis MN, 55414	Project Manager: Bob Michels

Pesticides by LCMSMS - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A006199 - EPA 3535 (SPE)										
Matrix Spike Dup (A006199-MSD1)	**Source: A202610-06**			Prepared: 06/29/2020 Analyzed: 06/29/2020 19:16						
2,4-D	3.35	0.10	ug/L	3.375	ND	99.2	60-140	4.04	20	
2,4-DB	3.36	0.10	ug/L	3.375	ND	99.4	60-140	0.563	20	
2,4,5-T	3.48	0.10	ug/L	3.375	ND	103	60-140	0.891	20	
2,4,5-TP (Silvex)	3.42	0.10	ug/L	3.375	ND	101	60-140	2.29	20	
Bentazon	1.75	0.10	ug/L	1.688	ND	104	60-140	3.18	20	E
Dicamba	6.66	0.20	ug/L	6.750	ND	98.7	60-140	3.75	20	
MCPA	3.34	0.10	ug/L	3.375	ND	98.9	60-140	7.31	20	
Picloram	6.75	0.20	ug/L	6.750	ND	100	60-140	1.09	20	
Triclopyr	3.31	0.10	ug/L	3.375	ND	98.1	60-140	1.99	20	
Surrogate: 2,4-D-d5	*3.45*		*ug/L*	*3.378*		*102*	*60-140*			
Surrogate: DCAA	*6.54*		*ug/L*	*6.750*		*96.9*	*60-140*			
Batch A006200 - EPA 3570										
Blank (A006200-BLK1)				Prepared: 06/29/2020 Analyzed: 06/29/2020 20:10						
2,4-D	ND	0.10	mg/kg wet							
2,4-DB	ND	0.10	mg/kg wet							
2,4,5-T	ND	0.10	mg/kg wet							
2,4,5-TP (Silvex)	ND	0.10	mg/kg wet							
Bentazon	ND	0.10	mg/kg wet							
Dicamba	ND	0.10	mg/kg wet							
MCPA	ND	0.10	mg/kg wet							
Picloram	ND	0.10	mg/kg wet							
Triclopyr	ND	0.10	mg/kg wet							
Surrogate: 2,4-D-d5	*0.819*		*mg/kg wet*	*0.8106*		*101*	*60-140*			
Surrogate: DCAA	*1.72*		*mg/kg wet*	*1.620*		*106*	*60-140*			
LCS (A006200-BS1)				Prepared: 06/29/2020 Analyzed: 06/29/2020 20:28						
2,4-D	0.772	0.020	mg/kg wet	0.8100		95.3	60-140			
2,4-DB	0.775	0.020	mg/kg wet	0.8100		95.7	60-140			
2,4,5-T	0.817	0.020	mg/kg wet	0.8100		101	60-140			
2,4,5-TP (Silvex)	0.816	0.020	mg/kg wet	0.8100		101	60-140			
Bentazon	0.393	0.020	mg/kg wet	0.4050		96.9	60-140			
Dicamba	1.55	0.050	mg/kg wet	1.620		95.7	60-140			
MCPA	0.805	0.020	mg/kg wet	0.8100		99.4	60-140			
Picloram	1.60	0.050	mg/kg wet	1.620		98.7	60-140			
Triclopyr	0.770	0.020	mg/kg wet	0.8100		95.1	60-140			
Surrogate: 2,4-D-d5	*0.852*		*mg/kg wet*	*0.8106*		*105*	*60-140*			
Surrogate: DCAA	*1.63*		*mg/kg wet*	*1.620*		*101*	*60-140*			

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Pace Analytical	Project: B1903316.00 Hillcrest
1700 Elm Street, Suite 200	Project Number: 10522569
Minneapolis MN, 55414	Project Manager: Bob Michels

Pesticides by LCMSMS - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A006200 - EPA 3570										
Matrix Spike (A006200-MS1)	**Source: A202610-01**			Prepared: 06/29/2020		Analyzed: 06/29/2020 20:46				
2,4-D	0.868	0.023	mg/kg dry	0.9393	ND	92.4	60-140			
2,4-DB	0.900	0.023	mg/kg dry	0.9393	ND	95.9	60-140			
2,4,5-T	0.980	0.023	mg/kg dry	0.9393	ND	104	60-140			
2,4,5-TP (Silvex)	0.953	0.023	mg/kg dry	0.9393	ND	101	60-140			
Bentazon	0.394	0.023	mg/kg dry	0.4696	ND	84.0	60-140			
Dicamba	1.79	0.058	mg/kg dry	1.879	ND	95.2	60-140			
MCPA	1.00	0.023	mg/kg dry	0.9393	ND	107	60-140			
Picloram	1.84	0.058	mg/kg dry	1.879	ND	98.2	60-140			
Triclopyr	0.945	0.023	mg/kg dry	0.9393	ND	101	60-140			
Surrogate: 2,4-D-d5	*0.964*		*mg/kg dry*	*0.9400*		*103*	*60-140*			
Surrogate: DCAA	*2.07*		*mg/kg dry*	*1.879*		*110*	*60-140*			
Matrix Spike Dup (A006200-MSD1)	**Source: A202610-01**			Prepared: 06/29/2020		Analyzed: 06/29/2020 21:03				
2,4-D	0.909	0.023	mg/kg dry	0.9393	ND	96.8	60-140	4.64	20	
2,4-DB	1.07	0.023	mg/kg dry	0.9393	ND	114	60-140	17.3	20	
2,4,5-T	1.01	0.023	mg/kg dry	0.9393	ND	108	60-140	3.25	20	
2,4,5-TP (Silvex)	1.02	0.023	mg/kg dry	0.9393	ND	109	60-140	7.13	20	
Bentazon	0.411	0.023	mg/kg dry	0.4696	ND	87.5	60-140	4.06	20	
Dicamba	2.07	0.058	mg/kg dry	1.879	ND	110	60-140	14.6	20	
MCPA	1.10	0.023	mg/kg dry	0.9393	ND	117	60-140	9.18	20	
Picloram	1.97	0.058	mg/kg dry	1.879	ND	105	60-140	6.83	20	
Triclopyr	1.02	0.023	mg/kg dry	0.9393	ND	108	60-140	7.28	20	
Surrogate: 2,4-D-d5	*0.965*		*mg/kg dry*	*0.9400*		*103*	*60-140*			
Surrogate: DCAA	*1.84*		*mg/kg dry*	*1.879*		*97.7*	*60-140*			

Pace Analytical
ENVIRONMENTAL SCIENCES
MOBILE LAB SERVICES

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

Pace Analytical	Project: B1903316.00 Hillcrest
1700 Elm Street, Suite 200	Project Number: 10522569
Minneapolis MN, 55414	Project Manager: Bob Michels

Classical Chemistry Parameters - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A006192 - % Solids										
Duplicate (A006192-DUP1)	**Source: A202518-10**		Prepared: 06/25/2020 Analyzed: 06/26/2020 10:26							
% Solids	82.0	0.00	% by Weight		81.3			0.817	20	

Pace Analytical
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Pace Analytical	Project: B1903316.00 Hillcrest
1700 Elm Street, Suite 200	Project Number: 10522569
Minneapolis MN, 55414	Project Manager: Bob Michels

Notes and Definitions

E	The concentration indicated is above the instrument calibration range. This value is an estimated concentration.
ND	Analyte NOT DETECTED at or above the reporting limit or limit of detection (if listed).
NR	Not Reported
dry	Sample results reported on a dry weight basis. If the word 'dry' does not appear after the units, results are reported on an as-is basis.
RPD	Relative Percent Difference

Chain of Custody

Pace Analytical®
www.pacelabs.com

☐ Samples were sent directly to the Subcontracting Laboratory.

A202610

State Of Origin: MN
Cert. Needed: [x] Yes [ ] No
Owner Received Date: 6/23/2020 Results Requested By: 7/8/2020

Workorder: 10522569 **Workorder Name:** B1903316.00 Hillcrest

Report To	Subcontract To
Bob Michels Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)709-5046	Pace Analytical Madison 2525 Advance Road Madison, WI 53718 Phone (608)221-8700

JGFU-Soils
AG1U-Water

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved						Requested Analysis: MDA List 2 Pesticides												LAB USE ONLY
1	ASB-10 (2-2.5)	PS	6/22/2020 10:51	10522569002	Solid	1						X												01
2	ASB-4 (2-2.5)	PS	6/22/2020 13:05	10522569014	Solid	1						X												02
3	ASB-7 (2-2.5)	PS	6/22/2020 13:40	10522569017	Solid	1						X												03
4	ASB-13c (2-2.5)	PS	6/22/2020 14:30	10522569020	Solid	1						X												04
5	DUP-16-06222020	PS	6/22/2020 12:00	10522569022	Solid	1						X												05
6	Equipment Blank (Water)	PS	6/22/2020 15:00	10522569023	Water	2						X												06
7	DUP-17-06222020	PS	6/22/2020 12:01	10522569024	Solid	1						X												07
8	ASB-6c (2-2.5)	PS	6/22/2020 15:41	10522569026	Solid	1						X												08
9	ASB-8c (2-2.5)	PS	6/22/2020 16:30	10522569029	Solid	1						X												09
10	DUP-18-06222020	PS	6/22/2020 12:02	10522569031	Solid	1						X												10

Transfers	Released By	Date/Time	Received By	Date/Time
1				6/25/20 1050
2				
3				

Comments

Cooler Temperature on Receipt 2.2 °C | Custody Seal Y or N | Received on Ice Y or N | Samples Intact Y or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.

This chain of custody is considered complete as is since this information is available in the owner laboratory.

S/N 140142274
Exp 12/19/20

Synergistic Pesticide Laboratory LLC
2700B N. Hayden Island Dr.
Portland, OR 97217
Lab: 503-641-0500
Fax: 503-954-3073
info@synpestlab.com

Client Name: Pace Analytical Minnesota
Client Address: 1700 Elm Street, Ste 200
Minneapolis, MN 55414
Client Phone: 612-709-5046

Date: 7/4/20
SPL Project #: 20 030
Client Project #: 10522569

SAMPLE RESULTS:

SPL ID: **20 030-01**
Sample ID: 10522569002 (ASB-10 (2-2.5))
Matrix: SOIL
Method: **Chlorothalonil, Iprodione & Propiconazole Analysis (QuEChERS 15662, EPA 8321B, EPA 8270E)**
Units: ppm (µg/g)

Date Sampled: 6/22/20
Date Received: 6/25/20
Date Extracted: 7/2/20
Date Analyzed: 7/2-7/3/20

Analyte	Class	Result	RL
Chlorothalonil	F	nd	0.05
Iprodione	F	nd	0.10
Propiconazole	F	nd	0.05
Decachlorobiphenyl (Surrogate)	---	99%	---
Fenbuconazole (Surrogate)	---	102%	---

SPL ID: **20 030-02**
Sample ID: 10522569014 (ASB-4 (2-2.5))
Matrix: SOIL
Method: **Chlorothalonil, Iprodione & Propiconazole Analysis (QuEChERS 15662, EPA 8321B, EPA 8270E)**
Units: ppm (µg/g)

Date Sampled: 6/22/20
Date Received: 6/25/20
Date Extracted: 7/2/20
Date Analyzed: 7/2-7/3/20

Analyte	Class	Result	RL
Chlorothalonil	F	nd	0.05
Iprodione	F	nd	0.10
Propiconazole	F	nd	0.05
Decachlorobiphenyl (Surrogate)	---	119%	---
Fenbuconazole (Surrogate)	---	98%	---

SPL ID: **20 030-03**
Sample ID: 10522569017 (ASB-7 (2-2.5))
Matrix: SOIL
Method: **Chlorothalonil, Iprodione & Propiconazole Analysis (QuEChERS 15662, EPA 8321B, EPA 8270E)**
Units: ppm (µg/g)

Date Sampled: 6/22/20
Date Received: 6/25/20
Date Extracted: 7/2/20
Date Analyzed: 7/2-7/3/20

Analyte	Class	Result	RL
Chlorothalonil	F	nd	0.05
Iprodione	F	nd	0.10
Propiconazole	F	nd	0.05
Decachlorobiphenyl (Surrogate)	---	99%	---
Fenbuconazole (Surrogate)	---	102%	---

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Client Phone: 612-709-5046

Date: 7/4/20
SPL Project #: 20 030
Client Project #: 10522569

SAMPLE RESULTS:

SPL ID: **20 030-04**
Sample ID: 10522569020 (ASB-13C (2-2.5))
Matrix: SOIL
Method: **Chlorothalonil, Iprodione & Propiconazole Analysis (QuEChERS 15662, EPA 8321B, EPA 8270E)**
Units: ppm (µg/g)

Date Sampled: 6/22/20
Date Received: 6/25/20
Date Extracted: 7/2/20
Date Analyzed: 7/2-7/3/20

Analyte	Class	Result	RL
Chlorothalonil	F	nd	0.05
Iprodione	F	nd	0.10
Propiconazole	F	nd	0.05
Decachlorobiphenyl (Surrogate)	---	98%	---
Fenbuconazole (Surrogate)	---	101%	---

SPL ID: **20 030-05**
Sample ID: 10522569022 (DUP-16-06222020)
Matrix: SOIL
Method: **Chlorothalonil, Iprodione & Propiconazole Analysis (QuEChERS 15662, EPA 8321B, EPA 8270E)**
Units: ppm (µg/g)

Date Sampled: 6/22/20
Date Received: 6/25/20
Date Extracted: 7/2/20
Date Analyzed: 7/2-7/3/20

Analyte	Class	Result	RL
Chlorothalonil	F	nd	0.05
Iprodione	F	nd	0.10
Propiconazole	F	nd	0.05
Decachlorobiphenyl (Surrogate)	---	102%	---
Fenbuconazole (Surrogate)	---	102%	---

SPL ID: **20 010-06**
Sample ID: 10522569023 (Equipment Blank (Water))
Matrix: WATER
Method: **Chlorothalonil, Iprodione & Propiconazole Analysis (QuEChERS 15662, EPA 8321B, EPA 8270E)**
Units: ppb (µg/L)

Date Sampled: 6/22/20
Date Received: 6/25/20
Date Extracted: 6/29/20
Date Analyzed: 7/2-7/3/20

Analyte	Class	Result	RL
Chlorothalonil	F	nd	0.05
Iprodione	F	nd	0.10
Propiconazole	F	nd	0.05
Decachlorobiphenyl (Surrogate)	---	90%	---
Fenbuconazole (Surrogate)	---	81%	---

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Client Address: 1700 Elm Street, Ste 200
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Client Phone: 612-709-5046

Date: 7/4/20
SPL Project #: 20 030
Client Project #: 10522569

SAMPLE RESULTS:

SPL ID: **20 030-07**
Sample ID: 10522569024 (DUP-17-06222020)
Matrix: SOIL
Method: **Chlorothalonil, Iprodione & Propiconazole Analysis (QuEChERS 15662, EPA 8321B, EPA 8270E)**
Units: ppm (µg/g)

Date Sampled: 6/22/20
Date Received: 6/25/20
Date Extracted: 7/2/20
Date Analyzed: 7/2-7/3/20

Analyte	Class	Result	RL
Chlorothalonil	F	nd	0.05
Iprodione	F	nd	0.10
Propiconazole	F	nd	0.05
Decachlorobiphenyl (Surrogate)	---	105%	---
Fenbuconazole (Surrogate)	---	103%	---

SPL ID: **20 030-08**
Sample ID: 10522569026 (ASB-6C (2-2.5))
Matrix: SOIL
Method: **Chlorothalonil, Iprodione & Propiconazole Analysis (QuEChERS 15662, EPA 8321B, EPA 8270E)**
Units: ppm (µg/g)

Date Sampled: 6/22/20
Date Received: 6/25/20
Date Extracted: 7/2/20
Date Analyzed: 7/2-7/3/20

Analyte	Class	Result	RL
Chlorothalonil	F	nd	0.05
Iprodione	F	nd	0.10
Propiconazole	F	nd	0.05
Decachlorobiphenyl (Surrogate)	---	109%	---
Fenbuconazole (Surrogate)	---	107%	---

SPL ID: **20 030-09**
Sample ID: 10522569029 (ASB-8C (2-2.5))
Matrix: SOIL
Method: **Chlorothalonil, Iprodione & Propiconazole Analysis (QuEChERS 15662, EPA 8321B, EPA 8270E)**
Units: ppm (µg/g)

Date Sampled: 6/22/20
Date Received: 6/25/20
Date Extracted: 7/2/20
Date Analyzed: 7/2-7/3/20

Analyte	Class	Result	RL
Chlorothalonil	F	nd	0.05
Iprodione	F	nd	0.10
Propiconazole	F	nd	0.05
Decachlorobiphenyl (Surrogate)	---	107%	---
Fenbuconazole (Surrogate)	---	106%	---

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Client Name:	Pace Analytical Minnesota	**Date:**	7/4/20
Client Address:	1700 Elm Street, Ste 200	**SPL Project #:**	20 030
	Minneapolis, MN 55414	**Client Project #:**	10522569
Client Phone:	612-709-5046		

SAMPLE RESULTS:

SPL ID:	**20 030-10**	**Date Sampled:**	6/22/20
Sample ID:	10522569031 (DUP-18-06222020)	**Date Received:**	6/25/20
Matrix:	SOIL		
Method:	**Chlorothalonil, Iprodione & Propiconazole Analysis (QuEChERS 15662, EPA 8321B, EPA 8270E)**	**Date Extracted:**	7/2/20
Units:	ppm (µg/g)	**Date Analyzed:**	7/2-7/3/20

Analyte	Class	Result	RL
Chlorothalonil	F	nd	0.05
Iprodione	F	nd	0.10
Propiconazole	F	nd	0.05
Decachlorobiphenyl (Surrogate)	---	99%	---
Fenbuconazole (Surrogate)	---	108%	---

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Client Address: 1700 Elm Street, Ste 200
Minneapolis, MN 55414
Client Phone: 612-709-5046

Date: 7/4/20
SPL Project #: 20 030
Client Project #: 10522569

QUALITY CONTROL RESULTS:

Method: **Chlorothalonil, Iprodione & Propiconazole Analysis (QuEChERS 15662, EPA 8321B, EPA 8270E)**
Units: ppm (µg/g)
Matrix: SOIL

Date Extracted: 7/2/20
Date Analyzed: 7/2-7/3/20

20 046 MB

Analyte	Amt Spiked	Result	Percent Recovery
Chlorothalonil	---	nd	---
Iprodione	---	nd	---
Propiconazole	---	nd	---
Decachlorobiphenyl (Surrogate)	0.1	0.107	107%
Fenbuconazole (Surrogate)	0.1	0.099	99%

20 046 LCS

Analyte	Amt Spiked	Result	Percent Recovery
Chlorothalonil	1.0	1.85	185%
Iprodione	2.0	1.88	94%
Propiconazole	1.0	0.961	96%
Decachlorobiphenyl (Surrogate)	0.1	0.111	111%
Fenbuconazole (Surrogate)	0.1	0.097	97%

20 030-01 MS

Analyte	Amt Spiked	Result	Percent Recovery
Chlorothalonil	0.5	0.696	139%
Iprodione	1.0	0.992	100%
Propiconazole	0.5	0.494	99%
Decachlorobiphenyl (Surrogate)	0.1	0.057	57%
Fenbuconazole (Surrogate)	0.1	0.100	100%

20 030-01 MSD

Analyte	Amt Spiked	Result	Percent Recovery
Chlorothalonil	0.5	0.945	189%
Iprodione	1.0	0.993	99%
Propiconazole	0.5	0.499	100%
Decachlorobiphenyl (Surrogate)	0.1	0.048	48%
Fenbuconazole (Surrogate)	0.1	0.097	97%

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Client Address: 1700 Elm Street, Ste 200
Minneapolis, MN 55414
Client Phone: 612-709-5046

Date: 7/4/20
SPL Project #: 20 030
Client Project #: 10522569

QUALITY CONTROL RESULTS:

Method: **Chlorothalonil, Iprodione & Propiconazole Analysis (EPA 3510C, EPA 8321B, EPA 8270E)**
Units: ppb (µg/L)
Matrix: WATER

Date Extracted: 6/29/20
Date Analyzed: 7/2-7/3/20

20 044 MB

Analyte	Amt Spiked	Result	Percent Recovery
Chlorothalonil	---	nd	---
Iprodione	---	nd	---
Propiconazole	---	nd	---
Decachlorobiphenyl (Surrogate)	0.1	0.137	69%
Fenbuconazole (Surrogate)	0.1	0.164	82%

20 044 LCS

Analyte	Amt Spiked	Result	Percent Recovery
Chlorothalonil	1.0	0.955	95%
Iprodione	2.0	1.85	92%
Propiconazole	1.0	0.912	91%
Decachlorobiphenyl (Surrogate)	0.1	0.196	98%
Fenbuconazole (Surrogate)	0.1	0.180	90%

20 044 LCSD

Analyte	Amt Spiked	Result	Percent Recovery
Chlorothalonil	1.0	1.00	100%
Iprodione	2.0	1.85	92%
Propiconazole	1.0	0.919	92%
Decachlorobiphenyl (Surrogate)	0.1	0.203	101%
Fenbuconazole (Surrogate)	0.1	0.178	89%

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Client Name:	Pace Analytical Minnesota	**Date:**	7/4/20
Client Address:	1700 Elm Street, Ste 200	**SPL Project #:**	20 030
	Minneapolis, MN 55414	**Client Project #:**	10522569
Client Phone:	612-709-5046		

Report Specific Notes

1) Recoveries for chlorothalonil in matrix are outside the arbitraty acceptance limits of 70-130%. However, recoveries are within the UCL of 196% based on method validation for this soil extraction and analytical method conducted on 5/14/20 (x = 130%, n=8). Continuing Calibration Verification (CCV) samples were high throughout the run indicating an elevated sensitivity and thus increased confidence in non detections of chlorothalonil in samples.

Laboratory Report Definitions

F – Fungicide
LCL – Lower Control Limit – acceptance criteria based on the mean minus three times the standard deviation of a data set
LCS – Laboratory Control Sample – prepared from analyte free water or sand and spiked with known amount of analytes for the purpose of measuring the effect of the reagents used in extraction or analysis
LCSD – Laboratory Control Sample Duplicate
MS – Matrix Spike – prepared from additional sample and spiked with known amount of analytes for the purpose of measuring the effect of the sample matrix on analysis
MSD – Matrix Spike Duplicate
MB – Method Blank – shows any interference in extraction method
nd – non detect – substance not found above the reporting limit
ppb – parts per billion
ppm – parts per million
RL – Reporting Limit – the minimum amount of a substance that can be reported with confidence
UCL – Upper Control Limit – acceptance criteria based on the mean plus three times the standard deviation of a data set

Results provided relate to submitted samples only. Unless otherwise noted, samples were received in good condition and all Quality Control samples met acceptance criteria. Quality Control data is available upon request. This report shall not be reproduced, except in full, without the permission of Synergistic Pesticide Laboratory, LLC.

Authorized by:_____ Date: 7/4/2020

Camille Holladay
Lab Director

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Client Name: Pace Analytical Minnesota
Client Address: 1700 Elm Street, Ste 200
Minneapolis, MN 55414
Client Phone: 612-709-5046

Date: 8/7/20
SPL Project #: 20 056
Client Project #: 10522569

SAMPLE RESULTS:

SPL ID: **20 056-01**
Sample ID: 10522569013 (ASB-4 (0-0.05))
Matrix: SOIL
Method: **Chlorothalonil, Iprodione & Propiconazole Analysis (QuEChERS 15662, EPA 8321B, EPA 8270E)**
Units: ppm (µg/g)

Date Sampled: 6/22/20
Date Received: 7/23/20
Date Extracted: 8/5/20
Date Analyzed: 8/5/20

Analyte	Class	Result	RL
Chlorothalonil	F	nd	0.05
Iprodione	F	nd	0.10
Propiconazole	F	nd	0.05
Decachlorobiphenyl (Surrogate)	---	93%	---
Fenbuconazole (Surrogate)	---	93%	---

SPL ID: **20 056-02**
Sample ID: 10522569016 (ASB-7 (0-0.05))
Matrix: SOIL
Method: **Chlorothalonil, Iprodione & Propiconazole Analysis (QuEChERS 15662, EPA 8321B, EPA 8270E)**
Units: ppm (µg/g)

Date Sampled: 6/22/20
Date Received: 7/23/20
Date Extracted: 8/5/20
Date Analyzed: 8/5/20

Analyte	Class	Result	RL
Chlorothalonil	F	nd	0.05
Iprodione	F	nd	0.10
Propiconazole	F	nd	0.05
Decachlorobiphenyl (Surrogate)	---	85%	---
Fenbuconazole (Surrogate)	---	89%	---

SPL ID: **20 056-03**
Sample ID: 10522569019 (ASB-13c (0-0.05))
Matrix: SOIL
Method: **Chlorothalonil, Iprodione & Propiconazole Analysis (QuEChERS 15662, EPA 8321B, EPA 8270E)**
Units: ppm (µg/g)

Date Sampled: 6/22/20
Date Received: 7/23/20
Date Extracted: 8/5/20
Date Analyzed: 8/5/20

Analyte	Class	Result	RL
Chlorothalonil	F	nd	0.05
Iprodione	F	nd	0.10
Propiconazole	F	nd	0.05
Decachlorobiphenyl (Surrogate)	---	96%	---
Fenbuconazole (Surrogate)	---	97%	---

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Client Name:	Pace Analytical Minnesota	**Date:**	8/7/20
Client Address:	1700 Elm Street, Ste 200	**SPL Project #:**	20 056
	Minneapolis, MN 55414	**Client Project #:**	10522569
Client Phone:	612-709-5046		

SAMPLE RESULTS:

SPL ID:	**20 056-04**	**Date Sampled:**	6/22/20
Sample ID:	10522569025 (ASB-6c (0-0.05))	**Date Received:**	7/23/20
Matrix:	SOIL		
Method:	**Chlorothalonil, Iprodione & Propiconazole Analysis (QuEChERS 15662, EPA 8321B, EPA 8270E)**	**Date Extracted:**	8/5/20
Units:	ppm (µg/g)	**Date Analyzed:**	8/5/20

Analyte	Class	Result	RL
Chlorothalonil	F	nd	0.05
Iprodione	F	nd	0.10
Propiconazole	F	nd	0.05
Decachlorobiphenyl (Surrogate)	---	38%	---
Fenbuconazole (Surrogate)	---	92%	---

SPL ID:	**20 056-05**	**Date Sampled:**	6/22/20
Sample ID:	10522569028 (ASB-8c (0-0.05))	**Date Received:**	7/23/20
Matrix:	SOIL		
Method:	**Chlorothalonil, Iprodione & Propiconazole Analysis (QuEChERS 15662, EPA 8321B, EPA 8270E)**	**Date Extracted:**	8/5/20
Units:	ppm (µg/g)	**Date Analyzed:**	8/5/20

Analyte	Class	Result	RL
Chlorothalonil	F	nd	0.05
Iprodione	F	nd	0.10
Propiconazole	F	nd	0.05
Decachlorobiphenyl (Surrogate)	---	109%	---
Fenbuconazole (Surrogate)	---	98%	---

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Client Name: Pace Analytical Minnesota
Client Address: 1700 Elm Street, Ste 200
Minneapolis, MN 55414
Client Phone: 612-709-5046

Date: 8/7/20
SPL Project #: 20 056
Client Project #: 10522569

QUALITY CONTROL RESULTS:

Method: **Chlorothalonil, Iprodione & Propiconazole Analysis (QuEChERS 15662, EPA 8321B, EPA 8270E)**
Units: ppm (µg/g)
Matrix: SOIL

Date Extracted: 8/5/20
Date Analyzed: 8/5/20

20 063 MB

Analyte	Amt Spiked	Result	Percent Recovery
Chlorothalonil	---	nd	---
Iprodione	---	nd	---
Propiconazole	---	nd	---
Decachlorobiphenyl (Surrogate)	0.05	0.049	99%
Fenbuconazole (Surrogate)	0.05	0.049	97%

20 063 LCS

Analyte	Amt Spiked	Result	Percent Recovery
Chlorothalonil	0.5	0.929	186%
Iprodione	1.0	0.899	90%
Propiconazole	0.5	0.447	89%
Decachlorobiphenyl (Surrogate)	0.05	0.055	109%
Fenbuconazole (Surrogate)	0.05	0.045	91%

20 056-01 MS

Analyte	Amt Spiked	Result	Percent Recovery
Chlorothalonil	0.5	0.936	187%
Iprodione	1.0	0.893	89%
Propiconazole	0.5	0.452	90%
Decachlorobiphenyl (Surrogate)	0.05	0.055	110%
Fenbuconazole (Surrogate)	0.05	0.046	93%

20 056-01 MSD

Analyte	Amt Spiked	Result	Percent Recovery
Chlorothalonil	0.5	0.856	171%
Iprodione	1.0	0.918	92%
Propiconazole	0.5	0.458	92%
Decachlorobiphenyl (Surrogate)	0.05	0.046	92%
Fenbuconazole (Surrogate)	0.05	0.047	95%

Synergistic Pesticide Laboratory LLC
2700B N. Hayden Island Dr.
Portland, OR 97217
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Fax: 503-954-3073
info@synpestlab.com

Client Name:	Pace Analytical Minnesota	**Date:**	8/7/20
Client Address:	1700 Elm Street, Ste 200	**SPL Project #:**	20 056
	Minneapolis, MN 55414	**Client Project #:**	10522569
Client Phone:	612-709-5046		

Report Specific Notes

1) All samples were received, extracted and analyzed out of EPA hold time of 14 days for semivolatile analytes in soil.
2) Recoveries for chlorothalonil are outside the arbitraty acceptance limits of 70-130%. However, recoveries are within the UCL of 196% based on method validation for this soil extraction and analytical method conducted on 5/14/20 (x = 130%, n=8). Continuing Calibration Verification (CCV) samples were acceptable throughout the run.

Laboratory Report Definitions

F – Fungicide
LCL – Lower Control Limit – acceptance criteria based on the mean minus three times the standard deviation of a data set
LCS – Laboratory Control Sample – prepared from analyte free water or sand and spiked with known amount of analytes for the purpose of measuring the effect of the reagents used in extraction or analysis
LCSD – Laboratory Control Sample Duplicate
MS – Matrix Spike – prepared from additional sample and spiked with known amount of analytes for the purpose of measuring the effect of the sample matrix on analysis
MSD – Matrix Spike Duplicate
MB – Method Blank – shows any interference in extraction method
nd – non detect – substance not found above the reporting limit
ppb – parts per billion
ppm – parts per million
RL – Reporting Limit – the minimum amount of a substance that can be reported with confidence
UCL – Upper Control Limit – acceptance criteria based on the mean plus three times the standard deviation of a data set

Results provided relate to submitted samples only. Unless otherwise noted, samples were received in good condition and all Quality Control samples met acceptance criteria. Quality Control data is available upon request. This report shall not be reproduced, except in full, without the permission of Synergistic Pesticide Laboratory, LLC.

Authorized by:_____ Date: 8/7/2020

Camille Holladay
Lab Director

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

July 31, 2020

Bob Michels
Pace Analytical
1700 Elm Street, Suite 200
Minneapolis, MN 55414

RE: B1903316.00 Hillcrest

Enclosed are the analytical results for the samples received by the laboratory on 07/23/2020.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. These results are in compliance with the 2009 NELAC Standards and the appropriate agencies listed below, unless otherwise noted in the case narrative. This analytical report should be reproduced in its entirety.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Molly Palzkill

Project Manager

Certification List			Expires
DODELAP	DOD ELAP Accreditation (A2LA)	3269.01	03/31/2021
ILEPA	Illinois Secondary NELAP Accreditation	004366	04/30/2021
KDHE	Kansas Secondary NELAP Accreditation	E-10384	04/30/2021
LELAP	Louisiana Primary NELAP Accreditation	04165	06/30/2021
NJDEP	New Jersey Secondary NELAP Accreditation	WI004	06/30/2021
TCEQ	Texas Secondary NELAP Accreditation	T104704504-16-7	11/30/2020
WDNR	Wisconsin Certification under NR 149	113289110	08/31/2020

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Pace Analytical	Project: B1903316.00 Hillcrest
1700 Elm Street, Suite 200	Project Number: 10522569
Minneapolis MN, 55414	Project Manager: Bob Michels

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ASB-4 (0-0.5) (10522569013)	A203015-01	Soil	06/22/2020	07/23/2020
ASB-7 (0-0.5) (10522569016)	A203015-02	Soil	06/22/2020	07/23/2020
ASB-13c (0-0.5) (10522569019)	A203015-03	Soil	06/22/2020	07/23/2020
ASB-6c (0-0.5) (10522569025)	A203015-04	Soil	06/22/2020	07/23/2020
ASB-8c (0-0.5) (10522569028)	A203015-05	Soil	06/22/2020	07/23/2020

CASE NARRATIVE

Sample Receipt Information:
Five samples were received on 07/23/2020. Samples were received in acceptable condition.

Samples were received past recommended hold time. Client was notified and instructed the lab to proceed with the analysis.

Please see the chain of custody (COC) document at the end of this report for additional information.

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Minneapolis MN, 55414	Project Manager: Bob Michels

ASB-4 (0-0.5) (10522569013)

A203015-01 (Soil)

Date Sampled
06/22/2020 12:57

Pace Analytical - Madison

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pesticides by LCMSMS					**Preparation Batch: A007184**			**H**
2,4-D	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 02:49	EPA 8321B	
2,4-DB	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 02:49	EPA 8321B	
2,4,5-T	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 02:49	EPA 8321B	
2,4,5-TP (Silvex)	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 02:49	EPA 8321B	
Bentazon	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 02:49	EPA 8321B	
Dicamba	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 02:49	EPA 8321B	
MCPA	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 02:49	EPA 8321B	
Picloram	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 02:49	EPA 8321B	
Triclopyr	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 02:49	EPA 8321B	
Surrogate: 2,4-D-d5		*96.6 %*		*60-140*	*07/27/2020*	*07/28/2020 02:49*	*EPA 8321B*	
Surrogate: DCAA		*96.7 %*		*60-140*	*07/27/2020*	*07/28/2020 02:49*	*EPA 8321B*	
Classical Chemistry Parameters					**Preparation Batch: A007188**			
% Solids	**93.1**	0.00	% by Weight	1	07/27/2020	07/28/2020 13:37	SM 2540B	

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Minneapolis MN, 55414	Project Manager: Bob Michels

ASB-7 (0-0.5) (10522569016)

A203015-02 (Soil)

Date Sampled
06/22/2020 13:30

Pace Analytical - Madison

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pesticides by LCMSMS					**Preparation Batch: A007184**			**H**
2,4-D	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 03:07	EPA 8321B	
2,4-DB	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 03:07	EPA 8321B	
2,4,5-T	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 03:07	EPA 8321B	
2,4,5-TP (Silvex)	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 03:07	EPA 8321B	
Bentazon	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 03:07	EPA 8321B	
Dicamba	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 03:07	EPA 8321B	
MCPA	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 03:07	EPA 8321B	
Picloram	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 03:07	EPA 8321B	
Triclopyr	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 03:07	EPA 8321B	
Surrogate: 2,4-D-d5		*93.4 %*		*60-140*	*07/27/2020*	*07/28/2020 03:07*	*EPA 8321B*	
Surrogate: DCAA		*93.7 %*		*60-140*	*07/27/2020*	*07/28/2020 03:07*	*EPA 8321B*	
Classical Chemistry Parameters					**Preparation Batch: A007188**			
% Solids	**87.2**	0.00	% by Weight	1	07/27/2020	07/28/2020 13:37	SM 2540B	

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1700 Elm Street, Suite 200	Project Number: 10522569
Minneapolis MN, 55414	Project Manager: Bob Michels

ASB-13c (0-0.5) (10522569019)

A203015-03 (Soil)

Date Sampled
06/22/2020 14:23

Pace Analytical - Madison

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pesticides by LCMSMS					**Preparation Batch: A007184**			**H**
2,4-D	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 03:24	EPA 8321B	
2,4-DB	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 03:24	EPA 8321B	
2,4,5-T	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 03:24	EPA 8321B	
2,4,5-TP (Silvex)	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 03:24	EPA 8321B	
Bentazon	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 03:24	EPA 8321B	
Dicamba	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 03:24	EPA 8321B	
MCPA	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 03:24	EPA 8321B	
Picloram	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 03:24	EPA 8321B	
Triclopyr	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 03:24	EPA 8321B	
Surrogate: 2,4-D-d5		*94.7 %*		*60-140*	*07/27/2020*	*07/28/2020 03:24*	*EPA 8321B*	
Surrogate: DCAA		*98.9 %*		*60-140*	*07/27/2020*	*07/28/2020 03:24*	*EPA 8321B*	
Classical Chemistry Parameters					**Preparation Batch: A007188**			
% Solids	**84.4**	0.00	% by Weight	1	07/27/2020	07/28/2020 13:37	SM 2540B	

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1700 Elm Street, Suite 200	Project Number: 10522569
Minneapolis MN, 55414	Project Manager: Bob Michels

ASB-6c (0-0.5) (10522569025)

A203015-04 (Soil)

Date Sampled
06/22/2020 15:50

Pace Analytical - Madison

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pesticides by LCMSMS					**Preparation Batch: A007184**			**H**
2,4-D	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 03:42	EPA 8321B	
2,4-DB	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 03:42	EPA 8321B	
2,4,5-T	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 03:42	EPA 8321B	
2,4,5-TP (Silvex)	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 03:42	EPA 8321B	
Bentazon	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 03:42	EPA 8321B	
Dicamba	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 03:42	EPA 8321B	
MCPA	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 03:42	EPA 8321B	
Picloram	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 03:42	EPA 8321B	
Triclopyr	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 03:42	EPA 8321B	
Surrogate: 2,4-D-d5		*97.5 %*		*60-140*	*07/27/2020*	*07/28/2020 03:42*	*EPA 8321B*	
Surrogate: DCAA		*92.4 %*		*60-140*	*07/27/2020*	*07/28/2020 03:42*	*EPA 8321B*	
Classical Chemistry Parameters					**Preparation Batch: A007188**			
% Solids	**85.5**	0.00	% by Weight	1	07/27/2020	07/28/2020 13:37	SM 2540B	

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Minneapolis MN, 55414	Project Manager: Bob Michels

ASB-8c (0-0.5) (10522569028)

A203015-05 (Soil)

Date Sampled
06/22/2020 16:47

Pace Analytical - Madison

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pesticides by LCMSMS					**Preparation Batch: A007184**			**H**
2,4-D	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 04:54	EPA 8321B	
2,4-DB	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 04:54	EPA 8321B	
2,4,5-T	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 04:54	EPA 8321B	
2,4,5-TP (Silvex)	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 04:54	EPA 8321B	
Bentazon	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 04:54	EPA 8321B	
Dicamba	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 04:54	EPA 8321B	
MCPA	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 04:54	EPA 8321B	
Picloram	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 04:54	EPA 8321B	
Triclopyr	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 04:54	EPA 8321B	
Surrogate: 2,4-D-d5		*89.5 %*		*60-140*	*07/27/2020*	*07/28/2020 04:54*	*EPA 8321B*	
Surrogate: DCAA		*97.0 %*		*60-140*	*07/27/2020*	*07/28/2020 04:54*	*EPA 8321B*	
Classical Chemistry Parameters					**Preparation Batch: A007188**			
% Solids	**83.0**	0.00	% by Weight	1	07/27/2020	07/28/2020 13:37	SM 2540B	

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1700 Elm Street, Suite 200
Minneapolis MN, 55414

Project: B1903316.00 Hillcrest
Project Number: 10522569
Project Manager: Bob Michels

Pesticides by LCMSMS - Quality Control

Pace Analytical - Madison

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A007184 - EPA 3570										
Blank (A007184-BLK1)				Prepared: 07/27/2020 Analyzed: 07/28/2020 01:01						
2,4-D	ND	0.10	mg/kg wet							
2,4-DB	ND	0.10	mg/kg wet							
2,4,5-T	ND	0.10	mg/kg wet							
2,4,5-TP (Silvex)	ND	0.10	mg/kg wet							
Bentazon	ND	0.10	mg/kg wet							
Dicamba	ND	0.10	mg/kg wet							
MCPA	ND	0.10	mg/kg wet							
Picloram	ND	0.10	mg/kg wet							
Triclopyr	ND	0.10	mg/kg wet							
Surrogate: 2,4-D-d5	*0.765*		*mg/kg wet*	*0.8090*		*94.5*	*60-140*			
Surrogate: DCAA	*1.56*		*mg/kg wet*	*1.617*		*96.4*	*60-140*			
LCS (A007184-BS1)				Prepared: 07/27/2020 Analyzed: 07/28/2020 01:19						
2,4-D	0.807	0.020	mg/kg wet	0.8068		100	60-140			
2,4-DB	0.839	0.020	mg/kg wet	0.8068		104	60-140			
2,4,5-T	0.829	0.020	mg/kg wet	0.8068		103	60-140			
2,4,5-TP (Silvex)	0.850	0.020	mg/kg wet	0.8068		105	60-140			
Bentazon	0.457	0.020	mg/kg wet	0.4034		113	60-140			E
Dicamba	1.60	0.050	mg/kg wet	1.614		99.3	60-140			
MCPA	0.796	0.020	mg/kg wet	0.8068		98.7	60-140			
Picloram	1.44	0.050	mg/kg wet	1.614		89.3	60-140			
Triclopyr	0.849	0.020	mg/kg wet	0.8068		105	60-140			
Surrogate: 2,4-D-d5	*0.747*		*mg/kg wet*	*0.8074*		*92.5*	*60-140*			
Surrogate: DCAA	*1.49*		*mg/kg wet*	*1.614*		*92.4*	*60-140*			
Matrix Spike (A007184-MS1)	**Source: A203013-01**			Prepared: 07/27/2020 Analyzed: 07/28/2020 01:37						
2,4-D	0.910	0.024	mg/kg dry	0.9520	ND	95.6	60-140			
2,4-DB	0.794	0.024	mg/kg dry	0.9520	ND	83.4	60-140			
2,4,5-T	0.856	0.024	mg/kg dry	0.9520	ND	89.9	60-140			
2,4,5-TP (Silvex)	0.976	0.024	mg/kg dry	0.9520	ND	103	60-140			
Bentazon	0.551	0.024	mg/kg dry	0.4760	ND	116	60-140			E
Dicamba	1.92	0.059	mg/kg dry	1.904	ND	101	60-140			
MCPA	0.894	0.024	mg/kg dry	0.9520	ND	93.9	60-140			
Picloram	1.69	0.059	mg/kg dry	1.904	ND	88.8	60-140			
Triclopyr	0.974	0.024	mg/kg dry	0.9520	ND	102	60-140			
Surrogate: 2,4-D-d5	*0.868*		*mg/kg dry*	*0.9527*		*91.1*	*60-140*			
Surrogate: DCAA	*1.74*		*mg/kg dry*	*1.904*		*91.4*	*60-140*			
Matrix Spike Dup (A007184-MSD1)	**Source: A203013-01**			Prepared: 07/27/2020 Analyzed: 07/28/2020 01:55						
2,4-D	0.920	0.024	mg/kg dry	0.9595	ND	95.8	60-140	1.05	20	
2,4-DB	0.730	0.024	mg/kg dry	0.9595	ND	76.1	60-140	8.38	20	
2,4,5-T	0.871	0.024	mg/kg dry	0.9595	ND	90.8	60-140	1.82	20	
2,4,5-TP (Silvex)	0.996	0.024	mg/kg dry	0.9595	ND	104	60-140	2.00	20	
Bentazon	0.574	0.024	mg/kg dry	0.4798	ND	120	60-140	4.12	20	E
Dicamba	1.96	0.059	mg/kg dry	1.919	ND	102	60-140	2.01	20	
MCPA	0.917	0.024	mg/kg dry	0.9595	ND	95.5	60-140	2.47	20	
Picloram	1.74	0.059	mg/kg dry	1.919	ND	90.7	60-140	2.96	20	
Triclopyr	1.02	0.024	mg/kg dry	0.9595	ND	106	60-140	4.22	20	

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Pace Analytical	Project: B1903316.00 Hillcrest
1700 Elm Street, Suite 200	Project Number: 10522569
Minneapolis MN, 55414	Project Manager: Bob Michels

Pesticides by LCMSMS - Quality Control

Pace Analytical - Madison

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A007184 - EPA 3570										
Matrix Spike Dup (A007184-MSD1)		**Source: A203013-01**		Prepared: 07/27/2020 Analyzed: 07/28/2020 01:55						
Surrogate: 2,4-D-d5	*0.832*		*mg/kg dry*	*0.9602*		*86.7*	*60-140*			
Surrogate: DCAA	*1.63*		*mg/kg dry*	*1.919*		*84.8*	*60-140*			

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Minneapolis MN, 55414	Project Manager: Bob Michels

Classical Chemistry Parameters - Quality Control

Pace Analytical - Madison

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A007188 - % Solids										
Duplicate (A007188-DUP1)		**Source: A203014-04**		Prepared: 07/27/2020 Analyzed: 07/28/2020 13:37						
% Solids	75.9	0.00	% by Weight		77.6			2.22	20	

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1700 Elm Street, Suite 200	Project Number: 10522569
Minneapolis MN, 55414	Project Manager: Bob Michels

Notes and Definitions

H	The sample was held beyond the accepted holding time.
E	The concentration indicated is above the instrument calibration range. This value is an estimated concentration.
ND	Analyte NOT DETECTED at or above the reporting limit or limit of detection (if listed).
NR	Not Reported
dry	Sample results reported on a dry weight basis. Detection limits (if listed) and reporting limits have been adjusted for the solids content. If the word 'dry' does not appear after the units, results are reported on an as-is basis.
RPD	Relative Percent Difference

Detection limits (if listed) and reporting limits have been adjusted for dilutions, if reported.

Internal Transfer Chain of Custody

Pace Analytical®
www.pacelabs.com

☐ Samples Pre-Logged into eCOC.

A203015

State Of Origin: MN
Cert. Needed: ☒ Yes ☐ No
Owner Received Date: 6/23/2020 Results Requested By: 8/5/2020

Workorder: 10522569 **Workorder Name:** B1903316.00 Hillcrest

Report To

Bob Michels
Pace Analytical Minnesota
1700 Elm Street
Suite 200
Minneapolis, MN 55414
Phone (612)709-5046

Subcontract To

Pace Analytical Madison
2525 Advance Road
Madison, WI 53718
Phone (608)221-8700

JGFU

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved						Requested Analysis: MDA List 2 Pesticides												LAB USE ONLY
1	ASB-10 (2-2.5)	PS	6/22/2020 10:51	10522569002	Solid																			
2	ASB-4 (0-0.5)	PS	6/22/2020 12:57	10522569013	Solid	1						X												01
3	ASB-4 (2-2.5)	PS	6/22/2020 13:05	10522569014	Solid																			
4	ASB-7 (0-0.5)	PS	6/22/2020 13:30	10522569016	Solid	1						X												02
5	ASB-7 (2-2.5)	PS	6/22/2020 13:40	10522569017	Solid																			
6	ASB-13c (0-0.5)	PS	6/22/2020 14:23	10522569019	Solid	1						X												03
7	ASB-13c (2-2.5)	PS	6/22/2020 14:30	10522569020	Solid																			
8	DUP-16-06222020	PS	6/22/2020 12:00	10522569022	Solid																			
9	Equipment Blank (Water)	PS	6/22/2020 15:00	10522569023	Water																			
10	DUP-17-06222020	PS	6/22/2020 12:01	10522569024	Solid																			
11	ASB-6c (0-0.5)	PS	6/22/2020 15:50	10522569025	Solid	1						X												04
12	ASB-6c (2-2.5)	PS	6/22/2020 15:41	10522569026	Solid																			
13	ASB-8c (0-0.5)	PS	6/22/2020 16:47	10522569028	Solid	1						X												05
14	ASB-8c (2-2.5)	PS	6/22/2020 16:30	10522569029	Solid																			
15	DUP-18-06222020	PS	6/22/2020 12:02	10522569031	Solid																			

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1	[illegible]	7/22/2015:45	[illegible]	7/23/20 11:30	
2					
3					

Cooler Temperature on Receipt 2.4 °C	Custody Seal Y or N	Received on Ice Y or N	Samples Intact Y or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.

This chain of custody is considered complete as is since this information is available in the owner laboratory.

S/N 1601422774
Exp 12/19/20

A203015

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

August 20, 2020

Mark Keefer
Braun Intertec
11001 Hampshire Ave S
Bloomington, MN 55438

RE: Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Dear Mark Keefer:

Enclosed are the analytical results for sample(s) received by the laboratory on June 24, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses were subcontracted outside of the Pace Network. The test report from the external subcontractor is attached to this report in its entirety.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet
- Pace Analytical Services - Duluth
- Pace Analytical Services - Minneapolis

This report was revised on August 20, 2020, to include results of analysis as described in the revised Chain of Custody for Pace samples 10522687001, 004, 007, 010.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bob Michels
bob.michels@pacelabs.com
(612)709-5046
Project Manager

Enclosures

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Pace Analytical Services - Minneapolis MN

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

Pace Analytical Services Duluth Minnesota

4730 Oneota St., Duluth, MN 55807
Minnesota Dept of Ag Certification #: Via MN Dept of Health 027-137-152
Montana DHHS Certification #: CERT0102
Minnesota Dept of Health Certification #: 1733125
Wisconsin Dept of Agriculture Certification #: 480341
Wisconsin DNR Certification # : 999446800
North Dakota Certification #: R-105
Nevada DCNR Certification #: MN000372019-1

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Pace Analytical Services National

Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05
Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Virginia Certification #: VT2006
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 9980939910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

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Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10522687001	**ASB-11C (0-0.5)**	Solid	06/23/20 09:21	06/24/20 10:50
10522687002	**ASB-11C (2-2.5)**	Solid	06/23/20 09:14	06/24/20 10:50
10522687004	**ASB-5C (0-0.5)**	Solid	06/23/20 10:17	06/24/20 10:50
10522687005	**ASB-5C (2-2.5)**	Solid	06/23/20 10:10	06/24/20 10:50
10522687007	**ASB-9C (0-0.5)**	Solid	06/23/20 11:27	06/24/20 10:50
10522687008	**ASB-9C (2-2.5)**	Solid	06/23/20 11:20	06/24/20 10:50
10522687009	**ASB-9C (4-4.5)**	Solid	06/23/20 11:01	06/24/20 10:50
10522687010	**ASB-12C (0-0.5)**	Solid	06/23/20 12:30	06/24/20 10:50
10522687011	**ASB-12C (2-2.5)**	Solid	06/23/20 12:05	06/24/20 10:50
10522687013	**TT-4 (7-8)**	Solid	06/23/20 14:00	06/24/20 10:50
10522687014	**TT-5 (2-3)**	Solid	06/23/20 15:14	06/24/20 10:50
10522687015	**TT-6 (8-9)**	Solid	06/23/20 00:00	06/24/20 10:50
10522687016	**DUP-19-06232020**	Solid	06/23/20 00:00	06/24/20 10:50
10522687017	**MeOH Trip Blank**	Solid	06/23/20 00:00	06/24/20 10:50

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(612)607-1700

SAMPLE ANALYTE COUNT

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10522687001	**ASB-11C (0-0.5)**	EPA 351.2	BT1	1	PASI-DUL
		EPA 353.2	AXP	1	PASI-DUL
		ASTM D 2974-13 (2013)	AXP	1	PASI-DUL
10522687002	**ASB-11C (2-2.5)**	EPA 351.2	BT1	1	PASI-DUL
		EPA 353.2	AXP	1	PASI-DUL
		ASTM D2974	JDL	1	PASI-M
10522687004	**ASB-5C (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10522687005	**ASB-5C (2-2.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10522687007	**ASB-9C (0-0.5)**	EPA 351.2	BT1	1	PASI-DUL
		EPA 353.2	AXP	1	PASI-DUL
		ASTM D 2974-13 (2013)	AXP	1	PASI-DUL
		EPA 7471B	LMW	1	PASI-M
10522687008	**ASB-9C (2-2.5)**	EPA 351.2	BT1	1	PASI-DUL
		EPA 353.2	AXP	1	PASI-DUL
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10522687009	**ASB-9C (4-4.5)**	WI MOD DRO	JVM	2	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8260D	DWR	71	PAN
		SM 2540G	KBC	1	PAN
10522687010	**ASB-12C (0-0.5)**	EPA 351.2	BT1	1	PASI-DUL
		EPA 353.2	AXP	1	PASI-DUL
		ASTM D 2974-13 (2013)	AXP	1	PASI-DUL
10522687011	**ASB-12C (2-2.5)**	EPA 351.2	BT1	1	PASI-DUL
		EPA 353.2	AXP	1	PASI-DUL
		ASTM D2974	JDL	1	PASI-M
10522687013	**TT-4 (7-8)**	EPA 6010D	IP	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	JNG	19	PASI-M
		EPA 8260D	DWR	71	PAN
		SM 2540G	KBC	1	PAN
10522687014	**TT-5 (2-3)**	EPA 6010D	IP	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8270E by SIM	JNG	19	PASI-M
		EPA 8260D	DWR	71	PAN
		SM 2540G	KBC	1	PAN
10522687015	**TT-6 (8-9)**	EPA 6010D	IP	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	JNG	19	PASI-M
		EPA 8260D	DWR	71	PAN
		SM 2540G	KBC	1	PAN
10522687016	**DUP-19-06232020**	EPA 6010D	IP	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	JNG	19	PASI-M
		EPA 8260D	DWR	71	PAN
		SM 2540G	KBC	1	PAN
10522687017	**MeOH Trip Blank**	EPA 8260D	DWR	71	PAN

PAN = Pace National - Mt. Juliet
PASI-DUL = Pace Analytical Services - Duluth
PASI-M = Pace Analytical Services - Minneapolis

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SUMMARY OF DETECTION

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10522687001	**ASB-11C (0-0.5)**					
EPA 351.2	Nitrogen, Kjeldahl, Total	1060	mg/kg	45.5	07/31/20 15:32	M1,R1
EPA 353.2	Nitrogen, NO2 plus NO3	0.25	mg/kg	0.20	08/06/20 13:38	N2
ASTM D 2974-13 (2013)	Percent Moisture	16.9	%	0.10	07/30/20 16:06	
10522687002	**ASB-11C (2-2.5)**					
EPA 351.2	Nitrogen, Kjeldahl, Total	3850	mg/kg	700	07/02/20 12:56	M6
ASTM D2974	Percent Moisture	28.6	%	0.10	07/06/20 09:47	N2
10522687004	**ASB-5C (0-0.5)**					
ASTM D2974	Percent Moisture	11.7	%	0.10	07/22/20 14:55	N2
10522687005	**ASB-5C (2-2.5)**					
ASTM D2974	Percent Moisture	16.4	%	0.10	07/06/20 09:47	N2
10522687007	**ASB-9C (0-0.5)**					
EPA 351.2	Nitrogen, Kjeldahl, Total	483	mg/kg	47.6	07/31/20 15:34	
EPA 353.2	Nitrogen, NO2 plus NO3	0.40	mg/kg	0.20	08/06/20 13:39	N2
ASTM D 2974-13 (2013)	Percent Moisture	9.5	%	0.10	07/30/20 16:06	
EPA 7471B	Mercury	0.61	mg/kg	0.019	07/27/20 18:22	
10522687008	**ASB-9C (2-2.5)**					
EPA 351.2	Nitrogen, Kjeldahl, Total	793	mg/kg	49.6	07/02/20 12:31	
EPA 353.2	Nitrogen, NO2 plus NO3	0.44	mg/kg	0.23	06/30/20 12:22	N2
EPA 7471B	Mercury	0.78	mg/kg	0.022	06/30/20 12:30	
ASTM D2974	Percent Moisture	12.3	%	0.10	07/06/20 09:47	N2
10522687009	**ASB-9C (4-4.5)**					
WI MOD DRO	WDRO C10-C28	35.0	mg/kg	9.0	06/27/20 14:59	T6
ASTM D2974	Percent Moisture	11.5	%	0.10	07/06/20 09:47	N2
SM 2540G	Total Solids	94.1	%		07/01/20 01:51	
10522687010	**ASB-12C (0-0.5)**					
EPA 351.2	Nitrogen, Kjeldahl, Total	197	mg/kg	47.6	07/31/20 15:35	
EPA 353.2	Nitrogen, NO2 plus NO3	0.25	mg/kg	0.20	08/06/20 13:40	N2
ASTM D 2974-13 (2013)	Percent Moisture	10.7	%	0.10	07/30/20 16:06	
10522687011	**ASB-12C (2-2.5)**					
EPA 351.2	Nitrogen, Kjeldahl, Total	638	mg/kg	50.8	07/02/20 12:32	
ASTM D2974	Percent Moisture	10.4	%	0.10	07/06/20 12:06	N2
10522687013	**TT-4 (7-8)**					
EPA 6010D	Arsenic	4.3	mg/kg	1.7	06/28/20 13:15	
EPA 6010D	Barium	213	mg/kg	0.87	06/28/20 13:15	
EPA 6010D	Cadmium	2.0	mg/kg	0.26	06/28/20 13:15	
EPA 6010D	Chromium	21.8	mg/kg	0.87	06/28/20 13:15	
EPA 6010D	Lead	622	mg/kg	0.87	06/28/20 13:15	
EPA 7471B	Mercury	1.2	mg/kg	0.033	06/30/20 12:33	
ASTM D2974	Percent Moisture	44.8	%	0.10	07/06/20 12:07	N2
EPA 8270E by SIM	Fluoranthene	245	ug/kg	180	06/25/20 18:56	
SM 2540G	Total Solids	51.2	%		07/01/20 01:51	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SUMMARY OF DETECTION

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10522687014	**TT-5 (2-3)**					
EPA 6010D	Arsenic	3.4	mg/kg	1.1	06/28/20 13:24	
EPA 6010D	Barium	43.6	mg/kg	0.55	06/28/20 13:24	
EPA 6010D	Cadmium	0.23	mg/kg	0.16	06/28/20 13:24	
EPA 6010D	Chromium	13.1	mg/kg	0.55	06/28/20 13:24	
EPA 6010D	Lead	27.4	mg/kg	0.55	06/28/20 13:24	
EPA 7471B	Mercury	1.2	mg/kg	0.045	06/30/20 12:55	
ASTM D2974	Percent Moisture	11.2	%	0.10	07/06/20 12:07	N2
SM 2540G	Total Solids	87.1	%		07/01/20 01:51	
10522687015	**TT-6 (8-9)**					
EPA 6010D	Arsenic	2.9	mg/kg	1.1	06/28/20 13:27	
EPA 6010D	Barium	67.4	mg/kg	0.56	06/28/20 13:27	
EPA 6010D	Cadmium	0.73	mg/kg	0.17	06/28/20 13:27	
EPA 6010D	Chromium	32.9	mg/kg	0.56	06/28/20 13:27	
EPA 6010D	Lead	13.1	mg/kg	0.56	06/28/20 13:27	
EPA 7471B	Mercury	4.6	mg/kg	0.20	06/30/20 13:06	
ASTM D2974	Percent Moisture	13.2	%	0.10	07/06/20 12:07	N2
EPA 8270E by SIM	Fluoranthene	12.3	ug/kg	11.5	06/25/20 19:37	
EPA 8270E by SIM	Pyrene	11.8	ug/kg	11.5	06/25/20 19:37	
SM 2540G	Total Solids	88.0	%		07/01/20 01:51	
10522687016	**DUP-19-06232020**					
EPA 6010D	Arsenic	3.8	mg/kg	1.1	06/28/20 13:30	
EPA 6010D	Barium	104	mg/kg	0.54	06/28/20 13:30	
EPA 6010D	Cadmium	0.71	mg/kg	0.16	06/28/20 13:30	
EPA 6010D	Chromium	25.8	mg/kg	0.54	06/28/20 13:30	
EPA 6010D	Lead	15.7	mg/kg	0.54	06/28/20 13:30	
EPA 7471B	Mercury	7.2	mg/kg	0.23	06/30/20 13:09	
ASTM D2974	Percent Moisture	12.8	%	0.10	07/06/20 12:07	N2
SM 2540G	Total Solids	86.7	%		07/01/20 01:51	

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Method: **EPA 351.2**
Description: 351.2 Total Kjeldahl Nitrogen
Client: Braun Intertec Corporation
Date: August 20, 2020

General Information:
6 samples were analyzed for EPA 351.2 by Pace Analytical Services Duluth. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 351.2 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 192624

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10522687002,12146053011

M6: Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

- MS (Lab ID: 759366)
  - Nitrogen, Kjeldahl, Total

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Method: **EPA 351.2**
Description: 351.2 Total Kjeldahl Nitrogen
Client: Braun Intertec Corporation
Date: August 20, 2020

QC Batch: 194499

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10522687001,10524951013

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 768054)
  - Nitrogen, Kjeldahl, Total
- MSD (Lab ID: 768055)
  - Nitrogen, Kjeldahl, Total

R1: RPD value was outside control limits.

- MSD (Lab ID: 768055)
  - Nitrogen, Kjeldahl, Total

Additional Comments:

Analyte Comments:

QC Batch: 194499

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MSD (Lab ID: 768055)
  - Nitrogen, Kjeldahl, Total

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3
Client: Braun Intertec Corporation
Date: August 20, 2020

General Information:
6 samples were analyzed for EPA 353.2 by Pace Analytical Services Duluth. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 353.2 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 195312

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10522569004,10525347042

P6: Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

- MS (Lab ID: 771846)
  - Nitrogen, NO2 plus NO3
- MSD (Lab ID: 771847)
  - Nitrogen, NO2 plus NO3

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3
Client: Braun Intertec Corporation
Date: August 20, 2020

Additional Comments:

Analyte Comments:

QC Batch: 192504

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- ASB-11C (2-2.5) (Lab ID: 10522687002)
  - Nitrogen, NO2 plus NO3
- ASB-12C (2-2.5) (Lab ID: 10522687011)
  - Nitrogen, NO2 plus NO3
- ASB-9C (2-2.5) (Lab ID: 10522687008)
  - Nitrogen, NO2 plus NO3
- BLANK (Lab ID: 758699)
  - Nitrogen, NO2 plus NO3
- LCS (Lab ID: 758698)
  - Nitrogen, NO2 plus NO3
- MS (Lab ID: 758700)
  - Nitrogen, NO2 plus NO3
- MS (Lab ID: 758711)
  - Nitrogen, NO2 plus NO3
- MSD (Lab ID: 758701)
  - Nitrogen, NO2 plus NO3
- MSD (Lab ID: 758712)
  - Nitrogen, NO2 plus NO3

QC Batch: 195312

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- ASB-11C (0-0.5) (Lab ID: 10522687001)
  - Nitrogen, NO2 plus NO3
- ASB-12C (0-0.5) (Lab ID: 10522687010)
  - Nitrogen, NO2 plus NO3
- ASB-9C (0-0.5) (Lab ID: 10522687007)
  - Nitrogen, NO2 plus NO3
- BLANK (Lab ID: 771843)
  - Nitrogen, NO2 plus NO3
- LCS (Lab ID: 771842)
  - Nitrogen, NO2 plus NO3
- MS (Lab ID: 771844)
  - Nitrogen, NO2 plus NO3
- MS (Lab ID: 771846)
  - Nitrogen, NO2 plus NO3
- MSD (Lab ID: 771845)
  - Nitrogen, NO2 plus NO3
- MSD (Lab ID: 771847)
  - Nitrogen, NO2 plus NO3

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Method: **ASTM D 2974-13 (2013)**
Description: Dry Weight, Duluth
Client: Braun Intertec Corporation
Date: August 20, 2020

General Information:
3 samples were analyzed for ASTM D 2974-13 (2013) by Pace Analytical Services Duluth. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Method: **WI MOD DRO**
Description: WIDRO GCS
Client: Braun Intertec Corporation
Date: August 20, 2020

General Information:
1 sample was analyzed for WI MOD DRO by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with WI MOD DRO with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 683179

T6: High boiling point hydrocarbons are present in the sample.

- ASB-9C (4-4.5) (Lab ID: 10522687009)
  - WDRO C10-C28

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Method: **EPA 6010D**
Description: 6010D MET ICP
Client: Braun Intertec Corporation
Date: August 20, 2020

General Information:
4 samples were analyzed for EPA 6010D by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3050B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 683241

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10522569002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 3655748)
  - Barium

Additional Comments:

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Method: **EPA 7471B**
Description: 7471B Mercury
Client: Braun Intertec Corporation
Date: August 20, 2020

General Information:
8 samples were analyzed for EPA 7471B by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7471B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Method: **EPA 8270E by SIM**
Description: 8270E MSSV PAH by SIM
Client: Braun Intertec Corporation
Date: August 20, 2020

General Information:
4 samples were analyzed for EPA 8270E by SIM by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3550C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: 683061

S4: Surrogate recovery not evaluated against control limits due to sample dilution.
- TT-4 (7-8) (Lab ID: 10522687013)
  - p-Terphenyl-d14 (S)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 683061

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
- TT-4 (7-8) (Lab ID: 10522687013)
  - p-Terphenyl-d14 (S)

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Method: **EPA 8270E by SIM**
Description: 8270E MSSV PAH by SIM
Client: Braun Intertec Corporation
Date: August 20, 2020

Analyte Comments:

QC Batch: 683061

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- DUP-19-06232020 (Lab ID: 10522687016)
  - Total BaP Eq. MN 2006sh. ND=0
- TT-4 (7-8) (Lab ID: 10522687013)
  - Total BaP Eq. MN 2006sh. ND=0
- TT-5 (2-3) (Lab ID: 10522687014)
  - Total BaP Eq. MN 2006sh. ND=0
- TT-6 (8-9) (Lab ID: 10522687015)
  - Total BaP Eq. MN 2006sh. ND=0

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Method: **EPA 8260D**
Description: VOA (GC/MS) 8260D
Client: Braun Intertec Corporation
Date: August 20, 2020

General Information:
6 samples were analyzed for EPA 8260D by Pace National Mt. Juliet. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

QC Batch: 1501601

CC: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The result may be biased.

- ASB-9C (4-4.5) (Lab ID: 10522687009)
  - Bromomethane
  - Vinyl chloride
- DUP-19-06232020 (Lab ID: 10522687016)
  - Bromomethane
  - Vinyl chloride
- MeOH Trip Blank (Lab ID: 10522687017)
  - Bromomethane
  - Vinyl chloride
- TT-4 (7-8) (Lab ID: 10522687013)
  - Bromomethane
  - Vinyl chloride
- TT-5 (2-3) (Lab ID: 10522687014)
  - Bromomethane
  - Vinyl chloride
- TT-6 (8-9) (Lab ID: 10522687015)
  - Bromomethane
  - Vinyl chloride

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Method: **EPA 8260D**
Description: VOA (GC/MS) 8260D
Client: Braun Intertec Corporation
Date: August 20, 2020

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 1501601

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10522687013

R1: RPD value was outside control limits.

- MSD (Lab ID: R3544945-5)
  - 1,2-Dibromo-3-chloropropane
  - Acetone
  - Methylene Chloride
  - Naphthalene
  - Tetrahydrofuran

Additional Comments:

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Method: **SM 2540G**
Description: Total Solids 2540 G-2011
Client: Braun Intertec Corporation
Date: August 20, 2020

General Information:
5 samples were analyzed for SM 2540G by Pace National Mt. Juliet. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Sample: ASB-11C (0-0.5) **Lab ID: 10522687001** Collected: 06/23/20 09:21 Received: 06/24/20 10:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Duluth							
Nitrogen, Kjeldahl, Total	**1060**	mg/kg	45.5	1	07/29/20 17:17	07/31/20 15:32	7727-37-9	M1, R1
353.2 Nitrogen, NO2/NO3	Analytical Method: EPA 353.2 Preparation Method: EPA 353.2 Pace Analytical Services - Duluth							
Nitrogen, NO2 plus NO3	**0.25**	mg/kg	0.20	1	08/06/20 11:37	08/06/20 13:38		N2
Dry Weight, Duluth	Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Duluth							
Percent Moisture	**16.9**	%	0.10	1		07/30/20 16:06		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Sample: ASB-11C (2-2.5) **Lab ID: 10522687002** Collected: 06/23/20 09:14 Received: 06/24/20 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Duluth							
Nitrogen, Kjeldahl, Total	**3850**	mg/kg	700	10	07/01/20 15:45	07/02/20 12:56	7727-37-9	M6
353.2 Nitrogen, NO2/NO3	Analytical Method: EPA 353.2 Preparation Method: EPA 353.2 Pace Analytical Services - Duluth							
Nitrogen, NO2 plus NO3	ND	mg/kg	0.28	1	06/30/20 09:36	06/30/20 12:21		N2
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**28.6**	%	0.10	1		07/06/20 09:47		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Sample: ASB-5C (0-0.5) **Lab ID: 10522687004** Collected: 06/23/20 10:17 Received: 06/24/20 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.023	1	07/23/20 10:48	07/27/20 18:20	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**11.7**	%	0.10	1		07/22/20 14:55		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Sample: ASB-5C (2-2.5) **Lab ID: 10522687005** Collected: 06/23/20 10:10 Received: 06/24/20 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.024	1	06/25/20 16:28	06/30/20 12:28	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**16.4**	%	0.10	1		07/06/20 09:47		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Sample: ASB-9C (0-0.5) **Lab ID: 10522687007** Collected: 06/23/20 11:27 Received: 06/24/20 10:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Duluth							
Nitrogen, Kjeldahl, Total	**483**	mg/kg	47.6	1	07/29/20 17:17	07/31/20 15:34	7727-37-9	
353.2 Nitrogen, NO2/NO3	Analytical Method: EPA 353.2 Preparation Method: EPA 353.2 Pace Analytical Services - Duluth							
Nitrogen, NO2 plus NO3	**0.40**	mg/kg	0.20	1	08/06/20 11:37	08/06/20 13:39		N2
Dry Weight, Duluth	Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Duluth							
Percent Moisture	**9.5**	%	0.10	1		07/30/20 16:06		
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.61**	mg/kg	0.019	1	07/23/20 10:48	07/27/20 18:22	7439-97-6	

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(612)607-1700

ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Sample: ASB-9C (2-2.5) **Lab ID: 10522687008** Collected: 06/23/20 11:20 Received: 06/24/20 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Duluth							
Nitrogen, Kjeldahl, Total	**793**	mg/kg	49.6	1	07/01/20 15:45	07/02/20 12:31	7727-37-9	
353.2 Nitrogen, NO2/NO3	Analytical Method: EPA 353.2 Preparation Method: EPA 353.2 Pace Analytical Services - Duluth							
Nitrogen, NO2 plus NO3	**0.44**	mg/kg	0.23	1	06/30/20 09:36	06/30/20 12:22		N2
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.78**	mg/kg	0.022	1	06/25/20 16:28	06/30/20 12:30	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**12.3**	%	0.10	1		07/06/20 09:47		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Sample: ASB-9C (4-4.5) **Lab ID: 10522687009** Collected: 06/23/20 11:01 Received: 06/24/20 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO Pace Analytical Services - Minneapolis							
WDRO C10-C28	**35.0**	mg/kg	9.0	1	06/24/20 15:03	06/27/20 14:59		T6
Surrogates								
n-Triacontane (S)	99	%.	50-150	1	06/24/20 15:03	06/27/20 14:59	638-68-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**11.5**	%	0.10	1		07/06/20 09:47		N2
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Acetone	ND	mg/kg	2.66	2	06/23/20 11:01	06/30/20 15:51	67-64-1	
Allyl chloride	ND	mg/kg	1.33	2	06/23/20 11:01	06/30/20 15:51	107-05-1	
Benzene	ND	mg/kg	0.0531	2	06/23/20 11:01	06/30/20 15:51	71-43-2	
Bromobenzene	ND	mg/kg	0.664	2	06/23/20 11:01	06/30/20 15:51	108-86-1	
Bromochloromethane	ND	mg/kg	0.266	2	06/23/20 11:01	06/30/20 15:51	74-97-5	
Bromodichloromethane	ND	mg/kg	0.133	2	06/23/20 11:01	06/30/20 15:51	75-27-4	
Bromoform	ND	mg/kg	1.33	2	06/23/20 11:01	06/30/20 15:51	75-25-2	
Bromomethane	ND	mg/kg	0.664	2	06/23/20 11:01	06/30/20 15:51	74-83-9	CC
n-Butylbenzene	ND	mg/kg	0.664	2	06/23/20 11:01	06/30/20 15:51	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.664	2	06/23/20 11:01	06/30/20 15:51	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.266	2	06/23/20 11:01	06/30/20 15:51	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.266	2	06/23/20 11:01	06/30/20 15:51	56-23-5	
Chlorobenzene	ND	mg/kg	0.133	2	06/23/20 11:01	06/30/20 15:51	108-90-7	
Dibromochloromethane	ND	mg/kg	0.133	2	06/23/20 11:01	06/30/20 15:51	124-48-1	
Chloroethane	ND	mg/kg	0.266	2	06/23/20 11:01	06/30/20 15:51	75-00-3	
Chloroform	ND	mg/kg	0.133	2	06/23/20 11:01	06/30/20 15:51	67-66-3	
Chloromethane	ND	mg/kg	0.664	2	06/23/20 11:01	06/30/20 15:51	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.133	2	06/23/20 11:01	06/30/20 15:51	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.266	2	06/23/20 11:01	06/30/20 15:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	1.33	2	06/23/20 11:01	06/30/20 15:51	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.133	2	06/23/20 11:01	06/30/20 15:51	106-93-4	
Dibromomethane	ND	mg/kg	0.266	2	06/23/20 11:01	06/30/20 15:51	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.266	2	06/23/20 11:01	06/30/20 15:51	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.266	2	06/23/20 11:01	06/30/20 15:51	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.266	2	06/23/20 11:01	06/30/20 15:51	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.133	2	06/23/20 11:01	06/30/20 15:51	75-71-8	
Dichlorofluoromethane	ND	mg/kg	0.133	2	06/23/20 11:01	06/30/20 15:51	75-43-4	
1,1-Dichloroethane	ND	mg/kg	0.133	2	06/23/20 11:01	06/30/20 15:51	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.133	2	06/23/20 11:01	06/30/20 15:51	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.133	2	06/23/20 11:01	06/30/20 15:51	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.133	2	06/23/20 11:01	06/30/20 15:51	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.266	2	06/23/20 11:01	06/30/20 15:51	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.266	2	06/23/20 11:01	06/30/20 15:51	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.133	2	06/23/20 11:01	06/30/20 15:51	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.266	2	06/23/20 11:01	06/30/20 15:51	142-28-9	

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Sample: ASB-9C (4-4.5) **Lab ID: 10522687009** Collected: 06/23/20 11:01 Received: 06/24/20 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
cis-1,3-Dichloropropene	ND	mg/kg	0.133	2	06/23/20 11:01	06/30/20 15:51	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.266	2	06/23/20 11:01	06/30/20 15:51	10061-02-6	
2,2-Dichloropropane	ND	mg/kg	0.133	2	06/23/20 11:01	06/30/20 15:51	594-20-7	
Diisopropyl ether	ND	mg/kg	0.0531	2	06/23/20 11:01	06/30/20 15:51	108-20-3	
Ethylbenzene	ND	mg/kg	0.133	2	06/23/20 11:01	06/30/20 15:51	100-41-4	
Diethyl ether (Ethyl ether)	ND	mg/kg	0.133	2	06/23/20 11:01	06/30/20 15:51	60-29-7	
Hexachloro-1,3-butadiene	ND	mg/kg	1.33	2	06/23/20 11:01	06/30/20 15:51	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.133	2	06/23/20 11:01	06/30/20 15:51	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.266	2	06/23/20 11:01	06/30/20 15:51	99-87-6	
2-Butanone (MEK)	ND	mg/kg	5.31	2	06/23/20 11:01	06/30/20 15:51	78-93-3	
Methylene Chloride	ND	mg/kg	1.33	2	06/23/20 11:01	06/30/20 15:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	1.33	2	06/23/20 11:01	06/30/20 15:51	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0531	2	06/23/20 11:01	06/30/20 15:51	1634-04-4	
Naphthalene	ND	mg/kg	0.664	2	06/23/20 11:01	06/30/20 15:51	91-20-3	
n-Propylbenzene	ND	mg/kg	0.266	2	06/23/20 11:01	06/30/20 15:51	103-65-1	
Styrene	ND	mg/kg	0.664	2	06/23/20 11:01	06/30/20 15:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.133	2	06/23/20 11:01	06/30/20 15:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.133	2	06/23/20 11:01	06/30/20 15:51	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.133	2	06/23/20 11:01	06/30/20 15:51	76-13-1	
Tetrachloroethene	ND	mg/kg	0.133	2	06/23/20 11:01	06/30/20 15:51	127-18-4	
Tetrahydrofuran	ND	mg/kg	0.664	2	06/23/20 11:01	06/30/20 15:51	109-99-9	
Toluene	ND	mg/kg	0.266	2	06/23/20 11:01	06/30/20 15:51	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.664	2	06/23/20 11:01	06/30/20 15:51	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.664	2	06/23/20 11:01	06/30/20 15:51	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.133	2	06/23/20 11:01	06/30/20 15:51	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.133	2	06/23/20 11:01	06/30/20 15:51	79-00-5	
Trichloroethene	ND	mg/kg	0.0531	2	06/23/20 11:01	06/30/20 15:51	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.133	2	06/23/20 11:01	06/30/20 15:51	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.664	2	06/23/20 11:01	06/30/20 15:51	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.266	2	06/23/20 11:01	06/30/20 15:51	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.266	2	06/23/20 11:01	06/30/20 15:51	108-67-8	
Vinyl chloride	ND	mg/kg	0.133	2	06/23/20 11:01	06/30/20 15:51	75-01-4	CC
Xylene (Total)	ND	mg/kg	0.345	2	06/23/20 11:01	06/30/20 15:51	1330-20-7	
Surrogates								
Toluene-d8 (S)	107	%	75.0-131	2	06/23/20 11:01	06/30/20 15:51	2037-26-5	
4-Bromofluorobenzene (S)	111	%	67.0-138	2	06/23/20 11:01	06/30/20 15:51	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70.0-130	2	06/23/20 11:01	06/30/20 15:51	17060-07-0	
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet							
Total Solids	**94.1**	%		1	07/01/20 01:36	07/01/20 01:51		

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Sample: ASB-12C (0-0.5) **Lab ID: 10522687010** Collected: 06/23/20 12:30 Received: 06/24/20 10:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Duluth							
Nitrogen, Kjeldahl, Total	**197**	mg/kg	47.6	1	07/29/20 17:17	07/31/20 15:35	7727-37-9	
353.2 Nitrogen, NO2/NO3	Analytical Method: EPA 353.2 Preparation Method: EPA 353.2 Pace Analytical Services - Duluth							
Nitrogen, NO2 plus NO3	**0.25**	mg/kg	0.20	1	08/06/20 11:37	08/06/20 13:40		N2
Dry Weight, Duluth	Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Duluth							
Percent Moisture	**10.7**	%	0.10	1		07/30/20 16:06		

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Sample: ASB-12C (2-2.5) **Lab ID: 10522687011** Collected: 06/23/20 12:05 Received: 06/24/20 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Duluth							
Nitrogen, Kjeldahl, Total	**638**	mg/kg	50.8	1	07/01/20 15:45	07/02/20 12:32	7727-37-9	
353.2 Nitrogen, NO2/NO3	Analytical Method: EPA 353.2 Preparation Method: EPA 353.2 Pace Analytical Services - Duluth							
Nitrogen, NO2 plus NO3	ND	mg/kg	0.22	1	06/30/20 09:36	06/30/20 12:24		N2
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**10.4**	%	0.10	1		07/06/20 12:06		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Sample: TT-4 (7-8) **Lab ID: 10522687013** Collected: 06/23/20 14:00 Received: 06/24/20 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**4.3**	mg/kg	1.7	1	06/25/20 14:47	06/28/20 13:15	7440-38-2	
Barium	**213**	mg/kg	0.87	1	06/25/20 14:47	06/28/20 13:15	7440-39-3	
Cadmium	**2.0**	mg/kg	0.26	1	06/25/20 14:47	06/28/20 13:15	7440-43-9	
Chromium	**21.8**	mg/kg	0.87	1	06/25/20 14:47	06/28/20 13:15	7440-47-3	
Lead	**622**	mg/kg	0.87	1	06/25/20 14:47	06/28/20 13:15	7439-92-1	
Selenium	ND	mg/kg	1.7	1	06/25/20 14:47	06/28/20 13:15	7782-49-2	
Silver	ND	mg/kg	0.87	1	06/25/20 14:47	06/28/20 13:15	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**1.2**	mg/kg	0.033	1	06/25/20 16:28	06/30/20 12:33	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**44.8**	%	0.10	1		07/06/20 12:07		N2
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3550C Pace Analytical Services - Minneapolis							
Acenaphthene	ND	ug/kg	180	10	06/24/20 14:54	06/25/20 18:56	83-32-9	
Acenaphthylene	ND	ug/kg	180	10	06/24/20 14:54	06/25/20 18:56	208-96-8	
Anthracene	ND	ug/kg	180	10	06/24/20 14:54	06/25/20 18:56	120-12-7	
Benzo(a)anthracene	ND	ug/kg	180	10	06/24/20 14:54	06/25/20 18:56	56-55-3	
Benzo(a)pyrene	ND	ug/kg	180	10	06/24/20 14:54	06/25/20 18:56	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	180	10	06/24/20 14:54	06/25/20 18:56	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	180	10	06/24/20 14:54	06/25/20 18:56	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	180	10	06/24/20 14:54	06/25/20 18:56	207-08-9	
Chrysene	ND	ug/kg	180	10	06/24/20 14:54	06/25/20 18:56	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	180	10	06/24/20 14:54	06/25/20 18:56	53-70-3	
Fluoranthene	**245**	ug/kg	180	10	06/24/20 14:54	06/25/20 18:56	206-44-0	
Fluorene	ND	ug/kg	180	10	06/24/20 14:54	06/25/20 18:56	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	180	10	06/24/20 14:54	06/25/20 18:56	193-39-5	
Naphthalene	ND	ug/kg	180	10	06/24/20 14:54	06/25/20 18:56	91-20-3	
Phenanthrene	ND	ug/kg	180	10	06/24/20 14:54	06/25/20 18:56	85-01-8	
Pyrene	ND	ug/kg	180	10	06/24/20 14:54	06/25/20 18:56	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	ND	ug/kg	180	10	06/24/20 14:54	06/25/20 18:56		N2
Surrogates								
2-Fluorobiphenyl (S)	70	%.	30-138	10	06/24/20 14:54	06/25/20 18:56	321-60-8	
p-Terphenyl-d14 (S)	0	%.	30-143	10	06/24/20 14:54	06/25/20 18:56	1718-51-0	D3,S4
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Acetone	ND	mg/kg	4.88	2	06/23/20 11:01	06/30/20 16:11	67-64-1	R1
Allyl chloride	ND	mg/kg	2.44	2	06/23/20 11:01	06/30/20 16:11	107-05-1	
Benzene	ND	mg/kg	0.0977	2	06/23/20 11:01	06/30/20 16:11	71-43-2	

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Sample: TT-4 (7-8) **Lab ID: 10522687013** Collected: 06/23/20 14:00 Received: 06/24/20 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Bromobenzene	ND	mg/kg	1.22	2	06/23/20 11:01	06/30/20 16:11	108-86-1	
Bromochloromethane	ND	mg/kg	0.488	2	06/23/20 11:01	06/30/20 16:11	74-97-5	
Bromodichloromethane	ND	mg/kg	0.244	2	06/23/20 11:01	06/30/20 16:11	75-27-4	
Bromoform	ND	mg/kg	2.44	2	06/23/20 11:01	06/30/20 16:11	75-25-2	
Bromomethane	ND	mg/kg	1.22	2	06/23/20 11:01	06/30/20 16:11	74-83-9	CC
n-Butylbenzene	ND	mg/kg	1.22	2	06/23/20 11:01	06/30/20 16:11	104-51-8	
sec-Butylbenzene	ND	mg/kg	1.22	2	06/23/20 11:01	06/30/20 16:11	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.488	2	06/23/20 11:01	06/30/20 16:11	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.488	2	06/23/20 11:01	06/30/20 16:11	56-23-5	
Chlorobenzene	ND	mg/kg	0.244	2	06/23/20 11:01	06/30/20 16:11	108-90-7	
Dibromochloromethane	ND	mg/kg	0.244	2	06/23/20 11:01	06/30/20 16:11	124-48-1	
Chloroethane	ND	mg/kg	0.488	2	06/23/20 11:01	06/30/20 16:11	75-00-3	
Chloroform	ND	mg/kg	0.244	2	06/23/20 11:01	06/30/20 16:11	67-66-3	
Chloromethane	ND	mg/kg	1.22	2	06/23/20 11:01	06/30/20 16:11	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.244	2	06/23/20 11:01	06/30/20 16:11	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.488	2	06/23/20 11:01	06/30/20 16:11	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	2.44	2	06/23/20 11:01	06/30/20 16:11	96-12-8	R1
1,2-Dibromoethane (EDB)	ND	mg/kg	0.244	2	06/23/20 11:01	06/30/20 16:11	106-93-4	
Dibromomethane	ND	mg/kg	0.488	2	06/23/20 11:01	06/30/20 16:11	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.488	2	06/23/20 11:01	06/30/20 16:11	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.488	2	06/23/20 11:01	06/30/20 16:11	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.488	2	06/23/20 11:01	06/30/20 16:11	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.244	2	06/23/20 11:01	06/30/20 16:11	75-71-8	
Dichlorofluoromethane	ND	mg/kg	0.244	2	06/23/20 11:01	06/30/20 16:11	75-43-4	
1,1-Dichloroethane	ND	mg/kg	0.244	2	06/23/20 11:01	06/30/20 16:11	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.244	2	06/23/20 11:01	06/30/20 16:11	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.244	2	06/23/20 11:01	06/30/20 16:11	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.244	2	06/23/20 11:01	06/30/20 16:11	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.488	2	06/23/20 11:01	06/30/20 16:11	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.488	2	06/23/20 11:01	06/30/20 16:11	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.244	2	06/23/20 11:01	06/30/20 16:11	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.488	2	06/23/20 11:01	06/30/20 16:11	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.244	2	06/23/20 11:01	06/30/20 16:11	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.488	2	06/23/20 11:01	06/30/20 16:11	10061-02-6	
2,2-Dichloropropane	ND	mg/kg	0.244	2	06/23/20 11:01	06/30/20 16:11	594-20-7	
Diisopropyl ether	ND	mg/kg	0.0977	2	06/23/20 11:01	06/30/20 16:11	108-20-3	
Ethylbenzene	ND	mg/kg	0.244	2	06/23/20 11:01	06/30/20 16:11	100-41-4	
Diethyl ether (Ethyl ether)	ND	mg/kg	0.244	2	06/23/20 11:01	06/30/20 16:11	60-29-7	
Hexachloro-1,3-butadiene	ND	mg/kg	2.44	2	06/23/20 11:01	06/30/20 16:11	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.244	2	06/23/20 11:01	06/30/20 16:11	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.488	2	06/23/20 11:01	06/30/20 16:11	99-87-6	
2-Butanone (MEK)	ND	mg/kg	9.77	2	06/23/20 11:01	06/30/20 16:11	78-93-3	
Methylene Chloride	ND	mg/kg	2.44	2	06/23/20 11:01	06/30/20 16:11	75-09-2	R1
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	2.44	2	06/23/20 11:01	06/30/20 16:11	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0977	2	06/23/20 11:01	06/30/20 16:11	1634-04-4	

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Sample: TT-4 (7-8) **Lab ID: 10522687013** Collected: 06/23/20 14:00 Received: 06/24/20 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Naphthalene	ND	mg/kg	1.22	2	06/23/20 11:01	06/30/20 16:11	91-20-3	R1
n-Propylbenzene	ND	mg/kg	0.488	2	06/23/20 11:01	06/30/20 16:11	103-65-1	
Styrene	ND	mg/kg	1.22	2	06/23/20 11:01	06/30/20 16:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.244	2	06/23/20 11:01	06/30/20 16:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.244	2	06/23/20 11:01	06/30/20 16:11	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.244	2	06/23/20 11:01	06/30/20 16:11	76-13-1	
Tetrachloroethene	ND	mg/kg	0.244	2	06/23/20 11:01	06/30/20 16:11	127-18-4	
Tetrahydrofuran	ND	mg/kg	1.22	2	06/23/20 11:01	06/30/20 16:11	109-99-9	R1
Toluene	ND	mg/kg	0.488	2	06/23/20 11:01	06/30/20 16:11	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	1.22	2	06/23/20 11:01	06/30/20 16:11	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	1.22	2	06/23/20 11:01	06/30/20 16:11	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.244	2	06/23/20 11:01	06/30/20 16:11	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.244	2	06/23/20 11:01	06/30/20 16:11	79-00-5	
Trichloroethene	ND	mg/kg	0.0977	2	06/23/20 11:01	06/30/20 16:11	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.244	2	06/23/20 11:01	06/30/20 16:11	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	1.22	2	06/23/20 11:01	06/30/20 16:11	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.488	2	06/23/20 11:01	06/30/20 16:11	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.488	2	06/23/20 11:01	06/30/20 16:11	108-67-8	
Vinyl chloride	ND	mg/kg	0.244	2	06/23/20 11:01	06/30/20 16:11	75-01-4	CC
Xylene (Total)	ND	mg/kg	0.635	2	06/23/20 11:01	06/30/20 16:11	1330-20-7	
Surrogates								
Toluene-d8 (S)	108	%	75.0-131	2	06/23/20 11:01	06/30/20 16:11	2037-26-5	
4-Bromofluorobenzene (S)	101	%	67.0-138	2	06/23/20 11:01	06/30/20 16:11	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70.0-130	2	06/23/20 11:01	06/30/20 16:11	17060-07-0	
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet							
Total Solids	**51.2**	%		1	07/01/20 01:36	07/01/20 01:51		

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Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Sample: TT-5 (2-3) **Lab ID: 10522687014** Collected: 06/23/20 15:14 Received: 06/24/20 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**3.4**	mg/kg	1.1	1	06/25/20 14:47	06/28/20 13:24	7440-38-2	
Barium	**43.6**	mg/kg	0.55	1	06/25/20 14:47	06/28/20 13:24	7440-39-3	
Cadmium	**0.23**	mg/kg	0.16	1	06/25/20 14:47	06/28/20 13:24	7440-43-9	
Chromium	**13.1**	mg/kg	0.55	1	06/25/20 14:47	06/28/20 13:24	7440-47-3	
Lead	**27.4**	mg/kg	0.55	1	06/25/20 14:47	06/28/20 13:24	7439-92-1	
Selenium	ND	mg/kg	1.1	1	06/25/20 14:47	06/28/20 13:24	7782-49-2	
Silver	ND	mg/kg	0.55	1	06/25/20 14:47	06/28/20 13:24	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**1.2**	mg/kg	0.045	2	06/25/20 16:28	06/30/20 12:55	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**11.2**	%	0.10	1		07/06/20 12:07		N2
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3550C Pace Analytical Services - Minneapolis							
Acenaphthene	ND	ug/kg	11.3	1	06/24/20 14:54	06/25/20 19:16	83-32-9	
Acenaphthylene	ND	ug/kg	11.3	1	06/24/20 14:54	06/25/20 19:16	208-96-8	
Anthracene	ND	ug/kg	11.3	1	06/24/20 14:54	06/25/20 19:16	120-12-7	
Benzo(a)anthracene	ND	ug/kg	11.3	1	06/24/20 14:54	06/25/20 19:16	56-55-3	
Benzo(a)pyrene	ND	ug/kg	11.3	1	06/24/20 14:54	06/25/20 19:16	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	11.3	1	06/24/20 14:54	06/25/20 19:16	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	11.3	1	06/24/20 14:54	06/25/20 19:16	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	11.3	1	06/24/20 14:54	06/25/20 19:16	207-08-9	
Chrysene	ND	ug/kg	11.3	1	06/24/20 14:54	06/25/20 19:16	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	11.3	1	06/24/20 14:54	06/25/20 19:16	53-70-3	
Fluoranthene	ND	ug/kg	11.3	1	06/24/20 14:54	06/25/20 19:16	206-44-0	
Fluorene	ND	ug/kg	11.3	1	06/24/20 14:54	06/25/20 19:16	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	11.3	1	06/24/20 14:54	06/25/20 19:16	193-39-5	
Naphthalene	ND	ug/kg	11.3	1	06/24/20 14:54	06/25/20 19:16	91-20-3	
Phenanthrene	ND	ug/kg	11.3	1	06/24/20 14:54	06/25/20 19:16	85-01-8	
Pyrene	ND	ug/kg	11.3	1	06/24/20 14:54	06/25/20 19:16	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	ND	ug/kg	11.3	1	06/24/20 14:54	06/25/20 19:16		N2
Surrogates								
2-Fluorobiphenyl (S)	75	%.	30-138	1	06/24/20 14:54	06/25/20 19:16	321-60-8	
p-Terphenyl-d14 (S)	90	%.	30-143	1	06/24/20 14:54	06/25/20 19:16	1718-51-0	
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Acetone	ND	mg/kg	2.87	2	06/23/20 11:01	06/30/20 16:30	67-64-1	
Allyl chloride	ND	mg/kg	1.44	2	06/23/20 11:01	06/30/20 16:30	107-05-1	
Benzene	ND	mg/kg	0.0574	2	06/23/20 11:01	06/30/20 16:30	71-43-2	

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Sample: TT-5 (2-3) **Lab ID: 10522687014** Collected: 06/23/20 15:14 Received: 06/24/20 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Bromobenzene	ND	mg/kg	0.718	2	06/23/20 11:01	06/30/20 16:30	108-86-1	
Bromochloromethane	ND	mg/kg	0.287	2	06/23/20 11:01	06/30/20 16:30	74-97-5	
Bromodichloromethane	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 16:30	75-27-4	
Bromoform	ND	mg/kg	1.44	2	06/23/20 11:01	06/30/20 16:30	75-25-2	
Bromomethane	ND	mg/kg	0.718	2	06/23/20 11:01	06/30/20 16:30	74-83-9	CC
n-Butylbenzene	ND	mg/kg	0.718	2	06/23/20 11:01	06/30/20 16:30	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.718	2	06/23/20 11:01	06/30/20 16:30	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.287	2	06/23/20 11:01	06/30/20 16:30	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.287	2	06/23/20 11:01	06/30/20 16:30	56-23-5	
Chlorobenzene	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 16:30	108-90-7	
Dibromochloromethane	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 16:30	124-48-1	
Chloroethane	ND	mg/kg	0.287	2	06/23/20 11:01	06/30/20 16:30	75-00-3	
Chloroform	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 16:30	67-66-3	
Chloromethane	ND	mg/kg	0.718	2	06/23/20 11:01	06/30/20 16:30	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 16:30	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.287	2	06/23/20 11:01	06/30/20 16:30	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	1.44	2	06/23/20 11:01	06/30/20 16:30	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 16:30	106-93-4	
Dibromomethane	ND	mg/kg	0.287	2	06/23/20 11:01	06/30/20 16:30	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.287	2	06/23/20 11:01	06/30/20 16:30	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.287	2	06/23/20 11:01	06/30/20 16:30	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.287	2	06/23/20 11:01	06/30/20 16:30	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 16:30	75-71-8	
Dichlorofluoromethane	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 16:30	75-43-4	
1,1-Dichloroethane	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 16:30	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 16:30	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 16:30	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 16:30	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.287	2	06/23/20 11:01	06/30/20 16:30	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.287	2	06/23/20 11:01	06/30/20 16:30	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 16:30	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.287	2	06/23/20 11:01	06/30/20 16:30	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 16:30	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.287	2	06/23/20 11:01	06/30/20 16:30	10061-02-6	
2,2-Dichloropropane	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 16:30	594-20-7	
Diisopropyl ether	ND	mg/kg	0.0574	2	06/23/20 11:01	06/30/20 16:30	108-20-3	
Ethylbenzene	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 16:30	100-41-4	
Diethyl ether (Ethyl ether)	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 16:30	60-29-7	
Hexachloro-1,3-butadiene	ND	mg/kg	1.44	2	06/23/20 11:01	06/30/20 16:30	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 16:30	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.287	2	06/23/20 11:01	06/30/20 16:30	99-87-6	
2-Butanone (MEK)	ND	mg/kg	5.74	2	06/23/20 11:01	06/30/20 16:30	78-93-3	
Methylene Chloride	ND	mg/kg	1.44	2	06/23/20 11:01	06/30/20 16:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	1.44	2	06/23/20 11:01	06/30/20 16:30	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0574	2	06/23/20 11:01	06/30/20 16:30	1634-04-4	

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Sample: TT-5 (2-3) **Lab ID: 10522687014** Collected: 06/23/20 15:14 Received: 06/24/20 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Naphthalene	ND	mg/kg	0.718	2	06/23/20 11:01	06/30/20 16:30	91-20-3	
n-Propylbenzene	ND	mg/kg	0.287	2	06/23/20 11:01	06/30/20 16:30	103-65-1	
Styrene	ND	mg/kg	0.718	2	06/23/20 11:01	06/30/20 16:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 16:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 16:30	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 16:30	76-13-1	
Tetrachloroethene	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 16:30	127-18-4	
Tetrahydrofuran	ND	mg/kg	0.718	2	06/23/20 11:01	06/30/20 16:30	109-99-9	
Toluene	ND	mg/kg	0.287	2	06/23/20 11:01	06/30/20 16:30	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.718	2	06/23/20 11:01	06/30/20 16:30	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.718	2	06/23/20 11:01	06/30/20 16:30	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 16:30	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 16:30	79-00-5	
Trichloroethene	ND	mg/kg	0.0574	2	06/23/20 11:01	06/30/20 16:30	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 16:30	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.718	2	06/23/20 11:01	06/30/20 16:30	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.287	2	06/23/20 11:01	06/30/20 16:30	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.287	2	06/23/20 11:01	06/30/20 16:30	108-67-8	
Vinyl chloride	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 16:30	75-01-4	CC
Xylene (Total)	ND	mg/kg	0.373	2	06/23/20 11:01	06/30/20 16:30	1330-20-7	
Surrogates								
Toluene-d8 (S)	107	%	75.0-131	2	06/23/20 11:01	06/30/20 16:30	2037-26-5	
4-Bromofluorobenzene (S)	101	%	67.0-138	2	06/23/20 11:01	06/30/20 16:30	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70.0-130	2	06/23/20 11:01	06/30/20 16:30	17060-07-0	
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet							
Total Solids	**87.1**	%		1	07/01/20 01:36	07/01/20 01:51		

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Sample: TT-6 (8-9) **Lab ID: 10522687015** Collected: 06/23/20 00:00 Received: 06/24/20 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**2.9**	mg/kg	1.1	1	06/25/20 14:47	06/28/20 13:27	7440-38-2	
Barium	**67.4**	mg/kg	0.56	1	06/25/20 14:47	06/28/20 13:27	7440-39-3	
Cadmium	**0.73**	mg/kg	0.17	1	06/25/20 14:47	06/28/20 13:27	7440-43-9	
Chromium	**32.9**	mg/kg	0.56	1	06/25/20 14:47	06/28/20 13:27	7440-47-3	
Lead	**13.1**	mg/kg	0.56	1	06/25/20 14:47	06/28/20 13:27	7439-92-1	
Selenium	ND	mg/kg	1.1	1	06/25/20 14:47	06/28/20 13:27	7782-49-2	
Silver	ND	mg/kg	0.56	1	06/25/20 14:47	06/28/20 13:27	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**4.6**	mg/kg	0.20	10	06/25/20 16:28	06/30/20 13:06	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**13.2**	%	0.10	1		07/06/20 12:07		N2
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3550C Pace Analytical Services - Minneapolis							
Acenaphthene	ND	ug/kg	11.5	1	06/24/20 14:54	06/25/20 19:37	83-32-9	
Acenaphthylene	ND	ug/kg	11.5	1	06/24/20 14:54	06/25/20 19:37	208-96-8	
Anthracene	ND	ug/kg	11.5	1	06/24/20 14:54	06/25/20 19:37	120-12-7	
Benzo(a)anthracene	ND	ug/kg	11.5	1	06/24/20 14:54	06/25/20 19:37	56-55-3	
Benzo(a)pyrene	ND	ug/kg	11.5	1	06/24/20 14:54	06/25/20 19:37	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	11.5	1	06/24/20 14:54	06/25/20 19:37	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	11.5	1	06/24/20 14:54	06/25/20 19:37	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	11.5	1	06/24/20 14:54	06/25/20 19:37	207-08-9	
Chrysene	ND	ug/kg	11.5	1	06/24/20 14:54	06/25/20 19:37	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	11.5	1	06/24/20 14:54	06/25/20 19:37	53-70-3	
Fluoranthene	**12.3**	ug/kg	11.5	1	06/24/20 14:54	06/25/20 19:37	206-44-0	
Fluorene	ND	ug/kg	11.5	1	06/24/20 14:54	06/25/20 19:37	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	11.5	1	06/24/20 14:54	06/25/20 19:37	193-39-5	
Naphthalene	ND	ug/kg	11.5	1	06/24/20 14:54	06/25/20 19:37	91-20-3	
Phenanthrene	ND	ug/kg	11.5	1	06/24/20 14:54	06/25/20 19:37	85-01-8	
Pyrene	**11.8**	ug/kg	11.5	1	06/24/20 14:54	06/25/20 19:37	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	ND	ug/kg	11.5	1	06/24/20 14:54	06/25/20 19:37		N2
Surrogates								
2-Fluorobiphenyl (S)	62	%.	30-138	1	06/24/20 14:54	06/25/20 19:37	321-60-8	
p-Terphenyl-d14 (S)	79	%.	30-143	1	06/24/20 14:54	06/25/20 19:37	1718-51-0	
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Acetone	ND	mg/kg	2.84	2	06/23/20 11:01	06/30/20 16:49	67-64-1	
Allyl chloride	ND	mg/kg	1.42	2	06/23/20 11:01	06/30/20 16:49	107-05-1	
Benzene	ND	mg/kg	0.0568	2	06/23/20 11:01	06/30/20 16:49	71-43-2	

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Sample: TT-6 (8-9) **Lab ID: 10522687015** Collected: 06/23/20 00:00 Received: 06/24/20 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Bromobenzene	ND	mg/kg	0.710	2	06/23/20 11:01	06/30/20 16:49	108-86-1	
Bromochloromethane	ND	mg/kg	0.284	2	06/23/20 11:01	06/30/20 16:49	74-97-5	
Bromodichloromethane	ND	mg/kg	0.142	2	06/23/20 11:01	06/30/20 16:49	75-27-4	
Bromoform	ND	mg/kg	1.42	2	06/23/20 11:01	06/30/20 16:49	75-25-2	
Bromomethane	ND	mg/kg	0.710	2	06/23/20 11:01	06/30/20 16:49	74-83-9	CC
n-Butylbenzene	ND	mg/kg	0.710	2	06/23/20 11:01	06/30/20 16:49	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.710	2	06/23/20 11:01	06/30/20 16:49	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.284	2	06/23/20 11:01	06/30/20 16:49	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.284	2	06/23/20 11:01	06/30/20 16:49	56-23-5	
Chlorobenzene	ND	mg/kg	0.142	2	06/23/20 11:01	06/30/20 16:49	108-90-7	
Dibromochloromethane	ND	mg/kg	0.142	2	06/23/20 11:01	06/30/20 16:49	124-48-1	
Chloroethane	ND	mg/kg	0.284	2	06/23/20 11:01	06/30/20 16:49	75-00-3	
Chloroform	ND	mg/kg	0.142	2	06/23/20 11:01	06/30/20 16:49	67-66-3	
Chloromethane	ND	mg/kg	0.710	2	06/23/20 11:01	06/30/20 16:49	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.142	2	06/23/20 11:01	06/30/20 16:49	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.284	2	06/23/20 11:01	06/30/20 16:49	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	1.42	2	06/23/20 11:01	06/30/20 16:49	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.142	2	06/23/20 11:01	06/30/20 16:49	106-93-4	
Dibromomethane	ND	mg/kg	0.284	2	06/23/20 11:01	06/30/20 16:49	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.284	2	06/23/20 11:01	06/30/20 16:49	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.284	2	06/23/20 11:01	06/30/20 16:49	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.284	2	06/23/20 11:01	06/30/20 16:49	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.142	2	06/23/20 11:01	06/30/20 16:49	75-71-8	
Dichlorofluoromethane	ND	mg/kg	0.142	2	06/23/20 11:01	06/30/20 16:49	75-43-4	
1,1-Dichloroethane	ND	mg/kg	0.142	2	06/23/20 11:01	06/30/20 16:49	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.142	2	06/23/20 11:01	06/30/20 16:49	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.142	2	06/23/20 11:01	06/30/20 16:49	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.142	2	06/23/20 11:01	06/30/20 16:49	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.284	2	06/23/20 11:01	06/30/20 16:49	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.284	2	06/23/20 11:01	06/30/20 16:49	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.142	2	06/23/20 11:01	06/30/20 16:49	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.284	2	06/23/20 11:01	06/30/20 16:49	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.142	2	06/23/20 11:01	06/30/20 16:49	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.284	2	06/23/20 11:01	06/30/20 16:49	10061-02-6	
2,2-Dichloropropane	ND	mg/kg	0.142	2	06/23/20 11:01	06/30/20 16:49	594-20-7	
Diisopropyl ether	ND	mg/kg	0.0568	2	06/23/20 11:01	06/30/20 16:49	108-20-3	
Ethylbenzene	ND	mg/kg	0.142	2	06/23/20 11:01	06/30/20 16:49	100-41-4	
Diethyl ether (Ethyl ether)	ND	mg/kg	0.142	2	06/23/20 11:01	06/30/20 16:49	60-29-7	
Hexachloro-1,3-butadiene	ND	mg/kg	1.42	2	06/23/20 11:01	06/30/20 16:49	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.142	2	06/23/20 11:01	06/30/20 16:49	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.284	2	06/23/20 11:01	06/30/20 16:49	99-87-6	
2-Butanone (MEK)	ND	mg/kg	5.68	2	06/23/20 11:01	06/30/20 16:49	78-93-3	
Methylene Chloride	ND	mg/kg	1.42	2	06/23/20 11:01	06/30/20 16:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	1.42	2	06/23/20 11:01	06/30/20 16:49	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0568	2	06/23/20 11:01	06/30/20 16:49	1634-04-4	

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(612)607-1700

ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Sample: TT-6 (8-9) **Lab ID: 10522687015** Collected: 06/23/20 00:00 Received: 06/24/20 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Naphthalene	ND	mg/kg	0.710	2	06/23/20 11:01	06/30/20 16:49	91-20-3	
n-Propylbenzene	ND	mg/kg	0.284	2	06/23/20 11:01	06/30/20 16:49	103-65-1	
Styrene	ND	mg/kg	0.710	2	06/23/20 11:01	06/30/20 16:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.142	2	06/23/20 11:01	06/30/20 16:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.142	2	06/23/20 11:01	06/30/20 16:49	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.142	2	06/23/20 11:01	06/30/20 16:49	76-13-1	
Tetrachloroethene	ND	mg/kg	0.142	2	06/23/20 11:01	06/30/20 16:49	127-18-4	
Tetrahydrofuran	ND	mg/kg	0.710	2	06/23/20 11:01	06/30/20 16:49	109-99-9	
Toluene	ND	mg/kg	0.284	2	06/23/20 11:01	06/30/20 16:49	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.710	2	06/23/20 11:01	06/30/20 16:49	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.710	2	06/23/20 11:01	06/30/20 16:49	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.142	2	06/23/20 11:01	06/30/20 16:49	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.142	2	06/23/20 11:01	06/30/20 16:49	79-00-5	
Trichloroethene	ND	mg/kg	0.0568	2	06/23/20 11:01	06/30/20 16:49	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.142	2	06/23/20 11:01	06/30/20 16:49	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.710	2	06/23/20 11:01	06/30/20 16:49	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.284	2	06/23/20 11:01	06/30/20 16:49	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.284	2	06/23/20 11:01	06/30/20 16:49	108-67-8	
Vinyl chloride	ND	mg/kg	0.142	2	06/23/20 11:01	06/30/20 16:49	75-01-4	CC
Xylene (Total)	ND	mg/kg	0.369	2	06/23/20 11:01	06/30/20 16:49	1330-20-7	
Surrogates								
Toluene-d8 (S)	108	%	75.0-131	2	06/23/20 11:01	06/30/20 16:49	2037-26-5	
4-Bromofluorobenzene (S)	100	%	67.0-138	2	06/23/20 11:01	06/30/20 16:49	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70.0-130	2	06/23/20 11:01	06/30/20 16:49	17060-07-0	
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet							
Total Solids	**88.0**	%		1	07/01/20 01:36	07/01/20 01:51		

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Sample: DUP-19-06232020 **Lab ID: 10522687016** Collected: 06/23/20 00:00 Received: 06/24/20 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**3.8**	mg/kg	1.1	1	06/25/20 14:47	06/28/20 13:30	7440-38-2	
Barium	**104**	mg/kg	0.54	1	06/25/20 14:47	06/28/20 13:30	7440-39-3	
Cadmium	**0.71**	mg/kg	0.16	1	06/25/20 14:47	06/28/20 13:30	7440-43-9	
Chromium	**25.8**	mg/kg	0.54	1	06/25/20 14:47	06/28/20 13:30	7440-47-3	
Lead	**15.7**	mg/kg	0.54	1	06/25/20 14:47	06/28/20 13:30	7439-92-1	
Selenium	ND	mg/kg	1.1	1	06/25/20 14:47	06/28/20 13:30	7782-49-2	
Silver	ND	mg/kg	0.54	1	06/25/20 14:47	06/28/20 13:30	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**7.2**	mg/kg	0.23	10	06/25/20 16:28	06/30/20 13:09	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**12.8**	%	0.10	1		07/06/20 12:07		N2
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3550C Pace Analytical Services - Minneapolis							
Acenaphthene	ND	ug/kg	11.4	1	06/24/20 14:54	06/25/20 19:58	83-32-9	
Acenaphthylene	ND	ug/kg	11.4	1	06/24/20 14:54	06/25/20 19:58	208-96-8	
Anthracene	ND	ug/kg	11.4	1	06/24/20 14:54	06/25/20 19:58	120-12-7	
Benzo(a)anthracene	ND	ug/kg	11.4	1	06/24/20 14:54	06/25/20 19:58	56-55-3	
Benzo(a)pyrene	ND	ug/kg	11.4	1	06/24/20 14:54	06/25/20 19:58	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	11.4	1	06/24/20 14:54	06/25/20 19:58	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	11.4	1	06/24/20 14:54	06/25/20 19:58	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	11.4	1	06/24/20 14:54	06/25/20 19:58	207-08-9	
Chrysene	ND	ug/kg	11.4	1	06/24/20 14:54	06/25/20 19:58	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	11.4	1	06/24/20 14:54	06/25/20 19:58	53-70-3	
Fluoranthene	ND	ug/kg	11.4	1	06/24/20 14:54	06/25/20 19:58	206-44-0	
Fluorene	ND	ug/kg	11.4	1	06/24/20 14:54	06/25/20 19:58	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	11.4	1	06/24/20 14:54	06/25/20 19:58	193-39-5	
Naphthalene	ND	ug/kg	11.4	1	06/24/20 14:54	06/25/20 19:58	91-20-3	
Phenanthrene	ND	ug/kg	11.4	1	06/24/20 14:54	06/25/20 19:58	85-01-8	
Pyrene	ND	ug/kg	11.4	1	06/24/20 14:54	06/25/20 19:58	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	ND	ug/kg	11.4	1	06/24/20 14:54	06/25/20 19:58		N2
Surrogates								
2-Fluorobiphenyl (S)	74	%.	30-138	1	06/24/20 14:54	06/25/20 19:58	321-60-8	
p-Terphenyl-d14 (S)	96	%.	30-143	1	06/24/20 14:54	06/25/20 19:58	1718-51-0	
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Acetone	ND	mg/kg	2.88	2	06/23/20 11:01	06/30/20 17:08	67-64-1	
Allyl chloride	ND	mg/kg	1.44	2	06/23/20 11:01	06/30/20 17:08	107-05-1	
Benzene	ND	mg/kg	0.0577	2	06/23/20 11:01	06/30/20 17:08	71-43-2	

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Sample: DUP-19-06232020 **Lab ID: 10522687016** Collected: 06/23/20 00:00 Received: 06/24/20 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Bromobenzene	ND	mg/kg	0.721	2	06/23/20 11:01	06/30/20 17:08	108-86-1	
Bromochloromethane	ND	mg/kg	0.288	2	06/23/20 11:01	06/30/20 17:08	74-97-5	
Bromodichloromethane	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 17:08	75-27-4	
Bromoform	ND	mg/kg	1.44	2	06/23/20 11:01	06/30/20 17:08	75-25-2	
Bromomethane	ND	mg/kg	0.721	2	06/23/20 11:01	06/30/20 17:08	74-83-9	CC
n-Butylbenzene	ND	mg/kg	0.721	2	06/23/20 11:01	06/30/20 17:08	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.721	2	06/23/20 11:01	06/30/20 17:08	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.288	2	06/23/20 11:01	06/30/20 17:08	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.288	2	06/23/20 11:01	06/30/20 17:08	56-23-5	
Chlorobenzene	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 17:08	108-90-7	
Dibromochloromethane	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 17:08	124-48-1	
Chloroethane	ND	mg/kg	0.288	2	06/23/20 11:01	06/30/20 17:08	75-00-3	
Chloroform	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 17:08	67-66-3	
Chloromethane	ND	mg/kg	0.721	2	06/23/20 11:01	06/30/20 17:08	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 17:08	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.288	2	06/23/20 11:01	06/30/20 17:08	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	1.44	2	06/23/20 11:01	06/30/20 17:08	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 17:08	106-93-4	
Dibromomethane	ND	mg/kg	0.288	2	06/23/20 11:01	06/30/20 17:08	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.288	2	06/23/20 11:01	06/30/20 17:08	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.288	2	06/23/20 11:01	06/30/20 17:08	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.288	2	06/23/20 11:01	06/30/20 17:08	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 17:08	75-71-8	
Dichlorofluoromethane	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 17:08	75-43-4	
1,1-Dichloroethane	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 17:08	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 17:08	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 17:08	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 17:08	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.288	2	06/23/20 11:01	06/30/20 17:08	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.288	2	06/23/20 11:01	06/30/20 17:08	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 17:08	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.288	2	06/23/20 11:01	06/30/20 17:08	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 17:08	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.288	2	06/23/20 11:01	06/30/20 17:08	10061-02-6	
2,2-Dichloropropane	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 17:08	594-20-7	
Diisopropyl ether	ND	mg/kg	0.0577	2	06/23/20 11:01	06/30/20 17:08	108-20-3	
Ethylbenzene	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 17:08	100-41-4	
Diethyl ether (Ethyl ether)	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 17:08	60-29-7	
Hexachloro-1,3-butadiene	ND	mg/kg	1.44	2	06/23/20 11:01	06/30/20 17:08	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 17:08	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.288	2	06/23/20 11:01	06/30/20 17:08	99-87-6	
2-Butanone (MEK)	ND	mg/kg	5.77	2	06/23/20 11:01	06/30/20 17:08	78-93-3	
Methylene Chloride	ND	mg/kg	1.44	2	06/23/20 11:01	06/30/20 17:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	1.44	2	06/23/20 11:01	06/30/20 17:08	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0577	2	06/23/20 11:01	06/30/20 17:08	1634-04-4	

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Sample: DUP-19-06232020 **Lab ID: 10522687016** Collected: 06/23/20 00:00 Received: 06/24/20 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Naphthalene	ND	mg/kg	0.721	2	06/23/20 11:01	06/30/20 17:08	91-20-3	
n-Propylbenzene	ND	mg/kg	0.288	2	06/23/20 11:01	06/30/20 17:08	103-65-1	
Styrene	ND	mg/kg	0.721	2	06/23/20 11:01	06/30/20 17:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 17:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 17:08	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 17:08	76-13-1	
Tetrachloroethene	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 17:08	127-18-4	
Tetrahydrofuran	ND	mg/kg	0.721	2	06/23/20 11:01	06/30/20 17:08	109-99-9	
Toluene	ND	mg/kg	0.288	2	06/23/20 11:01	06/30/20 17:08	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.721	2	06/23/20 11:01	06/30/20 17:08	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.721	2	06/23/20 11:01	06/30/20 17:08	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 17:08	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 17:08	79-00-5	
Trichloroethene	ND	mg/kg	0.0577	2	06/23/20 11:01	06/30/20 17:08	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 17:08	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.721	2	06/23/20 11:01	06/30/20 17:08	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.288	2	06/23/20 11:01	06/30/20 17:08	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.288	2	06/23/20 11:01	06/30/20 17:08	108-67-8	
Vinyl chloride	ND	mg/kg	0.144	2	06/23/20 11:01	06/30/20 17:08	75-01-4	CC
Xylene (Total)	ND	mg/kg	0.375	2	06/23/20 11:01	06/30/20 17:08	1330-20-7	
Surrogates								
Toluene-d8 (S)	104	%	75.0-131	2	06/23/20 11:01	06/30/20 17:08	2037-26-5	
4-Bromofluorobenzene (S)	101	%	67.0-138	2	06/23/20 11:01	06/30/20 17:08	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70.0-130	2	06/23/20 11:01	06/30/20 17:08	17060-07-0	
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet							
Total Solids	**86.7**	%		1	07/01/20 01:36	07/01/20 01:51		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Sample: MeOH Trip Blank **Lab ID: 10522687017** Collected: 06/23/20 00:00 Received: 06/24/20 10:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Acetone	ND	mg/kg	2.50	2	06/23/20 11:01	06/30/20 17:27	67-64-1	
Allyl chloride	ND	mg/kg	1.25	2	06/23/20 11:01	06/30/20 17:27	107-05-1	
Benzene	ND	mg/kg	0.0500	2	06/23/20 11:01	06/30/20 17:27	71-43-2	
Bromobenzene	ND	mg/kg	0.625	2	06/23/20 11:01	06/30/20 17:27	108-86-1	
Bromochloromethane	ND	mg/kg	0.250	2	06/23/20 11:01	06/30/20 17:27	74-97-5	
Bromodichloromethane	ND	mg/kg	0.125	2	06/23/20 11:01	06/30/20 17:27	75-27-4	
Bromoform	ND	mg/kg	1.25	2	06/23/20 11:01	06/30/20 17:27	75-25-2	
Bromomethane	ND	mg/kg	0.625	2	06/23/20 11:01	06/30/20 17:27	74-83-9	CC
n-Butylbenzene	ND	mg/kg	0.625	2	06/23/20 11:01	06/30/20 17:27	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.625	2	06/23/20 11:01	06/30/20 17:27	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.250	2	06/23/20 11:01	06/30/20 17:27	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.250	2	06/23/20 11:01	06/30/20 17:27	56-23-5	
Chlorobenzene	ND	mg/kg	0.125	2	06/23/20 11:01	06/30/20 17:27	108-90-7	
Dibromochloromethane	ND	mg/kg	0.125	2	06/23/20 11:01	06/30/20 17:27	124-48-1	
Chloroethane	ND	mg/kg	0.250	2	06/23/20 11:01	06/30/20 17:27	75-00-3	
Chloroform	ND	mg/kg	0.125	2	06/23/20 11:01	06/30/20 17:27	67-66-3	
Chloromethane	ND	mg/kg	0.625	2	06/23/20 11:01	06/30/20 17:27	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.125	2	06/23/20 11:01	06/30/20 17:27	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.250	2	06/23/20 11:01	06/30/20 17:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	1.25	2	06/23/20 11:01	06/30/20 17:27	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.125	2	06/23/20 11:01	06/30/20 17:27	106-93-4	
Dibromomethane	ND	mg/kg	0.250	2	06/23/20 11:01	06/30/20 17:27	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.250	2	06/23/20 11:01	06/30/20 17:27	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.250	2	06/23/20 11:01	06/30/20 17:27	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.250	2	06/23/20 11:01	06/30/20 17:27	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.125	2	06/23/20 11:01	06/30/20 17:27	75-71-8	
Dichlorofluoromethane	ND	mg/kg	0.125	2	06/23/20 11:01	06/30/20 17:27	75-43-4	
1,1-Dichloroethane	ND	mg/kg	0.125	2	06/23/20 11:01	06/30/20 17:27	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.125	2	06/23/20 11:01	06/30/20 17:27	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.125	2	06/23/20 11:01	06/30/20 17:27	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.125	2	06/23/20 11:01	06/30/20 17:27	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.250	2	06/23/20 11:01	06/30/20 17:27	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.250	2	06/23/20 11:01	06/30/20 17:27	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.125	2	06/23/20 11:01	06/30/20 17:27	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.250	2	06/23/20 11:01	06/30/20 17:27	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.125	2	06/23/20 11:01	06/30/20 17:27	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.250	2	06/23/20 11:01	06/30/20 17:27	10061-02-6	
2,2-Dichloropropane	ND	mg/kg	0.125	2	06/23/20 11:01	06/30/20 17:27	594-20-7	
Diisopropyl ether	ND	mg/kg	0.0500	2	06/23/20 11:01	06/30/20 17:27	108-20-3	
Ethylbenzene	ND	mg/kg	0.125	2	06/23/20 11:01	06/30/20 17:27	100-41-4	
Diethyl ether (Ethyl ether)	ND	mg/kg	0.125	2	06/23/20 11:01	06/30/20 17:27	60-29-7	
Hexachloro-1,3-butadiene	ND	mg/kg	1.25	2	06/23/20 11:01	06/30/20 17:27	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.125	2	06/23/20 11:01	06/30/20 17:27	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.250	2	06/23/20 11:01	06/30/20 17:27	99-87-6	
2-Butanone (MEK)	ND	mg/kg	5.00	2	06/23/20 11:01	06/30/20 17:27	78-93-3	

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Sample: MeOH Trip Blank **Lab ID: 10522687017** Collected: 06/23/20 00:00 Received: 06/24/20 10:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Methylene Chloride	ND	mg/kg	1.25	2	06/23/20 11:01	06/30/20 17:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	1.25	2	06/23/20 11:01	06/30/20 17:27	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0500	2	06/23/20 11:01	06/30/20 17:27	1634-04-4	
Naphthalene	ND	mg/kg	0.625	2	06/23/20 11:01	06/30/20 17:27	91-20-3	
n-Propylbenzene	ND	mg/kg	0.250	2	06/23/20 11:01	06/30/20 17:27	103-65-1	
Styrene	ND	mg/kg	0.625	2	06/23/20 11:01	06/30/20 17:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.125	2	06/23/20 11:01	06/30/20 17:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.125	2	06/23/20 11:01	06/30/20 17:27	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.125	2	06/23/20 11:01	06/30/20 17:27	76-13-1	
Tetrachloroethene	ND	mg/kg	0.125	2	06/23/20 11:01	06/30/20 17:27	127-18-4	
Tetrahydrofuran	ND	mg/kg	0.625	2	06/23/20 11:01	06/30/20 17:27	109-99-9	
Toluene	ND	mg/kg	0.250	2	06/23/20 11:01	06/30/20 17:27	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.625	2	06/23/20 11:01	06/30/20 17:27	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.625	2	06/23/20 11:01	06/30/20 17:27	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.125	2	06/23/20 11:01	06/30/20 17:27	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.125	2	06/23/20 11:01	06/30/20 17:27	79-00-5	
Trichloroethene	ND	mg/kg	0.0500	2	06/23/20 11:01	06/30/20 17:27	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.125	2	06/23/20 11:01	06/30/20 17:27	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.625	2	06/23/20 11:01	06/30/20 17:27	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.250	2	06/23/20 11:01	06/30/20 17:27	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.250	2	06/23/20 11:01	06/30/20 17:27	108-67-8	
Vinyl chloride	ND	mg/kg	0.125	2	06/23/20 11:01	06/30/20 17:27	75-01-4	CC
Xylene (Total)	ND	mg/kg	0.325	2	06/23/20 11:01	06/30/20 17:27	1330-20-7	
Surrogates								
Toluene-d8 (S)	108	%	75.0-131	2	06/23/20 11:01	06/30/20 17:27	2037-26-5	
4-Bromofluorobenzene (S)	104	%	67.0-138	2	06/23/20 11:01	06/30/20 17:27	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70.0-130	2	06/23/20 11:01	06/30/20 17:27	17060-07-0	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

QC Batch: 192624
QC Batch Method: EPA 351.2
Analysis Method: EPA 351.2
Analysis Description: 351.2 TKN
Laboratory: Pace Analytical Services - Duluth
Associated Lab Samples: 10522687002, 10522687008, 10522687011

METHOD BLANK: 759363 Matrix: Solid
Associated Lab Samples: 10522687002, 10522687008, 10522687011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/kg	ND	50.0	07/02/20 12:15	

LABORATORY CONTROL SAMPLE: 759362

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/kg	1000	1040	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 759364 759365

Parameter	Units	12146053011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/kg	844	952	1000	1860	1780	107	94	90-110	5	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 759366 759367

Parameter	Units	10522687002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/kg	3850	1220	1330	5340	5240	122	104	90-110	2	10	M6

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

QC Batch: 194499
QC Batch Method: EPA 351.2
Analysis Method: EPA 351.2
Analysis Description: 351.2 TKN
Laboratory: Pace Analytical Services - Duluth
Associated Lab Samples: 10522687001, 10522687007, 10522687010

METHOD BLANK: 768053 Matrix: Solid
Associated Lab Samples: 10522687001, 10522687007, 10522687010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/kg	ND	50.0	07/31/20 15:31	

LABORATORY CONTROL SAMPLE: 768052

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/kg	1000	1010	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 768054 768055

Parameter	Units	10522687001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/kg	1060	1150	1150	2000	2590	64	115	90-110	25	10	E, M1, R1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 768056 768057

Parameter	Units	10524951013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/kg	ND	1080	1080	1130	1110	101	98	90-110	2	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

QC Batch: 192504
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite
Laboratory: Pace Analytical Services - Duluth
Associated Lab Samples: 10522687002, 10522687008, 10522687011

METHOD BLANK: 758699 Matrix: Solid
Associated Lab Samples: 10522687002, 10522687008, 10522687011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/kg	ND	0.20	06/30/20 11:52	N2

LABORATORY CONTROL SAMPLE: 758698

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/kg	5	5.1	103	90-110	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 758700 758701

Parameter	Units	10522569005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/kg	ND	5.77	5.77	5.9	6.0	100	101	90-110	1	10	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 758711 758712

Parameter	Units	12146230002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/kg	1.4	24.5	24.5	24.6	24.3	95	94	90-110	1	10	N2

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

QC Batch: 195312
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite
Laboratory: Pace Analytical Services - Duluth
Associated Lab Samples: 10522687001, 10522687007, 10522687010

METHOD BLANK: 771843 Matrix: Solid
Associated Lab Samples: 10522687001, 10522687007, 10522687010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/kg	ND	0.20	08/06/20 13:26	N2

LABORATORY CONTROL SAMPLE: 771842

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/kg	5	5.2	104	90-110	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 771844 771845

Parameter	Units	10522569004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/kg	0.94	4.9	5	6.0	6.1	103	103	90-110	1	10	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 771846 771847

Parameter	Units	10525347042 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/kg	198	5.6	5.71	219	226	-125	-9	90-110	3	10	N2,P6

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

QC Batch: 194811
QC Batch Method: ASTM D 2974-13 (2013)
Analysis Method: ASTM D 2974-13 (2013)
Analysis Description: Dry Weight/Percent Moisture Duluth
Laboratory: Pace Analytical Services - Duluth
Associated Lab Samples: 10522687001, 10522687007, 10522687010

SAMPLE DUPLICATE: 769655

Parameter	Units	10525347043 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	3.8	3.8	0	5	

SAMPLE DUPLICATE: 769656

Parameter	Units	10525347062 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	23.8	24.2	2	5	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

QC Batch: 683244 | Analysis Method: EPA 7471B
QC Batch Method: EPA 7471B | Analysis Description: 7471B Mercury Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10522687005, 10522687008, 10522687013, 10522687014, 10522687015, 10522687016

METHOD BLANK: 3655753 Matrix: Solid
Associated Lab Samples: 10522687005, 10522687008, 10522687013, 10522687014, 10522687015, 10522687016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.019	06/30/20 11:28	

LABORATORY CONTROL SAMPLE: 3655754

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.48	0.51	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3655755 3655756

Parameter	Units	10522569005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	ND	0.54	0.58	0.58	0.62	104	104	80-120	6	20	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

QC Batch: 688597
QC Batch Method: EPA 7471B
Analysis Method: EPA 7471B
Analysis Description: 7471B Mercury Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10522687004, 10522687007

METHOD BLANK: 3683012 Matrix: Solid
Associated Lab Samples: 10522687004, 10522687007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.019	07/27/20 17:50	

LABORATORY CONTROL SAMPLE: 3683013

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.47	0.47	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3683014 3683015

Parameter	Units	10522569004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.042	0.44	0.45	0.49	0.57	101	116	80-120	16	20	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

QC Batch: 683241
QC Batch Method: EPA 3050B
Analysis Method: EPA 6010D
Analysis Description: 6010D Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10522687013, 10522687014, 10522687015, 10522687016

METHOD BLANK: 3655745 Matrix: Solid
Associated Lab Samples: 10522687013, 10522687014, 10522687015, 10522687016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	0.96	06/28/20 12:49	
Barium	mg/kg	ND	0.48	06/28/20 12:49	
Cadmium	mg/kg	ND	0.14	06/28/20 12:49	
Chromium	mg/kg	ND	0.48	06/28/20 12:49	
Lead	mg/kg	ND	0.48	06/28/20 12:49	
Selenium	mg/kg	ND	0.96	06/28/20 12:49	
Silver	mg/kg	ND	0.48	06/28/20 12:49	

LABORATORY CONTROL SAMPLE: 3655746

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	47.2	49.6	105	80-120	
Barium	mg/kg	47.2	50.0	106	80-120	
Cadmium	mg/kg	47.2	50.1	106	80-120	
Chromium	mg/kg	47.2	50.0	106	80-120	
Lead	mg/kg	47.2	49.4	105	80-120	
Selenium	mg/kg	47.2	49.8	106	80-120	
Silver	mg/kg	23.6	24.3	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3655747 3655748

Parameter	Units	10522569002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	1.4	53.4	58.1	50.9	55.1	93	92	75-125	8	20	
Barium	mg/kg	61.2	53.4	58.1	105	101	83	69	75-125	4	20	M1
Cadmium	mg/kg	ND	53.4	58.1	49.8	53.9	93	93	75-125	8	20	
Chromium	mg/kg	20.9	53.4	58.1	73.2	76.4	98	96	75-125	4	20	
Lead	mg/kg	4.9	53.4	58.1	52.6	56.6	89	89	75-125	7	20	
Selenium	mg/kg	ND	53.4	58.1	48.9	53.3	91	91	75-125	9	20	
Silver	mg/kg	ND	26.6	29.1	25.1	27.0	94	93	75-125	7	20	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

QC Batch: 684902
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10522687002, 10522687005, 10522687008, 10522687009

SAMPLE DUPLICATE: 3663799

Parameter	Units	10523331001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	2.1	2.4	17	30	N2

SAMPLE DUPLICATE: 3663848

Parameter	Units	10522687005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.4	15.2	8	30	N2

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

QC Batch: 684922
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10522687011, 10522687013, 10522687014, 10522687015, 10522687016

SAMPLE DUPLICATE: 3663854

Parameter	Units	10522699005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	13.2	13.9	5	30	N2

SAMPLE DUPLICATE: 3663953

Parameter	Units	10522687013 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	44.8	46.6	4	30	N2

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

QC Batch: 688446
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10522687004

SAMPLE DUPLICATE: 3682187

Parameter	Units	10524722012 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	11.2	9.0	21	30	N2

SAMPLE DUPLICATE: 3682462

Parameter	Units	10524722003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	15.3	14.8	3	30	N2

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

QC Batch: 1501601
QC Batch Method: 5035A
Analysis Method: EPA 8260D
Analysis Description: VOA (GC/MS) 8260D
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 10522687009, 10522687013, 10522687014, 10522687015, 10522687016, 10522687017

METHOD BLANK: R3544945-3 Matrix: Solid
Associated Lab Samples: 10522687009, 10522687013, 10522687014, 10522687015, 10522687016, 10522687017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acetone	mg/kg	ND	1.25	06/30/20 09:35	
Benzene	mg/kg	ND	0.0250	06/30/20 09:35	
Bromobenzene	mg/kg	ND	0.313	06/30/20 09:35	
Bromodichloromethane	mg/kg	ND	0.0625	06/30/20 09:35	
Bromochloromethane	mg/kg	ND	0.125	06/30/20 09:35	
Bromoform	mg/kg	ND	0.625	06/30/20 09:35	
Bromomethane	mg/kg	ND	0.313	06/30/20 09:35	
n-Butylbenzene	mg/kg	ND	0.313	06/30/20 09:35	
sec-Butylbenzene	mg/kg	ND	0.313	06/30/20 09:35	
tert-Butylbenzene	mg/kg	ND	0.125	06/30/20 09:35	
Carbon tetrachloride	mg/kg	ND	0.125	06/30/20 09:35	
Chlorobenzene	mg/kg	ND	0.0625	06/30/20 09:35	
Dibromochloromethane	mg/kg	ND	0.0625	06/30/20 09:35	
Chloroethane	mg/kg	ND	0.125	06/30/20 09:35	
Chloroform	mg/kg	ND	0.0625	06/30/20 09:35	
Chloromethane	mg/kg	ND	0.313	06/30/20 09:35	
2-Chlorotoluene	mg/kg	ND	0.0625	06/30/20 09:35	
4-Chlorotoluene	mg/kg	ND	0.125	06/30/20 09:35	
1,2-Dibromo-3-chloropropane	mg/kg	ND	0.625	06/30/20 09:35	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0625	06/30/20 09:35	
Dibromomethane	mg/kg	ND	0.125	06/30/20 09:35	
1,2-Dichlorobenzene	mg/kg	ND	0.125	06/30/20 09:35	
1,3-Dichlorobenzene	mg/kg	ND	0.125	06/30/20 09:35	
1,4-Dichlorobenzene	mg/kg	ND	0.125	06/30/20 09:35	
Dichlorodifluoromethane	mg/kg	ND	0.0625	06/30/20 09:35	
Dichlorofluoromethane	mg/kg	ND	0.0625	06/30/20 09:35	
1,1-Dichloroethane	mg/kg	ND	0.0625	06/30/20 09:35	
1,2-Dichloroethane	mg/kg	ND	0.0625	06/30/20 09:35	
1,1-Dichloroethene	mg/kg	ND	0.0625	06/30/20 09:35	
cis-1,2-Dichloroethene	mg/kg	ND	0.0625	06/30/20 09:35	
trans-1,2-Dichloroethene	mg/kg	ND	0.125	06/30/20 09:35	
1,2-Dichloropropane	mg/kg	ND	0.125	06/30/20 09:35	
1,1-Dichloropropene	mg/kg	ND	0.0625	06/30/20 09:35	
1,3-Dichloropropane	mg/kg	ND	0.125	06/30/20 09:35	
cis-1,3-Dichloropropene	mg/kg	ND	0.0625	06/30/20 09:35	
trans-1,3-Dichloropropene	mg/kg	ND	0.125	06/30/20 09:35	
2,2-Dichloropropane	mg/kg	ND	0.0625	06/30/20 09:35	
Diisopropyl ether	mg/kg	ND	0.0250	06/30/20 09:35	
Ethylbenzene	mg/kg	ND	0.0625	06/30/20 09:35	
Diethyl ether (Ethyl ether)	mg/kg	ND	0.0625	06/30/20 09:35	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

METHOD BLANK: R3544945-3 Matrix: Solid
Associated Lab Samples: 10522687009, 10522687013, 10522687014, 10522687015, 10522687016, 10522687017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	mg/kg	ND	0.625	06/30/20 09:35	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0625	06/30/20 09:35	
p-Isopropyltoluene	mg/kg	ND	0.125	06/30/20 09:35	
2-Butanone (MEK)	mg/kg	ND	2.50	06/30/20 09:35	
Methylene Chloride	mg/kg	ND	0.625	06/30/20 09:35	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.625	06/30/20 09:35	
Methyl-tert-butyl ether	mg/kg	ND	0.0250	06/30/20 09:35	
Naphthalene	mg/kg	ND	0.313	06/30/20 09:35	
n-Propylbenzene	mg/kg	ND	0.125	06/30/20 09:35	
Styrene	mg/kg	ND	0.313	06/30/20 09:35	
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0625	06/30/20 09:35	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0625	06/30/20 09:35	
Tetrachloroethene	mg/kg	ND	0.0625	06/30/20 09:35	
Tetrahydrofuran	mg/kg	ND	0.313	06/30/20 09:35	
Toluene	mg/kg	ND	0.125	06/30/20 09:35	
1,1,2-Trichlorotrifluoroethane	mg/kg	ND	0.0625	06/30/20 09:35	
1,2,3-Trichlorobenzene	mg/kg	ND	0.313	06/30/20 09:35	
1,2,4-Trichlorobenzene	mg/kg	ND	0.313	06/30/20 09:35	
1,1,1-Trichloroethane	mg/kg	ND	0.0625	06/30/20 09:35	
1,1,2-Trichloroethane	mg/kg	ND	0.0625	06/30/20 09:35	
Trichloroethene	mg/kg	ND	0.0250	06/30/20 09:35	
Trichlorofluoromethane	mg/kg	ND	0.0625	06/30/20 09:35	
1,2,3-Trichloropropane	mg/kg	ND	0.313	06/30/20 09:35	
1,2,4-Trimethylbenzene	mg/kg	ND	0.125	06/30/20 09:35	
1,3,5-Trimethylbenzene	mg/kg	ND	0.125	06/30/20 09:35	
Vinyl chloride	mg/kg	ND	0.0625	06/30/20 09:35	
Xylene (Total)	mg/kg	ND	0.163	06/30/20 09:35	
Allyl chloride	mg/kg	ND	0.625	06/30/20 09:35	
Toluene-d8 (S)	%	110	75.0-131	06/30/20 09:35	
4-Bromofluorobenzene (S)	%	98.1	67.0-138	06/30/20 09:35	
1,2-Dichloroethane-d4 (S)	%	94.3	70.0-130	06/30/20 09:35	

LABORATORY CONTROL SAMPLE & LCSD: R3544945-1 R3544945-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Acetone	mg/kg	0.625	0.850	0.887	136	142	10.0-160	4.26	31	
Benzene	mg/kg	0.125	0.0996	0.101	79.7	80.8	70.0-123	1.40	20	
Bromobenzene	mg/kg	0.125	0.133	0.140	106	112	73.0-121	5.13	20	
Bromodichloromethane	mg/kg	0.125	0.104	0.109	83.2	87.2	73.0-121	4.69	20	
Bromochloromethane	mg/kg	0.125	0.103	0.0987	82.4	79.0	77.0-128	4.26	20	
Bromoform	mg/kg	0.125	0.133	0.131	106	105	64.0-132	1.52	20	
Bromomethane	mg/kg	0.125	0.0781	0.0764	62.5	61.1	56.0-147	2.20	20	
n-Butylbenzene	mg/kg	0.125	0.136	0.139	109	111	68.0-135	2.18	20	
sec-Butylbenzene	mg/kg	0.125	0.138	0.141	110	113	74.0-130	2.15	20	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

LABORATORY CONTROL SAMPLE & LCSD: R3544945-1 R3544945-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
tert-Butylbenzene	mg/kg	0.125	0.156	0.159	125	127	75.0-127	1.90	20	
Carbon tetrachloride	mg/kg	0.125	0.116	0.112	92.8	89.6	66.0-128	3.51	20	
Chlorobenzene	mg/kg	0.125	0.116	0.117	92.8	93.6	76.0-128	0.858	20	
Dibromochloromethane	mg/kg	0.125	0.142	0.141	114	113	74.0-127	0.707	20	
Chloroethane	mg/kg	0.125	0.0955	0.0924	76.4	73.9	61.0-134	3.30	20	
Chloroform	mg/kg	0.125	0.123	0.119	98.4	95.2	72.0-123	3.31	20	
Chloromethane	mg/kg	0.125	0.114	0.115	91.2	92.0	51.0-138	0.873	20	
2-Chlorotoluene	mg/kg	0.125	0.0986	0.109	78.9	87.2	75.0-124	10.0	20	
4-Chlorotoluene	mg/kg	0.125	0.131	0.135	105	108	75.0-124	3.01	20	
1,2-Dibromo-3-chloropropane	mg/kg	0.125	0.121	0.124	96.8	99.2	59.0-130	2.45	20	
1,2-Dibromoethane (EDB)	mg/kg	0.125	0.128	0.136	102	109	74.0-128	6.06	20	
Dibromomethane	mg/kg	0.125	0.111	0.111	88.8	88.8	75.0-122	0.00	20	
1,2-Dichlorobenzene	mg/kg	0.125	0.109	0.111	87.2	88.8	76.0-124	1.82	20	
1,3-Dichlorobenzene	mg/kg	0.125	0.119	0.121	95.2	96.8	76.0-125	1.67	20	
1,4-Dichlorobenzene	mg/kg	0.125	0.103	0.103	82.4	82.4	77.0-121	0.00	20	
Dichlorodifluoromethane	mg/kg	0.125	0.150	0.141	120	113	43.0-156	6.19	20	
Dichlorofluoromethane	mg/kg	0.125	0.0958	0.0896	76.6	71.7	65.0-137	6.69	20	
1,1-Dichloroethane	mg/kg	0.125	0.103	0.0981	82.4	78.5	70.0-127	4.87	20	
1,2-Dichloroethane	mg/kg	0.125	0.121	0.119	96.8	95.2	65.0-131	1.67	20	
1,1-Dichloroethene	mg/kg	0.125	0.110	0.103	88.0	82.4	65.0-131	6.57	20	
cis-1,2-Dichloroethene	mg/kg	0.125	0.109	0.105	87.2	84.0	73.0-125	3.74	20	
trans-1,2-Dichloroethene	mg/kg	0.125	0.101	0.0975	80.8	78.0	71.0-125	3.53	20	
1,2-Dichloropropane	mg/kg	0.125	0.142	0.147	114	118	74.0-125	3.46	20	
1,1-Dichloropropene	mg/kg	0.125	0.0984	0.0997	78.7	79.8	73.0-125	1.31	20	
1,3-Dichloropropane	mg/kg	0.125	0.134	0.138	107	110	80.0-125	2.94	20	
cis-1,3-Dichloropropene	mg/kg	0.125	0.143	0.148	114	118	76.0-127	3.44	20	
trans-1,3-Dichloropropene	mg/kg	0.125	0.125	0.128	100	102	73.0-127	2.37	20	
2,2-Dichloropropane	mg/kg	0.125	0.107	0.0962	85.6	77.0	59.0-135	10.6	20	
Diisopropyl ether	mg/kg	0.125	0.129	0.127	103	102	60.0-136	1.56	20	
Ethylbenzene	mg/kg	0.125	0.116	0.115	92.8	92.0	74.0-126	0.866	20	
Diethyl ether (Ethyl ether)	mg/kg	0.125	0.117	0.116	93.6	92.8	64.0-137	0.858	20	
Hexachloro-1,3-butadiene	mg/kg	0.125	0.0949	0.0914	75.9	73.1	57.0-150	3.76	20	
Isopropylbenzene (Cumene)	mg/kg	0.125	0.123	0.121	98.4	96.8	72.0-127	1.64	20	
p-Isopropyltoluene	mg/kg	0.125	0.120	0.121	96.0	96.8	72.0-133	0.830	20	
2-Butanone (MEK)	mg/kg	0.625	0.849	0.956	136	153	30.0-160	11.9	24	
Methylene Chloride	mg/kg	0.125	0.102	0.0936	81.6	74.9	68.0-123	8.59	20	
4-Methyl-2-pentanone (MIBK)	mg/kg	0.625	0.743	0.776	119	124	56.0-143	4.34	20	
Methyl-tert-butyl ether	mg/kg	0.125	0.120	0.111	96.0	88.8	66.0-132	7.79	20	
Naphthalene	mg/kg	0.125	0.126	0.131	101	105	59.0-130	3.89	20	
n-Propylbenzene	mg/kg	0.125	0.151	0.158	121	126	74.0-126	4.53	20	
Styrene	mg/kg	0.125	0.118	0.116	94.4	92.8	72.0-127	1.71	20	
1,1,1,2-Tetrachloroethane	mg/kg	0.125	0.105	0.102	84.0	81.6	74.0-129	2.90	20	
1,1,2,2-Tetrachloroethane	mg/kg	0.125	0.128	0.132	102	106	68.0-128	3.08	20	
Tetrachloroethene	mg/kg	0.125	0.121	0.117	96.8	93.6	70.0-136	3.36	20	
Tetrahydrofuran	mg/kg	0.125	0.129	0.128	103	102	37.0-146	0.778	24	
Toluene	mg/kg	0.125	0.114	0.115	91.2	92.0	75.0-121	0.873	20	
1,1,2-Trichlorotrifluoroethane	mg/kg	0.125	0.111	0.108	88.8	86.4	61.0-139	2.74	20	

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REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

LABORATORY CONTROL SAMPLE & LCSD: R3544945-1 R3544945-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,3-Trichlorobenzene	mg/kg	0.125	0.149	0.150	119	120	59.0-139	0.669	20	
1,2,4-Trichlorobenzene	mg/kg	0.125	0.120	0.121	96.0	96.8	62.0-137	0.830	20	
1,1,1-Trichloroethane	mg/kg	0.125	0.109	0.110	87.2	88.0	69.0-126	0.913	20	
1,1,2-Trichloroethane	mg/kg	0.125	0.134	0.127	107	102	78.0-123	5.36	20	
Trichloroethene	mg/kg	0.125	0.106	0.108	84.8	86.4	76.0-126	1.87	20	
Trichlorofluoromethane	mg/kg	0.125	0.118	0.109	94.4	87.2	61.0-142	7.93	20	
1,2,3-Trichloropropane	mg/kg	0.125	0.147	0.145	118	116	67.0-129	1.37	20	
1,2,4-Trimethylbenzene	mg/kg	0.125	0.120	0.124	96.0	99.2	70.0-126	3.28	20	
1,3,5-Trimethylbenzene	mg/kg	0.125	0.112	0.114	89.6	91.2	73.0-127	1.77	20	
Vinyl chloride	mg/kg	0.125	0.0957	0.102	76.6	81.6	63.0-134	6.37	20	
Xylene (Total)	mg/kg	0.375	0.351	0.344	93.6	91.7	72.0-127	2.01	20	
Allyl chloride	mg/kg	0.625	0.531	0.504	85.0	80.6	70.0-131	5.22	20	
Toluene-d8 (S)	%				105	106	75.0-131			
4-Bromofluorobenzene (S)	%				104	102	67.0-138			
1,2-Dichloroethane-d4 (S)	%				106	105	70.0-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3544945-4 R3544945-5

Parameter	Units	10522687013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acetone	mg/kg	ND	1.19	1.19	ND	ND	150	30.6	10.0-160	132	40	R1
Benzene	mg/kg	ND	0.238	0.238	ND	ND	92.9	82.8	10.0-149	11.5	37	
Bromobenzene	mg/kg	ND	0.238	0.238	ND	ND	107	96.2	10.0-156	10.7	38	
Bromodichloromethane	mg/kg	ND	0.238	0.238	ND	ND	87.8	71.8	10.0-143	20.0	37	
Bromochloromethane	mg/kg	ND	0.238	0.238	ND	ND	84.9	69.7	10.0-155	19.6	33	
Bromoform	mg/kg	ND	0.238	0.238	ND	ND	106	79.8	10.0-146	28.4	36	
Bromomethane	mg/kg	ND	0.238	0.238	ND	ND	44.1	42.9	10.0-149	2.90	38	
n-Butylbenzene	mg/kg	ND	0.238	0.238	ND	ND	108	90.8	10.0-160	16.9	40	
sec-Butylbenzene	mg/kg	ND	0.238	0.238	ND	ND	113	101	10.0-159	10.6	39	
tert-Butylbenzene	mg/kg	ND	0.238	0.238	ND	ND	126	113	10.0-156	11.2	39	
Carbon tetrachloride	mg/kg	ND	0.238	0.238	ND	ND	84.5	79.8	10.0-145	5.63	37	
Chlorobenzene	mg/kg	ND	0.238	0.238	ND	ND	93.7	77.3	10.0-152	19.2	39	
Dibromochloromethane	mg/kg	ND	0.238	0.238	ND	ND	113	96.6	10.0-146	15.6	37	
Chloroethane	mg/kg	ND	0.238	0.238	ND	ND	42.9	51.3	10.0-146	17.9	40	
Chloroform	mg/kg	ND	0.238	0.238	ND	ND	98.3	84.5	10.0-146	15.2	37	
Chloromethane	mg/kg	ND	0.238	0.238	ND	ND	94.5	83.6	10.0-159	12.3	37	
2-Chlorotoluene	mg/kg	ND	0.238	0.238	ND	ND	88.2	80.7	10.0-159	8.96	38	
4-Chlorotoluene	mg/kg	ND	0.238	0.238	ND	ND	106	90.8	10.0-155	15.8	39	
1,2-Dibromo-3-chloropropane	mg/kg	ND	0.238	0.238	ND	ND	98.7	64.7	10.0-151	41.6	39	R1
1,2-Dibromoethane (EDB)	mg/kg	ND	0.238	0.238	ND	ND	105	84.5	10.0-148	22.1	34	
Dibromomethane	mg/kg	ND	0.238	0.238	ND	ND	94.5	69.7	10.0-147	30.2	35	
1,2-Dichlorobenzene	mg/kg	ND	0.238	0.238	ND	ND	89.1	70.6	10.0-155	23.2	37	
1,3-Dichlorobenzene	mg/kg	ND	0.238	0.238	ND	ND	95.4	80.3	10.0-153	17.2	38	
1,4-Dichlorobenzene	mg/kg	ND	0.238	0.238	ND	ND	81.1	65.5	10.0-151	21.2	38	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3544945-4 R3544945-5

Parameter	Units	10522687013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dichlorodifluoromethane	mg/kg	ND	0.238	0.238	ND	ND	113	107	10.0-160	5.74	35	
Dichlorofluoromethane	mg/kg	ND	0.238	0.238	ND	ND	48.7	51.7	10.0-160	5.86	34	
1,1-Dichloroethane	mg/kg	ND	0.238	0.238	ND	ND	84.5	70.6	10.0-147	17.9	37	
1,2-Dichloroethane	mg/kg	ND	0.238	0.238	ND	ND	103	79.8	10.0-148	25.3	35	
1,1-Dichloroethene	mg/kg	ND	0.238	0.238	ND	ND	83.6	76.1	10.0-155	9.47	37	
cis-1,2-Dichloroethene	mg/kg	ND	0.238	0.238	ND	ND	84.9	73.5	10.0-149	14.3	37	
trans-1,2-Dichloroethene	mg/kg	ND	0.238	0.238	ND	ND	76.5	68.9	10.0-150	10.4	37	
1,2-Dichloropropane	mg/kg	ND	0.238	0.238	ND	ND	118	100	10.0-148	15.8	37	
1,1-Dichloropropene	mg/kg	ND	0.238	0.238	ND	ND	78.2	70.2	10.0-153	10.8	35	
1,3-Dichloropropane	mg/kg	ND	0.238	0.238	ND	ND	113	92.0	10.0-154	20.1	35	
cis-1,3-Dichloropropene	mg/kg	ND	0.238	0.238	ND	ND	114	95.0	10.0-151	18.1	37	
trans-1,3-Dichloropropene	mg/kg	ND	0.238	0.238	ND	ND	101	86.1	10.0-148	16.1	37	
2,2-Dichloropropane	mg/kg	ND	0.238	0.238	ND	ND	76.9	68.5	10.0-138	11.6	36	
Diisopropyl ether	mg/kg	ND	0.238	0.238	ND	ND	108	89.9	10.0-147	18.6	36	
Ethylbenzene	mg/kg	ND	0.238	0.238	ND	ND	97.5	85.3	10.0-160	13.3	38	
Diethyl ether (Ethyl ether)	mg/kg	ND	0.238	0.238	ND	ND	97.9	81.1	10.0-160	18.8	31	
Hexachloro-1,3-butadiene	mg/kg	ND	0.238	0.238	ND	ND	68.5	57.1	10.0-160	18.1	40	
Isopropylbenzene (Cumene)	mg/kg	ND	0.238	0.238	ND	ND	98.3	84.5	10.0-155	15.2	38	
p-Isopropyltoluene	mg/kg	ND	0.238	0.238	ND	ND	99.2	87.0	10.0-160	13.1	40	
2-Butanone (MEK)	mg/kg	ND	1.19	1.19	ND	ND	130	101	10.0-160	25.5	40	
Methylene Chloride	mg/kg	ND	0.238	0.238	ND	ND	90.3	56.7	10.0-141	45.7	37	R1
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	1.19	1.19	ND	ND	122	89.1	10.0-160	31.1	35	
Methyl-tert-butyl ether	mg/kg	ND	0.238	0.238	ND	ND	92.4	76.1	11.0-147	19.5	35	
Naphthalene	mg/kg	ND	0.238	0.238	ND	ND	110	76.1	10.0-160	36.2	36	R1
n-Propylbenzene	mg/kg	ND	0.238	0.238	ND	ND	124	113	10.0-158	8.88	38	
Styrene	mg/kg	ND	0.238	0.238	ND	ND	90.8	75.6	10.0-160	18.2	40	
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.238	0.238	ND	ND	85.3	67.6	10.0-149	23.1	39	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.238	0.238	ND	ND	105	82.8	10.0-160	23.3	35	
Tetrachloroethene	mg/kg	ND	0.238	0.238	ND	ND	94.5	84.9	10.0-156	10.8	39	
Tetrahydrofuran	mg/kg	ND	0.238	0.238	ND	ND	136	90.3	10.0-158	40.4	33	R1
Toluene	mg/kg	ND	0.238	0.238	ND	ND	103	91.2	10.0-156	12.5	38	
1,1,2-Trichlorotrifluoroethane	mg/kg	ND	0.238	0.238	ND	ND	89.9	84.9	10.0-160	5.77	36	
1,2,3-Trichlorobenzene	mg/kg	ND	0.238	0.238	ND	ND	123	88.7	10.0-160	32.2	40	
1,2,4-Trichlorobenzene	mg/kg	ND	0.238	0.238	ND	ND	95.8	71.0	10.0-160	29.7	40	
1,1,1-Trichloroethane	mg/kg	ND	0.238	0.238	ND	ND	90.3	81.5	10.0-144	10.3	35	
1,1,2-Trichloroethane	mg/kg	ND	0.238	0.238	ND	ND	108	87.4	10.0-160	21.5	35	
Trichloroethene	mg/kg	ND	0.238	0.238	ND	ND	86.6	74.4	10.0-156	15.1	38	
Trichlorofluoromethane	mg/kg	ND	0.238	0.238	ND	ND	53.4	68.1	10.0-160	24.2	40	
1,2,3-Trichloropropane	mg/kg	ND	0.238	0.238	ND	ND	125	98.7	10.0-156	23.3	35	
1,2,4-Trimethylbenzene	mg/kg	ND	0.238	0.238	ND	ND	103	87.8	10.0-160	15.9	36	
1,3,5-Trimethylbenzene	mg/kg	ND	0.238	0.238	ND	ND	94.1	83.2	10.0-160	12.3	38	
Vinyl chloride	mg/kg	ND	0.238	0.238	ND	ND	85.7	69.7	10.0-160	20.5	37	
Xylene (Total)	mg/kg	ND	0.712	0.712	ND	ND	97.8	82.2	10.0-160	17.3	38	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3544945-4 R3544945-5

Parameter	Units	10522687013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Allyl chloride	mg/kg	ND	1.19	1.19	ND	ND	86.6	75.7	10.0-160	13.4	30	
Toluene-d8 (S)	%						106	108	75.0-131			
4-Bromofluorobenzene (S)	%						103	99.9	67.0-138			
1,2-Dichloroethane-d4 (S)	%						108	105	70.0-130			

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

QC Batch: 683061
QC Batch Method: EPA 3550C
Analysis Method: EPA 8270E by SIM
Analysis Description: 8270E Solid PAH by SIM MSSV
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10522687013, 10522687014, 10522687015, 10522687016

METHOD BLANK: 3654736 Matrix: Solid
Associated Lab Samples: 10522687013, 10522687014, 10522687015, 10522687016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/kg	ND	10.0	06/25/20 11:17	
Acenaphthylene	ug/kg	ND	10.0	06/25/20 11:17	
Anthracene	ug/kg	ND	10.0	06/25/20 11:17	
Benzo(a)anthracene	ug/kg	ND	10.0	06/25/20 11:17	
Benzo(a)pyrene	ug/kg	ND	10.0	06/25/20 11:17	
Benzo(b)fluoranthene	ug/kg	ND	10.0	06/25/20 11:17	
Benzo(g,h,i)perylene	ug/kg	ND	10.0	06/25/20 11:17	
Benzo(k)fluoranthene	ug/kg	ND	10.0	06/25/20 11:17	
Chrysene	ug/kg	ND	10.0	06/25/20 11:17	
Dibenz(a,h)anthracene	ug/kg	ND	10.0	06/25/20 11:17	
Fluoranthene	ug/kg	ND	10.0	06/25/20 11:17	
Fluorene	ug/kg	ND	10.0	06/25/20 11:17	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	10.0	06/25/20 11:17	
Naphthalene	ug/kg	ND	10.0	06/25/20 11:17	
Phenanthrene	ug/kg	ND	10.0	06/25/20 11:17	
Pyrene	ug/kg	ND	10.0	06/25/20 11:17	
2-Fluorobiphenyl (S)	%.	65	30-138	06/25/20 11:17	
p-Terphenyl-d14 (S)	%.	95	30-143	06/25/20 11:17	

LABORATORY CONTROL SAMPLE: 3654737

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/kg	33.3	22.1	66	49-125	
Acenaphthylene	ug/kg	33.3	22.6	68	53-125	
Anthracene	ug/kg	33.3	25.9	78	59-125	
Benzo(a)anthracene	ug/kg	33.3	27.7	83	58-125	
Benzo(a)pyrene	ug/kg	33.3	25.9	78	64-125	
Benzo(b)fluoranthene	ug/kg	33.3	24.6	74	61-125	
Benzo(g,h,i)perylene	ug/kg	33.3	26.8	80	64-125	
Benzo(k)fluoranthene	ug/kg	33.3	29.0	87	62-125	
Chrysene	ug/kg	33.3	27.7	83	65-125	
Dibenz(a,h)anthracene	ug/kg	33.3	26.4	79	63-125	
Fluoranthene	ug/kg	33.3	24.5	73	68-125	
Fluorene	ug/kg	33.3	23.9	72	54-125	
Indeno(1,2,3-cd)pyrene	ug/kg	33.3	26.1	78	63-125	
Naphthalene	ug/kg	33.3	23.8	72	45-125	
Phenanthrene	ug/kg	33.3	24.9	75	63-125	
Pyrene	ug/kg	33.3	29.7	89	65-125	
2-Fluorobiphenyl (S)	%.			72	30-138	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

LABORATORY CONTROL SAMPLE: 3654737

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
p-Terphenyl-d14 (S)	%.			94	30-143	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3654815 3654816

Parameter	Units	10522586002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	ug/kg	ND	40.3	40.3	26.9	27.0	67	67	30-125	1	30	
Acenaphthylene	ug/kg	ND	40.3	40.3	27.5	28.5	68	71	30-150	3	30	
Anthracene	ug/kg	ND	40.3	40.3	32.6	30.3	81	75	30-150	7	30	
Benzo(a)anthracene	ug/kg	ND	40.3	40.3	35.1	32.5	87	81	30-150	8	30	
Benzo(a)pyrene	ug/kg	ND	40.3	40.3	31.9	30.5	79	75	30-150	5	30	
Benzo(b)fluoranthene	ug/kg	ND	40.3	40.3	31.5	28.6	78	71	30-150	10	30	
Benzo(g,h,i)perylene	ug/kg	ND	40.3	40.3	33.2	31.4	82	78	30-150	6	30	
Benzo(k)fluoranthene	ug/kg	ND	40.3	40.3	35.9	33.6	89	83	30-150	7	30	
Chrysene	ug/kg	ND	40.3	40.3	35.4	33.4	88	83	30-150	6	30	
Dibenz(a,h)anthracene	ug/kg	ND	40.3	40.3	34.7	31.7	86	78	30-147	9	30	
Fluoranthene	ug/kg	ND	40.3	40.3	32.0	29.8	79	74	30-150	7	30	
Fluorene	ug/kg	ND	40.3	40.3	29.4	29.0	73	72	30-150	1	30	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	40.3	40.3	33.0	31.0	82	77	30-150	6	30	
Naphthalene	ug/kg	ND	40.3	40.3	28.0	28.1	69	70	30-141	1	30	
Phenanthrene	ug/kg	ND	40.3	40.3	31.8	30.3	79	75	30-150	5	30	
Pyrene	ug/kg	ND	40.3	40.3	39.3	36.1	97	90	30-150	8	30	
2-Fluorobiphenyl (S)	%.						72	74	30-138			
p-Terphenyl-d14 (S)	%.						95	89	30-143			

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REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

QC Batch: 683179
QC Batch Method: WI MOD DRO
Analysis Method: WI MOD DRO
Analysis Description: WIDRO GCS
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10522687009

METHOD BLANK: 3655282 Matrix: Solid
Associated Lab Samples: 10522687009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
WDRO C10-C28	mg/kg	ND	10.0	06/25/20 10:48	
n-Triacontane (S)	%.	84	50-150	06/25/20 10:48	

LABORATORY CONTROL SAMPLE & LCSD: 3655283 3655284

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
WDRO C10-C28	mg/kg	80	62.3	75.0	78	94	70-120	19	20	
n-Triacontane (S)	%.				84	99	50-150			

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REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

QC Batch: 1501621 Analysis Method: SM 2540G
QC Batch Method: SM 2540 G Analysis Description: Total Solids 2540 G-2011
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 10522687009, 10522687013, 10522687014, 10522687015, 10522687016

METHOD BLANK: R3545275-1 Matrix: Solid
Associated Lab Samples: 10522687009, 10522687013, 10522687014, 10522687015, 10522687016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	%	0.00100		07/01/20 01:51	

LABORATORY CONTROL SAMPLE: R3545275-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	%	50.0	50.0	100	85.0-115	

SAMPLE DUPLICATE: R3545275-3

Parameter	Units	L1233767-01 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	%	87.7	86.9	0.990	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CC	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The result may be biased.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
H1	Analysis conducted outside the recognized method holding time.
H2	Extraction or preparation was conducted outside of the recognized method holding time.
H3	Sample was received or analysis requested beyond the recognized method holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
R1	RPD value was outside control limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.
T6	High boiling point hydrocarbons are present in the sample.

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10522687001	**ASB-11C (0-0.5)**	EPA 351.2	194499	EPA 351.2	194968
10522687002	**ASB-11C (2-2.5)**	EPA 351.2	192624	EPA 351.2	192791
10522687007	**ASB-9C (0-0.5)**	EPA 351.2	194499	EPA 351.2	194968
10522687008	**ASB-9C (2-2.5)**	EPA 351.2	192624	EPA 351.2	192791
10522687010	**ASB-12C (0-0.5)**	EPA 351.2	194499	EPA 351.2	194968
10522687011	**ASB-12C (2-2.5)**	EPA 351.2	192624	EPA 351.2	192791
10522687001	**ASB-11C (0-0.5)**	EPA 353.2	195312	EPA 353.2	195439
10522687002	**ASB-11C (2-2.5)**	EPA 353.2	192504	EPA 353.2	192529
10522687007	**ASB-9C (0-0.5)**	EPA 353.2	195312	EPA 353.2	195439
10522687008	**ASB-9C (2-2.5)**	EPA 353.2	192504	EPA 353.2	192529
10522687010	**ASB-12C (0-0.5)**	EPA 353.2	195312	EPA 353.2	195439
10522687011	**ASB-12C (2-2.5)**	EPA 353.2	192504	EPA 353.2	192529
10522687001	**ASB-11C (0-0.5)**	ASTM D 2974-13 (2013)	194811		
10522687007	**ASB-9C (0-0.5)**	ASTM D 2974-13 (2013)	194811		
10522687010	**ASB-12C (0-0.5)**	ASTM D 2974-13 (2013)	194811		
10522687009	**ASB-9C (4-4.5)**	WI MOD DRO	683179	WI MOD DRO	683352
10522687013	**TT-4 (7-8)**	EPA 3050B	683241	EPA 6010D	683517
10522687014	**TT-5 (2-3)**	EPA 3050B	683241	EPA 6010D	683517
10522687015	**TT-6 (8-9)**	EPA 3050B	683241	EPA 6010D	683517
10522687016	**DUP-19-06232020**	EPA 3050B	683241	EPA 6010D	683517
10522687004	**ASB-5C (0-0.5)**	EPA 7471B	688597	EPA 7471B	689013
10522687005	**ASB-5C (2-2.5)**	EPA 7471B	683244	EPA 7471B	683631
10522687007	**ASB-9C (0-0.5)**	EPA 7471B	688597	EPA 7471B	689013
10522687008	**ASB-9C (2-2.5)**	EPA 7471B	683244	EPA 7471B	683631
10522687013	**TT-4 (7-8)**	EPA 7471B	683244	EPA 7471B	683631
10522687014	**TT-5 (2-3)**	EPA 7471B	683244	EPA 7471B	683631
10522687015	**TT-6 (8-9)**	EPA 7471B	683244	EPA 7471B	683631
10522687016	**DUP-19-06232020**	EPA 7471B	683244	EPA 7471B	683631
10522687002	**ASB-11C (2-2.5)**	ASTM D2974	684902		
10522687004	**ASB-5C (0-0.5)**	ASTM D2974	688446		
10522687005	**ASB-5C (2-2.5)**	ASTM D2974	684902		
10522687008	**ASB-9C (2-2.5)**	ASTM D2974	684902		
10522687009	**ASB-9C (4-4.5)**	ASTM D2974	684902		
10522687011	**ASB-12C (2-2.5)**	ASTM D2974	684922		
10522687013	**TT-4 (7-8)**	ASTM D2974	684922		
10522687014	**TT-5 (2-3)**	ASTM D2974	684922		
10522687015	**TT-6 (8-9)**	ASTM D2974	684922		
10522687016	**DUP-19-06232020**	ASTM D2974	684922		

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B1903316.00 Hillcrest-Revised Report
Pace Project No.: 10522687

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10522687013	**TT-4 (7-8)**	EPA 3550C	683061	EPA 8270E by SIM	683361
10522687014	**TT-5 (2-3)**	EPA 3550C	683061	EPA 8270E by SIM	683361
10522687015	**TT-6 (8-9)**	EPA 3550C	683061	EPA 8270E by SIM	683361
10522687016	**DUP-19-06232020**	EPA 3550C	683061	EPA 8270E by SIM	683361
10522687009	**ASB-9C (4-4.5)**	5035A	1501601	EPA 8260D	1501601
10522687013	**TT-4 (7-8)**	5035A	1501601	EPA 8260D	1501601
10522687014	**TT-5 (2-3)**	5035A	1501601	EPA 8260D	1501601
10522687015	**TT-6 (8-9)**	5035A	1501601	EPA 8260D	1501601
10522687016	**DUP-19-06232020**	5035A	1501601	EPA 8260D	1501601
10522687017	**MeOH Trip Blank**	5035A	1501601	EPA 8260D	1501601
10522687009	**ASB-9C (4-4.5)**	SM 2540 G	1501621	SM 2540G	1501621
10522687013	**TT-4 (7-8)**	SM 2540 G	1501621	SM 2540G	1501621
10522687014	**TT-5 (2-3)**	SM 2540 G	1501621	SM 2540G	1501621
10522687015	**TT-6 (8-9)**	SM 2540 G	1501621	SM 2540G	1501621
10522687016	**DUP-19-06232020**	SM 2540 G	1501621	SM 2540G	1501621

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CHAIN-OF-CUSTODY / Analytical Request Document

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REVISED COC

Page: 1 of 2

2277778

Section A Required Client Information:

Company: Braun Intertec
Address: 11001 Hampshire Ave S
Bloomington MN 55438
Email To: MKeeter@braunintertec.com
Phone: Fax:
Requested Due Date/TAT: STD

Section B Required Project Information:

Report To: Mark Keeter
Copy To:
Purchase Order No.:
Project Name: Hillcrest
Project Number: B1903316.00

Section C Invoice Information:

Attention:
Company Name:
Address: Same
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 34125

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MN

WO#: 10522687

10522687

Requested Analysis Filtered (Y/N)

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: *HOLD	NO_2/NO_3	TKN	Fungicides	List 2 Pesticides	Mercury	VOCs	DRO	Residual Chlor	Pace Project No./ Lab I.D.
1	ASB-11C (0-0.5)	SL	C			6/23/20	0921		4	4								X									001
2	ASB-11C (2-2.5)		C				0914		4	4									X	X	X	X					002
3	ASB-11C (4-4.5)		G				0902		4	4								X									003
4	ASB-5C (0-0.5)		C				1017		3	3								X									004
5	ASB-5C (2-2.5)		C				1010		↓	↓											X	X	X				005
6	ASB-5C (4-4.5)		G				0950		↓	↓								X									006
7	ASB-9C (0-0.5)		C				1127		5	5								X									007
8	ASB-9C (2-2.5)		C				1120		↓	↓									X	X	X	X	X				008
9	ASB-9C (4-4.5) *		G				1101		9	7							2	X						X	X		009
10	ASB-12C (0-0.5)		C				1230		4	4								X									010
11	ASB-12C (2-2.5)		C				1205		↓	↓									X	X	X	X					011
12	ASB-12C (4-4.5)	↓	G	↓	↓	↓	1145		↓	↓								X									012

Temp
0.5
1.9
0.6

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
*Hold ASB-9C (4-4.5)	Graham Hanson/Braun	6/23/20	1845	PACE	6.24.20	0830	2.7	Y	A	Y
NO2/NO3, TKN, Fungicides, List 2	PACE	6.24.20	0830	[illegible]	6/24/20	1005				
Pesticides, and Mercury. Run	[illegible]	6/24/20	1650	[illegible]	6/24/20	1050	0.9 0.4	Y	N	Y
for VOCs and DRO.										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Graham Hanson

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 06/23/20

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-C-010-rev.00, 09Nov2017

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 2 of 2

2277779

Section A Required Client Information:

Company:	Braun Intertec
Address:	11001 Hampshire Ave S, Bloomington, MN 55438
Email To:	MKeefer@braunintertec.com
Phone:	
Fax:	
Requested Due Date/TAT:	STD

Section B Required Project Information:

Report To:	Mark Keefer
Copy To:	
Purchase Order No.:	
Project Name:	Hillcrest
Project Number:	B1903316.00

Section C Invoice Information:

Attention:	
Company Name:	
Address:	Same
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	34125

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MN

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	VOCs	PAHs	RCRA Metals	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	TT-4 (7-8)	SL	G			6/23/20	1400		4	2						2			X	X	X		013
2	TT-5 (2-3)	↓	G			↓	1514		↓	↓						↓			↓	↓	↓		014
3	TT-6 (8-9)	↓	G			↓			↓	↓						↓			↓	↓	↓		16 015
4	DUP-19-06232020	↓	C			↓	1200		↓	↓						↓			X	X	X		17 016
5	MeOH Trip Blank								2							2			X				18 017
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Graham Hanson/Braun	6/23/20	1845	[signature] PACE	6.24.20	0830	2.7	Y	N	Y
	[signature] PACE	6.24.20	0830	[signature] / Pace	6/24/20	1005				
	[signature] / Pace	6/24/20	1050	Mike N Pace	6/24/20	1050	0.5 1.9 0.6	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Graham Hanson

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 06/23/2020

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-C-010-rev.00, 09Nov2017

Page 75 of 182

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Page: 1 of 2

2277778

Section A Required Client Information:

Company:	Braun Intertec
Address:	11001 Hampshire Ave S, Bloomington MN 55438
Email To:	MKeefer@braunintertec.com
Phone:	
Fax:	
Requested Due Date/TAT:	STD

Section B Required Project Information:

Report To:	Mark Keefer
Copy To:	
Purchase Order No.:	
Project Name:	Hillcrest
Project Number:	B1903316.00

Section C Invoice Information:

Attention:	
Company Name:	Same
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	34125

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MN

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

WO#: 10522687

10522687

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	*HOLD*	NO_2/NO_3	TKN	Fungicides	List 2 Pesticides	Mercury	VOCs	DRO	Residual Chlor	Pace Project No./ Lab I.D.	Temp
1	ASB-11C (0-0.5)	SL	C			6/23/20	0921		4	4									X									001	
2	ASB-11C (2-2.5)		C				0914		4	4										X	X	X	X					002	
3	ASB-11C (4-4.5)		G				0902		4	4									X									003	
4	ASB-5C (0-0.5)		C				1017		3	3									X									004	
5	ASB-5C (2-2.5)		C				1010															X	X	X				005	
6	ASB-5C (4-4.5)		G				0950												X									006	
7	ASB-9C (0-0.5)		C				1127		5	5									X									007	
8	ASB-9C (2-2.5)		C				1120													X	X	X	X	X				008	
9	ASB-9C (4-4.5) *		G				1101		9	7						2			X						X	X		009	0.5
10	ASB-12C (0-0.5)		C				1230		4	4									X									010	1.9
11	ASB-12C (2-2.5)		C				1205													X	X	X	X					011	
12	ASB-12C (4-4.5)		G				1145												X									012	0.6

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
*Hold ASB-9C (4-4.5)	Graham Hanson/Braun	6/23/20	1845	[signature] PACE	6.24.20	0830	2.7	Y	N	Y
NO2/NO3, TKN, Fungicides, List 2	[signature] PACE	6.24.20	0830	[signature] / Pace	6/24/20	1005				
Pesticides, and Mercury. Run	[signature] / Pace	6/24/20	1050	[signature] PACE	6/24/20	1050	0.5 1.9 0.4	Y	N	Y
for VOCs and DRO.										

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Graham Hanson

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 06/23/20

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-C-010-rev.00, 09Nov2017

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 of 2

2277779

Section A Required Client Information:

Company:	Braun Intertec
Address:	11001 Hampshire Ave S Bloomington, MN 55438
Email To:	MKeefer@braunintertec.com
Phone:	Fax:
Requested Due Date/TAT:	STD

Section B Required Project Information:

Report To:	Mark Keefer
Copy To:	
Purchase Order No.:	
Project Name:	Hillcrest
Project Number:	B1903316.00

Section C Invoice Information:

Attention:	
Company Name:	
Address:	Same
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	34125

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MN

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	VOCs	PAHs	RCRA Metals	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	TT-4 (7-8)	SL	G			6/23/20	1400		4	2						2			X	X	X		013
2	TT-5 (2-3)	↓	G			↓	1514		↓	↓						↓			↓	↓	↓		014
3	TT-6 (8-9)	↓	G			↓			↓	↓						↓			↓	↓	↓		16 015
4	DUP-19-06232020	↓	C			↓	1200		↓	↓						↓			X	X	X		17 016
5	MeOH Trip Blank								2							2			X				18 017
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Graham Hanson/Braun	6/23/20	1845	[signature] PACE	6.24.20	0830	2.7	Y	N	Y
	[signature] PACE	6.24.20	0830	[signature] G/Pace	6/24/20	1005				
	[signature] G/Pace	6/24/20	1050	Mike N Pace	6/24/20	1050	0.5 1.9 0.6	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Graham Hanson

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 06/23/2020

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-C-010-rev.00, 09Nov2017

Pace Analytical®	Document Name: **Sample Condition Upon Receipt (SCUR) - MN**	Document Revised: 27Mar2020 **Page 1 of 1**
	Document No.: **ENV-FRM-MIN4-0150 Rev.00**	Pace Analytical Services - **Minneapolis**

Sample Condition Upon Receipt

Client Name: Braun Intertec

Project #: **WO#: 10522687**

PM: BM2 **Due Date: 07/01/20**

CLIENT: Braun-BLM

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☒ Pace ☐ SpeeDee ☐ Commercial **See Exceptions** ☐

Tracking Number: _____

Custody Seal on Cooler/Box Present? ☒ Yes ☐ No **Seals Intact?** ☒ Yes ☐ No **Biological Tissue Frozen?** ☐ Yes ☐ No ☒ N/A

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other: _____ **Temp Blank?** ☒ Yes ☐ No

Thermometer: ☐ T1(0461) ☐ T2(1336) ☐ T3(0459) ☐ T4(0254) ☒ T5(0489) **Type of Ice:** ☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted

Did Samples Originate in West Virginia? ☐ Yes ☒ No **Were All Container Temps Taken?** ☐ Yes ☐ No ☒ N/A

Temp should be above freezing to 6°C **Cooler Temp Read w/temp blank:** 0.5, 1.9, 0.6 °C

Correction Factor: TVC **Cooler Temp Corrected w/temp blank:** 0.5, 1.9, 0.6 °C

Average Corrected Temp (no temp blank only): _____ °C ☐ See Exceptions ☐ 1 Container

USDA Regulated Soil: (☐ N/A, water sample/Other: _____)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☒ No

Date/Initials of Person Examining Contents: MKZ 6-24-20

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present and Filled Out?	☒ Yes	☐ No		1.
Chain of Custody Relinquished?	☒ Yes	☐ No		2.
Sampler Name and/or Signature on COC?	☒ Yes	☐ No	☐ N/A	3.
Samples Arrived within Hold Time?	☒ Yes	☐ No		4.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No		5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other _____
Rush Turn Around Time Requested?	☐ Yes	☒ No		6.
Sufficient Volume?	☒ Yes	☐ No		7.
Correct Containers Used? -Pace Containers Used?	☒ Yes ☒ Yes	☐ No ☐ No		8.
Containers Intact?	☒ Yes	☐ No		9.
Field Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☒ N/A	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Is sufficient information available to reconcile the samples to the COC? Matrix: ☐ Water ☒ Soil ☐ Oil ☐ Other _____	☒ Yes	☐ No		11. **If no, write ID/ Date/Time on Container Below:** Extra sample/JGFU included for PT-5(2-3) and ASB-9c (4-4.5). **See Exception** ☒
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☒ N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide)	☐ Yes	☐ No	☒ N/A	☐ NaOH ☐ HNO_3 ☐ H_2SO_4 ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☐ Yes	☐ No	☒ N/A	Positive for Res. Chlorine? ☐ Yes ☐ No **pH Paper Lot#** **See Exception** ☐
				Res. Chlorine | 0-6 Roll | 0-6 Strip | 0-14 Strip
Extra labels present on soil VOA or WIDRO containers?	☒ Yes	☐ No	☐ N/A	13. **See Exception** ☐
Headspace in VOA Vials (greater than 6mm)?	☐ Yes	☐ No	☒ N/A	
Trip Blank Present?	☒ Yes	☐ No	☐ N/A	14. 2 TBs no custody seal
Trip Blank Custody Seals Present?	☐ Yes	☒ No	☐ N/A	Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: BL VC **Date:** 6/24/2020

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: MKZ (2)

Pace Analytical®	Document Name: **Sample Condition Upon Receipt (SCUR) Exception Form**	Document Revised: 04Jun2020 **Page 1 of 1**
	Document No.: **ENV-FRM-MIN4-0142 Rev.01**	Pace Analytical Services - **Minneapolis**

SCUR Exceptions: Extra Samples **Workorder #:**

Out of Temp Sample IDs	Container Type	# of Containers
TT-S (2-3)	JGFV	1
Labled as "Extra"		
0/2 Moisture	JGFV	1
Included in ZPLV of		
ASB-9c (4-4.5).		

PM Notified? ☐Yes ☐No

If yes, indicate who was contacted/date/time.
If no, indicate reason why.

Multiple Cooler Project? ☐Yes ☐No
If you answered yes, fill out information to the left.

No Temp Blank		
Read Temp	Corrected Temp	Average Temp

Tracking Number/Temperature	

Issue Type: Sample ID	Container Type	# of Containers

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preserv.	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition?	Initials
								☐Yes ☐No	
								☐Yes ☐No	
								☐Yes ☐No	
								☐Yes ☐No	

Comments:

Service Center Transfer Checklist

Service Center: MPLS ☐ BLM ☒ AZ ☐

Client: Braun Intertec

Destination Lab: MPLS ☒ VM ☐ Duluth ☐

National ☐ Other _____

Received w/ Custody Seal ? Yes ☐ No ☑

Custody Seal Intact ? Yes ☐ No ☑

	Temp Read	Corr. Factor	Corr. Temp
Temperature °C	1.8, 2.6, 2.3	+0.1	1.9, 2.7, 2.4

IR Gun: B88A0143310092 ☐ Samples on ice, in cool down

Rush ☐ **Short Hold** ☐ **N/A** ☑

Containers Intact ? Yes ☑ No ☐

Repacked and Re-Iced ? Yes ☐ No ☑

Notes: _____

Chain of Custody

Pace Analytical®
www.pacelabs.com

☐ Samples were sent directly to the Subcontracting Laboratory. A202617

State Of Origin: MN
Cert. Needed: ☒ Yes ☐ No

Workorder: 10522687 **Workorder Name:** B1903316.00 Hillcrest

Owner Received Date: 6/24/2020 **Results Requested By:** 7/9/2020

Report To	Subcontract To
Bob Michels Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)709-5046	Pace Analytical Madison 2525 Advance Road Madison, WI 53718 Phone (608)221-8700

JGFU

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	Requested Analysis: List 2 Pesticides	LAB USE ONLY
1	ASB-11C (2-2.5)	PS	6/23/2020 09:14	10522687002	Solid	1	X	01
2	ASB-5C (2-2.5)	PS	6/23/2020 10:10	10522687005	Solid	1	X	02
3	ASB-9C (2-2.5)	PS	6/23/2020 11:20	10522687008	Solid	1	X	03
4	ASB-12C (2-2.5)	PS	6/23/2020 12:05	10522687011	Solid	1	X	04
5								

Transfers	Released By	Date/Time	Received By	Date/Time
1	/Pace	6/25/20 13:35		6/26/20 1145
2				
3				

Comments

Cooler Temperature on Receipt 3.0 °C | Custody Seal (Y) or N | Received on Ice (Y) or N | Samples Intact (Y) or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.*
This chain of custody is considered complete as is since this information is available in the owner laboratory.

SIN1601422774
Exp 12/19/20

Internal Transfer Chain of Custody

☐ Samples Pre-Logged into eCOC.

~~A0~~ A203013 State Of Origin: MN

Cert. Needed: ☒ Yes ☐ No

Pace Analytical
www.pacelabs.com

Workorder: 10522687 **Workorder Name:** B1903316.00 Hillcrest

Owner Received Date: 6/24/2020 **Results Requested By:** 8/5/2020

Report To

Bob Michels
Pace Analytical Minnesota
1700 Elm Street
Suite 200
Minneapolis, MN 55414
Phone (612)709-5046

Subcontract To

Pace Analytical Madison
2525 Advance Road
Madison, WI 53718
Phone (608)221-8700

JGFU

Requested Analysis

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	List 2 Pesticides	MDA List 2 Pesticides	LAB USE ONLY
1	ASB-11C (0-0.5)	PS	6/23/2020 09:21	10522687001	Solid	1	X	X	01
2	ASB-11C (2-2.5)	PS	6/23/2020 09:14	10522687002	Solid	1	X		—
3	ASB-5C (0-0.5)	PS	6/23/2020 10:17	10522687004	Solid	1	X	X	02
4	ASB-5C (2-2.5)	PS	6/23/2020 10:10	10522687005	Solid	1	X		—
5	ASB-9C (0-0.5)	PS	6/23/2020 11:27	10522687007	Solid	1	X	X	03
6	ASB-9C (2-2.5)	PS	6/23/2020 11:20	10522687008	Solid	1	X		—
7	ASB-12C (0-0.5)	PS	6/23/2020 12:30	10522687010	Solid	1	X	X	04
8	ASB-12C (2-2.5)	PS	6/23/2020 12:05	10522687011	Solid	1	X		—

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature] /Pace	7/22/20 14:03	[signature]	7/23/20 11:30
2				
3				

Comments

Cooler Temperature on Receipt 2.4 °C | **Custody Seal** Y or N | **Received on Ice** Y or N | **Samples Intact** Y or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.*
This chain of custody is considered complete as is since this information is available in the owner laboratory.

S/N 160142274
Exp 12/19/20

20057

Chain of Custody

PASI Minnesota Laboratory

Pace Analytical®
www.pacelabs.com

Workorder: 10522687 **Workorder Name:** B1903316.00 Hillcrest **Results Requested By:** 8/5/2020

Report / Invoice To	Subcontract To
Bob Michels Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)709-5046 Email: bob.michels@pacelabs.com	P.O. 10522687 Synergistic Pesticide Laboratory, LLC 2700 N Hayden Island Dr Portland, OR 97217 503-641-0500

State of Sample Origin: MN

JGFU

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	** Fungicides	LAB USE ONLY
1	ASB-11C (0-0.5)	6/23/2020 09:21	10522687001	Solid	1	X	20057 01
2	ASB-5C (0-0.5)	6/23/2020 10:17	10522687004	Solid	1	X	02
3	ASB-9C (0-0.5)	6/23/2020 11:27	10522687007	Solid	1	X	03
4	ASB-12C (0-0.5)	6/23/2020 12:30	10522687010	Solid	1	X	04
5							

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature] Pace	7/22/2015:40		
2			[signature] SPL	7/23/2020 9:52
3				

Comments

**Analyze for chlorothalonil, propiconazole, iprodione.

Cooler Temperature on Receipt 1.3 °C | Custody Seal (Y) or N | Received on Ice (Y) or N | Samples Intact (Y) or N

Synergistic Pesticide Laboratory, LLC
Sample Receipt Checklist

Project # 20057
Date 7/23/20
Initials VH

Client Pace Minnesota
Method of Arrival: UPS (FedEx) USPS client delivered courier lab other
Tracking # 1320 7523 2424

Custody Seals Present: (Y) N
If yes: transport container sample container Signed: See back
Date: 7/22
Temperature (°C): 1.3 (IR) digital
Type of coolant: (ice) blue/gel ice other none

Are all samples present?	(Y)	N
Are samples intact?	(Y)	N
Documentation provided?	(COC)	SS Form Email Letter PO None Other:_____
Does sample information match documentation?	(Y)	N NA
Is the documentation signed?	(Y)	N NA
Are the samples within hold time?	Y	(N) NA
Is the sampling date provided?	(Y)	N
Is there sufficient sample volume?	(Y)	N
Are the samples in appropriate containers?	(Y)	N
Do the containers originate from SPL?	Y	(N)

Sample Description:

#	Matrix	#	Container
4	BB CHRY FRESH EXT PREP OTHER:_____ RBB BLK IQF FLR H2O (SOIL) STRW RSP CANNED OIL FOLIAGE/TISSUE:_____	1	ZL-GAL WP-LG MY-LG POLY VIAL 1L AMB 8OZ JAR ZL-SM WP-SM MY-SM GL VIAL 1 GAL POLY (4OZ JAR) OTHER:_____ SYR WAX CENT TUBE SOIL BAG
	BB CHRY FRESH EXT PREP OTHER:_____ RBB BLK IQF FLR H2O SOIL STRW RSP CANNED OIL FOLIAGE/TISSUE:_____		ZL-GAL WP-LG MY-LG POLY VIAL 1L AMB 8OZ JAR ZL-SM WP-SM MY-SM GL VIAL 1 GAL POLY 4OZ JAR OTHER:_____ SYR WAX CENT TUBE SOIL BAG
	BB CHRY FRESH EXT PREP OTHER:_____ RBB BLK IQF FLR H2O SOIL STRW RSP CANNED OIL FOLIAGE/TISSUE:_____		ZL-GAL WP-LG MY-LG POLY VIAL 1L AMB 8OZ JAR ZL-SM WP-SM MY-SM GL VIAL 1 GAL POLY 4OZ JAR OTHER:_____ SYR WAX CENT TUBE SOIL BAG

Comments:_____

L1233781

Chain of Custody

Pace Analytical®
www.pacelabs.com

☐ Samples were sent directly to the Subcontracting Laboratory.

State Of Origin: MN
Cert. Needed: [X] Yes ☐ No
Owner Received Date: 6/24/2020 Results Requested By: 7/9/2020

Workorder: 10522687 **Workorder Name:** B1903316.00 Hillcrest

Report To	Subcontract To
Bob Michels Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)709-5046	Pace National 12064 Lebanon Road Mt. Juliet, TN 37122

A027

VG9M JGFU

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: MeOH	Preserved Containers: Unpreserved	Requested Analysis: Dry weight	Requested Analysis: VOCs by 8260D	LAB USE ONLY
1	ASB-9C (4-4.5)	PS	6/23/2020 11:01	10522687009	Solid	2	1	X	X	-01
2	TT-4 (7-8)	PS	6/23/2020 14:00	10522687013	Solid	2	1	X	X	-02
3	TT-5 (2-3)	PS	6/23/2020 15:14	10522687014	Solid	2	1	X	X	-03
4	TT-6 (8-9)	PS	6/23/2020 00:00	10522687015	Solid	2	1	X	X	-04
5	DUP-19-06232020	PS	6/23/2020 00:00	10522687016	Solid	2	1	X	X	-05
6	MeOH Trip Blank	PS	6/23/2020 00:00	10522687017	Solid	~~4~~ 2			X	-06

6/25/20

Transfers	Released By	Date/Time	Received By	Date/Time
1	Nate Pace	6/25/20 1415	Sandy Yoset	6/26/20 8:45
2				
3				

Comments

Cooler Temperature on Receipt 2.4 °C | Custody Seal (Y) or N | Received on Ice (Y) or N | Samples Intact (Y) or N

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This chain of custody is considered complete as is since this information is available in the owner laboratory.

MPA3
2.8-.4=2.4

RAD SCREEN: <0.5 mR/hr

Pace Analytical National Center for Testing & Innovation
Cooler Receipt Form

Client: PACEMN	L17337781	
Cooler Received/Opened On: 6 / 26 / 20 Temperature:	2.4	°C
Received By: Sandy Yossef		
Signature: Sandy Yossef		

Receipt Check List	NP	Yes	No
COC Seal Present / Intact?		✓	
COC Signed / Accurate?		✓	
Bottles arrive intact?		✓	
Correct bottles used?		✓	
Sufficient volume sent?		✓	
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			

WO#: 12146312

12146312

Chain of Custody

☐ Samples were sent directly to the Subcontracting Laboratory.

State Of Origin: MN
Cert. Needed: ☒ Yes ☐

Workorder: 10522687 **Workorder Name:** B1903316.00 Hillcrest **Owner Received Date:** 6/24/2020 **Results Requested By:** 7/9/2020

Report To	Subcontract To
Bob Michels Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)709-5046	Pace Analytical Virginia MN 315 Chestnut Street Virginia, MN 55792 Phone (218)742-1042

JGFU

Requested Analysis

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	Nitrate + Nitrate 353.2	Total Kjeldahl Nitrogen 351.2	LAB USE ONLY
1	ASB-11C (2-2.5)	PS	6/23/2020 09:14	10522687002	Solid	1	X	X	
2	ASB-9C (2-2.5)	PS	6/23/2020 11:20	10522687008	Solid	1	X	X	
3	ASB-12C (2-2.5)	PS	6/23/2020 12:05	10522687011	Solid	1	X	X	
4									
5									

Transfers	Released By	Date/Time	Received By	Date/Time
1	[illegible]	6/25/20 13:30	[illegible] 6/25/20	1430
2	[illegible] 6/25/20	2300	B. Mathews	6/26/20 0045
3				

Comments

Cooler Temperature on Receipt 2.0 °C | Custody Seal Y or N | Received on Ice Y or N | Samples Intact Y or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.*
This chain of custody is considered complete as is since this information is available in the owner laboratory.

Pace Analytical	Document Name: Sample Condition Upon Receipt Form	Document Revised: 25Feb2020 Page 1 of 1
	Document No.: F-VM-C-001-rev.14	Issuing Authority: Pace Virginia Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Pace MN

Project #: **WO#: 12146312**

PM: LM2 **Due Date: 07/10/20**

CLIENT: PACE MPLS

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other: _____

Tracking Number: _____

Custody Seal on Cooler/Box Present? ☒ Yes ☐ No Seals Intact? ☒ Yes ☐ No Optional: Proj. Due Date: Proj. Name:

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other: _____ Temp Blank? ☒ Yes ☐ No

Thermometer Used: ☒ 140792808 Type of Ice: ☐ Wet ☐ Blue ☐ None ☒ Samples on ice, cooling process has begun

Cooler Temp Read °C: 1.7 Cooler Temp Corrected °C: 2.0 Biological Tissue Frozen? ☐ Yes ☐ No ☒ NA

Temp should be above freezing to 6 °C Correction Factor: 0.3 Date and Initials of Person Examining Contents: 6/25/20 DL

Comments: BM 6/26/20

Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.	
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.	
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.	
Sampler Name and Signature on COC?	☐ Yes	☑ No	☐ N/A	4.	
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.	If Fecal: ☐ <8 hours ☐ >8, <24 hours ☐ >24 hours
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.	
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.	
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.	
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.	
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A		
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.	
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☑ N/A	11.	Note if sediment is visible in the dissolved containers.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	12.	
-Includes Date/Time/ID/Analysis Matrix: SL					
All containers needing acid/base preservation properly preserved?	☐ Yes	☐ No	☑ N/A	13.	Note samples needing adjustment:
Headspace in Methyl Mercury Container	☐ Yes	☐ No	☑ N/A	14.	
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☑ N/A	15.	
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	16.	
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A		
Pace Trip Blank Lot # (if purchased):					

CLIENT NOTIFICATION/RESOLUTION Field Data Required? ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

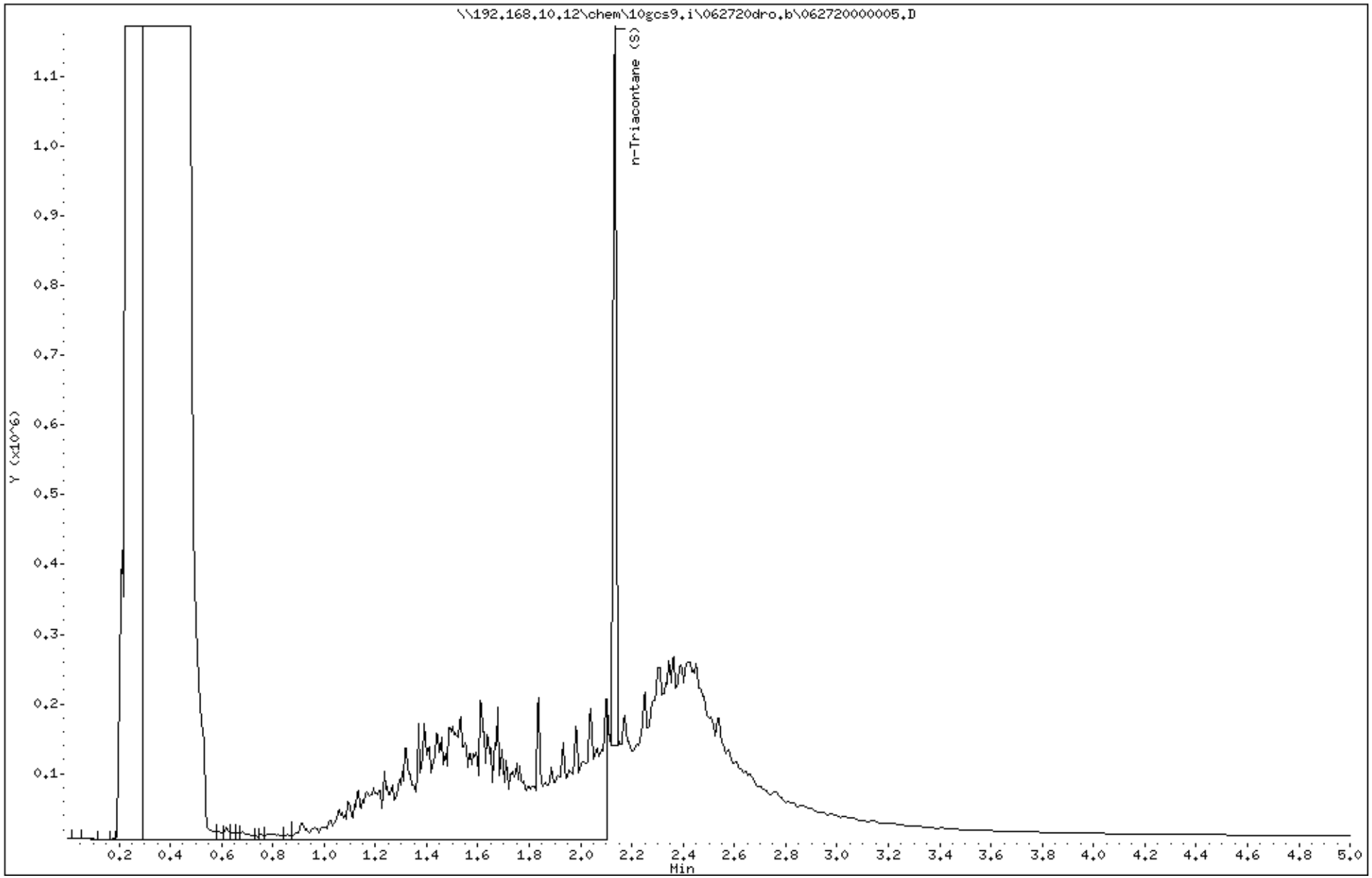
SEE EXCEPTION FORM Y N

FECAL WAIVER ON FILE Y N TEMPERATURE WAIVER ON FILE Y N

Project Manager Review: _____ Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Data File: \\192.168.10.12\chem\10gcs9.i\062720dro.b\062720000005.D
Date : 27-JUN-2020 14:59
Client ID: ASB-9C (4-4.5)
Instrument: 10gcs9.i
Sample Info: 10522687009
Volume Injected (uL): 1.0
Operator: JVM
Column phase: DB-5-US20180032
Column diameter: 0.32



Synergistic Pesticide Laboratory LLC
2700B N. Hayden Island Dr.
Portland, OR 97217
Lab: 503-641-0500
Fax: 503-954-3073
info@synpestlab.com

Client Name: Pace Analytical Minnesota
Client Address: 1700 Elm Street, Ste 200
Minneapolis, MN 55414
Client Phone: 612-709-5046

Date: 7/4/20
SPL Project #: 20 031
Client Project #: 10522687

SAMPLE RESULTS:

SPL ID: **20 031-01**
Sample ID: 10522687002 (ASB-11C (2-2.5))
Matrix: SOIL
Method: **Chlorothalonil, Iprodione & Propiconazole Analysis (QuEChERS 15662, EPA 8321B, EPA 8270E)**
Units: ppm (µg/g)

Date Sampled: 6/23/20
Date Received: 6/26/20
Date Extracted: 7/2/20
Date Analyzed: 7/2-7/3/20

Analyte	Class	Result	RL
Chlorothalonil	F	nd	0.05
Iprodione	F	nd	0.10
Propiconazole	F	nd	0.05
Decachlorobiphenyl (Surrogate)	---	97%	---
Fenbuconazole (Surrogate)	---	103%	---

SPL ID: **20 031-02**
Sample ID: 10522687005 (ASB-5C (2-2.5))
Matrix: SOIL
Method: **Chlorothalonil, Iprodione & Propiconazole Analysis (QuEChERS 15662, EPA 8321B, EPA 8270E)**
Units: ppm (µg/g)

Date Sampled: 6/23/20
Date Received: 6/26/20
Date Extracted: 7/2/20
Date Analyzed: 7/2-7/3/20

Analyte	Class	Result	RL
Chlorothalonil	F	nd	0.05
Iprodione	F	nd	0.10
Propiconazole	F	nd	0.05
Decachlorobiphenyl (Surrogate)	---	112%	---
Fenbuconazole (Surrogate)	---	104%	---

SPL ID: **20 031-03**
Sample ID: 10522687008 (ASB-9C (2-2.5))
Matrix: SOIL
Method: **Chlorothalonil, Iprodione & Propiconazole Analysis (QuEChERS 15662, EPA 8321B, EPA 8270E)**
Units: ppm (µg/g)

Date Sampled: 6/23/20
Date Received: 6/26/20
Date Extracted: 7/2/20
Date Analyzed: 7/2-7/3/20

Analyte	Class	Result	RL
Chlorothalonil	F	nd	0.05
Iprodione	F	nd	0.10
Propiconazole	F	nd	0.05
Decachlorobiphenyl (Surrogate)	---	96%	---
Fenbuconazole (Surrogate)	---	104%	---

Synergistic Pesticide Laboratory LLC
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Portland, OR 97217
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Fax: 503-954-3073
info@synpestlab.com

Client Name:	Pace Analytical Minnesota	**Date:**	7/4/20
Client Address:	1700 Elm Street, Ste 200	**SPL Project #:**	20 031
	Minneapolis, MN 55414	**Client Project #:**	10522687
Client Phone:	612-709-5046		

SAMPLE RESULTS:

SPL ID:	**20 031-04**	**Date Sampled:**	6/23/20
Sample ID:	10522687011 (ASB-12C (2-2.5))	**Date Received:**	6/26/20
Matrix:	SOIL		
Method:	**Chlorothalonil, Iprodione & Propiconazole Analysis (QuEChERS 15662, EPA 8321B, EPA 8270E)**	**Date Extracted:**	7/2/20
Units:	ppm (µg/g)	**Date Analyzed:**	7/2-7/3/20

Analyte	Class	Result	RL
Chlorothalonil	F	nd	0.05
Iprodione	F	nd	0.10
Propiconazole	F	nd	0.05
Decachlorobiphenyl (Surrogate)	---	105%	---
Fenbuconazole (Surrogate)	---	106%	---

Synergistic Pesticide Laboratory LLC
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Client Name: Pace Analytical Minnesota
Client Address: 1700 Elm Street, Ste 200
Minneapolis, MN 55414
Client Phone: 612-709-5046

Date: 7/4/20
SPL Project #: 20 031
Client Project #: 10522687

QUALITY CONTROL RESULTS:

Method: **Chlorothalonil, Iprodione & Propiconazole Analysis (QuEChERS 15662, EPA 8321B, EPA 8270E)**
Units: ppm (µg/g)
Matrix: SOIL

Date Extracted: 7/2/20
Date Analyzed: 7/2-7/3/20

20 046 MB

Analyte	Amt Spiked	Result	Percent Recovery
Chlorothalonil	---	nd	---
Iprodione	---	nd	---
Propiconazole	---	nd	---
Decachlorobiphenyl (Surrogate)	0.1	0.107	107%
Fenbuconazole (Surrogate)	0.1	0.099	99%

20 046 LCS

Analyte	Amt Spiked	Result	Percent Recovery
Chlorothalonil	1.0	1.85	185%
Iprodione	2.0	1.88	94%
Propiconazole	1.0	0.961	96%
Decachlorobiphenyl (Surrogate)	0.1	0.111	111%
Fenbuconazole (Surrogate)	0.1	0.097	97%

20 030-01 MS

Analyte	Amt Spiked	Result	Percent Recovery
Chlorothalonil	0.5	0.696	139%
Iprodione	1.0	0.992	100%
Propiconazole	0.5	0.494	99%
Decachlorobiphenyl (Surrogate)	0.1	0.057	57%
Fenbuconazole (Surrogate)	0.1	0.100	100%

20 030-01 MSD

Analyte	Amt Spiked	Result	Percent Recovery
Chlorothalonil	0.5	0.945	189%
Iprodione	1.0	0.993	99%
Propiconazole	0.5	0.499	100%
Decachlorobiphenyl (Surrogate)	0.1	0.048	48%
Fenbuconazole (Surrogate)	0.1	0.097	97%

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Client Name:	Pace Analytical Minnesota	**Date:**	7/4/20
Client Address:	1700 Elm Street, Ste 200	**SPL Project #:**	20 031
	Minneapolis, MN 55414	**Client Project #:**	10522687
Client Phone:	612-709-5046		

Report Specific Notes

1) Recoveries for chlorothalonil in matrix are outside the arbitraty acceptance limits of 70-130%. However, recoveries are within the UCL of 196% based on method validation for this soil extraction and analytical method conducted on 5/14/20 (x = 130%, n=8). Continuing Calibration Verification (CCV) samples were high throughout the run indicating an elevated sensitivity and thus increased confidence in non detections of chlorothalonil in samples.

Laboratory Report Definitions

F – Fungicide
LCL – Lower Control Limit – acceptance criteria based on the mean minus three times the standard deviation of a data set
LCS – Laboratory Control Sample – prepared from analyte free water or sand and spiked with known amount of analytes for the purpose of measuring the effect of the reagents used in extraction or analysis
LCSD – Laboratory Control Sample Duplicate
MS – Matrix Spike – prepared from additional sample and spiked with known amount of analytes for the purpose of measuring the effect of the sample matrix on analysis
MSD – Matrix Spike Duplicate
MB – Method Blank – shows any interference in extraction method
nd – non detect – substance not found above the reporting limit
ppb – parts per billion
ppm – parts per million
RL – Reporting Limit – the minimum amount of a substance that can be reported with confidence
UCL – Upper Control Limit – acceptance criteria based on the mean plus three times the standard deviation of a data set

Results provided relate to submitted samples only. Unless otherwise noted, samples were received in good condition and all Quality Control samples met acceptance criteria. Quality Control data is available upon request. This report shall not be reproduced, except in full, without the permission of Synergistic Pesticide Laboratory, LLC.

Authorized by:_____ Date: 7/4/2020

Camille Holladay
Lab Director

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

July 07, 2020

Bob Michels
Pace Analytical
1700 Elm Street, Suite 200
Minneapolis, MN 55414

RE: B1903316.00 Hillcrest

Enclosed are the analytical results for the samples received by the laboratory on 06/26/2020.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. These results are in compliance with the 2009 NELAC Standards and the appropriate agencies listed below, unless otherwise noted in the case narrative. This analytical report should be reproduced in its entirety.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Molly Palzkill

Project Manager

Certification List			Expires
DODELAP	DOD ELAP Accreditation (A2LA)	3269.01	03/31/2021
ILEPA	Illinois Secondary NELAP Accreditation	004366	04/30/2021
KDHE	Kansas Secondary NELAP Accreditation	E-10384	04/30/2021
LELAP	Louisiana Primary NELAP Accreditation	04165	06/30/2021
NJDEP	New Jersey Secondary NELAP Accreditation	WI004	06/30/2021
TCEQ	Texas Secondary NELAP Accreditation	T104704504-16-7	11/30/2020
WDNR	Wisconsin Certification under NR 149	113289110	08/31/2020

Pace Analytical
ENVIRONMENTAL SCIENCES
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Pace Analytical
1700 Elm Street, Suite 200
Minneapolis MN, 55414

Project: B1903316.00 Hillcrest
Project Number: 10522687
Project Manager: Bob Michels

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ASB-11C (2-2.5) (10522687002)	A202617-01	Soil	06/23/2020	06/26/2020
ASB-5C (2-2.5) (10522687005)	A202617-02	Soil	06/23/2020	06/26/2020
ASB-9C (2-2.5) (10522687008)	A202617-03	Soil	06/23/2020	06/26/2020
ASB-12C (2-2.5) (10522687011)	A202617-04	Soil	06/23/2020	06/26/2020

CASE NARRATIVE

Sample Receipt Information:
Four samples were received on 06/26/2020. Samples were received in acceptable condition.

Please see the chain of custody (COC) document at the end of this report for additional information.

Pace Analytical
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Pace Analytical	Project: B1903316.00 Hillcrest
1700 Elm Street, Suite 200	Project Number: 10522687
Minneapolis MN, 55414	Project Manager: Bob Michels

ASB-11C (2-2.5) (10522687002)

A202617-01 (Soil)

Date Sampled
06/23/2020 09:14

Pace Analytical - Madison

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pesticides by LCMSMS						**Preparation Batch: A006200**		
2,4-D	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 00:56	EPA 8321B	
2,4-DB	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 00:56	EPA 8321B	
2,4,5-T	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 00:56	EPA 8321B	
2,4,5-TP (Silvex)	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 00:56	EPA 8321B	
Bentazon	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 00:56	EPA 8321B	
Dicamba	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 00:56	EPA 8321B	
MCPA	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 00:56	EPA 8321B	
Picloram	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 00:56	EPA 8321B	
Triclopyr	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 00:56	EPA 8321B	
Surrogate: 2,4-D-d5		*86.1 %*		*60-140*	*06/29/2020*	*06/30/2020 00:56*	*EPA 8321B*	
Surrogate: DCAA		*80.8 %*		*60-140*	*06/29/2020*	*06/30/2020 00:56*	*EPA 8321B*	
Classical Chemistry Parameters						**Preparation Batch: A007114**		
% Solids	**72.5**	0.00	% by Weight	1	07/02/2020	07/06/2020 12:19	SM 2540B	

Pace Analytical
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Pace Analytical	Project: B1903316.00 Hillcrest
1700 Elm Street, Suite 200	Project Number: 10522687
Minneapolis MN, 55414	Project Manager: Bob Michels

ASB-5C (2-2.5) (10522687005)

A202617-02 (Soil)

Date Sampled
06/23/2020 10:10

Pace Analytical - Madison

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pesticides by LCMSMS						**Preparation Batch: A006200**		
2,4-D	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 02:08	EPA 8321B	
2,4-DB	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 02:08	EPA 8321B	
2,4,5-T	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 02:08	EPA 8321B	
2,4,5-TP (Silvex)	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 02:08	EPA 8321B	
Bentazon	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 02:08	EPA 8321B	
Dicamba	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 02:08	EPA 8321B	
MCPA	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 02:08	EPA 8321B	
Picloram	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 02:08	EPA 8321B	
Triclopyr	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 02:08	EPA 8321B	
Surrogate: 2,4-D-d5		*99.1 %*		*60-140*	*06/29/2020*	*06/30/2020 02:08*	*EPA 8321B*	
Surrogate: DCAA		*95.7 %*		*60-140*	*06/29/2020*	*06/30/2020 02:08*	*EPA 8321B*	
Classical Chemistry Parameters						**Preparation Batch: A007114**		
% Solids	**83.5**	0.00	% by Weight	1	07/02/2020	07/06/2020 12:19	SM 2540B	

Pace Analytical
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Pace Analytical	Project: B1903316.00 Hillcrest
1700 Elm Street, Suite 200	Project Number: 10522687
Minneapolis MN, 55414	Project Manager: Bob Michels

ASB-9C (2-2.5) (10522687008)

A202617-03 (Soil)

Date Sampled
06/23/2020 11:20

Pace Analytical - Madison

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pesticides by LCMSMS						**Preparation Batch: A006200**		
2,4-D	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 02:26	EPA 8321B	
2,4-DB	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 02:26	EPA 8321B	
2,4,5-T	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 02:26	EPA 8321B	
2,4,5-TP (Silvex)	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 02:26	EPA 8321B	
Bentazon	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 02:26	EPA 8321B	
Dicamba	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 02:26	EPA 8321B	
MCPA	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 02:26	EPA 8321B	
Picloram	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 02:26	EPA 8321B	
Triclopyr	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 02:26	EPA 8321B	
Surrogate: 2,4-D-d5		*101 %*		*60-140*	*06/29/2020*	*06/30/2020 02:26*	*EPA 8321B*	
Surrogate: DCAA		*99.1 %*		*60-140*	*06/29/2020*	*06/30/2020 02:26*	*EPA 8321B*	
Classical Chemistry Parameters						**Preparation Batch: A007114**		
% Solids	**81.4**	0.00	% by Weight	1	07/02/2020	07/06/2020 12:19	SM 2540B	

Pace Analytical
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Pace Analytical	Project: B1903316.00 Hillcrest
1700 Elm Street, Suite 200	Project Number: 10522687
Minneapolis MN, 55414	Project Manager: Bob Michels

ASB-12C (2-2.5) (10522687011)

A202617-04 (Soil)

Date Sampled
06/23/2020 12:05

Pace Analytical - Madison

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pesticides by LCMSMS						**Preparation Batch: A006200**		
2,4-D	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 02:44	EPA 8321B	
2,4-DB	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 02:44	EPA 8321B	
2,4,5-T	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 02:44	EPA 8321B	
2,4,5-TP (Silvex)	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 02:44	EPA 8321B	
Bentazon	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 02:44	EPA 8321B	
Dicamba	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 02:44	EPA 8321B	
MCPA	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 02:44	EPA 8321B	
Picloram	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 02:44	EPA 8321B	
Triclopyr	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 02:44	EPA 8321B	
Surrogate: 2,4-D-d5		*104 %*		*60-140*	*06/29/2020*	*06/30/2020 02:44*	*EPA 8321B*	
Surrogate: DCAA		*97.1 %*		*60-140*	*06/29/2020*	*06/30/2020 02:44*	*EPA 8321B*	
Classical Chemistry Parameters						**Preparation Batch: A007114**		
% Solids	**88.5**	0.00	% by Weight	1	07/02/2020	07/06/2020 12:19	SM 2540B	

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Pace Analytical
1700 Elm Street, Suite 200
Minneapolis MN, 55414

Project: B1903316.00 Hillcrest
Project Number: 10522687
Project Manager: Bob Michels

Pesticides by LCMSMS - Quality Control

Pace Analytical - Madison

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A006200 - EPA 3570										
Blank (A006200-BLK1)				Prepared: 06/29/2020 Analyzed: 06/29/2020 20:10						
2,4-D	ND	0.10	mg/kg wet							
2,4-DB	ND	0.10	mg/kg wet							
2,4,5-T	ND	0.10	mg/kg wet							
2,4,5-TP (Silvex)	ND	0.10	mg/kg wet							
Bentazon	ND	0.10	mg/kg wet							
Dicamba	ND	0.10	mg/kg wet							
MCPA	ND	0.10	mg/kg wet							
Picloram	ND	0.10	mg/kg wet							
Triclopyr	ND	0.10	mg/kg wet							
Surrogate: 2,4-D-d5	*0.819*		*mg/kg wet*	*0.8106*		*101*	*60-140*			
Surrogate: DCAA	*1.72*		*mg/kg wet*	*1.620*		*106*	*60-140*			
LCS (A006200-BS1)				Prepared: 06/29/2020 Analyzed: 06/29/2020 20:28						
2,4-D	0.772	0.020	mg/kg wet	0.8100		95.3	60-140			
2,4-DB	0.775	0.020	mg/kg wet	0.8100		95.7	60-140			
2,4,5-T	0.817	0.020	mg/kg wet	0.8100		101	60-140			
2,4,5-TP (Silvex)	0.816	0.020	mg/kg wet	0.8100		101	60-140			
Bentazon	0.393	0.020	mg/kg wet	0.4050		96.9	60-140			
Dicamba	1.55	0.050	mg/kg wet	1.620		95.7	60-140			
MCPA	0.805	0.020	mg/kg wet	0.8100		99.4	60-140			
Picloram	1.60	0.050	mg/kg wet	1.620		98.7	60-140			
Triclopyr	0.770	0.020	mg/kg wet	0.8100		95.1	60-140			
Surrogate: 2,4-D-d5	*0.852*		*mg/kg wet*	*0.8106*		*105*	*60-140*			
Surrogate: DCAA	*1.63*		*mg/kg wet*	*1.620*		*101*	*60-140*			
Matrix Spike (A006200-MS1)		**Source: A202610-01**		Prepared: 06/29/2020 Analyzed: 06/29/2020 20:46						
2,4-D	0.868	0.023	mg/kg dry	0.9393	ND	92.4	60-140			
2,4-DB	0.900	0.023	mg/kg dry	0.9393	ND	95.9	60-140			
2,4,5-T	0.980	0.023	mg/kg dry	0.9393	ND	104	60-140			
2,4,5-TP (Silvex)	0.953	0.023	mg/kg dry	0.9393	ND	101	60-140			
Bentazon	0.394	0.023	mg/kg dry	0.4696	ND	84.0	60-140			
Dicamba	1.79	0.058	mg/kg dry	1.879	ND	95.2	60-140			
MCPA	1.00	0.023	mg/kg dry	0.9393	ND	107	60-140			
Picloram	1.84	0.058	mg/kg dry	1.879	ND	98.2	60-140			
Triclopyr	0.945	0.023	mg/kg dry	0.9393	ND	101	60-140			
Surrogate: 2,4-D-d5	*0.964*		*mg/kg dry*	*0.9400*		*103*	*60-140*			
Surrogate: DCAA	*2.07*		*mg/kg dry*	*1.879*		*110*	*60-140*			
Matrix Spike Dup (A006200-MSD1)		**Source: A202610-01**		Prepared: 06/29/2020 Analyzed: 06/29/2020 21:03						
2,4-D	0.909	0.023	mg/kg dry	0.9393	ND	96.8	60-140	4.64	20	
2,4-DB	1.07	0.023	mg/kg dry	0.9393	ND	114	60-140	17.3	20	
2,4,5-T	1.01	0.023	mg/kg dry	0.9393	ND	108	60-140	3.25	20	
2,4,5-TP (Silvex)	1.02	0.023	mg/kg dry	0.9393	ND	109	60-140	7.13	20	
Bentazon	0.411	0.023	mg/kg dry	0.4696	ND	87.5	60-140	4.06	20	
Dicamba	2.07	0.058	mg/kg dry	1.879	ND	110	60-140	14.6	20	
MCPA	1.10	0.023	mg/kg dry	0.9393	ND	117	60-140	9.18	20	
Picloram	1.97	0.058	mg/kg dry	1.879	ND	105	60-140	6.83	20	
Triclopyr	1.02	0.023	mg/kg dry	0.9393	ND	108	60-140	7.28	20	

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Pace Analytical	Project: B1903316.00 Hillcrest
1700 Elm Street, Suite 200	Project Number: 10522687
Minneapolis MN, 55414	Project Manager: Bob Michels

Pesticides by LCMSMS - Quality Control

Pace Analytical - Madison

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A006200 - EPA 3570										
Matrix Spike Dup (A006200-MSD1)		**Source: A202610-01**		Prepared: 06/29/2020 Analyzed: 06/29/2020 21:03						
Surrogate: 2,4-D-d5	*0.965*		*mg/kg dry*	*0.9400*		*103*	*60-140*			
Surrogate: DCAA	*1.84*		*mg/kg dry*	*1.879*		*97.7*	*60-140*			

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1700 Elm Street, Suite 200	Project Number: 10522687
Minneapolis MN, 55414	Project Manager: Bob Michels

Classical Chemistry Parameters - Quality Control

Pace Analytical - Madison

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A007114 - % Solids										
Duplicate (A007114-DUP1)		**Source: A202617-01**		Prepared: 07/02/2020 Analyzed: 07/06/2020 12:19						
% Solids	67.5	0.00	% by Weight		72.5			7.14	20	

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1700 Elm Street, Suite 200	Project Number: 10522687
Minneapolis MN, 55414	Project Manager: Bob Michels

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit or limit of detection (if listed).
NR	Not Reported
dry	Sample results reported on a dry weight basis. If the word 'dry' does not appear after the units, results are reported on an as-is basis.
RPD	Relative Percent Difference

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July 31, 2020

Bob Michels
Pace Analytical
1700 Elm Street, Suite 200
Minneapolis, MN 55414

RE: B1903316.00 Hillcrest

Enclosed are the analytical results for the samples received by the laboratory on 07/23/2020.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. These results are in compliance with the 2009 NELAC Standards and the appropriate agencies listed below, unless otherwise noted in the case narrative. This analytical report should be reproduced in its entirety.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Molly Palzkill

Project Manager

Certification List			Expires
DODELAP	DOD ELAP Accreditation (A2LA)	3269.01	03/31/2021
ILEPA	Illinois Secondary NELAP Accreditation	004366	04/30/2021
KDHE	Kansas Secondary NELAP Accreditation	E-10384	04/30/2021
LELAP	Louisiana Primary NELAP Accreditation	04165	06/30/2021
NJDEP	New Jersey Secondary NELAP Accreditation	WI004	06/30/2021
TCEQ	Texas Secondary NELAP Accreditation	T104704504-16-7	11/30/2020
WDNR	Wisconsin Certification under NR 149	113289110	08/31/2020

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Pace Analytical
1700 Elm Street, Suite 200
Minneapolis MN, 55414

Project: B1903316.00 Hillcrest
Project Number: 10522687
Project Manager: Bob Michels

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ASB-11C (0-0.5) (10522687001)	A203013-01	Soil	06/23/2020	07/23/2020
ASB-5C (0-0.5) (10522687004)	A203013-02	Soil	06/23/2020	07/23/2020
ASB-9C (0-0.5) (10522687007)	A203013-03	Soil	06/23/2020	07/23/2020
ASB-12C (0-0.5) (10522687010)	A203013-04	Soil	06/23/2020	07/23/2020

CASE NARRATIVE

Sample Receipt Information:
Four samples were received on 07/23/2020. Samples were received in acceptable condition.

Samples were received past recommended hold time. Client was notified and instructed the lab to proceed with the analysis.

Please see the chain of custody (COC) document at the end of this report for additional information.

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Minneapolis MN, 55414	Project Manager: Bob Michels

ASB-11C (0-0.5) (10522687001)

A203013-01 (Soil)

Date Sampled
06/23/2020 09:21

Pace Analytical - Madison

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pesticides by LCMSMS					**Preparation Batch: A007184**			**H**
2,4-D	ND	0.10	mg/kg dry	1	07/27/2020	07/27/2020 23:32	EPA 8321B	
2,4-DB	ND	0.10	mg/kg dry	1	07/27/2020	07/27/2020 23:32	EPA 8321B	
2,4,5-T	ND	0.10	mg/kg dry	1	07/27/2020	07/27/2020 23:32	EPA 8321B	
2,4,5-TP (Silvex)	ND	0.10	mg/kg dry	1	07/27/2020	07/27/2020 23:32	EPA 8321B	
Bentazon	ND	0.10	mg/kg dry	1	07/27/2020	07/27/2020 23:32	EPA 8321B	
Dicamba	ND	0.10	mg/kg dry	1	07/27/2020	07/27/2020 23:32	EPA 8321B	
MCPA	ND	0.10	mg/kg dry	1	07/27/2020	07/27/2020 23:32	EPA 8321B	
Picloram	ND	0.10	mg/kg dry	1	07/27/2020	07/27/2020 23:32	EPA 8321B	
Triclopyr	ND	0.10	mg/kg dry	1	07/27/2020	07/27/2020 23:32	EPA 8321B	
Surrogate: 2,4-D-d5		*93.3 %*		*60-140*	*07/27/2020*	*07/27/2020 23:32*	*EPA 8321B*	
Surrogate: DCAA		*90.6 %*		*60-140*	*07/27/2020*	*07/27/2020 23:32*	*EPA 8321B*	
Classical Chemistry Parameters					**Preparation Batch: A007182**			
% Solids	**82.9**	0.00	% by Weight	1	07/23/2020	07/27/2020 10:58	SM 2540B	

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Minneapolis MN, 55414	Project Manager: Bob Michels

ASB-5C (0-0.5) (10522687004)

A203013-02 (Soil)

Date Sampled
06/23/2020 10:17

Pace Analytical - Madison

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pesticides by LCMSMS					**Preparation Batch: A007184**			**H**
2,4-D	ND	0.10	mg/kg dry	1	07/27/2020	07/27/2020 23:49	EPA 8321B	
2,4-DB	ND	0.10	mg/kg dry	1	07/27/2020	07/27/2020 23:49	EPA 8321B	
2,4,5-T	ND	0.10	mg/kg dry	1	07/27/2020	07/27/2020 23:49	EPA 8321B	
2,4,5-TP (Silvex)	ND	0.10	mg/kg dry	1	07/27/2020	07/27/2020 23:49	EPA 8321B	
Bentazon	ND	0.10	mg/kg dry	1	07/27/2020	07/27/2020 23:49	EPA 8321B	
Dicamba	ND	0.10	mg/kg dry	1	07/27/2020	07/27/2020 23:49	EPA 8321B	
MCPA	ND	0.10	mg/kg dry	1	07/27/2020	07/27/2020 23:49	EPA 8321B	
Picloram	ND	0.10	mg/kg dry	1	07/27/2020	07/27/2020 23:49	EPA 8321B	
Triclopyr	ND	0.10	mg/kg dry	1	07/27/2020	07/27/2020 23:49	EPA 8321B	
Surrogate: 2,4-D-d5		*96.7 %*		*60-140*	*07/27/2020*	*07/27/2020 23:49*	*EPA 8321B*	
Surrogate: DCAA		*96.4 %*		*60-140*	*07/27/2020*	*07/27/2020 23:49*	*EPA 8321B*	
Classical Chemistry Parameters					**Preparation Batch: A007182**			
% Solids	**87.4**	0.00	% by Weight	1	07/23/2020	07/27/2020 10:58	SM 2540B	

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1700 Elm Street, Suite 200	Project Number: 10522687
Minneapolis MN, 55414	Project Manager: Bob Michels

ASB-9C (0-0.5) (10522687007)

A203013-03 (Soil)

Date Sampled
06/23/2020 11:27

Pace Analytical - Madison

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pesticides by LCMSMS					**Preparation Batch: A007184**			**H**
2,4-D	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 02:13	EPA 8321B	
2,4-DB	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 02:13	EPA 8321B	
2,4,5-T	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 02:13	EPA 8321B	
2,4,5-TP (Silvex)	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 02:13	EPA 8321B	
Bentazon	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 02:13	EPA 8321B	
Dicamba	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 02:13	EPA 8321B	
MCPA	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 02:13	EPA 8321B	
Picloram	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 02:13	EPA 8321B	
Triclopyr	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 02:13	EPA 8321B	
Surrogate: 2,4-D-d5		*101 %*		*60-140*	*07/27/2020*	*07/28/2020 02:13*	*EPA 8321B*	
Surrogate: DCAA		*91.4 %*		*60-140*	*07/27/2020*	*07/28/2020 02:13*	*EPA 8321B*	
Classical Chemistry Parameters					**Preparation Batch: A007182**			
% Solids	**91.8**	0.00	% by Weight	1	07/23/2020	07/27/2020 10:58	SM 2540B	

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ASB-12C (0-0.5) (10522687010)

A203013-04 (Soil)

Date Sampled
06/23/2020 12:30

Pace Analytical - Madison

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pesticides by LCMSMS					**Preparation Batch: A007184**			**H**
2,4-D	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 02:31	EPA 8321B	
2,4-DB	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 02:31	EPA 8321B	
2,4,5-T	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 02:31	EPA 8321B	
2,4,5-TP (Silvex)	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 02:31	EPA 8321B	
Bentazon	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 02:31	EPA 8321B	
Dicamba	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 02:31	EPA 8321B	
MCPA	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 02:31	EPA 8321B	
Picloram	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 02:31	EPA 8321B	
Triclopyr	ND	0.10	mg/kg dry	1	07/27/2020	07/28/2020 02:31	EPA 8321B	
Surrogate: 2,4-D-d5		*97.5 %*		*60-140*	*07/27/2020*	*07/28/2020 02:31*	*EPA 8321B*	
Surrogate: DCAA		*98.7 %*		*60-140*	*07/27/2020*	*07/28/2020 02:31*	*EPA 8321B*	
Classical Chemistry Parameters					**Preparation Batch: A007182**			
% Solids	**89.7**	0.00	% by Weight	1	07/23/2020	07/27/2020 10:58	SM 2540B	

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1700 Elm Street, Suite 200	Project Number: 10522687
Minneapolis MN, 55414	Project Manager: Bob Michels

Pesticides by LCMSMS - Quality Control

Pace Analytical - Madison

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A007184 - EPA 3570										
Blank (A007184-BLK1)				Prepared: 07/27/2020 Analyzed: 07/28/2020 01:01						
2,4-D	ND	0.10	mg/kg wet							
2,4-DB	ND	0.10	mg/kg wet							
2,4,5-T	ND	0.10	mg/kg wet							
2,4,5-TP (Silvex)	ND	0.10	mg/kg wet							
Bentazon	ND	0.10	mg/kg wet							
Dicamba	ND	0.10	mg/kg wet							
MCPA	ND	0.10	mg/kg wet							
Picloram	ND	0.10	mg/kg wet							
Triclopyr	ND	0.10	mg/kg wet							
Surrogate: 2,4-D-d5	*0.765*		*mg/kg wet*	*0.8090*		*94.5*	*60-140*			
Surrogate: DCAA	*1.56*		*mg/kg wet*	*1.617*		*96.4*	*60-140*			
LCS (A007184-BS1)				Prepared: 07/27/2020 Analyzed: 07/28/2020 01:19						
2,4-D	0.807	0.020	mg/kg wet	0.8068		100	60-140			
2,4-DB	0.839	0.020	mg/kg wet	0.8068		104	60-140			
2,4,5-T	0.829	0.020	mg/kg wet	0.8068		103	60-140			
2,4,5-TP (Silvex)	0.850	0.020	mg/kg wet	0.8068		105	60-140			
Bentazon	0.457	0.020	mg/kg wet	0.4034		113	60-140			E
Dicamba	1.60	0.050	mg/kg wet	1.614		99.3	60-140			
MCPA	0.796	0.020	mg/kg wet	0.8068		98.7	60-140			
Picloram	1.44	0.050	mg/kg wet	1.614		89.3	60-140			
Triclopyr	0.849	0.020	mg/kg wet	0.8068		105	60-140			
Surrogate: 2,4-D-d5	*0.747*		*mg/kg wet*	*0.8074*		*92.5*	*60-140*			
Surrogate: DCAA	*1.49*		*mg/kg wet*	*1.614*		*92.4*	*60-140*			
Matrix Spike (A007184-MS1)	**Source: A203013-01**			Prepared: 07/27/2020 Analyzed: 07/28/2020 01:37						
2,4-D	0.910	0.024	mg/kg dry	0.9520	ND	95.6	60-140			
2,4-DB	0.794	0.024	mg/kg dry	0.9520	ND	83.4	60-140			
2,4,5-T	0.856	0.024	mg/kg dry	0.9520	ND	89.9	60-140			
2,4,5-TP (Silvex)	0.976	0.024	mg/kg dry	0.9520	ND	103	60-140			
Bentazon	0.551	0.024	mg/kg dry	0.4760	ND	116	60-140			E
Dicamba	1.92	0.059	mg/kg dry	1.904	ND	101	60-140			
MCPA	0.894	0.024	mg/kg dry	0.9520	ND	93.9	60-140			
Picloram	1.69	0.059	mg/kg dry	1.904	ND	88.8	60-140			
Triclopyr	0.974	0.024	mg/kg dry	0.9520	ND	102	60-140			
Surrogate: 2,4-D-d5	*0.868*		*mg/kg dry*	*0.9527*		*91.1*	*60-140*			
Surrogate: DCAA	*1.74*		*mg/kg dry*	*1.904*		*91.4*	*60-140*			
Matrix Spike Dup (A007184-MSD1)	**Source: A203013-01**			Prepared: 07/27/2020 Analyzed: 07/28/2020 01:55						
2,4-D	0.920	0.024	mg/kg dry	0.9595	ND	95.8	60-140	1.05	20	
2,4-DB	0.730	0.024	mg/kg dry	0.9595	ND	76.1	60-140	8.38	20	
2,4,5-T	0.871	0.024	mg/kg dry	0.9595	ND	90.8	60-140	1.82	20	
2,4,5-TP (Silvex)	0.996	0.024	mg/kg dry	0.9595	ND	104	60-140	2.00	20	
Bentazon	0.574	0.024	mg/kg dry	0.4798	ND	120	60-140	4.12	20	E
Dicamba	1.96	0.059	mg/kg dry	1.919	ND	102	60-140	2.01	20	
MCPA	0.917	0.024	mg/kg dry	0.9595	ND	95.5	60-140	2.47	20	
Picloram	1.74	0.059	mg/kg dry	1.919	ND	90.7	60-140	2.96	20	
Triclopyr	1.02	0.024	mg/kg dry	0.9595	ND	106	60-140	4.22	20	

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Minneapolis MN, 55414	Project Manager: Bob Michels

Pesticides by LCMSMS - Quality Control

Pace Analytical - Madison

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A007184 - EPA 3570										
Matrix Spike Dup (A007184-MSD1)	**Source: A203013-01**			Prepared: 07/27/2020 Analyzed: 07/28/2020 01:55						
Surrogate: 2,4-D-d5	*0.832*		*mg/kg dry*	*0.9602*		*86.7*	*60-140*			
Surrogate: DCAA	*1.63*		*mg/kg dry*	*1.919*		*84.8*	*60-140*			

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Minneapolis MN, 55414	Project Manager: Bob Michels

Classical Chemistry Parameters - Quality Control

Pace Analytical - Madison

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A007182 - % Solids										
Duplicate (A007182-DUP1)		**Source: A203012-01**		Prepared: 07/23/2020 Analyzed: 07/27/2020 10:58						
% Solids	95.0	0.00	% by Weight		95.0			0.00545	20	

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2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

Pace Analytical	Project: B1903316.00 Hillcrest
1700 Elm Street, Suite 200	Project Number: 10522687
Minneapolis MN, 55414	Project Manager: Bob Michels

Notes and Definitions

H	The sample was held beyond the accepted holding time.
E	The concentration indicated is above the instrument calibration range. This value is an estimated concentration.
ND	Analyte NOT DETECTED at or above the reporting limit or limit of detection (if listed).
NR	Not Reported
dry	Sample results reported on a dry weight basis. Detection limits (if listed) and reporting limits have been adjusted for the solids content. If the word 'dry' does not appear after the units, results are reported on an as-is basis.
RPD	Relative Percent Difference

Detection limits (if listed) and reporting limits have been adjusted for dilutions, if reported.

Synergistic Pesticide Laboratory LLC
2700B N. Hayden Island Dr.
Portland, OR 97217
Lab: 503-641-0500
Fax: 503-954-3073
info@synpestlab.com

Client Name: Pace Analytical Minnesota
Client Address: 1700 Elm Street, Ste 200
Minneapolis, MN 55414
Client Phone: 612-709-5046

Date: 8/7/20
SPL Project #: 20 057
Client Project #: 10522687

SAMPLE RESULTS:

SPL ID: **20 057-01**
Sample ID: 10522687001 (ASB-11C (0-0.05))
Matrix: SOIL
Method: **Chlorothalonil, Iprodione & Propiconazole Analysis (QuEChERS 15662, EPA 8321B, EPA 8270E)**
Units: ppm (µg/g)

Date Sampled: 6/23/20
Date Received: 7/23/20
Date Extracted: 8/5/20
Date Analyzed: 8/5/20

Analyte	Class	Result	RL
Chlorothalonil	F	nd	0.05
Iprodione	F	nd	0.10
Propiconazole	F	nd	0.05
Decachlorobiphenyl (Surrogate)	---	94%	---
Fenbuconazole (Surrogate)	---	95%	---

SPL ID: **20 057-02**
Sample ID: 10522687004 (ASB-5C (0-0.05))
Matrix: SOIL
Method: **Chlorothalonil, Iprodione & Propiconazole Analysis (QuEChERS 15662, EPA 8321B, EPA 8270E)**
Units: ppm (µg/g)

Date Sampled: 6/23/20
Date Received: 7/23/20
Date Extracted: 8/5/20
Date Analyzed: 8/5/20

Analyte	Class	Result	RL
Chlorothalonil	F	nd	0.05
Iprodione	F	nd	0.10
Propiconazole	F	nd	0.05
Decachlorobiphenyl (Surrogate)	---	113%	---
Fenbuconazole (Surrogate)	---	97%	---

SPL ID: **20 057-03**
Sample ID: 10522687007 (ASB-9C (0-0.05))
Matrix: SOIL
Method: **Chlorothalonil, Iprodione & Propiconazole Analysis (QuEChERS 15662, EPA 8321B, EPA 8270E)**
Units: ppm (µg/g)

Date Sampled: 6/23/20
Date Received: 7/23/20
Date Extracted: 8/5/20
Date Analyzed: 8/5/20

Analyte	Class	Result	RL
Chlorothalonil	F	nd	0.05
Iprodione	F	nd	0.10
Propiconazole	F	nd	0.05
Decachlorobiphenyl (Surrogate)	---	99%	---
Fenbuconazole (Surrogate)	---	94%	---

Synergistic Pesticide Laboratory LLC
2700B N. Hayden Island Dr.
Portland, OR 97217
Lab: 503-641-0500
Fax: 503-954-3073
info@synpestlab.com

Client Name:	Pace Analytical Minnesota	**Date:**	8/7/20
Client Address:	1700 Elm Street, Ste 200	**SPL Project #:**	20 057
	Minneapolis, MN 55414	**Client Project #:**	10522687
Client Phone:	612-709-5046		

SAMPLE RESULTS:

SPL ID:	**20 057-04**	**Date Sampled:**	6/23/20
Sample ID:	10522687010 (ASB-12C (0-0.05))	**Date Received:**	7/23/20
Matrix:	SOIL		
Method:	**Chlorothalonil, Iprodione & Propiconazole Analysis (QuEChERS 15662, EPA 8321B, EPA 8270E)**	**Date Extracted:**	8/5/20
Units:	ppm (µg/g)	**Date Analyzed:**	8/5/20

Analyte	Class	Result	RL
Chlorothalonil	F	nd	0.05
Iprodione	F	nd	0.10
Propiconazole	F	nd	0.05
Decachlorobiphenyl (Surrogate)	---	91%	---
Fenbuconazole (Surrogate)	---	96%	---

Synergistic Pesticide Laboratory LLC
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Portland, OR 97217
Lab: 503-641-0500
Fax: 503-954-3073
info@synpestlab.com

Client Name: Pace Analytical Minnesota
Client Address: 1700 Elm Street, Ste 200
Minneapolis, MN 55414
Client Phone: 612-709-5046

Date: 8/7/20
SPL Project #: 20 057
Client Project #: 10522687

QUALITY CONTROL RESULTS:

Method: **Chlorothalonil, Iprodione & Propiconazole Analysis (QuEChERS 15662, EPA 8321B, EPA 8270E)**
Units: ppm (µg/g)
Matrix: SOIL

Date Extracted: 8/5/20
Date Analyzed: 8/5/20

20 063 MB

Analyte	Amt Spiked	Result	Percent Recovery
Chlorothalonil	---	nd	---
Iprodione	---	nd	---
Propiconazole	---	nd	---
Decachlorobiphenyl (Surrogate)	0.05	0.049	99%
Fenbuconazole (Surrogate)	0.05	0.049	97%

20 063 LCS

Analyte	Amt Spiked	Result	Percent Recovery
Chlorothalonil	0.5	0.929	186%
Iprodione	1.0	0.899	90%
Propiconazole	0.5	0.447	89%
Decachlorobiphenyl (Surrogate)	0.05	0.055	109%
Fenbuconazole (Surrogate)	0.05	0.045	91%

20 056-01 MS

Analyte	Amt Spiked	Result	Percent Recovery
Chlorothalonil	0.5	0.936	187%
Iprodione	1.0	0.893	89%
Propiconazole	0.5	0.452	90%
Decachlorobiphenyl (Surrogate)	0.05	0.055	110%
Fenbuconazole (Surrogate)	0.05	0.046	93%

20 056-01 MSD

Analyte	Amt Spiked	Result	Percent Recovery
Chlorothalonil	0.5	0.856	171%
Iprodione	1.0	0.918	92%
Propiconazole	0.5	0.458	92%
Decachlorobiphenyl (Surrogate)	0.05	0.046	92%
Fenbuconazole (Surrogate)	0.05	0.047	95%

Synergistic Pesticide Laboratory LLC
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Fax: 503-954-3073
info@synpestlab.com

Client Name:	Pace Analytical Minnesota	**Date:**	8/7/20
Client Address:	1700 Elm Street, Ste 200	**SPL Project #:**	20 057
	Minneapolis, MN 55414	**Client Project #:**	10522687
Client Phone:	612-709-5046		

Report Specific Notes

1) All samples were received, extracted and analyzed out of EPA hold time of 14 days for semivolatile analytes in soil.
2) Recoveries for chlorothalonil are outside the arbitraty acceptance limits of 70-130%. However, recoveries are within the UCL of 196% based on method validation for this soil extraction and analytical method conducted on 5/14/20 (x = 130%, n=8). Continuing Calibration Verification (CCV) samples were acceptable throughout the run.

Laboratory Report Definitions

F – Fungicide
LCL – Lower Control Limit – acceptance criteria based on the mean minus three times the standard deviation of a data set
LCS – Laboratory Control Sample – prepared from analyte free water or sand and spiked with known amount of analytes for the purpose of measuring the effect of the reagents used in extraction or analysis
LCSD – Laboratory Control Sample Duplicate
MS – Matrix Spike – prepared from additional sample and spiked with known amount of analytes for the purpose of measuring the effect of the sample matrix on analysis
MSD – Matrix Spike Duplicate
MB – Method Blank – shows any interference in extraction method
nd – non detect – substance not found above the reporting limit
ppb – parts per billion
ppm – parts per million
RL – Reporting Limit – the minimum amount of a substance that can be reported with confidence
UCL – Upper Control Limit – acceptance criteria based on the mean plus three times the standard deviation of a data set

Results provided relate to submitted samples only. Unless otherwise noted, samples were received in good condition and all Quality Control samples met acceptance criteria. Quality Control data is available upon request. This report shall not be reproduced, except in full, without the permission of Synergistic Pesticide Laboratory, LLC.

Authorized by:_____ Date: 8/7/2020

Camille Holladay
Lab Director

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

July 08, 2020

Mark Keefer
Braun Intertec
11001 Hampshire Ave S
Bloomington, MN 55438

RE: Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Dear Mark Keefer:

Enclosed are the analytical results for sample(s) received by the laboratory on June 25, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses were subcontracted outside of the Pace Network. The test report from the external subcontractor is attached to this report in its entirety.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet
- Pace Analytical Services - Duluth
- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bob Michels
bob.michels@pacelabs.com
(612)709-5046
Project Manager

Enclosures

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Pace Analytical Services, LLC
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(612)607-1700

CERTIFICATIONS

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Pace Analytical Services - Minneapolis MN

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

Pace Analytical Services Duluth Minnesota

4730 Oneota St., Duluth, MN 55807
Minnesota Dept of Ag Certification #: Via MN Dept of Health 027-137-152
Montana DHHS Certification #: CERT0102
Minnesota Dept of Health Certification #: 1733125
Wisconsin Dept of Agriculture Certification #: 480341
Wisconsin DNR Certification # : 999446800
North Dakota Certification #: R-105
Nevada DCNR Certification #: MN000372019-1

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Pace Analytical Services National

Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05
Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Virginia Certification #: VT2006
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 9980939910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

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Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10522854001	**SB-1 (0.5-1.5)**	Solid	06/24/20 12:01	06/25/20 11:05
10522854002	**SB-2 (0.5-1)**	Solid	06/24/20 10:45	06/25/20 11:05
10522854003	**SB-3 (6.5-7)**	Solid	06/24/20 09:47	06/25/20 11:05
10522854004	**SB-4 (4"-10")**	Solid	06/24/20 08:57	06/25/20 11:05
10522854005	**TT-1 (2'-4')**	Solid	06/24/20 16:30	06/25/20 11:05
10522854006	**TT-1 Hotspot (2-4)**	Solid	06/24/20 16:15	06/25/20 11:05
10522854007	**TT-2 (2-3')**	Solid	06/24/20 14:45	06/25/20 11:05
10522854008	**TT-3 (1-2)**	Solid	06/24/20 14:14	06/25/20 11:05
10522854009	**MeOH Trip Blank**	Solid	06/24/20 00:00	06/25/20 11:05

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(612)607-1700

SAMPLE ANALYTE COUNT

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10522854001	**SB-1 (0.5-1.5)**	EPA 351.2	BT1	1	PASI-DUL
		EPA 353.2	AXP	1	PASI-DUL
		WI MOD DRO	JVM	2	PASI-M
		WI MOD GRO	LPM	2	PASI-M
		EPA 6010D	IP	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8260D	JHH	71	PAN
		SM 2540G	KBC	1	PAN
10522854002	**SB-2 (0.5-1)**	WI MOD DRO	JVM	2	PASI-M
		WI MOD GRO	LPM	2	PASI-M
		EPA 6010D	IP	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8260D	JHH	71	PAN
		SM 2540G	KBC	1	PAN
10522854003	**SB-3 (6.5-7)**	WI MOD DRO	JVM	2	PASI-M
		WI MOD GRO	LPM	2	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	JZ	19	PASI-M
		EPA 8260D	JHH	71	PAN
		SM 2540G	KBC	1	PAN
10522854004	**SB-4 (4"-10")**	WI MOD DRO	JVM	2	PASI-M
		WI MOD GRO	LPM	2	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8260D	JHH	71	PAN
		SM 2540G	KBC	1	PAN
10522854005	**TT-1 (2'-4')**	WI MOD DRO	JVM	2	PASI-M
		WI MOD GRO	LPM	2	PASI-M
		EPA 6010D	IP	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	JZ	19	PASI-M
		EPA 8260D	JHH	71	PAN
		SM 2540G	KBC	1	PAN
10522854006	**TT-1 Hotspot (2-4)**	WI MOD DRO	JVM	2	PASI-M
		WI MOD GRO	LPM	2	PASI-M

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Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010D	IP	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	JZ	19	PASI-M
		EPA 8260D	JHH	71	PAN
		SM 2540G	KBC	1	PAN
10522854007	**TT-2 (2-3')**	EPA 6010D	IP	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	JZ	19	PASI-M
		EPA 8260D	JHH	71	PAN
		SM 2540G	KDW	1	PAN
10522854008	**TT-3 (1-2)**	EPA 6010D	IP	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	JZ	19	PASI-M
		EPA 8260D	JHH	71	PAN
		SM 2540G	KDW	1	PAN
10522854009	**MeOH Trip Blank**	WI MOD GRO	LPM	2	PASI-M
		EPA 8260D	ADM	71	PAN

PAN = Pace National - Mt. Juliet
PASI-DUL = Pace Analytical Services - Duluth
PASI-M = Pace Analytical Services - Minneapolis

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SUMMARY OF DETECTION

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10522854001	**SB-1 (0.5-1.5)**					
EPA 351.2	Nitrogen, Kjeldahl, Total	124	mg/kg	54.7	07/02/20 12:33	
EPA 353.2	Nitrogen, NO2 plus NO3	0.30	mg/kg	0.22	06/30/20 12:31	N2
EPA 6010D	Arsenic	3.2	mg/kg	1.1	06/29/20 17:54	
EPA 6010D	Barium	37.7	mg/kg	0.54	06/29/20 17:54	
EPA 6010D	Chromium	16.7	mg/kg	0.54	06/29/20 17:54	
EPA 6010D	Lead	8.1	mg/kg	0.54	06/29/20 17:54	
EPA 7471B	Mercury	0.94	mg/kg	0.022	06/30/20 17:10	
ASTM D2974	Percent Moisture	8.6	%	0.10	07/07/20 11:18	N2
SM 2540G	Total Solids	89.6	%		06/30/20 21:40	
10522854002	**SB-2 (0.5-1)**					
EPA 6010D	Arsenic	2.3	mg/kg	1.1	06/29/20 17:57	
EPA 6010D	Barium	50.6	mg/kg	0.55	06/29/20 17:57	
EPA 6010D	Cadmium	0.31	mg/kg	0.17	06/29/20 17:57	
EPA 6010D	Chromium	15.5	mg/kg	0.55	06/29/20 17:57	
EPA 6010D	Lead	21.5	mg/kg	0.55	06/29/20 17:57	
EPA 7471B	Mercury	0.82	mg/kg	0.023	06/30/20 17:12	
ASTM D2974	Percent Moisture	11.7	%	0.10	07/07/20 11:18	N2
SM 2540G	Total Solids	92.5	%		06/30/20 21:40	
10522854003	**SB-3 (6.5-7)**					
ASTM D2974	Percent Moisture	22.4	%	0.10	07/07/20 11:18	N2
SM 2540G	Total Solids	77.4	%		06/30/20 21:40	
10522854004	**SB-4 (4"-10")**					
WI MOD DRO	WDRO C10-C28	605	mg/kg	212	06/29/20 08:06	T6
ASTM D2974	Percent Moisture	5.4	%	0.10	07/07/20 11:19	N2
SM 2540G	Total Solids	96.9	%		06/30/20 21:40	
10522854005	**TT-1 (2'-4')**					
EPA 6010D	Arsenic	1.5	mg/kg	1.1	06/29/20 18:06	
EPA 6010D	Barium	33.1	mg/kg	0.53	06/29/20 18:06	
EPA 6010D	Chromium	18.9	mg/kg	0.53	06/29/20 18:06	
EPA 6010D	Lead	3.3	mg/kg	0.53	06/29/20 18:06	
ASTM D2974	Percent Moisture	8.6	%	0.10	07/07/20 11:19	N2
SM 2540G	Total Solids	90.9	%		06/30/20 21:40	
10522854006	**TT-1 Hotspot (2-4)**					
WI MOD DRO	WDRO C10-C28	48.6	mg/kg	9.5	06/27/20 18:58	T6
WI MOD GRO	Gasoline Range Organics	199	mg/kg	11.1	07/01/20 02:01	G+
EPA 6010D	Arsenic	2.0	mg/kg	1.1	06/29/20 18:08	
EPA 6010D	Barium	45.2	mg/kg	0.53	06/29/20 18:08	
EPA 6010D	Chromium	18.2	mg/kg	0.53	06/29/20 18:08	
EPA 6010D	Lead	6.3	mg/kg	0.53	06/29/20 18:08	
EPA 7471B	Mercury	0.064	mg/kg	0.019	06/30/20 17:17	
ASTM D2974	Percent Moisture	9.0	%	0.10	07/07/20 11:19	N2
EPA 8270E by SIM	Fluoranthene	12.9	ug/kg	11.0	06/26/20 17:31	
EPA 8270E by SIM	Naphthalene	13.4	ug/kg	11.0	06/26/20 17:31	
EPA 8270E by SIM	Pyrene	12.4	ug/kg	11.0	06/26/20 17:31	

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SUMMARY OF DETECTION

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10522854006	**TT-1 Hotspot (2-4)**					
SM 2540G	Total Solids	87.1	%		06/30/20 21:40	
10522854007	**TT-2 (2-3')**					
EPA 6010D	Arsenic	1.8	mg/kg	1.1	06/29/20 18:11	
EPA 6010D	Barium	31.4	mg/kg	0.53	06/29/20 18:11	
EPA 6010D	Chromium	10.7	mg/kg	0.53	06/29/20 18:11	
EPA 6010D	Lead	4.9	mg/kg	0.53	06/29/20 18:11	
ASTM D2974	Percent Moisture	11.4	%	0.10	07/07/20 11:19	N2
SM 2540G	Total Solids	89.5	%		07/02/20 00:51	
10522854008	**TT-3 (1-2)**					
EPA 6010D	Arsenic	1.8	mg/kg	1.1	06/29/20 18:14	
EPA 6010D	Barium	57.9	mg/kg	0.55	06/29/20 18:14	
EPA 6010D	Chromium	17.4	mg/kg	0.55	06/29/20 18:14	
EPA 6010D	Lead	4.6	mg/kg	0.55	06/29/20 18:14	
EPA 7471B	Mercury	0.041	mg/kg	0.021	06/30/20 17:22	
ASTM D2974	Percent Moisture	10.6	%	0.10	07/07/20 11:19	N2
SM 2540G	Total Solids	90.6	%		07/02/20 00:51	

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Method: **EPA 351.2**
Description: 351.2 Total Kjeldahl Nitrogen
Client: Braun Intertec Corporation
Date: July 08, 2020

General Information:
1 sample was analyzed for EPA 351.2 by Pace Analytical Services Duluth. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 351.2 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 192624

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10522687002,12146053011

M6: Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

- MS (Lab ID: 759366)
  - Nitrogen, Kjeldahl, Total

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3
Client: Braun Intertec Corporation
Date: July 08, 2020

General Information:
1 sample was analyzed for EPA 353.2 by Pace Analytical Services Duluth. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 353.2 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 192504

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- BLANK (Lab ID: 758699)
  - Nitrogen, NO2 plus NO3
- LCS (Lab ID: 758698)
  - Nitrogen, NO2 plus NO3
- MS (Lab ID: 758700)
  - Nitrogen, NO2 plus NO3

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3
Client: Braun Intertec Corporation
Date: July 08, 2020

Analyte Comments:

QC Batch: 192504

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- MS (Lab ID: 758711)
  - Nitrogen, NO2 plus NO3
- MSD (Lab ID: 758701)
  - Nitrogen, NO2 plus NO3
- MSD (Lab ID: 758712)
  - Nitrogen, NO2 plus NO3
- SB-1 (0.5-1.5) (Lab ID: 10522854001)
  - Nitrogen, NO2 plus NO3

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Method: **WI MOD DRO**
Description: WIDRO GCS
Client: Braun Intertec Corporation
Date: July 08, 2020

General Information:
6 samples were analyzed for WI MOD DRO by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with WI MOD DRO with any exceptions noted below.

QC Batch: 683429

P3: Sample extract could not be concentrated to the routine final volume, resulting in elevated reporting limits.
- SB-4 (4"-10") (Lab ID: 10522854004)

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: 683429

S4: Surrogate recovery not evaluated against control limits due to sample dilution.
- SB-4 (4"-10") (Lab ID: 10522854004)
  - n-Triacontane (S)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Method: **WI MOD DRO**
Description: WIDRO GCS
Client: Braun Intertec Corporation
Date: July 08, 2020

Analyte Comments:

QC Batch: 683429

T6: High boiling point hydrocarbons are present in the sample.

- SB-4 (4"-10") (Lab ID: 10522854004)
  - WDRO C10-C28
- TT-1 Hotspot (2-4) (Lab ID: 10522854006)
  - WDRO C10-C28

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Method: **WI MOD GRO**
Description: WIGRO GCV
Client: Braun Intertec Corporation
Date: July 08, 2020

General Information:
7 samples were analyzed for WI MOD GRO by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 5030 Medium Soil with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Method: **EPA 6010D**
Description: 6010D MET ICP
Client: Braun Intertec Corporation
Date: July 08, 2020

General Information:
6 samples were analyzed for EPA 6010D by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3050B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 683546

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10522897001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 3657127)
  - Barium

Additional Comments:

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Method: **EPA 7471B**
Description: 7471B Mercury
Client: Braun Intertec Corporation
Date: July 08, 2020

General Information:
6 samples were analyzed for EPA 7471B by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7471B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Method: **EPA 8270E by SIM**
Description: 8270E MSSV PAH by SIM
Client: Braun Intertec Corporation
Date: July 08, 2020

General Information:
5 samples were analyzed for EPA 8270E by SIM by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3550C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 683450

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10522854003

R1: RPD value was outside control limits.

- MSD (Lab ID: 3656581)
  - Acenaphthylene
  - Benzo(b)fluoranthene
  - Benzo(g,h,i)perylene
  - Chrysene
  - Dibenz(a,h)anthracene
  - Indeno(1,2,3-cd)pyrene
  - Naphthalene

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Method: **EPA 8270E by SIM**
Description: 8270E MSSV PAH by SIM
Client: Braun Intertec Corporation
Date: July 08, 2020

Additional Comments:

Analyte Comments:

QC Batch: 683450

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- SB-3 (6.5-7) (Lab ID: 10522854003)
  - Total BaP Eq. MN 2006sh. ND=0
- TT-1 (2'-4') (Lab ID: 10522854005)
  - Total BaP Eq. MN 2006sh. ND=0
- TT-1 Hotspot (2-4) (Lab ID: 10522854006)
  - Total BaP Eq. MN 2006sh. ND=0
- TT-2 (2-3') (Lab ID: 10522854007)
  - Total BaP Eq. MN 2006sh. ND=0
- TT-3 (1-2) (Lab ID: 10522854008)
  - Total BaP Eq. MN 2006sh. ND=0

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Method: **EPA 8260D**
Description: VOA (GC/MS) 8260D
Client: Braun Intertec Corporation
Date: July 08, 2020

General Information:
9 samples were analyzed for EPA 8260D by Pace National Mt. Juliet. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 1502542

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
- LCSD (Lab ID: R3545967-2)
  - 1,2-Dichlorobenzene
  - cis-1,2-Dichloroethene

R1: RPD value was outside control limits.
- LCSD (Lab ID: R3545967-2)
  - Naphthalene

QC Batch: 1503026

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
- LCSD (Lab ID: R3545605-2)
  - 1,3,5-Trimethylbenzene
  - 1,3-Dichloropropane
  - Toluene
  - cis-1,3-Dichloropropene

R1: RPD value was outside control limits.
- LCSD (Lab ID: R3545605-2)

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Method: **EPA 8260D**
Description: VOA (GC/MS) 8260D
Client: Braun Intertec Corporation
Date: July 08, 2020

QC Batch: 1503026

R1: RPD value was outside control limits.

- 1,1,2-Trichlorotrifluoroethane

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Method: **SM 2540G**
Description: Total Solids 2540 G-2011
Client: Braun Intertec Corporation
Date: July 08, 2020

General Information:
8 samples were analyzed for SM 2540G by Pace National Mt. Juliet. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Sample: SB-1 (0.5-1.5) **Lab ID: 10522854001** Collected: 06/24/20 12:01 Received: 06/25/20 11:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Duluth							
Nitrogen, Kjeldahl, Total	**124**	mg/kg	54.7	1	07/01/20 15:45	07/02/20 12:33	7727-37-9	
353.2 Nitrogen, NO2/NO3	Analytical Method: EPA 353.2 Preparation Method: EPA 353.2 Pace Analytical Services - Duluth							
Nitrogen, NO2 plus NO3	**0.30**	mg/kg	0.22	1	06/30/20 09:36	06/30/20 12:31		N2
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO Pace Analytical Services - Minneapolis							
WDRO C10-C28	ND	mg/kg	9.1	1	06/25/20 17:09	06/27/20 19:19		
Surrogates								
n-Triacontane (S)	80	%.	50-150	1	06/25/20 17:09	06/27/20 19:19	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: EPA 5030 Medium Soil Pace Analytical Services - Minneapolis							
Gasoline Range Organics	ND	mg/kg	10.6	1	06/29/20 11:04	07/01/20 01:05		
Surrogates								
a,a,a-Trifluorotoluene (S)	100	%.	80-150	1	06/29/20 11:04	07/01/20 01:05	98-08-8	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**3.2**	mg/kg	1.1	1	06/28/20 13:03	06/29/20 17:54	7440-38-2	
Barium	**37.7**	mg/kg	0.54	1	06/28/20 13:03	06/29/20 17:54	7440-39-3	
Cadmium	ND	mg/kg	0.16	1	06/28/20 13:03	06/29/20 17:54	7440-43-9	
Chromium	**16.7**	mg/kg	0.54	1	06/28/20 13:03	06/29/20 17:54	7440-47-3	
Lead	**8.1**	mg/kg	0.54	1	06/28/20 13:03	06/29/20 17:54	7439-92-1	
Selenium	ND	mg/kg	1.1	1	06/28/20 13:03	06/29/20 17:54	7782-49-2	
Silver	ND	mg/kg	0.54	1	06/28/20 13:03	06/29/20 17:54	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.94**	mg/kg	0.022	1	06/28/20 13:33	06/30/20 17:10	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**8.6**	%	0.10	1		07/07/20 11:18		N2
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Acetone	ND	mg/kg	2.79	2	06/24/20 12:01	07/02/20 02:20	67-64-1	
Allyl chloride	ND	mg/kg	1.39	2	06/24/20 12:01	07/02/20 02:20	107-05-1	
Benzene	ND	mg/kg	0.0558	2	06/24/20 12:01	07/02/20 02:20	71-43-2	
Bromobenzene	ND	mg/kg	0.697	2	06/24/20 12:01	07/02/20 02:20	108-86-1	
Bromochloromethane	ND	mg/kg	0.279	2	06/24/20 12:01	07/02/20 02:20	74-97-5	
Bromodichloromethane	ND	mg/kg	0.139	2	06/24/20 12:01	07/02/20 02:20	75-27-4	

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Sample: SB-1 (0.5-1.5) **Lab ID: 10522854001** Collected: 06/24/20 12:01 Received: 06/25/20 11:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Bromoform	ND	mg/kg	1.39	2	06/24/20 12:01	07/02/20 02:20	75-25-2	
Bromomethane	ND	mg/kg	0.697	2	06/24/20 12:01	07/02/20 02:20	74-83-9	
n-Butylbenzene	ND	mg/kg	0.697	2	06/24/20 12:01	07/02/20 02:20	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.697	2	06/24/20 12:01	07/02/20 02:20	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.279	2	06/24/20 12:01	07/02/20 02:20	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.279	2	06/24/20 12:01	07/02/20 02:20	56-23-5	
Chlorobenzene	ND	mg/kg	0.139	2	06/24/20 12:01	07/02/20 02:20	108-90-7	
Dibromochloromethane	ND	mg/kg	0.139	2	06/24/20 12:01	07/02/20 02:20	124-48-1	
Chloroethane	ND	mg/kg	0.279	2	06/24/20 12:01	07/02/20 02:20	75-00-3	
Chloroform	ND	mg/kg	0.139	2	06/24/20 12:01	07/02/20 02:20	67-66-3	
Chloromethane	ND	mg/kg	0.697	2	06/24/20 12:01	07/02/20 02:20	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.139	2	06/24/20 12:01	07/02/20 02:20	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.279	2	06/24/20 12:01	07/02/20 02:20	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	1.39	2	06/24/20 12:01	07/02/20 02:20	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.139	2	06/24/20 12:01	07/02/20 02:20	106-93-4	
Dibromomethane	ND	mg/kg	0.279	2	06/24/20 12:01	07/02/20 02:20	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.279	2	06/24/20 12:01	07/02/20 02:20	95-50-1	L0
1,3-Dichlorobenzene	ND	mg/kg	0.279	2	06/24/20 12:01	07/02/20 02:20	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.279	2	06/24/20 12:01	07/02/20 02:20	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.139	2	06/24/20 12:01	07/02/20 02:20	75-71-8	
Dichlorofluoromethane	ND	mg/kg	0.139	2	06/24/20 12:01	07/02/20 02:20	75-43-4	
1,1-Dichloroethane	ND	mg/kg	0.139	2	06/24/20 12:01	07/02/20 02:20	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.139	2	06/24/20 12:01	07/02/20 02:20	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.139	2	06/24/20 12:01	07/02/20 02:20	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.139	2	06/24/20 12:01	07/02/20 02:20	156-59-2	L0
trans-1,2-Dichloroethene	ND	mg/kg	0.279	2	06/24/20 12:01	07/02/20 02:20	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.279	2	06/24/20 12:01	07/02/20 02:20	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.139	2	06/24/20 12:01	07/02/20 02:20	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.279	2	06/24/20 12:01	07/02/20 02:20	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.139	2	06/24/20 12:01	07/02/20 02:20	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.279	2	06/24/20 12:01	07/02/20 02:20	10061-02-6	
2,2-Dichloropropane	ND	mg/kg	0.139	2	06/24/20 12:01	07/02/20 02:20	594-20-7	
Diisopropyl ether	ND	mg/kg	0.0558	2	06/24/20 12:01	07/02/20 02:20	108-20-3	
Ethylbenzene	ND	mg/kg	0.139	2	06/24/20 12:01	07/02/20 02:20	100-41-4	
Diethyl ether (Ethyl ether)	ND	mg/kg	0.139	2	06/24/20 12:01	07/02/20 02:20	60-29-7	
Hexachloro-1,3-butadiene	ND	mg/kg	1.39	2	06/24/20 12:01	07/02/20 02:20	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.139	2	06/24/20 12:01	07/02/20 02:20	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.279	2	06/24/20 12:01	07/02/20 02:20	99-87-6	
2-Butanone (MEK)	ND	mg/kg	5.58	2	06/24/20 12:01	07/02/20 02:20	78-93-3	
Methylene Chloride	ND	mg/kg	1.39	2	06/24/20 12:01	07/02/20 02:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	1.39	2	06/24/20 12:01	07/02/20 02:20	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0558	2	06/24/20 12:01	07/02/20 02:20	1634-04-4	
Naphthalene	ND	mg/kg	0.697	2	06/24/20 12:01	07/02/20 02:20	91-20-3	R1
n-Propylbenzene	ND	mg/kg	0.279	2	06/24/20 12:01	07/02/20 02:20	103-65-1	
Styrene	ND	mg/kg	0.697	2	06/24/20 12:01	07/02/20 02:20	100-42-5	

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(612)607-1700

ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Sample: SB-1 (0.5-1.5) **Lab ID: 10522854001** Collected: 06/24/20 12:01 Received: 06/25/20 11:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.139	2	06/24/20 12:01	07/02/20 02:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.139	2	06/24/20 12:01	07/02/20 02:20	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.139	2	06/24/20 12:01	07/02/20 02:20	76-13-1	
Tetrachloroethene	ND	mg/kg	0.139	2	06/24/20 12:01	07/02/20 02:20	127-18-4	
Tetrahydrofuran	ND	mg/kg	0.697	2	06/24/20 12:01	07/02/20 02:20	109-99-9	
Toluene	ND	mg/kg	0.279	2	06/24/20 12:01	07/02/20 02:20	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.697	2	06/24/20 12:01	07/02/20 02:20	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.697	2	06/24/20 12:01	07/02/20 02:20	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.139	2	06/24/20 12:01	07/02/20 02:20	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.139	2	06/24/20 12:01	07/02/20 02:20	79-00-5	
Trichloroethene	ND	mg/kg	0.0558	2	06/24/20 12:01	07/02/20 02:20	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.139	2	06/24/20 12:01	07/02/20 02:20	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.697	2	06/24/20 12:01	07/02/20 02:20	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.279	2	06/24/20 12:01	07/02/20 02:20	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.279	2	06/24/20 12:01	07/02/20 02:20	108-67-8	
Vinyl chloride	ND	mg/kg	0.139	2	06/24/20 12:01	07/02/20 02:20	75-01-4	
Xylene (Total)	ND	mg/kg	0.363	2	06/24/20 12:01	07/02/20 02:20	1330-20-7	
Surrogates								
Toluene-d8 (S)	104	%	75.0-131	2	06/24/20 12:01	07/02/20 02:20	2037-26-5	
4-Bromofluorobenzene (S)	94.3	%	67.0-138	2	06/24/20 12:01	07/02/20 02:20	460-00-4	
1,2-Dichloroethane-d4 (S)	91.6	%	70.0-130	2	06/24/20 12:01	07/02/20 02:20	17060-07-0	
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet							
Total Solids	**89.6**	%		1	06/30/20 21:24	06/30/20 21:40		

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Sample: SB-2 (0.5-1) **Lab ID: 10522854002** Collected: 06/24/20 10:45 Received: 06/25/20 11:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO Pace Analytical Services - Minneapolis							
WDRO C10-C28	ND	mg/kg	8.9	1	06/25/20 17:09	06/27/20 19:40		
Surrogates								
n-Triacontane (S)	81	%.	50-150	1	06/25/20 17:09	06/27/20 19:40	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: EPA 5030 Medium Soil Pace Analytical Services - Minneapolis							
Gasoline Range Organics	ND	mg/kg	10.9	1	06/29/20 11:04	06/30/20 20:53		
Surrogates								
a,a,a-Trifluorotoluene (S)	100	%.	80-150	1	06/29/20 11:04	06/30/20 20:53	98-08-8	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**2.3**	mg/kg	1.1	1	06/28/20 13:03	06/29/20 17:57	7440-38-2	
Barium	**50.6**	mg/kg	0.55	1	06/28/20 13:03	06/29/20 17:57	7440-39-3	
Cadmium	**0.31**	mg/kg	0.17	1	06/28/20 13:03	06/29/20 17:57	7440-43-9	
Chromium	**15.5**	mg/kg	0.55	1	06/28/20 13:03	06/29/20 17:57	7440-47-3	
Lead	**21.5**	mg/kg	0.55	1	06/28/20 13:03	06/29/20 17:57	7439-92-1	
Selenium	ND	mg/kg	1.1	1	06/28/20 13:03	06/29/20 17:57	7782-49-2	
Silver	ND	mg/kg	0.55	1	06/28/20 13:03	06/29/20 17:57	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.82**	mg/kg	0.023	1	06/28/20 13:33	06/30/20 17:12	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**11.7**	%	0.10	1		07/07/20 11:18		N2
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Acetone	ND	mg/kg	2.70	2	06/24/20 10:45	07/02/20 02:39	67-64-1	
Allyl chloride	ND	mg/kg	1.35	2	06/24/20 10:45	07/02/20 02:39	107-05-1	
Benzene	ND	mg/kg	0.0541	2	06/24/20 10:45	07/02/20 02:39	71-43-2	
Bromobenzene	ND	mg/kg	0.676	2	06/24/20 10:45	07/02/20 02:39	108-86-1	
Bromochloromethane	ND	mg/kg	0.270	2	06/24/20 10:45	07/02/20 02:39	74-97-5	
Bromodichloromethane	ND	mg/kg	0.135	2	06/24/20 10:45	07/02/20 02:39	75-27-4	
Bromoform	ND	mg/kg	1.35	2	06/24/20 10:45	07/02/20 02:39	75-25-2	
Bromomethane	ND	mg/kg	0.676	2	06/24/20 10:45	07/02/20 02:39	74-83-9	
n-Butylbenzene	ND	mg/kg	0.676	2	06/24/20 10:45	07/02/20 02:39	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.676	2	06/24/20 10:45	07/02/20 02:39	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.270	2	06/24/20 10:45	07/02/20 02:39	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.270	2	06/24/20 10:45	07/02/20 02:39	56-23-5	
Chlorobenzene	ND	mg/kg	0.135	2	06/24/20 10:45	07/02/20 02:39	108-90-7	
Dibromochloromethane	ND	mg/kg	0.135	2	06/24/20 10:45	07/02/20 02:39	124-48-1	

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Sample: SB-2 (0.5-1) **Lab ID: 10522854002** Collected: 06/24/20 10:45 Received: 06/25/20 11:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Chloroethane	ND	mg/kg	0.270	2	06/24/20 10:45	07/02/20 02:39	75-00-3	
Chloroform	ND	mg/kg	0.135	2	06/24/20 10:45	07/02/20 02:39	67-66-3	
Chloromethane	ND	mg/kg	0.676	2	06/24/20 10:45	07/02/20 02:39	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.135	2	06/24/20 10:45	07/02/20 02:39	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.270	2	06/24/20 10:45	07/02/20 02:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	1.35	2	06/24/20 10:45	07/02/20 02:39	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.135	2	06/24/20 10:45	07/02/20 02:39	106-93-4	
Dibromomethane	ND	mg/kg	0.270	2	06/24/20 10:45	07/02/20 02:39	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.270	2	06/24/20 10:45	07/02/20 02:39	95-50-1	L0
1,3-Dichlorobenzene	ND	mg/kg	0.270	2	06/24/20 10:45	07/02/20 02:39	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.270	2	06/24/20 10:45	07/02/20 02:39	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.135	2	06/24/20 10:45	07/02/20 02:39	75-71-8	
Dichlorofluoromethane	ND	mg/kg	0.135	2	06/24/20 10:45	07/02/20 02:39	75-43-4	
1,1-Dichloroethane	ND	mg/kg	0.135	2	06/24/20 10:45	07/02/20 02:39	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.135	2	06/24/20 10:45	07/02/20 02:39	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.135	2	06/24/20 10:45	07/02/20 02:39	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.135	2	06/24/20 10:45	07/02/20 02:39	156-59-2	L0
trans-1,2-Dichloroethene	ND	mg/kg	0.270	2	06/24/20 10:45	07/02/20 02:39	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.270	2	06/24/20 10:45	07/02/20 02:39	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.135	2	06/24/20 10:45	07/02/20 02:39	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.270	2	06/24/20 10:45	07/02/20 02:39	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.135	2	06/24/20 10:45	07/02/20 02:39	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.270	2	06/24/20 10:45	07/02/20 02:39	10061-02-6	
2,2-Dichloropropane	ND	mg/kg	0.135	2	06/24/20 10:45	07/02/20 02:39	594-20-7	
Diisopropyl ether	ND	mg/kg	0.0541	2	06/24/20 10:45	07/02/20 02:39	108-20-3	
Ethylbenzene	ND	mg/kg	0.135	2	06/24/20 10:45	07/02/20 02:39	100-41-4	
Diethyl ether (Ethyl ether)	ND	mg/kg	0.135	2	06/24/20 10:45	07/02/20 02:39	60-29-7	
Hexachloro-1,3-butadiene	ND	mg/kg	1.35	2	06/24/20 10:45	07/02/20 02:39	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.135	2	06/24/20 10:45	07/02/20 02:39	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.270	2	06/24/20 10:45	07/02/20 02:39	99-87-6	
2-Butanone (MEK)	ND	mg/kg	5.41	2	06/24/20 10:45	07/02/20 02:39	78-93-3	
Methylene Chloride	ND	mg/kg	1.35	2	06/24/20 10:45	07/02/20 02:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	1.35	2	06/24/20 10:45	07/02/20 02:39	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0541	2	06/24/20 10:45	07/02/20 02:39	1634-04-4	
Naphthalene	ND	mg/kg	0.676	2	06/24/20 10:45	07/02/20 02:39	91-20-3	R1
n-Propylbenzene	ND	mg/kg	0.270	2	06/24/20 10:45	07/02/20 02:39	103-65-1	
Styrene	ND	mg/kg	0.676	2	06/24/20 10:45	07/02/20 02:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.135	2	06/24/20 10:45	07/02/20 02:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.135	2	06/24/20 10:45	07/02/20 02:39	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.135	2	06/24/20 10:45	07/02/20 02:39	76-13-1	
Tetrachloroethene	ND	mg/kg	0.135	2	06/24/20 10:45	07/02/20 02:39	127-18-4	
Tetrahydrofuran	ND	mg/kg	0.676	2	06/24/20 10:45	07/02/20 02:39	109-99-9	
Toluene	ND	mg/kg	0.270	2	06/24/20 10:45	07/02/20 02:39	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.676	2	06/24/20 10:45	07/02/20 02:39	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.676	2	06/24/20 10:45	07/02/20 02:39	120-82-1	

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Sample: SB-2 (0.5-1) **Lab ID: 10522854002** Collected: 06/24/20 10:45 Received: 06/25/20 11:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
1,1,1-Trichloroethane	ND	mg/kg	0.135	2	06/24/20 10:45	07/02/20 02:39	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.135	2	06/24/20 10:45	07/02/20 02:39	79-00-5	
Trichloroethene	ND	mg/kg	0.0541	2	06/24/20 10:45	07/02/20 02:39	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.135	2	06/24/20 10:45	07/02/20 02:39	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.676	2	06/24/20 10:45	07/02/20 02:39	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.270	2	06/24/20 10:45	07/02/20 02:39	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.270	2	06/24/20 10:45	07/02/20 02:39	108-67-8	
Vinyl chloride	ND	mg/kg	0.135	2	06/24/20 10:45	07/02/20 02:39	75-01-4	
Xylene (Total)	ND	mg/kg	0.351	2	06/24/20 10:45	07/02/20 02:39	1330-20-7	
Surrogates								
Toluene-d8 (S)	103	%	75.0-131	2	06/24/20 10:45	07/02/20 02:39	2037-26-5	
4-Bromofluorobenzene (S)	95.0	%	67.0-138	2	06/24/20 10:45	07/02/20 02:39	460-00-4	
1,2-Dichloroethane-d4 (S)	91.7	%	70.0-130	2	06/24/20 10:45	07/02/20 02:39	17060-07-0	
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet							
Total Solids	**92.5**	%		1	06/30/20 21:24	06/30/20 21:40		

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Sample: SB-3 (6.5-7) **Lab ID: 10522854003** Collected: 06/24/20 09:47 Received: 06/25/20 11:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO Pace Analytical Services - Minneapolis							
WDRO C10-C28	ND	mg/kg	9.5	1	06/25/20 17:09	06/27/20 20:15		
Surrogates								
n-Triacontane (S)	84	%.	50-150	1	06/25/20 17:09	06/27/20 20:15	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: EPA 5030 Medium Soil Pace Analytical Services - Minneapolis							
Gasoline Range Organics	ND	mg/kg	13.3	1	06/29/20 11:04	07/01/20 02:29		
Surrogates								
a,a,a-Trifluorotoluene (S)	100	%.	80-150	1	06/29/20 11:04	07/01/20 02:29	98-08-8	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**22.4**	%	0.10	1		07/07/20 11:18		N2
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3550C Pace Analytical Services - Minneapolis							
Acenaphthene	ND	ug/kg	12.9	1	06/25/20 17:54	06/26/20 16:07	83-32-9	
Acenaphthylene	ND	ug/kg	12.9	1	06/25/20 17:54	06/26/20 16:07	208-96-8	R1
Anthracene	ND	ug/kg	12.9	1	06/25/20 17:54	06/26/20 16:07	120-12-7	
Benzo(a)anthracene	ND	ug/kg	12.9	1	06/25/20 17:54	06/26/20 16:07	56-55-3	
Benzo(a)pyrene	ND	ug/kg	12.9	1	06/25/20 17:54	06/26/20 16:07	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	12.9	1	06/25/20 17:54	06/26/20 16:07	205-99-2	R1
Benzo(g,h,i)perylene	ND	ug/kg	12.9	1	06/25/20 17:54	06/26/20 16:07	191-24-2	R1
Benzo(k)fluoranthene	ND	ug/kg	12.9	1	06/25/20 17:54	06/26/20 16:07	207-08-9	
Chrysene	ND	ug/kg	12.9	1	06/25/20 17:54	06/26/20 16:07	218-01-9	R1
Dibenz(a,h)anthracene	ND	ug/kg	12.9	1	06/25/20 17:54	06/26/20 16:07	53-70-3	R1
Fluoranthene	ND	ug/kg	12.9	1	06/25/20 17:54	06/26/20 16:07	206-44-0	
Fluorene	ND	ug/kg	12.9	1	06/25/20 17:54	06/26/20 16:07	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	12.9	1	06/25/20 17:54	06/26/20 16:07	193-39-5	R1
Naphthalene	ND	ug/kg	12.9	1	06/25/20 17:54	06/26/20 16:07	91-20-3	R1
Phenanthrene	ND	ug/kg	12.9	1	06/25/20 17:54	06/26/20 16:07	85-01-8	
Pyrene	ND	ug/kg	12.9	1	06/25/20 17:54	06/26/20 16:07	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	ND	ug/kg	12.9	1	06/25/20 17:54	06/26/20 16:07		N2
Surrogates								
2-Fluorobiphenyl (S)	52	%.	30-138	1	06/25/20 17:54	06/26/20 16:07	321-60-8	
p-Terphenyl-d14 (S)	93	%.	30-143	1	06/25/20 17:54	06/26/20 16:07	1718-51-0	
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Acetone	ND	mg/kg	3.23	2	06/24/20 09:47	07/02/20 19:30	67-64-1	
Allyl chloride	ND	mg/kg	1.61	2	06/24/20 09:47	07/02/20 19:30	107-05-1	
Benzene	ND	mg/kg	0.0646	2	06/24/20 09:47	07/02/20 19:30	71-43-2	
Bromobenzene	ND	mg/kg	0.807	2	06/24/20 09:47	07/02/20 19:30	108-86-1	
Bromochloromethane	ND	mg/kg	0.323	2	06/24/20 09:47	07/02/20 19:30	74-97-5	
Bromodichloromethane	ND	mg/kg	0.161	2	06/24/20 09:47	07/02/20 19:30	75-27-4	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Sample: SB-3 (6.5-7) **Lab ID: 10522854003** Collected: 06/24/20 09:47 Received: 06/25/20 11:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Bromoform	ND	mg/kg	1.61	2	06/24/20 09:47	07/02/20 19:30	75-25-2	
Bromomethane	ND	mg/kg	0.807	2	06/24/20 09:47	07/02/20 19:30	74-83-9	
n-Butylbenzene	ND	mg/kg	0.807	2	06/24/20 09:47	07/02/20 19:30	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.807	2	06/24/20 09:47	07/02/20 19:30	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.323	2	06/24/20 09:47	07/02/20 19:30	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.323	2	06/24/20 09:47	07/02/20 19:30	56-23-5	
Chlorobenzene	ND	mg/kg	0.161	2	06/24/20 09:47	07/02/20 19:30	108-90-7	
Dibromochloromethane	ND	mg/kg	0.161	2	06/24/20 09:47	07/02/20 19:30	124-48-1	
Chloroethane	ND	mg/kg	0.323	2	06/24/20 09:47	07/02/20 19:30	75-00-3	
Chloroform	ND	mg/kg	0.161	2	06/24/20 09:47	07/02/20 19:30	67-66-3	
Chloromethane	ND	mg/kg	0.807	2	06/24/20 09:47	07/02/20 19:30	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.161	2	06/24/20 09:47	07/02/20 19:30	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.323	2	06/24/20 09:47	07/02/20 19:30	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	1.61	2	06/24/20 09:47	07/02/20 19:30	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.161	2	06/24/20 09:47	07/02/20 19:30	106-93-4	
Dibromomethane	ND	mg/kg	0.323	2	06/24/20 09:47	07/02/20 19:30	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.323	2	06/24/20 09:47	07/02/20 19:30	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.323	2	06/24/20 09:47	07/02/20 19:30	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.323	2	06/24/20 09:47	07/02/20 19:30	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.161	2	06/24/20 09:47	07/02/20 19:30	75-71-8	
Dichlorofluoromethane	ND	mg/kg	0.161	2	06/24/20 09:47	07/02/20 19:30	75-43-4	
1,1-Dichloroethane	ND	mg/kg	0.161	2	06/24/20 09:47	07/02/20 19:30	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.161	2	06/24/20 09:47	07/02/20 19:30	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.161	2	06/24/20 09:47	07/02/20 19:30	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.161	2	06/24/20 09:47	07/02/20 19:30	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.323	2	06/24/20 09:47	07/02/20 19:30	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.323	2	06/24/20 09:47	07/02/20 19:30	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.161	2	06/24/20 09:47	07/02/20 19:30	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.323	2	06/24/20 09:47	07/02/20 19:30	142-28-9	L0
cis-1,3-Dichloropropene	ND	mg/kg	0.161	2	06/24/20 09:47	07/02/20 19:30	10061-01-5	L0
trans-1,3-Dichloropropene	ND	mg/kg	0.323	2	06/24/20 09:47	07/02/20 19:30	10061-02-6	
2,2-Dichloropropane	ND	mg/kg	0.161	2	06/24/20 09:47	07/02/20 19:30	594-20-7	
Diisopropyl ether	ND	mg/kg	0.0646	2	06/24/20 09:47	07/02/20 19:30	108-20-3	
Ethylbenzene	ND	mg/kg	0.161	2	06/24/20 09:47	07/02/20 19:30	100-41-4	
Diethyl ether (Ethyl ether)	ND	mg/kg	0.161	2	06/24/20 09:47	07/02/20 19:30	60-29-7	
Hexachloro-1,3-butadiene	ND	mg/kg	1.61	2	06/24/20 09:47	07/02/20 19:30	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.161	2	06/24/20 09:47	07/02/20 19:30	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.323	2	06/24/20 09:47	07/02/20 19:30	99-87-6	
2-Butanone (MEK)	ND	mg/kg	6.46	2	06/24/20 09:47	07/02/20 19:30	78-93-3	
Methylene Chloride	ND	mg/kg	1.61	2	06/24/20 09:47	07/02/20 19:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	1.61	2	06/24/20 09:47	07/02/20 19:30	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0646	2	06/24/20 09:47	07/02/20 19:30	1634-04-4	
Naphthalene	ND	mg/kg	0.807	2	06/24/20 09:47	07/02/20 19:30	91-20-3	
n-Propylbenzene	ND	mg/kg	0.323	2	06/24/20 09:47	07/02/20 19:30	103-65-1	
Styrene	ND	mg/kg	0.807	2	06/24/20 09:47	07/02/20 19:30	100-42-5	

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Sample: SB-3 (6.5-7) **Lab ID: 10522854003** Collected: 06/24/20 09:47 Received: 06/25/20 11:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.161	2	06/24/20 09:47	07/02/20 19:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.161	2	06/24/20 09:47	07/02/20 19:30	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.161	2	06/24/20 09:47	07/02/20 19:30	76-13-1	R1
Tetrachloroethene	ND	mg/kg	0.161	2	06/24/20 09:47	07/02/20 19:30	127-18-4	
Tetrahydrofuran	ND	mg/kg	0.807	2	06/24/20 09:47	07/02/20 19:30	109-99-9	
Toluene	ND	mg/kg	0.323	2	06/24/20 09:47	07/02/20 19:30	108-88-3	L0
1,2,3-Trichlorobenzene	ND	mg/kg	0.807	2	06/24/20 09:47	07/02/20 19:30	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.807	2	06/24/20 09:47	07/02/20 19:30	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.161	2	06/24/20 09:47	07/02/20 19:30	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.161	2	06/24/20 09:47	07/02/20 19:30	79-00-5	
Trichloroethene	ND	mg/kg	0.0646	2	06/24/20 09:47	07/02/20 19:30	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.161	2	06/24/20 09:47	07/02/20 19:30	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.807	2	06/24/20 09:47	07/02/20 19:30	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.323	2	06/24/20 09:47	07/02/20 19:30	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.323	2	06/24/20 09:47	07/02/20 19:30	108-67-8	L0
Vinyl chloride	ND	mg/kg	0.161	2	06/24/20 09:47	07/02/20 19:30	75-01-4	
Xylene (Total)	ND	mg/kg	0.420	2	06/24/20 09:47	07/02/20 19:30	1330-20-7	
Surrogates								
Toluene-d8 (S)	111	%	75.0-131	2	06/24/20 09:47	07/02/20 19:30	2037-26-5	
4-Bromofluorobenzene (S)	99.9	%	67.0-138	2	06/24/20 09:47	07/02/20 19:30	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70.0-130	2	06/24/20 09:47	07/02/20 19:30	17060-07-0	
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet							
Total Solids	**77.4**	%		1	06/30/20 21:24	06/30/20 21:40		

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Sample: SB-4 (4"-10") **Lab ID: 10522854004** Collected: 06/24/20 08:57 Received: 06/25/20 11:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO Pace Analytical Services - Minneapolis							
WDRO C10-C28	**605**	mg/kg	212	5	06/25/20 17:09	06/29/20 08:06		T6
Surrogates								
n-Triacontane (S)	0	%.	50-150	5	06/25/20 17:09	06/29/20 08:06	638-68-6	P3,S4
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: EPA 5030 Medium Soil Pace Analytical Services - Minneapolis							
Gasoline Range Organics	ND	mg/kg	10.2	1	06/29/20 11:04	06/30/20 21:21		G+
Surrogates								
a,a,a-Trifluorotoluene (S)	100	%.	80-150	1	06/29/20 11:04	06/30/20 21:21	98-08-8	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**5.4**	%	0.10	1		07/07/20 11:19		N2
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Acetone	ND	mg/kg	2.58	2	06/24/20 08:57	07/02/20 19:49	67-64-1	
Allyl chloride	ND	mg/kg	1.29	2	06/24/20 08:57	07/02/20 19:49	107-05-1	
Benzene	ND	mg/kg	0.0516	2	06/24/20 08:57	07/02/20 19:49	71-43-2	
Bromobenzene	ND	mg/kg	0.645	2	06/24/20 08:57	07/02/20 19:49	108-86-1	
Bromochloromethane	ND	mg/kg	0.258	2	06/24/20 08:57	07/02/20 19:49	74-97-5	
Bromodichloromethane	ND	mg/kg	0.129	2	06/24/20 08:57	07/02/20 19:49	75-27-4	
Bromoform	ND	mg/kg	1.29	2	06/24/20 08:57	07/02/20 19:49	75-25-2	
Bromomethane	ND	mg/kg	0.645	2	06/24/20 08:57	07/02/20 19:49	74-83-9	
n-Butylbenzene	ND	mg/kg	0.645	2	06/24/20 08:57	07/02/20 19:49	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.645	2	06/24/20 08:57	07/02/20 19:49	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.258	2	06/24/20 08:57	07/02/20 19:49	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.258	2	06/24/20 08:57	07/02/20 19:49	56-23-5	
Chlorobenzene	ND	mg/kg	0.129	2	06/24/20 08:57	07/02/20 19:49	108-90-7	
Dibromochloromethane	ND	mg/kg	0.129	2	06/24/20 08:57	07/02/20 19:49	124-48-1	
Chloroethane	ND	mg/kg	0.258	2	06/24/20 08:57	07/02/20 19:49	75-00-3	
Chloroform	ND	mg/kg	0.129	2	06/24/20 08:57	07/02/20 19:49	67-66-3	
Chloromethane	ND	mg/kg	0.645	2	06/24/20 08:57	07/02/20 19:49	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.129	2	06/24/20 08:57	07/02/20 19:49	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.258	2	06/24/20 08:57	07/02/20 19:49	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	1.29	2	06/24/20 08:57	07/02/20 19:49	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.129	2	06/24/20 08:57	07/02/20 19:49	106-93-4	
Dibromomethane	ND	mg/kg	0.258	2	06/24/20 08:57	07/02/20 19:49	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.258	2	06/24/20 08:57	07/02/20 19:49	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.258	2	06/24/20 08:57	07/02/20 19:49	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.258	2	06/24/20 08:57	07/02/20 19:49	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.129	2	06/24/20 08:57	07/02/20 19:49	75-71-8	
Dichlorofluoromethane	ND	mg/kg	0.129	2	06/24/20 08:57	07/02/20 19:49	75-43-4	
1,1-Dichloroethane	ND	mg/kg	0.129	2	06/24/20 08:57	07/02/20 19:49	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.129	2	06/24/20 08:57	07/02/20 19:49	107-06-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Sample: SB-4 (4"-10") **Lab ID: 10522854004** Collected: 06/24/20 08:57 Received: 06/25/20 11:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
1,1-Dichloroethene	ND	mg/kg	0.129	2	06/24/20 08:57	07/02/20 19:49	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.129	2	06/24/20 08:57	07/02/20 19:49	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.258	2	06/24/20 08:57	07/02/20 19:49	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.258	2	06/24/20 08:57	07/02/20 19:49	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.129	2	06/24/20 08:57	07/02/20 19:49	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.258	2	06/24/20 08:57	07/02/20 19:49	142-28-9	L0
cis-1,3-Dichloropropene	ND	mg/kg	0.129	2	06/24/20 08:57	07/02/20 19:49	10061-01-5	L0
trans-1,3-Dichloropropene	ND	mg/kg	0.258	2	06/24/20 08:57	07/02/20 19:49	10061-02-6	
2,2-Dichloropropane	ND	mg/kg	0.129	2	06/24/20 08:57	07/02/20 19:49	594-20-7	
Diisopropyl ether	ND	mg/kg	0.0516	2	06/24/20 08:57	07/02/20 19:49	108-20-3	
Ethylbenzene	ND	mg/kg	0.129	2	06/24/20 08:57	07/02/20 19:49	100-41-4	
Diethyl ether (Ethyl ether)	ND	mg/kg	0.129	2	06/24/20 08:57	07/02/20 19:49	60-29-7	
Hexachloro-1,3-butadiene	ND	mg/kg	1.29	2	06/24/20 08:57	07/02/20 19:49	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.129	2	06/24/20 08:57	07/02/20 19:49	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.258	2	06/24/20 08:57	07/02/20 19:49	99-87-6	
2-Butanone (MEK)	ND	mg/kg	5.16	2	06/24/20 08:57	07/02/20 19:49	78-93-3	
Methylene Chloride	ND	mg/kg	1.29	2	06/24/20 08:57	07/02/20 19:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	1.29	2	06/24/20 08:57	07/02/20 19:49	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0516	2	06/24/20 08:57	07/02/20 19:49	1634-04-4	
Naphthalene	ND	mg/kg	0.645	2	06/24/20 08:57	07/02/20 19:49	91-20-3	
n-Propylbenzene	ND	mg/kg	0.258	2	06/24/20 08:57	07/02/20 19:49	103-65-1	
Styrene	ND	mg/kg	0.645	2	06/24/20 08:57	07/02/20 19:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.129	2	06/24/20 08:57	07/02/20 19:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.129	2	06/24/20 08:57	07/02/20 19:49	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.129	2	06/24/20 08:57	07/02/20 19:49	76-13-1	R1
Tetrachloroethene	ND	mg/kg	0.129	2	06/24/20 08:57	07/02/20 19:49	127-18-4	
Tetrahydrofuran	ND	mg/kg	0.645	2	06/24/20 08:57	07/02/20 19:49	109-99-9	
Toluene	ND	mg/kg	0.258	2	06/24/20 08:57	07/02/20 19:49	108-88-3	L0
1,2,3-Trichlorobenzene	ND	mg/kg	0.645	2	06/24/20 08:57	07/02/20 19:49	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.645	2	06/24/20 08:57	07/02/20 19:49	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.129	2	06/24/20 08:57	07/02/20 19:49	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.129	2	06/24/20 08:57	07/02/20 19:49	79-00-5	
Trichloroethene	ND	mg/kg	0.0516	2	06/24/20 08:57	07/02/20 19:49	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.129	2	06/24/20 08:57	07/02/20 19:49	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.645	2	06/24/20 08:57	07/02/20 19:49	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.258	2	06/24/20 08:57	07/02/20 19:49	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.258	2	06/24/20 08:57	07/02/20 19:49	108-67-8	L0
Vinyl chloride	ND	mg/kg	0.129	2	06/24/20 08:57	07/02/20 19:49	75-01-4	
Xylene (Total)	ND	mg/kg	0.336	2	06/24/20 08:57	07/02/20 19:49	1330-20-7	
Surrogates								
Toluene-d8 (S)	110	%	75.0-131	2	06/24/20 08:57	07/02/20 19:49	2037-26-5	
4-Bromofluorobenzene (S)	96.2	%	67.0-138	2	06/24/20 08:57	07/02/20 19:49	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%	70.0-130	2	06/24/20 08:57	07/02/20 19:49	17060-07-0	

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Sample: SB-4 (4"-10") **Lab ID: 10522854004** Collected: 06/24/20 08:57 Received: 06/25/20 11:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet							
Total Solids	**96.9**	%		1	06/30/20 21:24	06/30/20 21:40		

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Sample: TT-1 (2'-4') **Lab ID: 10522854005** Collected: 06/24/20 16:30 Received: 06/25/20 11:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO Pace Analytical Services - Minneapolis							
WDRO C10-C28	ND	mg/kg	8.5	1	06/25/20 17:09	06/27/20 20:01		
Surrogates								
n-Triacontane (S)	82	%.	50-150	1	06/25/20 17:09	06/27/20 20:01	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: EPA 5030 Medium Soil Pace Analytical Services - Minneapolis							
Gasoline Range Organics	ND	mg/kg	10.6	1	06/29/20 11:04	07/01/20 00:36		
Surrogates								
a,a,a-Trifluorotoluene (S)	100	%.	80-150	1	06/29/20 11:04	07/01/20 00:36	98-08-8	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**1.5**	mg/kg	1.1	1	06/28/20 13:03	06/29/20 18:06	7440-38-2	
Barium	**33.1**	mg/kg	0.53	1	06/28/20 13:03	06/29/20 18:06	7440-39-3	
Cadmium	ND	mg/kg	0.16	1	06/28/20 13:03	06/29/20 18:06	7440-43-9	
Chromium	**18.9**	mg/kg	0.53	1	06/28/20 13:03	06/29/20 18:06	7440-47-3	
Lead	**3.3**	mg/kg	0.53	1	06/28/20 13:03	06/29/20 18:06	7439-92-1	
Selenium	ND	mg/kg	1.1	1	06/28/20 13:03	06/29/20 18:06	7782-49-2	
Silver	ND	mg/kg	0.53	1	06/28/20 13:03	06/29/20 18:06	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.019	1	06/28/20 13:33	06/30/20 17:15	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**8.6**	%	0.10	1		07/07/20 11:19		N2
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3550C Pace Analytical Services - Minneapolis							
Acenaphthene	ND	ug/kg	10.9	1	06/25/20 17:54	06/26/20 17:10	83-32-9	
Acenaphthylene	ND	ug/kg	10.9	1	06/25/20 17:54	06/26/20 17:10	208-96-8	
Anthracene	ND	ug/kg	10.9	1	06/25/20 17:54	06/26/20 17:10	120-12-7	
Benzo(a)anthracene	ND	ug/kg	10.9	1	06/25/20 17:54	06/26/20 17:10	56-55-3	
Benzo(a)pyrene	ND	ug/kg	10.9	1	06/25/20 17:54	06/26/20 17:10	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	10.9	1	06/25/20 17:54	06/26/20 17:10	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	10.9	1	06/25/20 17:54	06/26/20 17:10	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	10.9	1	06/25/20 17:54	06/26/20 17:10	207-08-9	
Chrysene	ND	ug/kg	10.9	1	06/25/20 17:54	06/26/20 17:10	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	10.9	1	06/25/20 17:54	06/26/20 17:10	53-70-3	
Fluoranthene	ND	ug/kg	10.9	1	06/25/20 17:54	06/26/20 17:10	206-44-0	
Fluorene	ND	ug/kg	10.9	1	06/25/20 17:54	06/26/20 17:10	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	10.9	1	06/25/20 17:54	06/26/20 17:10	193-39-5	
Naphthalene	ND	ug/kg	10.9	1	06/25/20 17:54	06/26/20 17:10	91-20-3	

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Sample: TT-1 (2'-4') **Lab ID: 10522854005** Collected: 06/24/20 16:30 Received: 06/25/20 11:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3550C Pace Analytical Services - Minneapolis							
Phenanthrene	ND	ug/kg	10.9	1	06/25/20 17:54	06/26/20 17:10	85-01-8	
Pyrene	ND	ug/kg	10.9	1	06/25/20 17:54	06/26/20 17:10	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	ND	ug/kg	10.9	1	06/25/20 17:54	06/26/20 17:10		N2
Surrogates								
2-Fluorobiphenyl (S)	55	%.	30-138	1	06/25/20 17:54	06/26/20 17:10	321-60-8	
p-Terphenyl-d14 (S)	91	%.	30-143	1	06/25/20 17:54	06/26/20 17:10	1718-51-0	
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Acetone	ND	mg/kg	2.75	2	06/24/20 16:30	07/02/20 14:33	67-64-1	
Allyl chloride	ND	mg/kg	1.37	2	06/24/20 16:30	07/02/20 14:33	107-05-1	
Benzene	ND	mg/kg	0.0550	2	06/24/20 16:30	07/02/20 14:33	71-43-2	
Bromobenzene	ND	mg/kg	0.687	2	06/24/20 16:30	07/02/20 14:33	108-86-1	
Bromochloromethane	ND	mg/kg	0.275	2	06/24/20 16:30	07/02/20 14:33	74-97-5	
Bromodichloromethane	ND	mg/kg	0.137	2	06/24/20 16:30	07/02/20 14:33	75-27-4	
Bromoform	ND	mg/kg	1.37	2	06/24/20 16:30	07/02/20 14:33	75-25-2	
Bromomethane	ND	mg/kg	0.687	2	06/24/20 16:30	07/02/20 14:33	74-83-9	
n-Butylbenzene	ND	mg/kg	0.687	2	06/24/20 16:30	07/02/20 14:33	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.687	2	06/24/20 16:30	07/02/20 14:33	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.275	2	06/24/20 16:30	07/02/20 14:33	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.275	2	06/24/20 16:30	07/02/20 14:33	56-23-5	
Chlorobenzene	ND	mg/kg	0.137	2	06/24/20 16:30	07/02/20 14:33	108-90-7	
Dibromochloromethane	ND	mg/kg	0.137	2	06/24/20 16:30	07/02/20 14:33	124-48-1	
Chloroethane	ND	mg/kg	0.275	2	06/24/20 16:30	07/02/20 14:33	75-00-3	
Chloroform	ND	mg/kg	0.137	2	06/24/20 16:30	07/02/20 14:33	67-66-3	
Chloromethane	ND	mg/kg	0.687	2	06/24/20 16:30	07/02/20 14:33	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.137	2	06/24/20 16:30	07/02/20 14:33	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.275	2	06/24/20 16:30	07/02/20 14:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	1.37	2	06/24/20 16:30	07/02/20 14:33	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.137	2	06/24/20 16:30	07/02/20 14:33	106-93-4	
Dibromomethane	ND	mg/kg	0.275	2	06/24/20 16:30	07/02/20 14:33	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.275	2	06/24/20 16:30	07/02/20 14:33	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.275	2	06/24/20 16:30	07/02/20 14:33	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.275	2	06/24/20 16:30	07/02/20 14:33	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.137	2	06/24/20 16:30	07/02/20 14:33	75-71-8	
Dichlorofluoromethane	ND	mg/kg	0.137	2	06/24/20 16:30	07/02/20 14:33	75-43-4	
1,1-Dichloroethane	ND	mg/kg	0.137	2	06/24/20 16:30	07/02/20 14:33	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.137	2	06/24/20 16:30	07/02/20 14:33	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.137	2	06/24/20 16:30	07/02/20 14:33	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.137	2	06/24/20 16:30	07/02/20 14:33	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.275	2	06/24/20 16:30	07/02/20 14:33	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.275	2	06/24/20 16:30	07/02/20 14:33	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.137	2	06/24/20 16:30	07/02/20 14:33	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.275	2	06/24/20 16:30	07/02/20 14:33	142-28-9	L0
cis-1,3-Dichloropropene	ND	mg/kg	0.137	2	06/24/20 16:30	07/02/20 14:33	10061-01-5	L0

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Sample: TT-1 (2'-4') **Lab ID: 10522854005** Collected: 06/24/20 16:30 Received: 06/25/20 11:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
trans-1,3-Dichloropropene	ND	mg/kg	0.275	2	06/24/20 16:30	07/02/20 14:33	10061-02-6	
2,2-Dichloropropane	ND	mg/kg	0.137	2	06/24/20 16:30	07/02/20 14:33	594-20-7	
Diisopropyl ether	ND	mg/kg	0.0550	2	06/24/20 16:30	07/02/20 14:33	108-20-3	
Ethylbenzene	ND	mg/kg	0.137	2	06/24/20 16:30	07/02/20 14:33	100-41-4	
Diethyl ether (Ethyl ether)	ND	mg/kg	0.137	2	06/24/20 16:30	07/02/20 14:33	60-29-7	
Hexachloro-1,3-butadiene	ND	mg/kg	1.37	2	06/24/20 16:30	07/02/20 14:33	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.137	2	06/24/20 16:30	07/02/20 14:33	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.275	2	06/24/20 16:30	07/02/20 14:33	99-87-6	
2-Butanone (MEK)	ND	mg/kg	5.50	2	06/24/20 16:30	07/02/20 14:33	78-93-3	
Methylene Chloride	ND	mg/kg	1.37	2	06/24/20 16:30	07/02/20 14:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	1.37	2	06/24/20 16:30	07/02/20 14:33	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0550	2	06/24/20 16:30	07/02/20 14:33	1634-04-4	
Naphthalene	ND	mg/kg	0.687	2	06/24/20 16:30	07/02/20 14:33	91-20-3	
n-Propylbenzene	ND	mg/kg	0.275	2	06/24/20 16:30	07/02/20 14:33	103-65-1	
Styrene	ND	mg/kg	0.687	2	06/24/20 16:30	07/02/20 14:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.137	2	06/24/20 16:30	07/02/20 14:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.137	2	06/24/20 16:30	07/02/20 14:33	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.137	2	06/24/20 16:30	07/02/20 14:33	76-13-1	R1
Tetrachloroethene	ND	mg/kg	0.137	2	06/24/20 16:30	07/02/20 14:33	127-18-4	
Tetrahydrofuran	ND	mg/kg	0.687	2	06/24/20 16:30	07/02/20 14:33	109-99-9	
Toluene	ND	mg/kg	0.275	2	06/24/20 16:30	07/02/20 14:33	108-88-3	L0
1,2,3-Trichlorobenzene	ND	mg/kg	0.687	2	06/24/20 16:30	07/02/20 14:33	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.687	2	06/24/20 16:30	07/02/20 14:33	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.137	2	06/24/20 16:30	07/02/20 14:33	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.137	2	06/24/20 16:30	07/02/20 14:33	79-00-5	
Trichloroethene	ND	mg/kg	0.0550	2	06/24/20 16:30	07/02/20 14:33	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.137	2	06/24/20 16:30	07/02/20 14:33	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.687	2	06/24/20 16:30	07/02/20 14:33	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.275	2	06/24/20 16:30	07/02/20 14:33	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.275	2	06/24/20 16:30	07/02/20 14:33	108-67-8	L0
Vinyl chloride	ND	mg/kg	0.137	2	06/24/20 16:30	07/02/20 14:33	75-01-4	
Xylene (Total)	ND	mg/kg	0.357	2	06/24/20 16:30	07/02/20 14:33	1330-20-7	
Surrogates								
Toluene-d8 (S)	111	%	75.0-131	2	06/24/20 16:30	07/02/20 14:33	2037-26-5	
4-Bromofluorobenzene (S)	100	%	67.0-138	2	06/24/20 16:30	07/02/20 14:33	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70.0-130	2	06/24/20 16:30	07/02/20 14:33	17060-07-0	
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet							
Total Solids	**90.9**	%		1	06/30/20 21:24	06/30/20 21:40		

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Sample: TT-1 Hotspot (2-4) **Lab ID: 10522854006** Collected: 06/24/20 16:15 Received: 06/25/20 11:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO Pace Analytical Services - Minneapolis							
WDRO C10-C28	**48.6**	mg/kg	9.5	1	06/25/20 17:09	06/27/20 18:58		T6
Surrogates								
n-Triacontane (S)	76	%.	50-150	1	06/25/20 17:09	06/27/20 18:58	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: EPA 5030 Medium Soil Pace Analytical Services - Minneapolis							
Gasoline Range Organics	**199**	mg/kg	11.1	1	06/29/20 11:04	07/01/20 02:01		G+
Surrogates								
a,a,a-Trifluorotoluene (S)	92	%.	80-150	1	06/29/20 11:04	07/01/20 02:01	98-08-8	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**2.0**	mg/kg	1.1	1	06/28/20 13:03	06/29/20 18:08	7440-38-2	
Barium	**45.2**	mg/kg	0.53	1	06/28/20 13:03	06/29/20 18:08	7440-39-3	
Cadmium	ND	mg/kg	0.16	1	06/28/20 13:03	06/29/20 18:08	7440-43-9	
Chromium	**18.2**	mg/kg	0.53	1	06/28/20 13:03	06/29/20 18:08	7440-47-3	
Lead	**6.3**	mg/kg	0.53	1	06/28/20 13:03	06/29/20 18:08	7439-92-1	
Selenium	ND	mg/kg	1.1	1	06/28/20 13:03	06/29/20 18:08	7782-49-2	
Silver	ND	mg/kg	0.53	1	06/28/20 13:03	06/29/20 18:08	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.064**	mg/kg	0.019	1	06/28/20 13:33	06/30/20 17:17	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**9.0**	%	0.10	1		07/07/20 11:19		N2
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3550C Pace Analytical Services - Minneapolis							
Acenaphthene	ND	ug/kg	11.0	1	06/25/20 17:54	06/26/20 17:31	83-32-9	
Acenaphthylene	ND	ug/kg	11.0	1	06/25/20 17:54	06/26/20 17:31	208-96-8	
Anthracene	ND	ug/kg	11.0	1	06/25/20 17:54	06/26/20 17:31	120-12-7	
Benzo(a)anthracene	ND	ug/kg	11.0	1	06/25/20 17:54	06/26/20 17:31	56-55-3	
Benzo(a)pyrene	ND	ug/kg	11.0	1	06/25/20 17:54	06/26/20 17:31	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	11.0	1	06/25/20 17:54	06/26/20 17:31	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	11.0	1	06/25/20 17:54	06/26/20 17:31	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	11.0	1	06/25/20 17:54	06/26/20 17:31	207-08-9	
Chrysene	ND	ug/kg	11.0	1	06/25/20 17:54	06/26/20 17:31	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	11.0	1	06/25/20 17:54	06/26/20 17:31	53-70-3	
Fluoranthene	**12.9**	ug/kg	11.0	1	06/25/20 17:54	06/26/20 17:31	206-44-0	
Fluorene	ND	ug/kg	11.0	1	06/25/20 17:54	06/26/20 17:31	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	11.0	1	06/25/20 17:54	06/26/20 17:31	193-39-5	
Naphthalene	**13.4**	ug/kg	11.0	1	06/25/20 17:54	06/26/20 17:31	91-20-3	

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(612)607-1700

ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Sample: TT-1 Hotspot (2-4) **Lab ID: 10522854006** Collected: 06/24/20 16:15 Received: 06/25/20 11:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3550C Pace Analytical Services - Minneapolis							
Phenanthrene	ND	ug/kg	11.0	1	06/25/20 17:54	06/26/20 17:31	85-01-8	
Pyrene	**12.4**	ug/kg	11.0	1	06/25/20 17:54	06/26/20 17:31	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	ND	ug/kg	11.0	1	06/25/20 17:54	06/26/20 17:31		N2
Surrogates								
2-Fluorobiphenyl (S)	74	%.	30-138	1	06/25/20 17:54	06/26/20 17:31	321-60-8	
p-Terphenyl-d14 (S)	91	%.	30-143	1	06/25/20 17:54	06/26/20 17:31	1718-51-0	
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Acetone	ND	mg/kg	2.87	2	06/24/20 16:15	07/02/20 14:53	67-64-1	
Allyl chloride	ND	mg/kg	1.43	2	06/24/20 16:15	07/02/20 14:53	107-05-1	
Benzene	ND	mg/kg	0.0574	2	06/24/20 16:15	07/02/20 14:53	71-43-2	
Bromobenzene	ND	mg/kg	0.717	2	06/24/20 16:15	07/02/20 14:53	108-86-1	
Bromochloromethane	ND	mg/kg	0.287	2	06/24/20 16:15	07/02/20 14:53	74-97-5	
Bromodichloromethane	ND	mg/kg	0.143	2	06/24/20 16:15	07/02/20 14:53	75-27-4	
Bromoform	ND	mg/kg	1.43	2	06/24/20 16:15	07/02/20 14:53	75-25-2	
Bromomethane	ND	mg/kg	0.717	2	06/24/20 16:15	07/02/20 14:53	74-83-9	
n-Butylbenzene	ND	mg/kg	0.717	2	06/24/20 16:15	07/02/20 14:53	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.717	2	06/24/20 16:15	07/02/20 14:53	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.287	2	06/24/20 16:15	07/02/20 14:53	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.287	2	06/24/20 16:15	07/02/20 14:53	56-23-5	
Chlorobenzene	ND	mg/kg	0.143	2	06/24/20 16:15	07/02/20 14:53	108-90-7	
Dibromochloromethane	ND	mg/kg	0.143	2	06/24/20 16:15	07/02/20 14:53	124-48-1	
Chloroethane	ND	mg/kg	0.287	2	06/24/20 16:15	07/02/20 14:53	75-00-3	
Chloroform	ND	mg/kg	0.143	2	06/24/20 16:15	07/02/20 14:53	67-66-3	
Chloromethane	ND	mg/kg	0.717	2	06/24/20 16:15	07/02/20 14:53	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.143	2	06/24/20 16:15	07/02/20 14:53	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.287	2	06/24/20 16:15	07/02/20 14:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	1.43	2	06/24/20 16:15	07/02/20 14:53	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.143	2	06/24/20 16:15	07/02/20 14:53	106-93-4	
Dibromomethane	ND	mg/kg	0.287	2	06/24/20 16:15	07/02/20 14:53	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.287	2	06/24/20 16:15	07/02/20 14:53	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.287	2	06/24/20 16:15	07/02/20 14:53	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.287	2	06/24/20 16:15	07/02/20 14:53	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.143	2	06/24/20 16:15	07/02/20 14:53	75-71-8	
Dichlorofluoromethane	ND	mg/kg	0.143	2	06/24/20 16:15	07/02/20 14:53	75-43-4	
1,1-Dichloroethane	ND	mg/kg	0.143	2	06/24/20 16:15	07/02/20 14:53	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.143	2	06/24/20 16:15	07/02/20 14:53	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.143	2	06/24/20 16:15	07/02/20 14:53	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.143	2	06/24/20 16:15	07/02/20 14:53	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.287	2	06/24/20 16:15	07/02/20 14:53	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.287	2	06/24/20 16:15	07/02/20 14:53	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.143	2	06/24/20 16:15	07/02/20 14:53	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.287	2	06/24/20 16:15	07/02/20 14:53	142-28-9	L0
cis-1,3-Dichloropropene	ND	mg/kg	0.143	2	06/24/20 16:15	07/02/20 14:53	10061-01-5	L0

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Sample: TT-1 Hotspot (2-4) **Lab ID: 10522854006** Collected: 06/24/20 16:15 Received: 06/25/20 11:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
trans-1,3-Dichloropropene	ND	mg/kg	0.287	2	06/24/20 16:15	07/02/20 14:53	10061-02-6	
2,2-Dichloropropane	ND	mg/kg	0.143	2	06/24/20 16:15	07/02/20 14:53	594-20-7	
Diisopropyl ether	ND	mg/kg	0.0574	2	06/24/20 16:15	07/02/20 14:53	108-20-3	
Ethylbenzene	ND	mg/kg	0.143	2	06/24/20 16:15	07/02/20 14:53	100-41-4	
Diethyl ether (Ethyl ether)	ND	mg/kg	0.143	2	06/24/20 16:15	07/02/20 14:53	60-29-7	
Hexachloro-1,3-butadiene	ND	mg/kg	1.43	2	06/24/20 16:15	07/02/20 14:53	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.143	2	06/24/20 16:15	07/02/20 14:53	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.287	2	06/24/20 16:15	07/02/20 14:53	99-87-6	
2-Butanone (MEK)	ND	mg/kg	5.74	2	06/24/20 16:15	07/02/20 14:53	78-93-3	
Methylene Chloride	ND	mg/kg	1.43	2	06/24/20 16:15	07/02/20 14:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	1.43	2	06/24/20 16:15	07/02/20 14:53	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0574	2	06/24/20 16:15	07/02/20 14:53	1634-04-4	
Naphthalene	ND	mg/kg	0.717	2	06/24/20 16:15	07/02/20 14:53	91-20-3	
n-Propylbenzene	ND	mg/kg	0.287	2	06/24/20 16:15	07/02/20 14:53	103-65-1	
Styrene	ND	mg/kg	0.717	2	06/24/20 16:15	07/02/20 14:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.143	2	06/24/20 16:15	07/02/20 14:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.143	2	06/24/20 16:15	07/02/20 14:53	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.143	2	06/24/20 16:15	07/02/20 14:53	76-13-1	R1
Tetrachloroethene	ND	mg/kg	0.143	2	06/24/20 16:15	07/02/20 14:53	127-18-4	
Tetrahydrofuran	ND	mg/kg	0.717	2	06/24/20 16:15	07/02/20 14:53	109-99-9	
Toluene	ND	mg/kg	0.287	2	06/24/20 16:15	07/02/20 14:53	108-88-3	L0
1,2,3-Trichlorobenzene	ND	mg/kg	0.717	2	06/24/20 16:15	07/02/20 14:53	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.717	2	06/24/20 16:15	07/02/20 14:53	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.143	2	06/24/20 16:15	07/02/20 14:53	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.143	2	06/24/20 16:15	07/02/20 14:53	79-00-5	
Trichloroethene	ND	mg/kg	0.0574	2	06/24/20 16:15	07/02/20 14:53	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.143	2	06/24/20 16:15	07/02/20 14:53	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.717	2	06/24/20 16:15	07/02/20 14:53	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.287	2	06/24/20 16:15	07/02/20 14:53	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.287	2	06/24/20 16:15	07/02/20 14:53	108-67-8	L0
Vinyl chloride	ND	mg/kg	0.143	2	06/24/20 16:15	07/02/20 14:53	75-01-4	
Xylene (Total)	ND	mg/kg	0.373	2	06/24/20 16:15	07/02/20 14:53	1330-20-7	
Surrogates								
Toluene-d8 (S)	105	%	75.0-131	2	06/24/20 16:15	07/02/20 14:53	2037-26-5	
4-Bromofluorobenzene (S)	96.0	%	67.0-138	2	06/24/20 16:15	07/02/20 14:53	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70.0-130	2	06/24/20 16:15	07/02/20 14:53	17060-07-0	
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet							
Total Solids	**87.1**	%		1	06/30/20 21:24	06/30/20 21:40		

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Sample: TT-2 (2-3') **Lab ID: 10522854007** Collected: 06/24/20 14:45 Received: 06/25/20 11:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**1.8**	mg/kg	1.1	1	06/28/20 13:03	06/29/20 18:11	7440-38-2	
Barium	**31.4**	mg/kg	0.53	1	06/28/20 13:03	06/29/20 18:11	7440-39-3	
Cadmium	ND	mg/kg	0.16	1	06/28/20 13:03	06/29/20 18:11	7440-43-9	
Chromium	**10.7**	mg/kg	0.53	1	06/28/20 13:03	06/29/20 18:11	7440-47-3	
Lead	**4.9**	mg/kg	0.53	1	06/28/20 13:03	06/29/20 18:11	7439-92-1	
Selenium	ND	mg/kg	1.1	1	06/28/20 13:03	06/29/20 18:11	7782-49-2	
Silver	ND	mg/kg	0.53	1	06/28/20 13:03	06/29/20 18:11	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.022	1	06/28/20 13:33	06/30/20 17:20	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**11.4**	%	0.10	1		07/07/20 11:19		N2
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3550C Pace Analytical Services - Minneapolis							
Acenaphthene	ND	ug/kg	11.3	1	06/25/20 17:54	06/26/20 17:51	83-32-9	
Acenaphthylene	ND	ug/kg	11.3	1	06/25/20 17:54	06/26/20 17:51	208-96-8	
Anthracene	ND	ug/kg	11.3	1	06/25/20 17:54	06/26/20 17:51	120-12-7	
Benzo(a)anthracene	ND	ug/kg	11.3	1	06/25/20 17:54	06/26/20 17:51	56-55-3	
Benzo(a)pyrene	ND	ug/kg	11.3	1	06/25/20 17:54	06/26/20 17:51	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	11.3	1	06/25/20 17:54	06/26/20 17:51	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	11.3	1	06/25/20 17:54	06/26/20 17:51	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	11.3	1	06/25/20 17:54	06/26/20 17:51	207-08-9	
Chrysene	ND	ug/kg	11.3	1	06/25/20 17:54	06/26/20 17:51	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	11.3	1	06/25/20 17:54	06/26/20 17:51	53-70-3	
Fluoranthene	ND	ug/kg	11.3	1	06/25/20 17:54	06/26/20 17:51	206-44-0	
Fluorene	ND	ug/kg	11.3	1	06/25/20 17:54	06/26/20 17:51	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	11.3	1	06/25/20 17:54	06/26/20 17:51	193-39-5	
Naphthalene	ND	ug/kg	11.3	1	06/25/20 17:54	06/26/20 17:51	91-20-3	
Phenanthrene	ND	ug/kg	11.3	1	06/25/20 17:54	06/26/20 17:51	85-01-8	
Pyrene	ND	ug/kg	11.3	1	06/25/20 17:54	06/26/20 17:51	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	ND	ug/kg	11.3	1	06/25/20 17:54	06/26/20 17:51		N2
Surrogates								
2-Fluorobiphenyl (S)	61	%.	30-138	1	06/25/20 17:54	06/26/20 17:51	321-60-8	
p-Terphenyl-d14 (S)	91	%.	30-143	1	06/25/20 17:54	06/26/20 17:51	1718-51-0	
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Acetone	ND	mg/kg	2.79	2	06/24/20 14:45	07/02/20 15:13	67-64-1	
Allyl chloride	ND	mg/kg	1.40	2	06/24/20 14:45	07/02/20 15:13	107-05-1	
Benzene	ND	mg/kg	0.0558	2	06/24/20 14:45	07/02/20 15:13	71-43-2	

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Sample: TT-2 (2-3') **Lab ID: 10522854007** Collected: 06/24/20 14:45 Received: 06/25/20 11:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Bromobenzene	ND	mg/kg	0.698	2	06/24/20 14:45	07/02/20 15:13	108-86-1	
Bromochloromethane	ND	mg/kg	0.279	2	06/24/20 14:45	07/02/20 15:13	74-97-5	
Bromodichloromethane	ND	mg/kg	0.140	2	06/24/20 14:45	07/02/20 15:13	75-27-4	
Bromoform	ND	mg/kg	1.40	2	06/24/20 14:45	07/02/20 15:13	75-25-2	
Bromomethane	ND	mg/kg	0.698	2	06/24/20 14:45	07/02/20 15:13	74-83-9	
n-Butylbenzene	ND	mg/kg	0.698	2	06/24/20 14:45	07/02/20 15:13	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.698	2	06/24/20 14:45	07/02/20 15:13	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.279	2	06/24/20 14:45	07/02/20 15:13	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.279	2	06/24/20 14:45	07/02/20 15:13	56-23-5	
Chlorobenzene	ND	mg/kg	0.140	2	06/24/20 14:45	07/02/20 15:13	108-90-7	
Dibromochloromethane	ND	mg/kg	0.140	2	06/24/20 14:45	07/02/20 15:13	124-48-1	
Chloroethane	ND	mg/kg	0.279	2	06/24/20 14:45	07/02/20 15:13	75-00-3	
Chloroform	ND	mg/kg	0.140	2	06/24/20 14:45	07/02/20 15:13	67-66-3	
Chloromethane	ND	mg/kg	0.698	2	06/24/20 14:45	07/02/20 15:13	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.140	2	06/24/20 14:45	07/02/20 15:13	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.279	2	06/24/20 14:45	07/02/20 15:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	1.40	2	06/24/20 14:45	07/02/20 15:13	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.140	2	06/24/20 14:45	07/02/20 15:13	106-93-4	
Dibromomethane	ND	mg/kg	0.279	2	06/24/20 14:45	07/02/20 15:13	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.279	2	06/24/20 14:45	07/02/20 15:13	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.279	2	06/24/20 14:45	07/02/20 15:13	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.279	2	06/24/20 14:45	07/02/20 15:13	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.140	2	06/24/20 14:45	07/02/20 15:13	75-71-8	
Dichlorofluoromethane	ND	mg/kg	0.140	2	06/24/20 14:45	07/02/20 15:13	75-43-4	
1,1-Dichloroethane	ND	mg/kg	0.140	2	06/24/20 14:45	07/02/20 15:13	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.140	2	06/24/20 14:45	07/02/20 15:13	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.140	2	06/24/20 14:45	07/02/20 15:13	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.140	2	06/24/20 14:45	07/02/20 15:13	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.279	2	06/24/20 14:45	07/02/20 15:13	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.279	2	06/24/20 14:45	07/02/20 15:13	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.140	2	06/24/20 14:45	07/02/20 15:13	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.279	2	06/24/20 14:45	07/02/20 15:13	142-28-9	L0
cis-1,3-Dichloropropene	ND	mg/kg	0.140	2	06/24/20 14:45	07/02/20 15:13	10061-01-5	L0
trans-1,3-Dichloropropene	ND	mg/kg	0.279	2	06/24/20 14:45	07/02/20 15:13	10061-02-6	
2,2-Dichloropropane	ND	mg/kg	0.140	2	06/24/20 14:45	07/02/20 15:13	594-20-7	
Diisopropyl ether	ND	mg/kg	0.0558	2	06/24/20 14:45	07/02/20 15:13	108-20-3	
Ethylbenzene	ND	mg/kg	0.140	2	06/24/20 14:45	07/02/20 15:13	100-41-4	
Diethyl ether (Ethyl ether)	ND	mg/kg	0.140	2	06/24/20 14:45	07/02/20 15:13	60-29-7	
Hexachloro-1,3-butadiene	ND	mg/kg	1.40	2	06/24/20 14:45	07/02/20 15:13	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.140	2	06/24/20 14:45	07/02/20 15:13	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.279	2	06/24/20 14:45	07/02/20 15:13	99-87-6	
2-Butanone (MEK)	ND	mg/kg	5.58	2	06/24/20 14:45	07/02/20 15:13	78-93-3	
Methylene Chloride	ND	mg/kg	1.40	2	06/24/20 14:45	07/02/20 15:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	1.40	2	06/24/20 14:45	07/02/20 15:13	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0558	2	06/24/20 14:45	07/02/20 15:13	1634-04-4	

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Sample: TT-2 (2-3') **Lab ID: 10522854007** Collected: 06/24/20 14:45 Received: 06/25/20 11:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Naphthalene	ND	mg/kg	0.698	2	06/24/20 14:45	07/02/20 15:13	91-20-3	
n-Propylbenzene	ND	mg/kg	0.279	2	06/24/20 14:45	07/02/20 15:13	103-65-1	
Styrene	ND	mg/kg	0.698	2	06/24/20 14:45	07/02/20 15:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.140	2	06/24/20 14:45	07/02/20 15:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.140	2	06/24/20 14:45	07/02/20 15:13	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.140	2	06/24/20 14:45	07/02/20 15:13	76-13-1	R1
Tetrachloroethene	ND	mg/kg	0.140	2	06/24/20 14:45	07/02/20 15:13	127-18-4	
Tetrahydrofuran	ND	mg/kg	0.698	2	06/24/20 14:45	07/02/20 15:13	109-99-9	
Toluene	ND	mg/kg	0.279	2	06/24/20 14:45	07/02/20 15:13	108-88-3	L0
1,2,3-Trichlorobenzene	ND	mg/kg	0.698	2	06/24/20 14:45	07/02/20 15:13	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.698	2	06/24/20 14:45	07/02/20 15:13	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.140	2	06/24/20 14:45	07/02/20 15:13	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.140	2	06/24/20 14:45	07/02/20 15:13	79-00-5	
Trichloroethene	ND	mg/kg	0.0558	2	06/24/20 14:45	07/02/20 15:13	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.140	2	06/24/20 14:45	07/02/20 15:13	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.698	2	06/24/20 14:45	07/02/20 15:13	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.279	2	06/24/20 14:45	07/02/20 15:13	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.279	2	06/24/20 14:45	07/02/20 15:13	108-67-8	L0
Vinyl chloride	ND	mg/kg	0.140	2	06/24/20 14:45	07/02/20 15:13	75-01-4	
Xylene (Total)	ND	mg/kg	0.363	2	06/24/20 14:45	07/02/20 15:13	1330-20-7	
Surrogates								
Toluene-d8 (S)	111	%	75.0-131	2	06/24/20 14:45	07/02/20 15:13	2037-26-5	
4-Bromofluorobenzene (S)	100	%	67.0-138	2	06/24/20 14:45	07/02/20 15:13	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70.0-130	2	06/24/20 14:45	07/02/20 15:13	17060-07-0	
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet							
Total Solids	**89.5**	%		1	07/02/20 00:40	07/02/20 00:51		

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Sample: TT-3 (1-2) **Lab ID: 10522854008** Collected: 06/24/20 14:14 Received: 06/25/20 11:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**1.8**	mg/kg	1.1	1	06/28/20 13:03	06/29/20 18:14	7440-38-2	
Barium	**57.9**	mg/kg	0.55	1	06/28/20 13:03	06/29/20 18:14	7440-39-3	
Cadmium	ND	mg/kg	0.16	1	06/28/20 13:03	06/29/20 18:14	7440-43-9	
Chromium	**17.4**	mg/kg	0.55	1	06/28/20 13:03	06/29/20 18:14	7440-47-3	
Lead	**4.6**	mg/kg	0.55	1	06/28/20 13:03	06/29/20 18:14	7439-92-1	
Selenium	ND	mg/kg	1.1	1	06/28/20 13:03	06/29/20 18:14	7782-49-2	
Silver	ND	mg/kg	0.55	1	06/28/20 13:03	06/29/20 18:14	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.041**	mg/kg	0.021	1	06/28/20 13:33	06/30/20 17:22	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**10.6**	%	0.10	1		07/07/20 11:19		N2
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3550C Pace Analytical Services - Minneapolis							
Acenaphthene	ND	ug/kg	11.2	1	06/25/20 17:54	06/26/20 18:12	83-32-9	
Acenaphthylene	ND	ug/kg	11.2	1	06/25/20 17:54	06/26/20 18:12	208-96-8	
Anthracene	ND	ug/kg	11.2	1	06/25/20 17:54	06/26/20 18:12	120-12-7	
Benzo(a)anthracene	ND	ug/kg	11.2	1	06/25/20 17:54	06/26/20 18:12	56-55-3	
Benzo(a)pyrene	ND	ug/kg	11.2	1	06/25/20 17:54	06/26/20 18:12	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	11.2	1	06/25/20 17:54	06/26/20 18:12	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	11.2	1	06/25/20 17:54	06/26/20 18:12	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	11.2	1	06/25/20 17:54	06/26/20 18:12	207-08-9	
Chrysene	ND	ug/kg	11.2	1	06/25/20 17:54	06/26/20 18:12	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	11.2	1	06/25/20 17:54	06/26/20 18:12	53-70-3	
Fluoranthene	ND	ug/kg	11.2	1	06/25/20 17:54	06/26/20 18:12	206-44-0	
Fluorene	ND	ug/kg	11.2	1	06/25/20 17:54	06/26/20 18:12	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	11.2	1	06/25/20 17:54	06/26/20 18:12	193-39-5	
Naphthalene	ND	ug/kg	11.2	1	06/25/20 17:54	06/26/20 18:12	91-20-3	
Phenanthrene	ND	ug/kg	11.2	1	06/25/20 17:54	06/26/20 18:12	85-01-8	
Pyrene	ND	ug/kg	11.2	1	06/25/20 17:54	06/26/20 18:12	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	ND	ug/kg	11.2	1	06/25/20 17:54	06/26/20 18:12		N2
Surrogates								
2-Fluorobiphenyl (S)	61	%.	30-138	1	06/25/20 17:54	06/26/20 18:12	321-60-8	
p-Terphenyl-d14 (S)	91	%.	30-143	1	06/25/20 17:54	06/26/20 18:12	1718-51-0	
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Acetone	ND	mg/kg	2.76	2	06/24/20 14:14	07/02/20 15:33	67-64-1	
Allyl chloride	ND	mg/kg	1.38	2	06/24/20 14:14	07/02/20 15:33	107-05-1	
Benzene	ND	mg/kg	0.0552	2	06/24/20 14:14	07/02/20 15:33	71-43-2	

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Sample: TT-3 (1-2) **Lab ID: 10522854008** Collected: 06/24/20 14:14 Received: 06/25/20 11:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Bromobenzene	ND	mg/kg	0.690	2	06/24/20 14:14	07/02/20 15:33	108-86-1	
Bromochloromethane	ND	mg/kg	0.276	2	06/24/20 14:14	07/02/20 15:33	74-97-5	
Bromodichloromethane	ND	mg/kg	0.138	2	06/24/20 14:14	07/02/20 15:33	75-27-4	
Bromoform	ND	mg/kg	1.38	2	06/24/20 14:14	07/02/20 15:33	75-25-2	
Bromomethane	ND	mg/kg	0.690	2	06/24/20 14:14	07/02/20 15:33	74-83-9	
n-Butylbenzene	ND	mg/kg	0.690	2	06/24/20 14:14	07/02/20 15:33	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.690	2	06/24/20 14:14	07/02/20 15:33	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.276	2	06/24/20 14:14	07/02/20 15:33	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.276	2	06/24/20 14:14	07/02/20 15:33	56-23-5	
Chlorobenzene	ND	mg/kg	0.138	2	06/24/20 14:14	07/02/20 15:33	108-90-7	
Dibromochloromethane	ND	mg/kg	0.138	2	06/24/20 14:14	07/02/20 15:33	124-48-1	
Chloroethane	ND	mg/kg	0.276	2	06/24/20 14:14	07/02/20 15:33	75-00-3	
Chloroform	ND	mg/kg	0.138	2	06/24/20 14:14	07/02/20 15:33	67-66-3	
Chloromethane	ND	mg/kg	0.690	2	06/24/20 14:14	07/02/20 15:33	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.138	2	06/24/20 14:14	07/02/20 15:33	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.276	2	06/24/20 14:14	07/02/20 15:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	1.38	2	06/24/20 14:14	07/02/20 15:33	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.138	2	06/24/20 14:14	07/02/20 15:33	106-93-4	
Dibromomethane	ND	mg/kg	0.276	2	06/24/20 14:14	07/02/20 15:33	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.276	2	06/24/20 14:14	07/02/20 15:33	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.276	2	06/24/20 14:14	07/02/20 15:33	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.276	2	06/24/20 14:14	07/02/20 15:33	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.138	2	06/24/20 14:14	07/02/20 15:33	75-71-8	
Dichlorofluoromethane	ND	mg/kg	0.138	2	06/24/20 14:14	07/02/20 15:33	75-43-4	
1,1-Dichloroethane	ND	mg/kg	0.138	2	06/24/20 14:14	07/02/20 15:33	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.138	2	06/24/20 14:14	07/02/20 15:33	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.138	2	06/24/20 14:14	07/02/20 15:33	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.138	2	06/24/20 14:14	07/02/20 15:33	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.276	2	06/24/20 14:14	07/02/20 15:33	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.276	2	06/24/20 14:14	07/02/20 15:33	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.138	2	06/24/20 14:14	07/02/20 15:33	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.276	2	06/24/20 14:14	07/02/20 15:33	142-28-9	L0
cis-1,3-Dichloropropene	ND	mg/kg	0.138	2	06/24/20 14:14	07/02/20 15:33	10061-01-5	L0
trans-1,3-Dichloropropene	ND	mg/kg	0.276	2	06/24/20 14:14	07/02/20 15:33	10061-02-6	
2,2-Dichloropropane	ND	mg/kg	0.138	2	06/24/20 14:14	07/02/20 15:33	594-20-7	
Diisopropyl ether	ND	mg/kg	0.0552	2	06/24/20 14:14	07/02/20 15:33	108-20-3	
Ethylbenzene	ND	mg/kg	0.138	2	06/24/20 14:14	07/02/20 15:33	100-41-4	
Diethyl ether (Ethyl ether)	ND	mg/kg	0.138	2	06/24/20 14:14	07/02/20 15:33	60-29-7	
Hexachloro-1,3-butadiene	ND	mg/kg	1.38	2	06/24/20 14:14	07/02/20 15:33	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.138	2	06/24/20 14:14	07/02/20 15:33	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.276	2	06/24/20 14:14	07/02/20 15:33	99-87-6	
2-Butanone (MEK)	ND	mg/kg	5.52	2	06/24/20 14:14	07/02/20 15:33	78-93-3	
Methylene Chloride	ND	mg/kg	1.38	2	06/24/20 14:14	07/02/20 15:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	1.38	2	06/24/20 14:14	07/02/20 15:33	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0552	2	06/24/20 14:14	07/02/20 15:33	1634-04-4	

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Sample: TT-3 (1-2) **Lab ID: 10522854008** Collected: 06/24/20 14:14 Received: 06/25/20 11:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Naphthalene	ND	mg/kg	0.690	2	06/24/20 14:14	07/02/20 15:33	91-20-3	
n-Propylbenzene	ND	mg/kg	0.276	2	06/24/20 14:14	07/02/20 15:33	103-65-1	
Styrene	ND	mg/kg	0.690	2	06/24/20 14:14	07/02/20 15:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.138	2	06/24/20 14:14	07/02/20 15:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.138	2	06/24/20 14:14	07/02/20 15:33	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.138	2	06/24/20 14:14	07/02/20 15:33	76-13-1	R1
Tetrachloroethene	ND	mg/kg	0.138	2	06/24/20 14:14	07/02/20 15:33	127-18-4	
Tetrahydrofuran	ND	mg/kg	0.690	2	06/24/20 14:14	07/02/20 15:33	109-99-9	
Toluene	ND	mg/kg	0.276	2	06/24/20 14:14	07/02/20 15:33	108-88-3	L0
1,2,3-Trichlorobenzene	ND	mg/kg	0.690	2	06/24/20 14:14	07/02/20 15:33	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.690	2	06/24/20 14:14	07/02/20 15:33	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.138	2	06/24/20 14:14	07/02/20 15:33	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.138	2	06/24/20 14:14	07/02/20 15:33	79-00-5	
Trichloroethene	ND	mg/kg	0.0552	2	06/24/20 14:14	07/02/20 15:33	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.138	2	06/24/20 14:14	07/02/20 15:33	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.690	2	06/24/20 14:14	07/02/20 15:33	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.276	2	06/24/20 14:14	07/02/20 15:33	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.276	2	06/24/20 14:14	07/02/20 15:33	108-67-8	L0
Vinyl chloride	ND	mg/kg	0.138	2	06/24/20 14:14	07/02/20 15:33	75-01-4	
Xylene (Total)	ND	mg/kg	0.359	2	06/24/20 14:14	07/02/20 15:33	1330-20-7	
Surrogates								
Toluene-d8 (S)	110	%	75.0-131	2	06/24/20 14:14	07/02/20 15:33	2037-26-5	
4-Bromofluorobenzene (S)	98.3	%	67.0-138	2	06/24/20 14:14	07/02/20 15:33	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70.0-130	2	06/24/20 14:14	07/02/20 15:33	17060-07-0	
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet							
Total Solids	**90.6**	%		1	07/02/20 00:40	07/02/20 00:51		

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Sample: MeOH Trip Blank **Lab ID: 10522854009** Collected: 06/24/20 00:00 Received: 06/25/20 11:05 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: EPA 5030 Medium Soil Pace Analytical Services - Minneapolis							
Gasoline Range Organics	ND	mg/kg	10.0	1	06/29/20 11:04	07/01/20 04:49		
Surrogates								
a,a,a-Trifluorotoluene (S)	99	%.	80-150	1	06/29/20 11:04	07/01/20 04:49	98-08-8	
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Acetone	ND	mg/kg	2.50	2	06/24/20 00:00	07/02/20 12:11	67-64-1	
Allyl chloride	ND	mg/kg	1.25	2	06/24/20 00:00	07/02/20 12:11	107-05-1	
Benzene	ND	mg/kg	0.0500	2	06/24/20 00:00	07/02/20 12:11	71-43-2	
Bromobenzene	ND	mg/kg	0.625	2	06/24/20 00:00	07/02/20 12:11	108-86-1	
Bromochloromethane	ND	mg/kg	0.250	2	06/24/20 00:00	07/02/20 12:11	74-97-5	
Bromodichloromethane	ND	mg/kg	0.125	2	06/24/20 00:00	07/02/20 12:11	75-27-4	
Bromoform	ND	mg/kg	1.25	2	06/24/20 00:00	07/02/20 12:11	75-25-2	
Bromomethane	ND	mg/kg	0.625	2	06/24/20 00:00	07/02/20 12:11	74-83-9	
n-Butylbenzene	ND	mg/kg	0.625	2	06/24/20 00:00	07/02/20 12:11	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.625	2	06/24/20 00:00	07/02/20 12:11	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.250	2	06/24/20 00:00	07/02/20 12:11	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.250	2	06/24/20 00:00	07/02/20 12:11	56-23-5	
Chlorobenzene	ND	mg/kg	0.125	2	06/24/20 00:00	07/02/20 12:11	108-90-7	
Dibromochloromethane	ND	mg/kg	0.125	2	06/24/20 00:00	07/02/20 12:11	124-48-1	
Chloroethane	ND	mg/kg	0.250	2	06/24/20 00:00	07/02/20 12:11	75-00-3	
Chloroform	ND	mg/kg	0.125	2	06/24/20 00:00	07/02/20 12:11	67-66-3	
Chloromethane	ND	mg/kg	0.625	2	06/24/20 00:00	07/02/20 12:11	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.125	2	06/24/20 00:00	07/02/20 12:11	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.250	2	06/24/20 00:00	07/02/20 12:11	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	1.25	2	06/24/20 00:00	07/02/20 12:11	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.125	2	06/24/20 00:00	07/02/20 12:11	106-93-4	
Dibromomethane	ND	mg/kg	0.250	2	06/24/20 00:00	07/02/20 12:11	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.250	2	06/24/20 00:00	07/02/20 12:11	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.250	2	06/24/20 00:00	07/02/20 12:11	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.250	2	06/24/20 00:00	07/02/20 12:11	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.125	2	06/24/20 00:00	07/02/20 12:11	75-71-8	
Dichlorofluoromethane	ND	mg/kg	0.125	2	06/24/20 00:00	07/02/20 12:11	75-43-4	
1,1-Dichloroethane	ND	mg/kg	0.125	2	06/24/20 00:00	07/02/20 12:11	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.125	2	06/24/20 00:00	07/02/20 12:11	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.125	2	06/24/20 00:00	07/02/20 12:11	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.125	2	06/24/20 00:00	07/02/20 12:11	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.250	2	06/24/20 00:00	07/02/20 12:11	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.250	2	06/24/20 00:00	07/02/20 12:11	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.125	2	06/24/20 00:00	07/02/20 12:11	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.250	2	06/24/20 00:00	07/02/20 12:11	142-28-9	L0
cis-1,3-Dichloropropene	ND	mg/kg	0.125	2	06/24/20 00:00	07/02/20 12:11	10061-01-5	L0
trans-1,3-Dichloropropene	ND	mg/kg	0.250	2	06/24/20 00:00	07/02/20 12:11	10061-02-6	
2,2-Dichloropropane	ND	mg/kg	0.125	2	06/24/20 00:00	07/02/20 12:11	594-20-7	
Diisopropyl ether	ND	mg/kg	0.0500	2	06/24/20 00:00	07/02/20 12:11	108-20-3	

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Sample: MeOH Trip Blank **Lab ID: 10522854009** Collected: 06/24/20 00:00 Received: 06/25/20 11:05 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Ethylbenzene	ND	mg/kg	0.125	2	06/24/20 00:00	07/02/20 12:11	100-41-4	
Diethyl ether (Ethyl ether)	ND	mg/kg	0.125	2	06/24/20 00:00	07/02/20 12:11	60-29-7	
Hexachloro-1,3-butadiene	ND	mg/kg	1.25	2	06/24/20 00:00	07/02/20 12:11	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.125	2	06/24/20 00:00	07/02/20 12:11	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.250	2	06/24/20 00:00	07/02/20 12:11	99-87-6	
2-Butanone (MEK)	ND	mg/kg	5.00	2	06/24/20 00:00	07/02/20 12:11	78-93-3	
Methylene Chloride	ND	mg/kg	1.25	2	06/24/20 00:00	07/02/20 12:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	1.25	2	06/24/20 00:00	07/02/20 12:11	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0500	2	06/24/20 00:00	07/02/20 12:11	1634-04-4	
Naphthalene	ND	mg/kg	0.625	2	06/24/20 00:00	07/02/20 12:11	91-20-3	
n-Propylbenzene	ND	mg/kg	0.250	2	06/24/20 00:00	07/02/20 12:11	103-65-1	
Styrene	ND	mg/kg	0.625	2	06/24/20 00:00	07/02/20 12:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.125	2	06/24/20 00:00	07/02/20 12:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.125	2	06/24/20 00:00	07/02/20 12:11	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.125	2	06/24/20 00:00	07/02/20 12:11	76-13-1	R1
Tetrachloroethene	ND	mg/kg	0.125	2	06/24/20 00:00	07/02/20 12:11	127-18-4	
Tetrahydrofuran	ND	mg/kg	0.625	2	06/24/20 00:00	07/02/20 12:11	109-99-9	
Toluene	ND	mg/kg	0.250	2	06/24/20 00:00	07/02/20 12:11	108-88-3	L0
1,2,3-Trichlorobenzene	ND	mg/kg	0.625	2	06/24/20 00:00	07/02/20 12:11	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.625	2	06/24/20 00:00	07/02/20 12:11	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.125	2	06/24/20 00:00	07/02/20 12:11	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.125	2	06/24/20 00:00	07/02/20 12:11	79-00-5	
Trichloroethene	ND	mg/kg	0.0500	2	06/24/20 00:00	07/02/20 12:11	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.125	2	06/24/20 00:00	07/02/20 12:11	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.625	2	06/24/20 00:00	07/02/20 12:11	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.250	2	06/24/20 00:00	07/02/20 12:11	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.250	2	06/24/20 00:00	07/02/20 12:11	108-67-8	L0
Vinyl chloride	ND	mg/kg	0.125	2	06/24/20 00:00	07/02/20 12:11	75-01-4	
Xylene (Total)	ND	mg/kg	0.325	2	06/24/20 00:00	07/02/20 12:11	1330-20-7	
Surrogates								
Toluene-d8 (S)	110	%	75.0-131	2	06/24/20 00:00	07/02/20 12:11	2037-26-5	
4-Bromofluorobenzene (S)	95.8	%	67.0-138	2	06/24/20 00:00	07/02/20 12:11	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70.0-130	2	06/24/20 00:00	07/02/20 12:11	17060-07-0	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

QC Batch: 192624
QC Batch Method: EPA 351.2
Analysis Method: EPA 351.2
Analysis Description: 351.2 TKN
Laboratory: Pace Analytical Services - Duluth
Associated Lab Samples: 10522854001

METHOD BLANK: 759363 Matrix: Solid
Associated Lab Samples: 10522854001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/kg	ND	50.0	07/02/20 12:15	

LABORATORY CONTROL SAMPLE: 759362

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/kg	1000	1040	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 759364 759365

Parameter	Units	12146053011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/kg	1020	1150	1200	2240	2140	107	94	90-110	5	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 759366 759367

Parameter	Units	10522687002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/kg	3850	1220	1330	5340	5240	122	104	90-110	2	10	M6

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

QC Batch: 192504
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite
Laboratory: Pace Analytical Services - Duluth
Associated Lab Samples: 10522854001

METHOD BLANK: 758699 Matrix: Solid
Associated Lab Samples: 10522854001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/kg	ND	0.20	06/30/20 11:52	N2

LABORATORY CONTROL SAMPLE: 758698

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/kg	5	5.1	103	90-110	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 758700 758701

Parameter	Units	10522569005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/kg	ND	5.77	5.77	5.9	6.0	100	101	90-110	1	10	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 758711 758712

Parameter	Units	12146230002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/kg	1.4	24.5	24.5	24.6	24.3	95	94	90-110	1	10	N2

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

QC Batch: 683947
QC Batch Method: EPA 5030 Medium Soil
Analysis Method: WI MOD GRO
Analysis Description: WIGRO Solid GCV
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10522854001, 10522854002, 10522854003, 10522854004, 10522854005, 10522854006, 10522854009

METHOD BLANK: 3659026 Matrix: Solid
Associated Lab Samples: 10522854001, 10522854002, 10522854003, 10522854004, 10522854005, 10522854006, 10522854009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	10.0	06/30/20 15:45	
a,a,a-Trifluorotoluene (S)	%.	100	80-150	06/30/20 15:45	

LABORATORY CONTROL SAMPLE & LCSD: 3659027 3659028

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	50	53.8	53.7	108	107	80-120	0	20	
a,a,a-Trifluorotoluene (S)	%.				100	100	80-150			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3659078 3659079

Parameter	Units	10523060004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Gasoline Range Organics	mg/kg	ND	56	56.4	53.3	53.6	93	93	80-120	1	20	
a,a,a-Trifluorotoluene (S)	%.						100	100	80-150			

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

QC Batch: 683549 | Analysis Method: EPA 7471B
QC Batch Method: EPA 7471B | Analysis Description: 7471B Mercury Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10522854001, 10522854002, 10522854005, 10522854006, 10522854007, 10522854008

METHOD BLANK: 3657136 Matrix: Solid
Associated Lab Samples: 10522854001, 10522854002, 10522854005, 10522854006, 10522854007, 10522854008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.019	06/30/20 16:44	

LABORATORY CONTROL SAMPLE: 3657137

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.45	0.47	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3657138 3657139

Parameter	Units	10522897001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.032	0.61	0.54	0.66	0.59	103	103	80-120	12	20	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

QC Batch: 683546
QC Batch Method: EPA 3050B
Analysis Method: EPA 6010D
Analysis Description: 6010D Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10522854001, 10522854002, 10522854005, 10522854006, 10522854007, 10522854008

METHOD BLANK: 3657124 Matrix: Solid
Associated Lab Samples: 10522854001, 10522854002, 10522854005, 10522854006, 10522854007, 10522854008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	0.96	06/29/20 17:16	
Barium	mg/kg	ND	0.48	06/29/20 17:16	
Cadmium	mg/kg	ND	0.14	06/29/20 17:16	
Chromium	mg/kg	ND	0.48	06/29/20 17:16	
Lead	mg/kg	ND	0.48	06/29/20 17:16	
Selenium	mg/kg	ND	0.96	06/29/20 17:16	
Silver	mg/kg	ND	0.48	06/29/20 17:16	

LABORATORY CONTROL SAMPLE: 3657125

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	47.2	49.9	106	80-120	
Barium	mg/kg	47.2	48.9	104	80-120	
Cadmium	mg/kg	47.2	50.4	107	80-120	
Chromium	mg/kg	47.2	49.4	105	80-120	
Lead	mg/kg	47.2	49.6	105	80-120	
Selenium	mg/kg	47.2	49.9	106	80-120	
Silver	mg/kg	23.6	24.6	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3657126 3657127

Parameter	Units	10522897001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	4.1	59.6	59.6	62.5	62.5	98	98	75-125	0	20	
Barium	mg/kg	92.5	59.6	59.6	155	179	105	146	75-125	14	20	M1
Cadmium	mg/kg	0.48	59.6	59.6	56.5	56.9	94	95	75-125	1	20	
Chromium	mg/kg	11.2	59.6	59.6	73.3	73.2	104	104	75-125	0	20	
Lead	mg/kg	15.3	59.6	59.6	66.8	67.7	86	88	75-125	1	20	
Selenium	mg/kg	ND	59.6	59.6	59.1	58.4	99	98	75-125	1	20	
Silver	mg/kg	ND	29.8	29.8	29.6	29.2	99	98	75-125	1	20	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

QC Batch: 685181
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10522854001, 10522854002, 10522854003, 10522854004, 10522854005, 10522854006, 10522854007, 10522854008

SAMPLE DUPLICATE: 3664773

Parameter	Units	10523051001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	0.38	0.36	4	30	N2

SAMPLE DUPLICATE: 3664872

Parameter	Units	10522852005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.1	7.8	4	30	N2

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

QC Batch: 1502542
QC Batch Method: 5035A
Analysis Method: EPA 8260D
Analysis Description: VOA (GC/MS) 8260D
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 10522854001, 10522854002

METHOD BLANK: R3545967-3 Matrix: Solid
Associated Lab Samples: 10522854001, 10522854002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acetone	mg/kg	ND	1.25	07/01/20 20:21	
Benzene	mg/kg	ND	0.0250	07/01/20 20:21	
Bromobenzene	mg/kg	ND	0.313	07/01/20 20:21	
Bromodichloromethane	mg/kg	ND	0.0625	07/01/20 20:21	
Bromochloromethane	mg/kg	ND	0.125	07/01/20 20:21	
Bromoform	mg/kg	ND	0.625	07/01/20 20:21	
Bromomethane	mg/kg	ND	0.313	07/01/20 20:21	
n-Butylbenzene	mg/kg	ND	0.313	07/01/20 20:21	
sec-Butylbenzene	mg/kg	ND	0.313	07/01/20 20:21	
tert-Butylbenzene	mg/kg	ND	0.125	07/01/20 20:21	
Carbon tetrachloride	mg/kg	ND	0.125	07/01/20 20:21	
Chlorobenzene	mg/kg	ND	0.0625	07/01/20 20:21	
Dibromochloromethane	mg/kg	ND	0.0625	07/01/20 20:21	
Chloroethane	mg/kg	ND	0.125	07/01/20 20:21	
Chloroform	mg/kg	ND	0.0625	07/01/20 20:21	
Chloromethane	mg/kg	ND	0.313	07/01/20 20:21	
2-Chlorotoluene	mg/kg	ND	0.0625	07/01/20 20:21	
4-Chlorotoluene	mg/kg	ND	0.125	07/01/20 20:21	
1,2-Dibromo-3-chloropropane	mg/kg	ND	0.625	07/01/20 20:21	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0625	07/01/20 20:21	
Dibromomethane	mg/kg	ND	0.125	07/01/20 20:21	
1,2-Dichlorobenzene	mg/kg	ND	0.125	07/01/20 20:21	
1,3-Dichlorobenzene	mg/kg	ND	0.125	07/01/20 20:21	
1,4-Dichlorobenzene	mg/kg	ND	0.125	07/01/20 20:21	
Dichlorodifluoromethane	mg/kg	ND	0.0625	07/01/20 20:21	
Dichlorofluoromethane	mg/kg	ND	0.0625	07/01/20 20:21	
1,1-Dichloroethane	mg/kg	ND	0.0625	07/01/20 20:21	
1,2-Dichloroethane	mg/kg	ND	0.0625	07/01/20 20:21	
1,1-Dichloroethene	mg/kg	ND	0.0625	07/01/20 20:21	
cis-1,2-Dichloroethene	mg/kg	ND	0.0625	07/01/20 20:21	
trans-1,2-Dichloroethene	mg/kg	ND	0.125	07/01/20 20:21	
1,2-Dichloropropane	mg/kg	ND	0.125	07/01/20 20:21	
1,1-Dichloropropene	mg/kg	ND	0.0625	07/01/20 20:21	
1,3-Dichloropropane	mg/kg	ND	0.125	07/01/20 20:21	
cis-1,3-Dichloropropene	mg/kg	ND	0.0625	07/01/20 20:21	
trans-1,3-Dichloropropene	mg/kg	ND	0.125	07/01/20 20:21	
2,2-Dichloropropane	mg/kg	ND	0.0625	07/01/20 20:21	
Diisopropyl ether	mg/kg	ND	0.0250	07/01/20 20:21	
Ethylbenzene	mg/kg	ND	0.0625	07/01/20 20:21	
Diethyl ether (Ethyl ether)	mg/kg	ND	0.0625	07/01/20 20:21	

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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

METHOD BLANK: R3545967-3 Matrix: Solid
Associated Lab Samples: 10522854001, 10522854002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	mg/kg	ND	0.625	07/01/20 20:21	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0625	07/01/20 20:21	
p-Isopropyltoluene	mg/kg	ND	0.125	07/01/20 20:21	
2-Butanone (MEK)	mg/kg	ND	2.50	07/01/20 20:21	
Methylene Chloride	mg/kg	ND	0.625	07/01/20 20:21	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.625	07/01/20 20:21	
Methyl-tert-butyl ether	mg/kg	ND	0.0250	07/01/20 20:21	
Naphthalene	mg/kg	ND	0.313	07/01/20 20:21	
n-Propylbenzene	mg/kg	ND	0.125	07/01/20 20:21	
Styrene	mg/kg	ND	0.313	07/01/20 20:21	
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0625	07/01/20 20:21	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0625	07/01/20 20:21	
Tetrachloroethene	mg/kg	ND	0.0625	07/01/20 20:21	
Tetrahydrofuran	mg/kg	ND	0.313	07/01/20 20:21	
Toluene	mg/kg	ND	0.125	07/01/20 20:21	
1,1,2-Trichlorotrifluoroethane	mg/kg	ND	0.0625	07/01/20 20:21	
1,2,3-Trichlorobenzene	mg/kg	ND	0.313	07/01/20 20:21	
1,2,4-Trichlorobenzene	mg/kg	ND	0.313	07/01/20 20:21	
1,1,1-Trichloroethane	mg/kg	ND	0.0625	07/01/20 20:21	
1,1,2-Trichloroethane	mg/kg	ND	0.0625	07/01/20 20:21	
Trichloroethene	mg/kg	ND	0.0250	07/01/20 20:21	
Trichlorofluoromethane	mg/kg	ND	0.0625	07/01/20 20:21	
1,2,3-Trichloropropane	mg/kg	ND	0.313	07/01/20 20:21	
1,2,4-Trimethylbenzene	mg/kg	ND	0.125	07/01/20 20:21	
1,3,5-Trimethylbenzene	mg/kg	ND	0.125	07/01/20 20:21	
Vinyl chloride	mg/kg	ND	0.0625	07/01/20 20:21	
Xylene (Total)	mg/kg	ND	0.163	07/01/20 20:21	
Allyl chloride	mg/kg	ND	0.625	07/01/20 20:21	
Toluene-d8 (S)	%	110	75.0-131	07/01/20 20:21	
4-Bromofluorobenzene (S)	%	87.8	67.0-138	07/01/20 20:21	
1,2-Dichloroethane-d4 (S)	%	81.7	70.0-130	07/01/20 20:21	

LABORATORY CONTROL SAMPLE & LCSD: R3545967-1 R3545967-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Acetone	mg/kg	0.625	0.701	0.513	112	82.1	10.0-160	31.0	31	
Benzene	mg/kg	0.125	0.105	0.0990	84.0	79.2	70.0-123	5.88	20	
Bromobenzene	mg/kg	0.125	0.101	0.103	80.8	82.4	73.0-121	1.96	20	
Bromodichloromethane	mg/kg	0.125	0.129	0.124	103	99.2	73.0-121	3.95	20	
Bromochloromethane	mg/kg	0.125	0.113	0.102	90.4	81.6	77.0-128	10.2	20	
Bromoform	mg/kg	0.125	0.0943	0.0846	75.4	67.7	64.0-132	10.8	20	
Bromomethane	mg/kg	0.125	0.116	0.104	92.8	83.2	56.0-147	10.9	20	
n-Butylbenzene	mg/kg	0.125	0.133	0.126	106	101	68.0-135	5.41	20	
sec-Butylbenzene	mg/kg	0.125	0.115	0.116	92.0	92.8	74.0-130	0.866	20	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

LABORATORY CONTROL SAMPLE & LCSD: R3545967-1 R3545967-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
tert-Butylbenzene	mg/kg	0.125	0.150	0.152	120	122	75.0-127	1.32	20	
Carbon tetrachloride	mg/kg	0.125	0.110	0.102	88.0	81.6	66.0-128	7.55	20	
Chlorobenzene	mg/kg	0.125	0.111	0.107	88.8	85.6	76.0-128	3.67	20	
Dibromochloromethane	mg/kg	0.125	0.0989	0.0955	79.1	76.4	74.0-127	3.50	20	
Chloroethane	mg/kg	0.125	0.119	0.104	95.2	83.2	61.0-134	13.5	20	
Chloroform	mg/kg	0.125	0.123	0.117	98.4	93.6	72.0-123	5.00	20	
Chloromethane	mg/kg	0.125	0.144	0.139	115	111	51.0-138	3.53	20	
2-Chlorotoluene	mg/kg	0.125	0.124	0.129	99.2	103	75.0-124	3.95	20	
4-Chlorotoluene	mg/kg	0.125	0.115	0.116	92.0	92.8	75.0-124	0.866	20	
1,2-Dibromo-3-chloropropane	mg/kg	0.125	0.120	0.101	96.0	80.8	59.0-130	17.2	20	
1,2-Dibromoethane (EDB)	mg/kg	0.125	0.121	0.115	96.8	92.0	74.0-128	5.08	20	
Dibromomethane	mg/kg	0.125	0.114	0.101	91.2	80.8	75.0-122	12.1	20	
1,2-Dichlorobenzene	mg/kg	0.125	0.0988	0.0935	79.0	74.8	76.0-124	5.51	20	L0
1,3-Dichlorobenzene	mg/kg	0.125	0.112	0.107	89.6	85.6	76.0-125	4.57	20	
1,4-Dichlorobenzene	mg/kg	0.125	0.105	0.0985	84.0	78.8	77.0-121	6.39	20	
Dichlorodifluoromethane	mg/kg	0.125	0.139	0.131	111	105	43.0-156	5.93	20	
Dichlorofluoromethane	mg/kg	0.125	0.123	0.117	98.4	93.6	65.0-137	5.00	20	
1,1-Dichloroethane	mg/kg	0.125	0.125	0.114	100	91.2	70.0-127	9.21	20	
1,2-Dichloroethane	mg/kg	0.125	0.0932	0.0864	74.6	69.1	65.0-131	7.57	20	
1,1-Dichloroethene	mg/kg	0.125	0.119	0.107	95.2	85.6	65.0-131	10.6	20	
cis-1,2-Dichloroethene	mg/kg	0.125	0.0970	0.0907	77.6	72.6	73.0-125	6.71	20	L0
trans-1,2-Dichloroethene	mg/kg	0.125	0.151	0.135	121	108	71.0-125	11.2	20	
1,2-Dichloropropane	mg/kg	0.125	0.123	0.116	98.4	92.8	74.0-125	5.86	20	
1,1-Dichloropropene	mg/kg	0.125	0.109	0.105	87.2	84.0	73.0-125	3.74	20	
1,3-Dichloropropane	mg/kg	0.125	0.110	0.108	88.0	86.4	80.0-125	1.83	20	
cis-1,3-Dichloropropene	mg/kg	0.125	0.114	0.111	91.2	88.8	76.0-127	2.67	20	
trans-1,3-Dichloropropene	mg/kg	0.125	0.106	0.104	84.8	83.2	73.0-127	1.90	20	
2,2-Dichloropropane	mg/kg	0.125	0.118	0.112	94.4	89.6	59.0-135	5.22	20	
Diisopropyl ether	mg/kg	0.125	0.110	0.102	88.0	81.6	60.0-136	7.55	20	
Ethylbenzene	mg/kg	0.125	0.119	0.114	95.2	91.2	74.0-126	4.29	20	
Diethyl ether (Ethyl ether)	mg/kg	0.125	0.116	0.106	92.8	84.8	64.0-137	9.01	20	
Hexachloro-1,3-butadiene	mg/kg	0.125	0.117	0.101	93.6	80.8	57.0-150	14.7	20	
Isopropylbenzene (Cumene)	mg/kg	0.125	0.119	0.112	95.2	89.6	72.0-127	6.06	20	
p-Isopropyltoluene	mg/kg	0.125	0.117	0.117	93.6	93.6	72.0-133	0.00	20	
2-Butanone (MEK)	mg/kg	0.625	0.626	0.617	100	98.7	30.0-160	1.45	24	
Methylene Chloride	mg/kg	0.125	0.102	0.0909	81.6	72.7	68.0-123	11.5	20	
4-Methyl-2-pentanone (MIBK)	mg/kg	0.625	0.627	0.587	100	93.9	56.0-143	6.59	20	
Methyl-tert-butyl ether	mg/kg	0.125	0.125	0.113	100	90.4	66.0-132	10.1	20	
Naphthalene	mg/kg	0.125	0.130	0.105	104	84.0	59.0-130	21.3	20	R1
n-Propylbenzene	mg/kg	0.125	0.111	0.114	88.8	91.2	74.0-126	2.67	20	
Styrene	mg/kg	0.125	0.123	0.116	98.4	92.8	72.0-127	5.86	20	
1,1,1,2-Tetrachloroethane	mg/kg	0.125	0.115	0.109	92.0	87.2	74.0-129	5.36	20	
1,1,2,2-Tetrachloroethane	mg/kg	0.125	0.114	0.110	91.2	88.0	68.0-128	3.57	20	
Tetrachloroethene	mg/kg	0.125	0.108	0.108	86.4	86.4	70.0-136	0.00	20	
Tetrahydrofuran	mg/kg	0.125	0.104	0.0872	83.2	69.8	37.0-146	17.6	24	
Toluene	mg/kg	0.125	0.109	0.107	87.2	85.6	75.0-121	1.85	20	
1,1,2-Trichlorotrifluoroethane	mg/kg	0.125	0.130	0.119	104	95.2	61.0-139	8.84	20	

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(612)607-1700

QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

LABORATORY CONTROL SAMPLE & LCSD: R3545967-1 R3545967-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,3-Trichlorobenzene	mg/kg	0.125	0.117	0.101	93.6	80.8	59.0-139	14.7	20	
1,2,4-Trichlorobenzene	mg/kg	0.125	0.113	0.0951	90.4	76.1	62.0-137	17.2	20	
1,1,1-Trichloroethane	mg/kg	0.125	0.117	0.109	93.6	87.2	69.0-126	7.08	20	
1,1,2-Trichloroethane	mg/kg	0.125	0.142	0.139	114	111	78.0-123	2.14	20	
Trichloroethene	mg/kg	0.125	0.119	0.116	95.2	92.8	76.0-126	2.55	20	
Trichlorofluoromethane	mg/kg	0.125	0.142	0.130	114	104	61.0-142	8.82	20	
1,2,3-Trichloropropane	mg/kg	0.125	0.132	0.129	106	103	67.0-129	2.30	20	
1,2,4-Trimethylbenzene	mg/kg	0.125	0.0967	0.0953	77.4	76.2	70.0-126	1.46	20	
1,3,5-Trimethylbenzene	mg/kg	0.125	0.110	0.111	88.0	88.8	73.0-127	0.905	20	
Vinyl chloride	mg/kg	0.125	0.129	0.123	103	98.4	63.0-134	4.76	20	
Xylene (Total)	mg/kg	0.375	0.323	0.312	86.1	83.2	72.0-127	3.46	20	
Allyl chloride	mg/kg	0.625	0.576	0.518	92.2	82.9	70.0-131	10.6	20	
Toluene-d8 (S)	%				98.1	101	75.0-131			
4-Bromofluorobenzene (S)	%				98.6	94.3	67.0-138			
1,2-Dichloroethane-d4 (S)	%				95.6	92.9	70.0-130			

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

QC Batch: 1503026
QC Batch Method: 5035A
Analysis Method: EPA 8260D
Analysis Description: VOA (GC/MS) 8260D
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 10522854003, 10522854004, 10522854005, 10522854006, 10522854007, 10522854008, 10522854009

METHOD BLANK: R3545605-3 Matrix: Solid
Associated Lab Samples: 10522854003, 10522854004, 10522854005, 10522854006, 10522854007, 10522854008, 10522854009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acetone	mg/kg	ND	1.25	07/02/20 10:51	
Benzene	mg/kg	ND	0.0250	07/02/20 10:51	
Bromobenzene	mg/kg	ND	0.313	07/02/20 10:51	
Bromodichloromethane	mg/kg	ND	0.0625	07/02/20 10:51	
Bromochloromethane	mg/kg	ND	0.125	07/02/20 10:51	
Bromoform	mg/kg	ND	0.625	07/02/20 10:51	
Bromomethane	mg/kg	ND	0.313	07/02/20 10:51	
n-Butylbenzene	mg/kg	ND	0.313	07/02/20 10:51	
sec-Butylbenzene	mg/kg	ND	0.313	07/02/20 10:51	
tert-Butylbenzene	mg/kg	ND	0.125	07/02/20 10:51	
Carbon tetrachloride	mg/kg	ND	0.125	07/02/20 10:51	
Chlorobenzene	mg/kg	ND	0.0625	07/02/20 10:51	
Dibromochloromethane	mg/kg	ND	0.0625	07/02/20 10:51	
Chloroethane	mg/kg	ND	0.125	07/02/20 10:51	
Chloroform	mg/kg	ND	0.0625	07/02/20 10:51	
Chloromethane	mg/kg	ND	0.313	07/02/20 10:51	
2-Chlorotoluene	mg/kg	ND	0.0625	07/02/20 10:51	
4-Chlorotoluene	mg/kg	ND	0.125	07/02/20 10:51	
1,2-Dibromo-3-chloropropane	mg/kg	ND	0.625	07/02/20 10:51	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0625	07/02/20 10:51	
Dibromomethane	mg/kg	ND	0.125	07/02/20 10:51	
1,2-Dichlorobenzene	mg/kg	ND	0.125	07/02/20 10:51	
1,3-Dichlorobenzene	mg/kg	ND	0.125	07/02/20 10:51	
1,4-Dichlorobenzene	mg/kg	ND	0.125	07/02/20 10:51	
Dichlorodifluoromethane	mg/kg	ND	0.0625	07/02/20 10:51	
Dichlorofluoromethane	mg/kg	ND	0.0625	07/02/20 10:51	
1,1-Dichloroethane	mg/kg	ND	0.0625	07/02/20 10:51	
1,2-Dichloroethane	mg/kg	ND	0.0625	07/02/20 10:51	
1,1-Dichloroethene	mg/kg	ND	0.0625	07/02/20 10:51	
cis-1,2-Dichloroethene	mg/kg	ND	0.0625	07/02/20 10:51	
trans-1,2-Dichloroethene	mg/kg	ND	0.125	07/02/20 10:51	
1,2-Dichloropropane	mg/kg	ND	0.125	07/02/20 10:51	
1,1-Dichloropropene	mg/kg	ND	0.0625	07/02/20 10:51	
1,3-Dichloropropane	mg/kg	ND	0.125	07/02/20 10:51	
cis-1,3-Dichloropropene	mg/kg	ND	0.0625	07/02/20 10:51	
trans-1,3-Dichloropropene	mg/kg	ND	0.125	07/02/20 10:51	
2,2-Dichloropropane	mg/kg	ND	0.0625	07/02/20 10:51	
Diisopropyl ether	mg/kg	ND	0.0250	07/02/20 10:51	
Ethylbenzene	mg/kg	ND	0.0625	07/02/20 10:51	
Diethyl ether (Ethyl ether)	mg/kg	ND	0.0625	07/02/20 10:51	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

METHOD BLANK: R3545605-3 Matrix: Solid
Associated Lab Samples: 10522854003, 10522854004, 10522854005, 10522854006, 10522854007, 10522854008, 10522854009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	mg/kg	ND	0.625	07/02/20 10:51	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0625	07/02/20 10:51	
p-Isopropyltoluene	mg/kg	ND	0.125	07/02/20 10:51	
2-Butanone (MEK)	mg/kg	ND	2.50	07/02/20 10:51	
Methylene Chloride	mg/kg	ND	0.625	07/02/20 10:51	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.625	07/02/20 10:51	
Methyl-tert-butyl ether	mg/kg	ND	0.0250	07/02/20 10:51	
Naphthalene	mg/kg	ND	0.313	07/02/20 10:51	
n-Propylbenzene	mg/kg	ND	0.125	07/02/20 10:51	
Styrene	mg/kg	ND	0.313	07/02/20 10:51	
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0625	07/02/20 10:51	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0625	07/02/20 10:51	
Tetrachloroethene	mg/kg	ND	0.0625	07/02/20 10:51	
Tetrahydrofuran	mg/kg	ND	0.313	07/02/20 10:51	
Toluene	mg/kg	ND	0.125	07/02/20 10:51	
1,1,2-Trichlorotrifluoroethane	mg/kg	ND	0.0625	07/02/20 10:51	
1,2,3-Trichlorobenzene	mg/kg	ND	0.313	07/02/20 10:51	
1,2,4-Trichlorobenzene	mg/kg	ND	0.313	07/02/20 10:51	
1,1,1-Trichloroethane	mg/kg	ND	0.0625	07/02/20 10:51	
1,1,2-Trichloroethane	mg/kg	ND	0.0625	07/02/20 10:51	
Trichloroethene	mg/kg	ND	0.0250	07/02/20 10:51	
Trichlorofluoromethane	mg/kg	ND	0.0625	07/02/20 10:51	
1,2,3-Trichloropropane	mg/kg	ND	0.313	07/02/20 10:51	
1,2,4-Trimethylbenzene	mg/kg	ND	0.125	07/02/20 10:51	
1,3,5-Trimethylbenzene	mg/kg	ND	0.125	07/02/20 10:51	
Vinyl chloride	mg/kg	ND	0.0625	07/02/20 10:51	
Xylene (Total)	mg/kg	ND	0.163	07/02/20 10:51	
Allyl chloride	mg/kg	ND	0.625	07/02/20 10:51	
Toluene-d8 (S)	%	111	75.0-131	07/02/20 10:51	
4-Bromofluorobenzene (S)	%	96.7	67.0-138	07/02/20 10:51	
1,2-Dichloroethane-d4 (S)	%	98.6	70.0-130	07/02/20 10:51	

LABORATORY CONTROL SAMPLE & LCSD: R3545605-1 R3545605-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Acetone	mg/kg	0.625	0.581	0.505	93.0	80.8	10.0-160	14.0	31	
Benzene	mg/kg	0.125	0.104	0.0910	83.2	72.8	70.0-123	13.3	20	
Bromobenzene	mg/kg	0.125	0.139	0.132	111	106	73.0-121	5.17	20	
Bromodichloromethane	mg/kg	0.125	0.118	0.107	94.4	85.6	73.0-121	9.78	20	
Bromochloromethane	mg/kg	0.125	0.121	0.112	96.8	89.6	77.0-128	7.73	20	
Bromoform	mg/kg	0.125	0.120	0.115	96.0	92.0	64.0-132	4.26	20	
Bromomethane	mg/kg	0.125	0.100	0.0893	80.0	71.4	56.0-147	11.3	20	
n-Butylbenzene	mg/kg	0.125	0.0984	0.0860	78.7	68.8	68.0-135	13.4	20	
sec-Butylbenzene	mg/kg	0.125	0.121	0.105	96.8	84.0	74.0-130	14.2	20	

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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

LABORATORY CONTROL SAMPLE & LCSD: R3545605-1 R3545605-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
tert-Butylbenzene	mg/kg	0.125	0.125	0.109	100	87.2	75.0-127	13.7	20	
Carbon tetrachloride	mg/kg	0.125	0.135	0.120	108	96.0	66.0-128	11.8	20	
Chlorobenzene	mg/kg	0.125	0.123	0.111	98.4	88.8	76.0-128	10.3	20	
Dibromochloromethane	mg/kg	0.125	0.106	0.0974	84.8	77.9	74.0-127	8.46	20	
Chloroethane	mg/kg	0.125	0.0970	0.0821	77.6	65.7	61.0-134	16.6	20	
Chloroform	mg/kg	0.125	0.117	0.0999	93.6	79.9	72.0-123	15.8	20	
Chloromethane	mg/kg	0.125	0.131	0.116	105	92.8	51.0-138	12.1	20	
2-Chlorotoluene	mg/kg	0.125	0.122	0.108	97.6	86.4	75.0-124	12.2	20	
4-Chlorotoluene	mg/kg	0.125	0.122	0.109	97.6	87.2	75.0-124	11.3	20	
1,2-Dibromo-3-chloropropane	mg/kg	0.125	0.117	0.109	93.6	87.2	59.0-130	7.08	20	
1,2-Dibromoethane (EDB)	mg/kg	0.125	0.135	0.128	108	102	74.0-128	5.32	20	
Dibromomethane	mg/kg	0.125	0.117	0.108	93.6	86.4	75.0-122	8.00	20	
1,2-Dichlorobenzene	mg/kg	0.125	0.120	0.112	96.0	89.6	76.0-124	6.90	20	
1,3-Dichlorobenzene	mg/kg	0.125	0.121	0.108	96.8	86.4	76.0-125	11.4	20	
1,4-Dichlorobenzene	mg/kg	0.125	0.112	0.0994	89.6	79.5	77.0-121	11.9	20	
Dichlorodifluoromethane	mg/kg	0.125	0.120	0.101	96.0	80.8	43.0-156	17.2	20	
Dichlorofluoromethane	mg/kg	0.125	0.108	0.0934	86.4	74.7	65.0-137	14.5	20	
1,1-Dichloroethane	mg/kg	0.125	0.127	0.110	102	88.0	70.0-127	14.3	20	
1,2-Dichloroethane	mg/kg	0.125	0.111	0.104	88.8	83.2	65.0-131	6.51	20	
1,1-Dichloroethene	mg/kg	0.125	0.148	0.123	118	98.4	65.0-131	18.5	20	
cis-1,2-Dichloroethene	mg/kg	0.125	0.138	0.129	110	103	73.0-125	6.74	20	
trans-1,2-Dichloroethene	mg/kg	0.125	0.123	0.103	98.4	82.4	71.0-125	17.7	20	
1,2-Dichloropropane	mg/kg	0.125	0.115	0.102	92.0	81.6	74.0-125	12.0	20	
1,1-Dichloropropene	mg/kg	0.125	0.122	0.106	97.6	84.8	73.0-125	14.0	20	
1,3-Dichloropropane	mg/kg	0.125	0.104	0.0977	83.2	78.2	80.0-125	6.25	20	L0
cis-1,3-Dichloropropene	mg/kg	0.125	0.103	0.0920	82.4	73.6	76.0-127	11.3	20	L0
trans-1,3-Dichloropropene	mg/kg	0.125	0.116	0.108	92.8	86.4	73.0-127	7.14	20	
2,2-Dichloropropane	mg/kg	0.125	0.121	0.101	96.8	80.8	59.0-135	18.0	20	
Diisopropyl ether	mg/kg	0.125	0.109	0.100	87.2	80.0	60.0-136	8.61	20	
Ethylbenzene	mg/kg	0.125	0.135	0.118	108	94.4	74.0-126	13.4	20	
Diethyl ether (Ethyl ether)	mg/kg	0.125	0.0949	0.0871	75.9	69.7	64.0-137	8.57	20	
Hexachloro-1,3-butadiene	mg/kg	0.125	0.114	0.0957	91.2	76.6	57.0-150	17.5	20	
Isopropylbenzene (Cumene)	mg/kg	0.125	0.104	0.0942	83.2	75.4	72.0-127	9.89	20	
p-Isopropyltoluene	mg/kg	0.125	0.133	0.117	106	93.6	72.0-133	12.8	20	
2-Butanone (MEK)	mg/kg	0.625	0.615	0.534	98.4	85.4	30.0-160	14.1	24	
Methylene Chloride	mg/kg	0.125	0.0960	0.0861	76.8	68.9	68.0-123	10.9	20	
4-Methyl-2-pentanone (MIBK)	mg/kg	0.625	0.643	0.594	103	95.0	56.0-143	7.92	20	
Methyl-tert-butyl ether	mg/kg	0.125	0.115	0.107	92.0	85.6	66.0-132	7.21	20	
Naphthalene	mg/kg	0.125	0.126	0.115	101	92.0	59.0-130	9.13	20	
n-Propylbenzene	mg/kg	0.125	0.125	0.109	100	87.2	74.0-126	13.7	20	
Styrene	mg/kg	0.125	0.103	0.0938	82.4	75.0	72.0-127	9.35	20	
1,1,1,2-Tetrachloroethane	mg/kg	0.125	0.113	0.106	90.4	84.8	74.0-129	6.39	20	
1,1,2,2-Tetrachloroethane	mg/kg	0.125	0.102	0.0934	81.6	74.7	68.0-128	8.80	20	
Tetrachloroethene	mg/kg	0.125	0.129	0.115	103	92.0	70.0-136	11.5	20	
Tetrahydrofuran	mg/kg	0.125	0.120	0.105	96.0	84.0	37.0-146	13.3	24	
Toluene	mg/kg	0.125	0.105	0.0922	84.0	73.8	75.0-121	13.0	20	L0
1,1,2-Trichlorotrifluoroethane	mg/kg	0.125	0.132	0.106	106	84.8	61.0-139	21.8	20	R1

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(612)607-1700

QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

LABORATORY CONTROL SAMPLE & LCSD: R3545605-1 R3545605-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,3-Trichlorobenzene	mg/kg	0.125	0.107	0.105	85.6	84.0	59.0-139	1.89	20	
1,2,4-Trichlorobenzene	mg/kg	0.125	0.116	0.110	92.8	88.0	62.0-137	5.31	20	
1,1,1-Trichloroethane	mg/kg	0.125	0.108	0.0900	86.4	72.0	69.0-126	18.2	20	
1,1,2-Trichloroethane	mg/kg	0.125	0.115	0.110	92.0	88.0	78.0-123	4.44	20	
Trichloroethene	mg/kg	0.125	0.129	0.115	103	92.0	76.0-126	11.5	20	
Trichlorofluoromethane	mg/kg	0.125	0.140	0.123	112	98.4	61.0-142	12.9	20	
1,2,3-Trichloropropane	mg/kg	0.125	0.119	0.113	95.2	90.4	67.0-129	5.17	20	
1,2,4-Trimethylbenzene	mg/kg	0.125	0.108	0.0955	86.4	76.4	70.0-126	12.3	20	
1,3,5-Trimethylbenzene	mg/kg	0.125	0.0978	0.0869	78.2	69.5	73.0-127	11.8	20	L0
Vinyl chloride	mg/kg	0.125	0.112	0.0978	89.6	78.2	63.0-134	13.5	20	
Xylene (Total)	mg/kg	0.375	0.351	0.308	93.6	82.1	72.0-127	13.1	20	
Allyl chloride	mg/kg	0.625	0.603	0.524	96.5	83.8	70.0-131	14.0	20	
Toluene-d8 (S)	%				108	107	75.0-131			
4-Bromofluorobenzene (S)	%				102	102	67.0-138			
1,2-Dichloroethane-d4 (S)	%				112	111	70.0-130			

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

QC Batch: 683450
QC Batch Method: EPA 3550C
Analysis Method: EPA 8270E by SIM
Analysis Description: 8270E Solid PAH by SIM MSSV
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10522854003, 10522854005, 10522854006, 10522854007, 10522854008

METHOD BLANK: 3656578 Matrix: Solid
Associated Lab Samples: 10522854003, 10522854005, 10522854006, 10522854007, 10522854008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/kg	ND	10.0	06/26/20 13:00	
Acenaphthylene	ug/kg	ND	10.0	06/26/20 13:00	
Anthracene	ug/kg	ND	10.0	06/26/20 13:00	
Benzo(a)anthracene	ug/kg	ND	10.0	06/26/20 13:00	
Benzo(a)pyrene	ug/kg	ND	10.0	06/26/20 13:00	
Benzo(b)fluoranthene	ug/kg	ND	10.0	06/26/20 13:00	
Benzo(g,h,i)perylene	ug/kg	ND	10.0	06/26/20 13:00	
Benzo(k)fluoranthene	ug/kg	ND	10.0	06/26/20 13:00	
Chrysene	ug/kg	ND	10.0	06/26/20 13:00	
Dibenz(a,h)anthracene	ug/kg	ND	10.0	06/26/20 13:00	
Fluoranthene	ug/kg	ND	10.0	06/26/20 13:00	
Fluorene	ug/kg	ND	10.0	06/26/20 13:00	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	10.0	06/26/20 13:00	
Naphthalene	ug/kg	ND	10.0	06/26/20 13:00	
Phenanthrene	ug/kg	ND	10.0	06/26/20 13:00	
Pyrene	ug/kg	ND	10.0	06/26/20 13:00	
2-Fluorobiphenyl (S)	%.	77	30-138	06/26/20 13:00	
p-Terphenyl-d14 (S)	%.	92	30-143	06/26/20 13:00	

LABORATORY CONTROL SAMPLE: 3656579

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/kg	33.3	22.2	67	49-125	
Acenaphthylene	ug/kg	33.3	22.0	66	53-125	
Anthracene	ug/kg	33.3	24.4	73	59-125	
Benzo(a)anthracene	ug/kg	33.3	25.7	77	58-125	
Benzo(a)pyrene	ug/kg	33.3	23.9	72	64-125	
Benzo(b)fluoranthene	ug/kg	33.3	26.6	80	61-125	
Benzo(g,h,i)perylene	ug/kg	33.3	27.1	81	64-125	
Benzo(k)fluoranthene	ug/kg	33.3	25.9	78	62-125	
Chrysene	ug/kg	33.3	29.6	89	65-125	
Dibenz(a,h)anthracene	ug/kg	33.3	27.5	82	63-125	
Fluoranthene	ug/kg	33.3	25.2	76	68-125	
Fluorene	ug/kg	33.3	23.6	71	54-125	
Indeno(1,2,3-cd)pyrene	ug/kg	33.3	25.7	77	63-125	
Naphthalene	ug/kg	33.3	22.9	69	45-125	
Phenanthrene	ug/kg	33.3	25.2	76	63-125	
Pyrene	ug/kg	33.3	29.8	89	65-125	
2-Fluorobiphenyl (S)	%.			71	30-138	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

LABORATORY CONTROL SAMPLE: 3656579

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
p-Terphenyl-d14 (S)	%.			97	30-143	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3656580 3656581

Parameter	Units	10522854003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	ug/kg	ND	42.8	42.9	19.3	26.0	45	61	30-125	29	30	
Acenaphthylene	ug/kg	ND	42.8	42.9	18.4	26.3	43	61	30-150	35	30	R1
Anthracene	ug/kg	ND	42.8	42.9	22.8	28.7	53	67	30-150	23	30	
Benzo(a)anthracene	ug/kg	ND	42.8	42.9	22.9	29.6	53	69	30-150	26	30	
Benzo(a)pyrene	ug/kg	ND	42.8	42.9	20.6	27.2	48	63	30-150	27	30	
Benzo(b)fluoranthene	ug/kg	ND	42.8	42.9	21.4	29.4	50	69	30-150	31	30	R1
Benzo(g,h,i)perylene	ug/kg	ND	42.8	42.9	19.8	29.3	46	68	30-150	39	30	R1
Benzo(k)fluoranthene	ug/kg	ND	42.8	42.9	22.5	29.9	53	70	30-150	28	30	
Chrysene	ug/kg	ND	42.8	42.9	24.2	33.1	56	77	30-150	31	30	R1
Dibenz(a,h)anthracene	ug/kg	ND	42.8	42.9	21.6	30.3	50	71	30-147	34	30	R1
Fluoranthene	ug/kg	ND	42.8	42.9	22.7	28.0	53	65	30-150	21	30	
Fluorene	ug/kg	ND	42.8	42.9	22.7	27.7	53	65	30-150	20	30	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	42.8	42.9	19.8	29.2	46	68	30-150	38	30	R1
Naphthalene	ug/kg	ND	42.8	42.9	18.9	25.9	44	60	30-141	31	30	R1
Phenanthrene	ug/kg	ND	42.8	42.9	25.1	30.4	59	71	30-150	19	30	
Pyrene	ug/kg	ND	42.8	42.9	27.1	34.1	63	79	30-150	23	30	
2-Fluorobiphenyl (S)	%.						53	64	30-138			
p-Terphenyl-d14 (S)	%.						94	93	30-143			

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

QC Batch: 683429 | Analysis Method: WI MOD DRO
QC Batch Method: WI MOD DRO | Analysis Description: WIDRO GCS
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10522854001, 10522854002, 10522854003, 10522854004, 10522854005, 10522854006

METHOD BLANK: 3656517 Matrix: Solid
Associated Lab Samples: 10522854001, 10522854002, 10522854003, 10522854004, 10522854005, 10522854006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
WDRO C10-C28	mg/kg	ND	10.0	06/27/20 18:23	
n-Triacontane (S)	%.	106	50-150	06/27/20 18:23	

LABORATORY CONTROL SAMPLE & LCSD: 3656518 3656519

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
WDRO C10-C28	mg/kg	80	77.0	75.7	96	95	70-120	2	20	
n-Triacontane (S)	%.				97	97	50-150			

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

QC Batch: 1501725
QC Batch Method: SM 2540 G
Analysis Method: SM 2540G
Analysis Description: Total Solids 2540 G-2011
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 10522854001, 10522854002, 10522854003, 10522854004, 10522854005, 10522854006

METHOD BLANK: R3545192-1 Matrix: Solid
Associated Lab Samples: 10522854001, 10522854002, 10522854003, 10522854004, 10522854005, 10522854006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	%	ND		06/30/20 21:40	

LABORATORY CONTROL SAMPLE: R3545192-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	%	50.0	50.0	100	85.0-115	

SAMPLE DUPLICATE: R3545192-3

Parameter	Units	L1234378-04 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	%	87.2	86.9	0.344	10	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

QC Batch: 1502581
QC Batch Method: SM 2540 G
Analysis Method: SM 2540G
Analysis Description: Total Solids 2540 G-2011
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 10522854007, 10522854008

METHOD BLANK: R3545623-1 Matrix: Solid
Associated Lab Samples: 10522854007, 10522854008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	%	ND		07/02/20 00:51	

LABORATORY CONTROL SAMPLE: R3545623-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	%	50.0	50.0	100	85.0-115	

SAMPLE DUPLICATE: R3545623-3

Parameter	Units	L1234045-03 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	%	85.9	86.5	0.746	10	

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QUALIFIERS

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

G+	Late peaks present outside the GRO window.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
P3	Sample extract could not be concentrated to the routine final volume, resulting in elevated reporting limits.
R1	RPD value was outside control limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.
T6	High boiling point hydrocarbons are present in the sample.

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10522854001	**SB-1 (0.5-1.5)**	EPA 351.2	192624	EPA 351.2	192791
10522854001	**SB-1 (0.5-1.5)**	EPA 353.2	192504	EPA 353.2	192529
10522854001	**SB-1 (0.5-1.5)**	WI MOD DRO	683429	WI MOD DRO	683786
10522854002	**SB-2 (0.5-1)**	WI MOD DRO	683429	WI MOD DRO	683786
10522854003	**SB-3 (6.5-7)**	WI MOD DRO	683429	WI MOD DRO	683786
10522854004	**SB-4 (4"-10")**	WI MOD DRO	683429	WI MOD DRO	683786
10522854005	**TT-1 (2'-4')**	WI MOD DRO	683429	WI MOD DRO	683786
10522854006	**TT-1 Hotspot (2-4)**	WI MOD DRO	683429	WI MOD DRO	683786
10522854001	**SB-1 (0.5-1.5)**	EPA 5030 Medium Soil	683947	WI MOD GRO	684528
10522854002	**SB-2 (0.5-1)**	EPA 5030 Medium Soil	683947	WI MOD GRO	684528
10522854003	**SB-3 (6.5-7)**	EPA 5030 Medium Soil	683947	WI MOD GRO	684528
10522854004	**SB-4 (4"-10")**	EPA 5030 Medium Soil	683947	WI MOD GRO	684528
10522854005	**TT-1 (2'-4')**	EPA 5030 Medium Soil	683947	WI MOD GRO	684528
10522854006	**TT-1 Hotspot (2-4)**	EPA 5030 Medium Soil	683947	WI MOD GRO	684528
10522854009	**MeOH Trip Blank**	EPA 5030 Medium Soil	683947	WI MOD GRO	684528
10522854001	**SB-1 (0.5-1.5)**	EPA 3050B	683546	EPA 6010D	683871
10522854002	**SB-2 (0.5-1)**	EPA 3050B	683546	EPA 6010D	683871
10522854005	**TT-1 (2'-4')**	EPA 3050B	683546	EPA 6010D	683871
10522854006	**TT-1 Hotspot (2-4)**	EPA 3050B	683546	EPA 6010D	683871
10522854007	**TT-2 (2-3')**	EPA 3050B	683546	EPA 6010D	683871
10522854008	**TT-3 (1-2)**	EPA 3050B	683546	EPA 6010D	683871
10522854001	**SB-1 (0.5-1.5)**	EPA 7471B	683549	EPA 7471B	683956
10522854002	**SB-2 (0.5-1)**	EPA 7471B	683549	EPA 7471B	683956
10522854005	**TT-1 (2'-4')**	EPA 7471B	683549	EPA 7471B	683956
10522854006	**TT-1 Hotspot (2-4)**	EPA 7471B	683549	EPA 7471B	683956
10522854007	**TT-2 (2-3')**	EPA 7471B	683549	EPA 7471B	683956
10522854008	**TT-3 (1-2)**	EPA 7471B	683549	EPA 7471B	683956
10522854001	**SB-1 (0.5-1.5)**	ASTM D2974	685181		
10522854002	**SB-2 (0.5-1)**	ASTM D2974	685181		
10522854003	**SB-3 (6.5-7)**	ASTM D2974	685181		
10522854004	**SB-4 (4"-10")**	ASTM D2974	685181		
10522854005	**TT-1 (2'-4')**	ASTM D2974	685181		
10522854006	**TT-1 Hotspot (2-4)**	ASTM D2974	685181		
10522854007	**TT-2 (2-3')**	ASTM D2974	685181		
10522854008	**TT-3 (1-2)**	ASTM D2974	685181		
10522854003	**SB-3 (6.5-7)**	EPA 3550C	683450	EPA 8270E by SIM	683616
10522854005	**TT-1 (2'-4')**	EPA 3550C	683450	EPA 8270E by SIM	683616
10522854006	**TT-1 Hotspot (2-4)**	EPA 3550C	683450	EPA 8270E by SIM	683616
10522854007	**TT-2 (2-3')**	EPA 3550C	683450	EPA 8270E by SIM	683616
10522854008	**TT-3 (1-2)**	EPA 3550C	683450	EPA 8270E by SIM	683616
10522854001	**SB-1 (0.5-1.5)**	5035A	1502542	EPA 8260D	1502542
10522854002	**SB-2 (0.5-1)**	5035A	1502542	EPA 8260D	1502542
10522854003	**SB-3 (6.5-7)**	5035A	1503026	EPA 8260D	1503026
10522854004	**SB-4 (4"-10")**	5035A	1503026	EPA 8260D	1503026

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B1903316.00 Hillcrest
Pace Project No.: 10522854

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10522854005	**TT-1 (2'-4')**	5035A	1503026	EPA 8260D	1503026
10522854006	**TT-1 Hotspot (2-4)**	5035A	1503026	EPA 8260D	1503026
10522854007	**TT-2 (2-3')**	5035A	1503026	EPA 8260D	1503026
10522854008	**TT-3 (1-2)**	5035A	1503026	EPA 8260D	1503026
10522854009	**MeOH Trip Blank**	5035A	1503026	EPA 8260D	1503026
10522854001	**SB-1 (0.5-1.5)**	SM 2540 G	1501725	SM 2540G	1501725
10522854002	**SB-2 (0.5-1)**	SM 2540 G	1501725	SM 2540G	1501725
10522854003	**SB-3 (6.5-7)**	SM 2540 G	1501725	SM 2540G	1501725
10522854004	**SB-4 (4"-10")**	SM 2540 G	1501725	SM 2540G	1501725
10522854005	**TT-1 (2'-4')**	SM 2540 G	1501725	SM 2540G	1501725
10522854006	**TT-1 Hotspot (2-4)**	SM 2540 G	1501725	SM 2540G	1501725
10522854007	**TT-2 (2-3')**	SM 2540 G	1502581	SM 2540G	1502581
10522854008	**TT-3 (1-2)**	SM 2540 G	1502581	SM 2540G	1502581

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CHAIN-OF-CUSTODY / Analytical Request Docu

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed a

WO# : 10522854

10522854

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Braun Intertec	Report To: Mark Keefer	Attention:
Address: 11001 Hampshire Ave S	Copy To:	Company Name:
Bloomington, MN 55438		Address: Same
Email To: MKeefer@braunintertec.com	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name: Hillcrest	Pace Project Manager:
Requested Due Date/TAT: STD	Project Number: B1903316.00	Pace Profile #: 34125

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MN

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	VOCs	GRO	DRO	RCRA	NO_2/NO_3	TKN	Pesticides	Fungicides	PAHs	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SB-1 (.5-1.5)	SL	G			6/24/20	1201												X	X	X	X	X	X	X	X			W1
2	SB-2 (0.5-1)	↓	↓			↓	1045												X	X	X	X							W2
3	SB-3 (6.5-7)	↓	↓			↓	0947												X	X	X						X		W3
4	SB-4 (4"-10")	↓	↓			↓	0857												X	X	X								W4
5	TT-1 (2-4')	↓	↓			↓	1630												X	X	X	X					X		W5
6	TT-1 Hot Spot (2-4)	↓	↓			↓	1615												↓	↓	↓	↓					↓		W6
7	TT-2 (2-3')	↓	↓			↓	1445												X			X					X		W7
8	TT-3 (1-2)	↓	↓			↓	1414												↓			↓					↓		W8
9	MeOH Trip blank (X2)																		X	X									W9
10																													
11																													
12																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Graham Hanson/Braun	6/24/20	1750	Rd M Pace	6/25/2020	8:30	1.8 3.0	Y	N	Y
	Rd M Pace	6/25/2020	8:31	Chase G / Pace	6/25/20	1020				
	Chase G / Pace	6/25/20	1105	D-PACE	6/25/20	1105	1.8 3.0	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Graham Hanson

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 06/24/20

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-C-010-rev.00, 09Nov2017

CEG 6/25/20

Pace Analytical®	Document Name: **Sample Condition Upon Receipt (SCUR) - MN**	Document Revised: 27Mar2020 **Page 1 of 1**
	Document No.: **ENV-FRM-MIN4-0150 Rev.00**	Pace Analytical Services - **Minneapolis**

Sample Condition Upon Receipt

Client Name: Braun

Project #: **WO#: 10522854**

PM: BM2 **Due Date: 07/02/20**

CLIENT: Braun-BLM

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Pace ☐ SpeeDee ☐ Commercial **See Exceptions** ☐

Tracking Number:

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No **Biological Tissue Frozen?** ☐ Yes ☐ No ☑ N/A

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other: _____ **Temp Blank?** ☑ Yes ☐ No

Thermometer: ☐ T1(0461) ☐ T2(1336) ☐ T3(0459) ☑ T4(0254) ☐ T5(0489) **Type of Ice:** ☑ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted

Did Samples Originate in West Virginia? ☐ Yes ☑ No **Were All Container Temps Taken?** ☐ Yes ☐ No ☑ N/A

Temp should be above freezing to 6°C **Cooler Temp Read w/temp blank:** 1.8, 3.0 °C

Correction Factor: 0.0 **Cooler Temp Corrected w/temp blank:** 1.8, 3.0 °C

Average Corrected Temp (no temp blank only): ☐ See Exceptions ☐ 1 Container _____ °C

USDA Regulated Soil: (☐ N/A, water sample/Other: _____)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☑ No

Date/Initials of Person Examining Contents: 6/25/20 IJ

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☑ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present and Filled Out?	☑ Yes	☐ No		1.
Chain of Custody Relinquished?	☑ Yes	☐ No		2.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	3.
Samples Arrived within Hold Time?	☑ Yes	☐ No		4.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No		5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other
Rush Turn Around Time Requested?	☐ Yes	☑ No		6.
Sufficient Volume?	☑ Yes	☐ No		7.
Correct Containers Used?	☑ Yes	☐ No		8. Sample 3 one DRO container empty upon arrival
-Pace Containers Used?	☑ Yes	☐ No		
Containers Intact?	☑ Yes	☐ No		9.
Field Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☑ N/A	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Is sufficient information available to reconcile the samples to the COC?	☑ Yes	☐ No		11. **If no, write ID/ Date/Time on Container Below:** **See Exception** ☐
Matrix: ☐ Water ☑ Soil ☐ Oil ☐ Other				
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☑ N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide)	☐ Yes	☐ No	☑ N/A	☐ NaOH ☐ HNO_3 ☐ H_2SO_4 ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☐ Yes	☐ No	☑ N/A	Positive for Res. Chlorine? ☐ Yes ☐ No **pH Paper Lot#** **See Exception** ☐
				Res. Chlorine | 0-6 Roll | 0-6 Strip | 0-14 Strip
Extra labels present on soil VOA or WIDRO containers?	☐ Yes	☑ No	☑ N/A	13. **See Exception** ☐
Headspace in VOA Vials (greater than 6mm)?	☐ Yes	☐ No	☑ N/A	
Trip Blank Present?	☑ Yes	☐ No	☐ N/A	14.
Trip Blank Custody Seals Present?	☑ Yes	☐ No	☐ N/A	Pace Trip Blank Lot # (if purchased): 051820-3

6/25/2020 IJ

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: BM **Date:** 6/25/2020

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: IJ

Service Center Transfer Checklist

Service Center: MPLS ☐ BLM ☒ AZ ☐

Client: Braun Intertec

Destination Lab: MPLS ☒ VM ☐ Duluth ☐

National ☐ Other _____

Received w/ Custody Seal ? Yes ☐ No ☒

Custody Seal Intact ? Yes ☐ No ☒

	Temp Read	Corr. Factor	Corr. Temp
Temperature °C	~~1.8/3.0~~ 1.7/2.9	+0.1	1.8/3.0

BM 6/25/20

IR Gun: B88A0143310092 ☐ Samples on ice, in cool down

Rush ☐ **Short Hold** ☐ **N/A** ☒

Containers Intact ? Yes ☑ No ☐

Repacked and Re-Iced ? Yes ☑ No ☐

Notes: _____

Chain of Custody

Pace Analytical
www.pacelabs.com

☐ Samples were sent directly to the Subcontracting Laboratory. AZ02618

State Of Origin: MN
Cert. Needed: ☒ Yes ☐ No

Workorder: 10522854 **Workorder Name:** B1903316.00 Hillcrest

Owner Received Date: 6/25/2020 **Results Requested By:** 7/10/2020

Report To	Subcontract To
Bob Michels Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)709-5046	Pace Analytical Madison 2525 Advance Road Madison, WI 53718 Phone (608)221-8700

JGFU

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved						Requested Analysis: MDA List 2 Pesticides												LAB USE ONLY
1	SB-1 (0.5-1.5)	PS	6/24/2020 12:01	10522854001	Solid	1						X												61
2																								
3																								
4																								
5																								

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	6/25/20 1540	[signature]	6/26/20 1145
2				
3				

Comments

Cooler Temperature on Receipt 3.0 °C | **Custody Seal** (Y) or N | **Received on Ice** (Y) or N | **Samples Intact** (Y) or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.*
This chain of custody is considered complete as is since this information is available in the owner laboratory.

SIN 1601422774
Exp 12/19/20

Chain of Custody

Pace Analytical®
www.pacelabs.com

☐ Samples were sent directly to the Subcontracting Laboratory.

State Of Origin: MN
Cert. Needed: ☒ Yes ☐ No

Workorder: 10522854 **Workorder Name:** B1903316.00 Hillcrest
Owner Received Date: 6/25/2020 **Results Requested By:** 7/10/2020

Report To	Subcontract To
Bob Michels Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)709-5046	Pace National 12064 Lebanon Road Mt. Juliet, TN 37122

L1234156

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: MeOH (VG9M)	Preserved Containers: Other (DWC)	Dry weight	VOCs by 8260D	LAB USE ONLY
1	SB-1 (0.5-1.5)	PS	6/24/2020 12:01	10522854001	Solid	2	1	X	X	-01
2	SB-2 (0.5-1)	PS	6/24/2020 10:45	10522854002	Solid	2	1	X	X	-02
3	SB-3 (6.5-7)	PS	6/24/2020 09:47	10522854003	Solid	2	1	X	X	-03
4	SB-4 (4-10")	PS	6/24/2020 08:57	10522854004	Solid	2	1	X	X	-04
5	TT-1 (2-4')	PS	6/24/2020 16:30	10522854005	Solid	2	1	X	X	-05
6	TT-1 Hotspot (2-4)	PS	6/24/2020 16:15	10522854006	Solid	2	1	X	X	-06
7	TT-2 (2-3')	PS	6/24/2020 14:45	10522854007	Solid	2	1	X	X	-07
8	TT-3 (1-2)	PS	6/24/2020 14:14	10522854008	Solid	2	1	X	X	-08
9	MeOH Trip Blank	PS	6/24/2020 00:00	10522854009	Solid	2			X	-09

Transfers	Released By	Date/Time	Received By	Date/Time
1	PACE	6262014:30		
2				
3				6/27 8:45

Comments

04

Cooler Temperature on Receipt 1 °C | **Custody Seal** (Y) or N | **Received on Ice** (Y) or N | **Samples Intact** (Y) or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.
This chain of custody is considered complete as is since this information is available in the owner laboratory.

.3-.2=.1 MW AT

C151

Pace Analytical National Center for Testing & Innovation
Cooler Receipt Form

Client: PSCEMN		L1234156
Cooler Received/Opened On: 6/27/20	Temperature:	0.1°2
Received By: LUCAS GREEN		
Signature:		

Receipt Check List	NP	Yes	No
COC Seal Present / Intact?		✓	
COC Signed / Accurate?		✓	
Bottles arrive intact?		✓	
Correct bottles used?		✓	
Sufficient volume sent?		✓	
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			

1320 7522 7800

WO#: 12146326

PM: LM2 Due Date: 07/10/20
CLIENT: PACE MPLS

Chain of Custody

☐ Samples were sent directly to the Subcontracting Laboratory.

State Of Origin: MN
Cert. Needed: ☒ Yes ☐ No

Workorder: 10522854 **Workorder Name:** B1903316.00 Hillcrest **Owner Received Date:** 6/25/2020 **Results Requested By:** 7/10/2020

Report To	Subcontract To
Bob Michels Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)709-5046	Pace Analytical Duluth 4730 Oneota St. Duluth, MN 55807 Phone (218)727-6380

JGFU

Requested Analysis

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	Nitrate + Nitrite 353.2	Total Kjeldahl Nitrogen 351.2	LAB USE ONLY
1	SB-1 (0.5-1.5)	PS	6/24/2020 12:01	10522854001	Solid	1	X	X	
2									
3									
4									
5									

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature] / Pace	6/25/20 1540	[signature] 6/25/20	1830
2	[signature] 6/25/20	2100	[signature]	6/26/2020 08:00
3				

Comments

Cooler Temperature on Receipt 0.2 °C | Custody Seal (Y) or N | Received on Ice (Y) or N | Samples Intact (Y) or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.*
This chain of custody is considered complete as is since this information is available in the owner laboratory.

Pace Analytical	Document Name: Sample Condition Upon Receipt Form	Document Revised: 17June2019 Page 1 of 1
	Document No.: F-DUL-C-001-rev.07	Issuing Authority: Pace Duluth Minnesota Quality Office

Sample Condition Upon Receipt **Client Name:** PACE MPLS **Project #:**

WO#: 12146326

PM: LM2 Due Date: 07/10/20

CLIENT: PACE MPLS

Courier: ☐Fed Ex ☐UPS ☐USPS ☐Client ☐SpeeDee ☒Pace ☐Other:

Tracking Number:

Custody Seal on Cooler/Box Present? ☒Yes ☐No **Seals Intact?** ☒Yes ☐No

Packing Material: ☒Bubble Wrap ☐Bubble Bags ☐None ☐Other:

Type of Ice: ☒Wet ☐Blue ☐None ☐Samples on ice, cooling process has begun

Is there evidence of ice formation in samples? ☐Yes ☒No **Biological Tissue Frozen?** ☐Yes ☐No ☒NA

Temp Blank? ☒Yes ☐No **Thermometer Used:** ☒01339252/1710 ☐122639816 **Correction Factor °C:** -0.1

Temp should be above freezing to 6 °C **Cooler Temp Read °C:** 0.3 **Cooler Temp Corrected °C:** 0.2

Date and Initials of Person Examining Contents: 06/26/2020

				Comments:
Chain of Custody Present?	☒Yes	☐No	☐N/A	1.
Chain of Custody Filled Out?	☒Yes	☐No	☐N/A	2.
Chain of Custody Relinquished?	☒Yes	☐No	☐N/A	3.
Sampler Name and Signature on COC?	☐Yes	☐No	☒N/A	4.
Samples Arrived within Hold Time?	☒Yes	☐No	☐N/A	5. If Fecal: ☐<8 hours ☐>8, <24 hours ☐>24 hours
Short Hold Time Analysis (<72 hr)?	☐Yes	☒No	☐N/A	6.
Rush Turn Around Time Requested?	☐Yes	☒No	☐N/A	7.
Sufficient Volume?	☒Yes	☐No	☐N/A	8.
Correct Containers Used?	☒Yes	☐No	☐N/A	9.
-Pace Containers Used?	☒Yes	☐No	☐N/A	
Containers Intact?	☒Yes	☐No	☐N/A	10.
Filtered Volume Received for Dissolved Tests?	☐Yes	☐No	☒N/A	11. Note if sediment is visible in the dissolved containers:
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: SL	☒Yes	☐No	☐N/A	12.
All containers needing acid/base preservation properly preserved?	☐Yes	☐No	☒N/A	13. Note samples needing adjustment:
Headspace in Methyl Mercury Container	☐Yes	☐No	☒N/A	14.
Headspace in VOA Vials (>6mm)?	☐Yes	☐No	☒N/A	15.
Trip Blank Present?	☐Yes	☐No	☒N/A	16.
Trip Blank Custody Seals Present?	☐Yes	☐No	☒N/A	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION: **Field Data Required?** ☐Yes ☐No

Person Contacted: Date/Time:

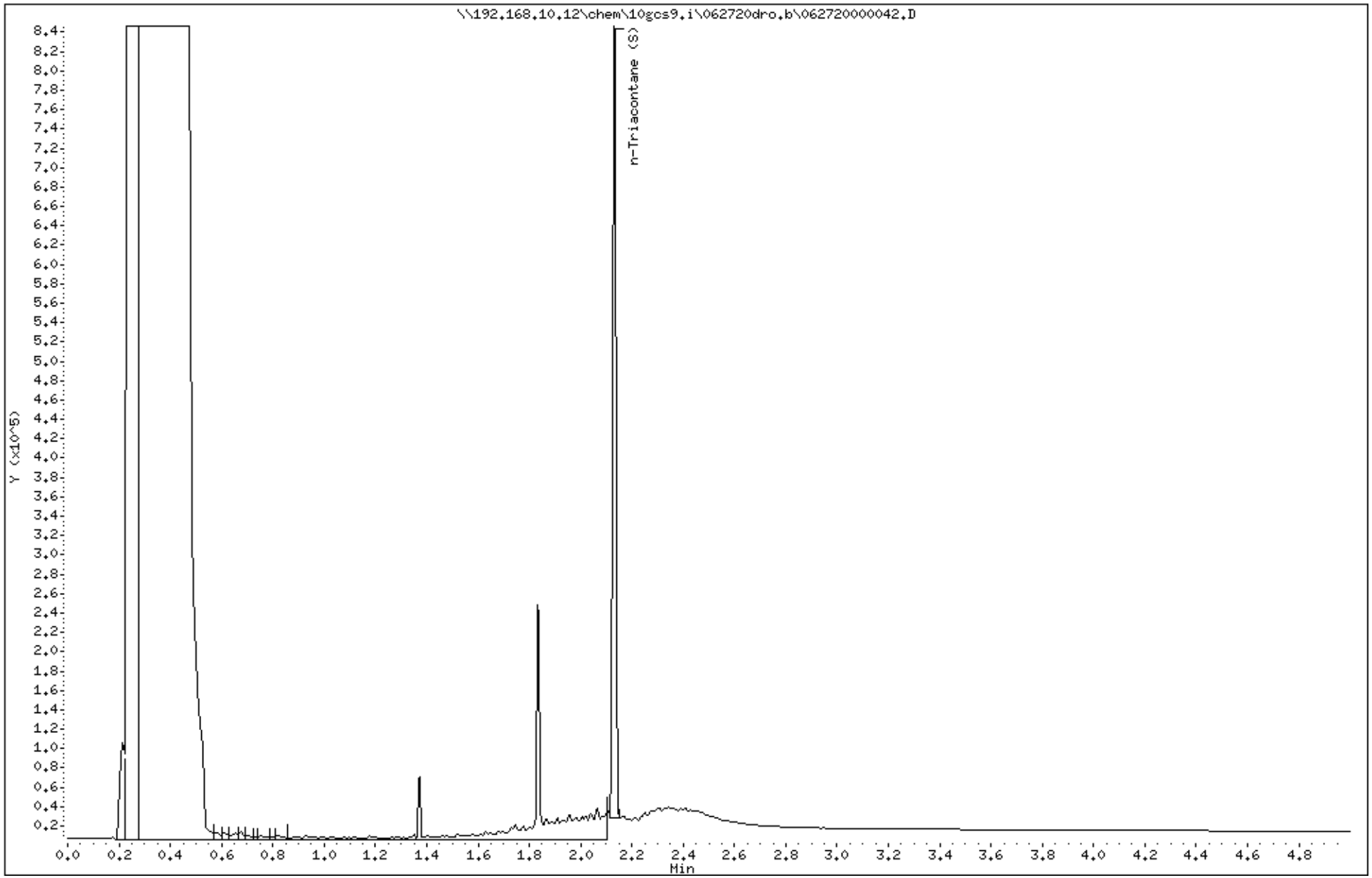
Comments/Resolution:

FECAL WAIVER ON FILE: Y N TEMPERATURE WAIVER ON FILE: Y N

Project Manager Review: **Date:**

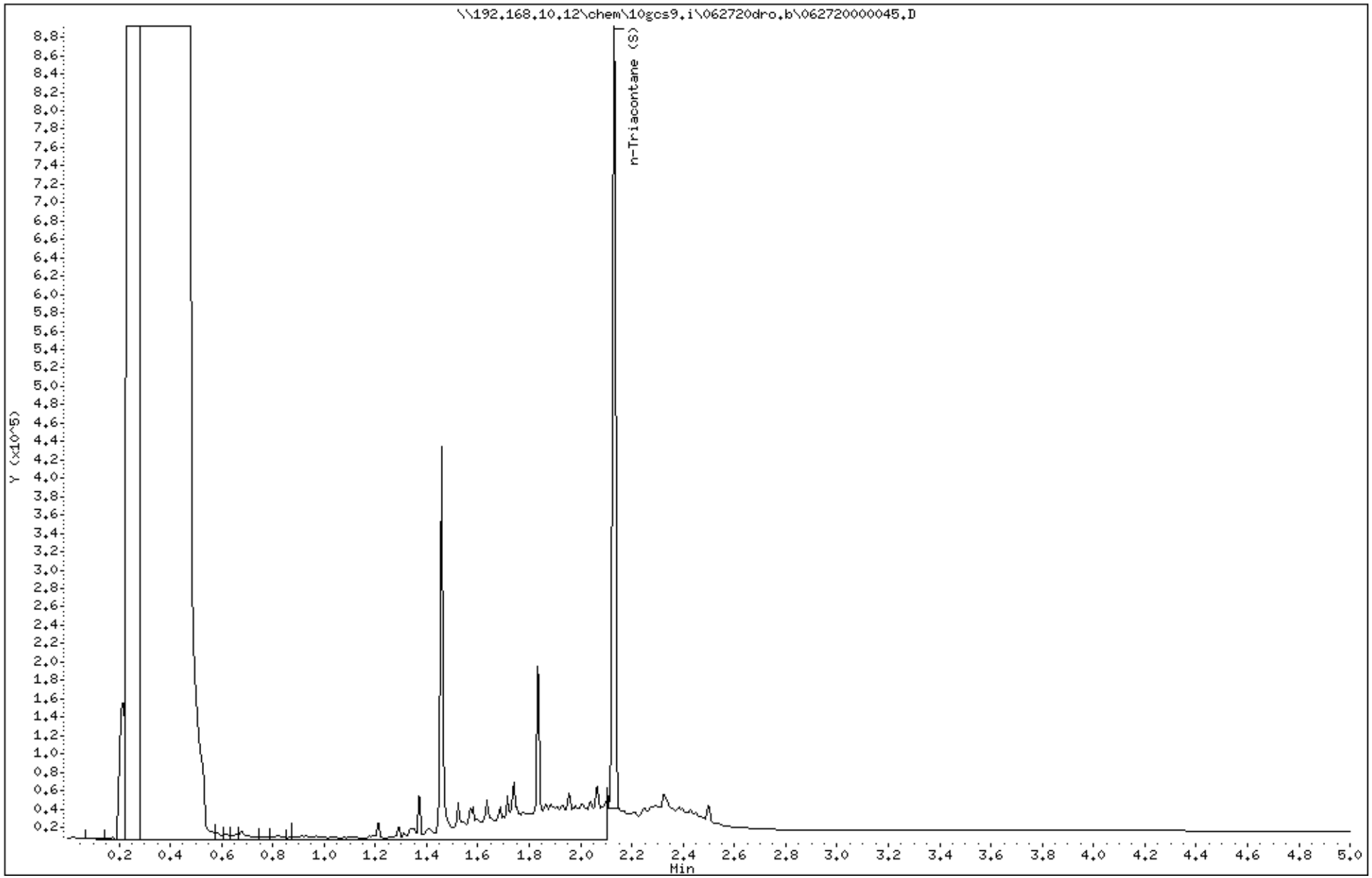
Data File: \\192.168.10.12\chem\10gcs9.i\062720dro.b\062720000042.D
Date : 27-JUN-2020 19:19
Client ID: SB-1 (0.5-1.5)
Sample Info: 10522854001
Volume Injected (uL): 1.0
Column phase: DB-5-US20180032

Instrument: 10gcs9.i
Operator: JVM
Column diameter: 0.32



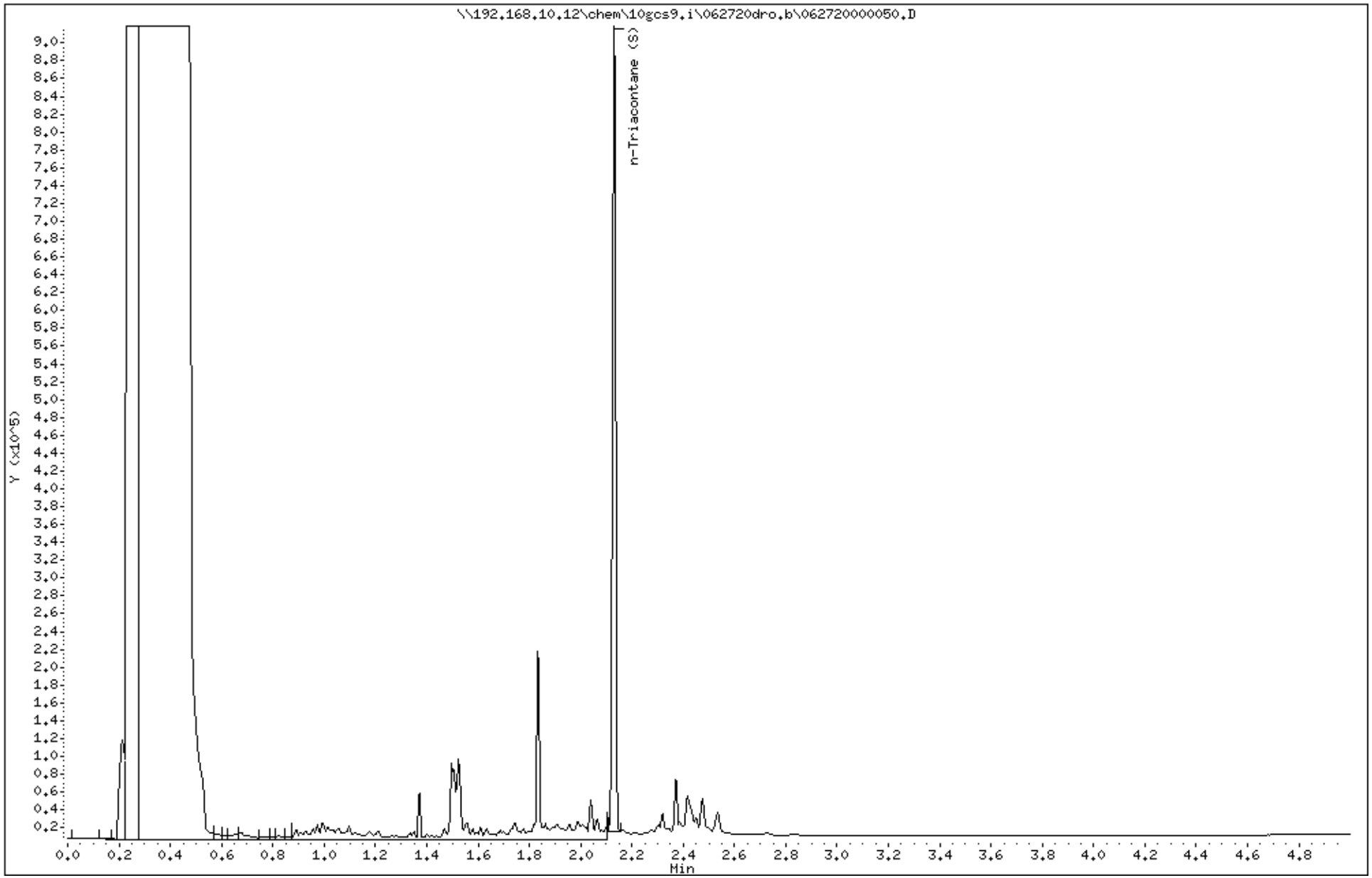
Data File: \\192.168.10.12\chem\10gcs9.i\062720dro.b\062720000045.D
Date : 27-JUN-2020 19:40
Client ID: SB-2 (0.5-1)
Sample Info: 10522854002
Volume Injected (uL): 1.0
Column phase: DB-5-US20180032

Instrument: 10gcs9.i
Operator: JVM
Column diameter: 0.32



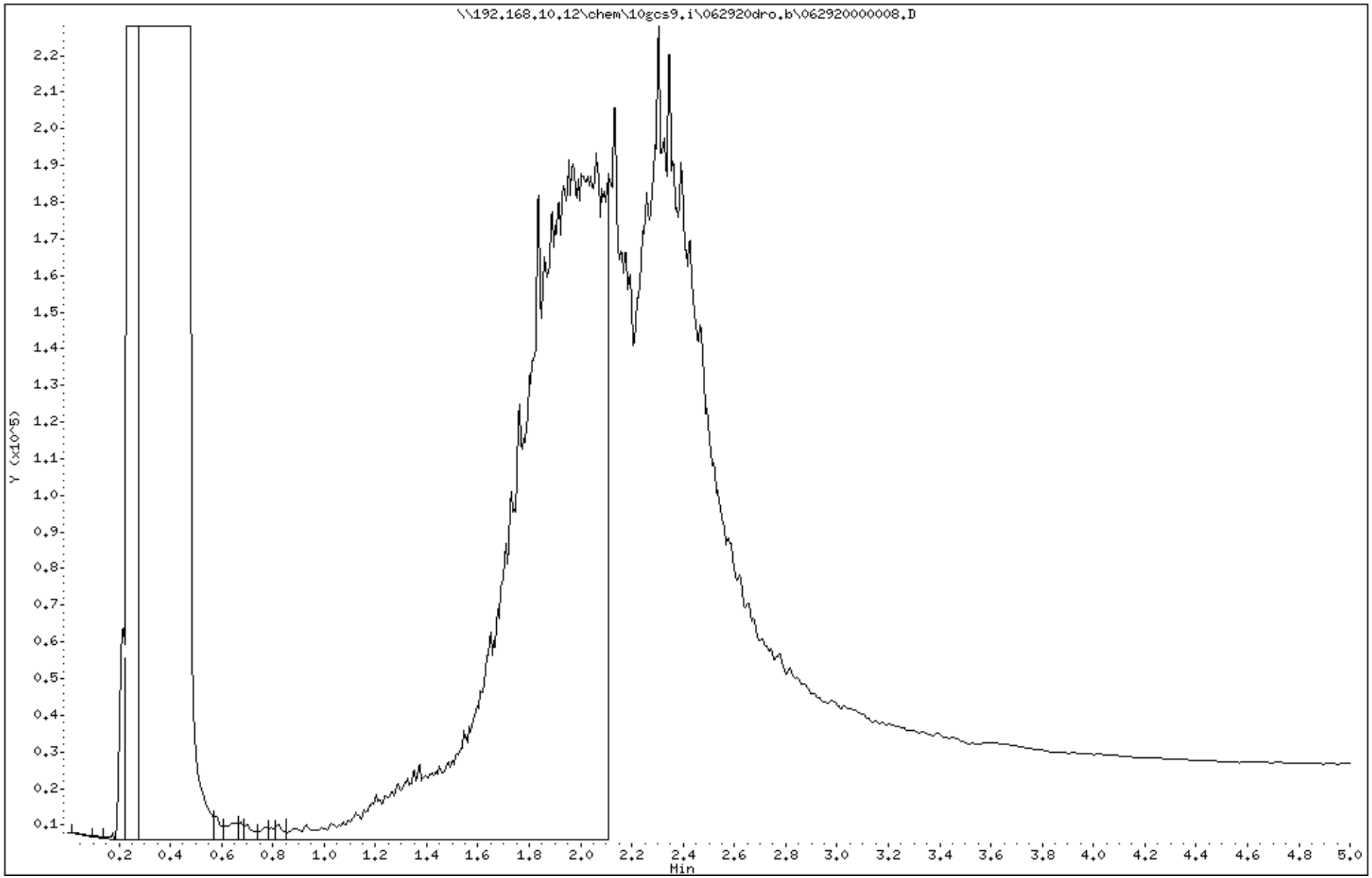
Data File: \\192.168.10.12\chem\10gcs9.i\062720dro.b\062720000050.D
Date : 27-JUN-2020 20:15
Client ID: SB-3 (6.5-7)
Sample Info: 10522854003
Volume Injected (uL): 1.0
Column phase: DB-5-US20180032

Instrument: 10gcs9.i
Operator: JVM
Column diameter: 0.32



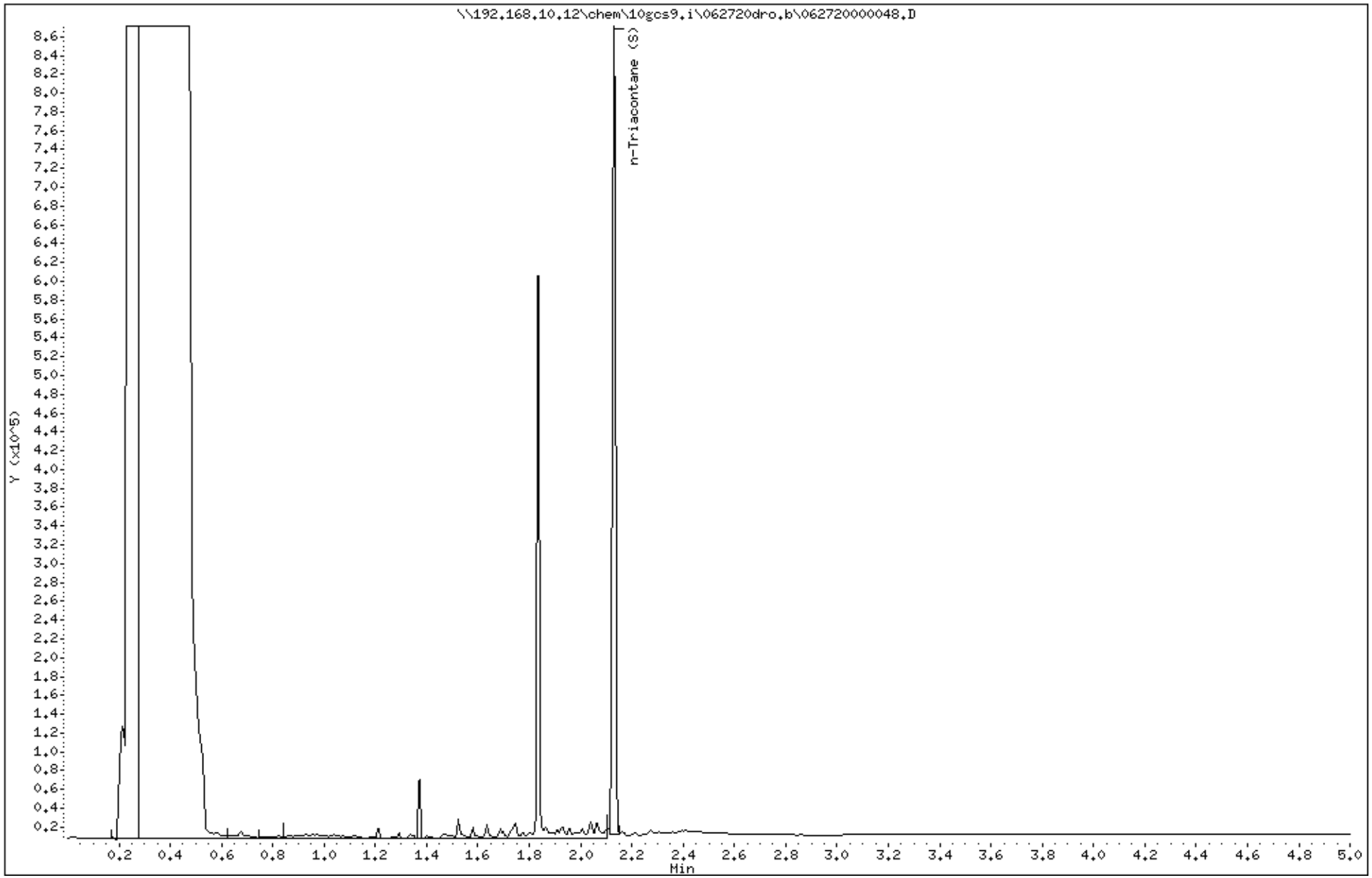
Data File: \\192.168.10.12\chem\10gcs9.i\062920dro.b\062920000008.D
Date : 29-JUN-2020 08:06
Client ID: SB-4 (4"-10'')
Sample Info: 10522854004X5
Volume Injected (uL): 1.0
Column phase: DB-5-US20180032

Instrument: 10gcs9.i
Operator: JVM
Column diameter: 0.32



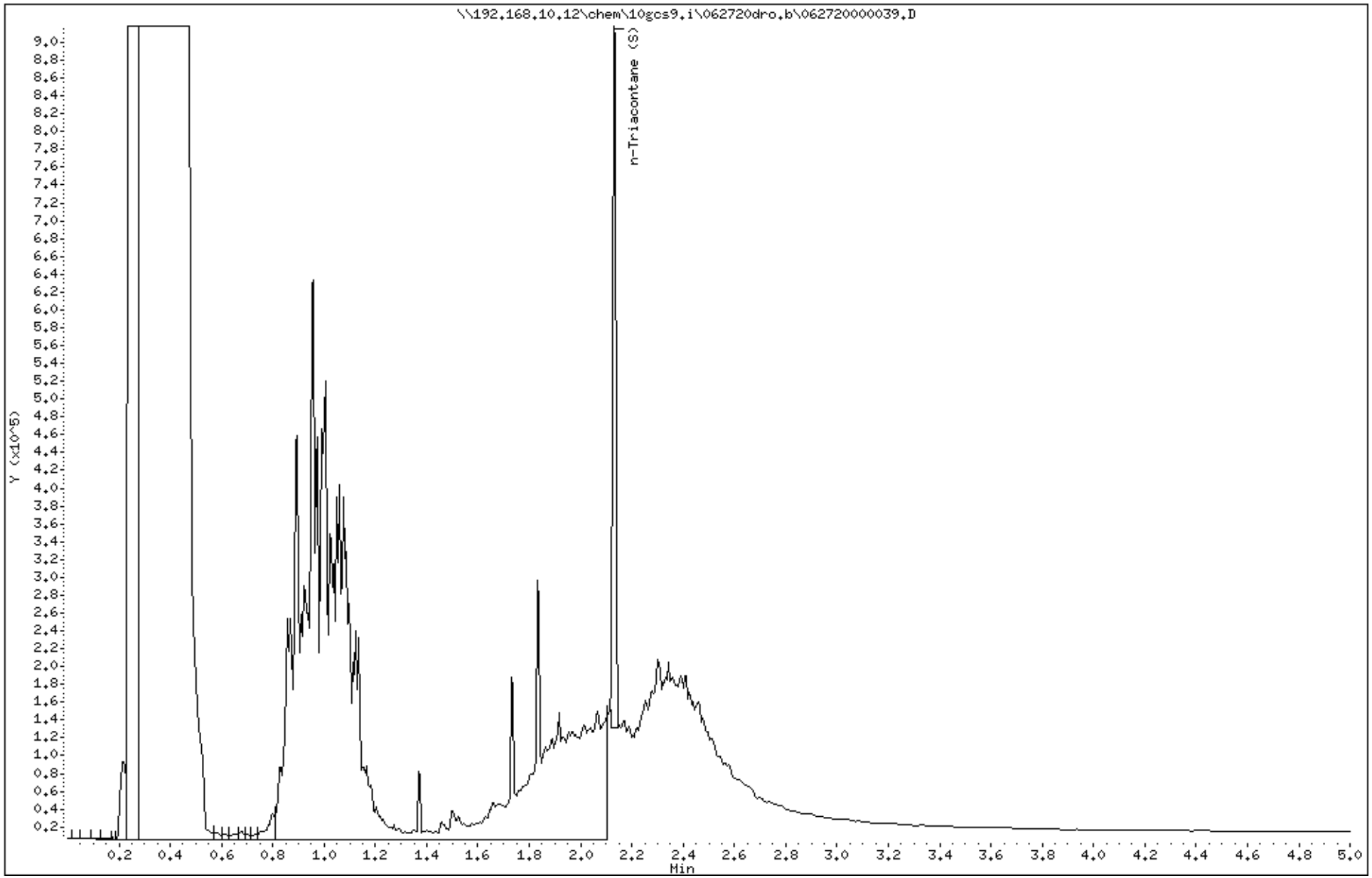
Data File: \\192.168.10.12\chem\10gcs9.i\062720dro.b\062720000048.D
Date : 27-JUN-2020 20:01
Client ID: TT-1 (2'-4')
Sample Info: 10522854005
Volume Injected (uL): 1.0
Column phase: DB-5-US20180032

Instrument: 10gcs9.i
Operator: JVM
Column diameter: 0.32



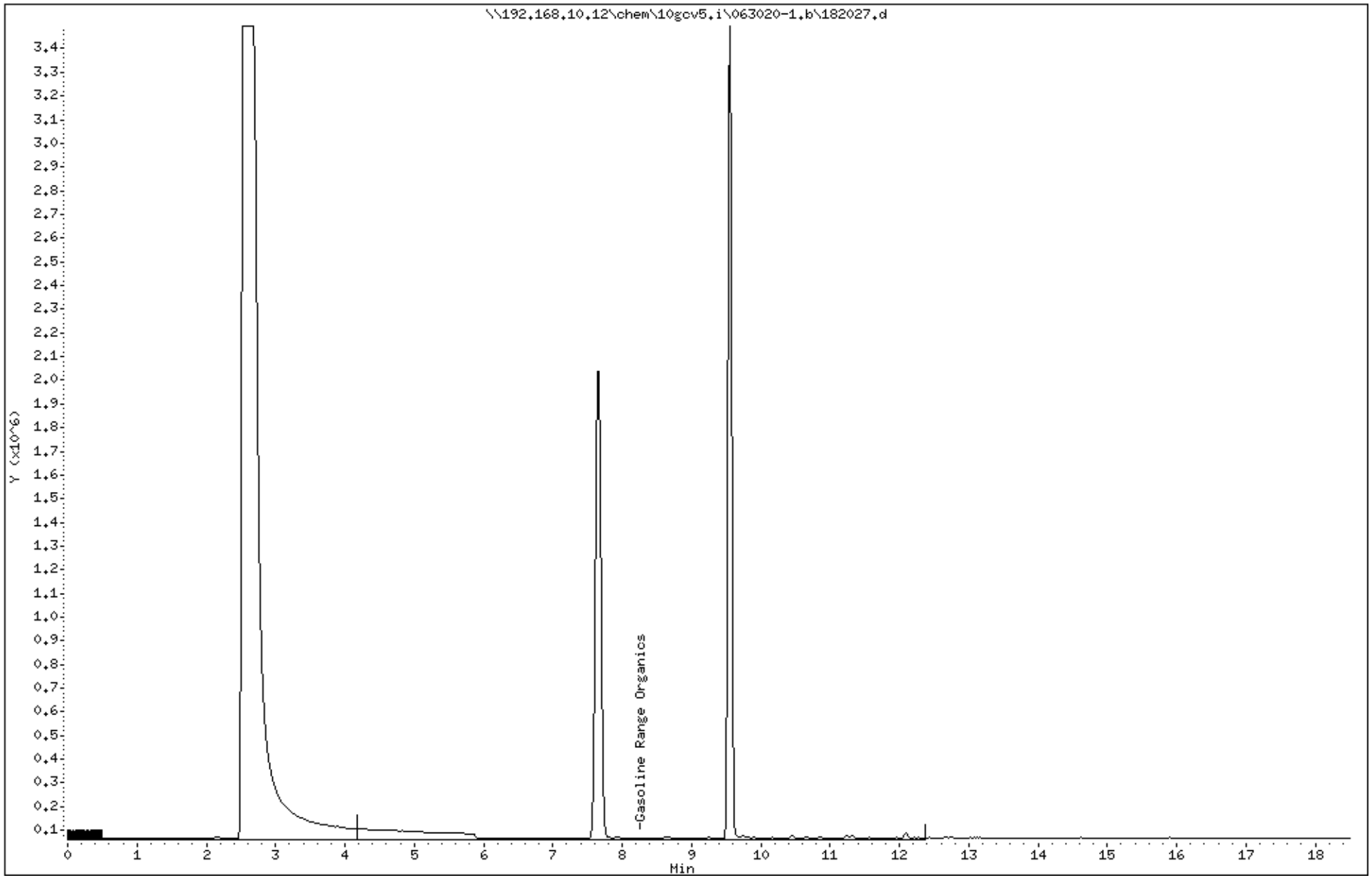
Data File: \\192.168.10.12\chem\10gcs9.i\062720dro.b\062720000039.D
Date : 27-JUN-2020 18:58
Client ID: TT-1 Hotspot (2-4)
Sample Info: 10522854006
Volume Injected (uL): 1.0
Column phase: DB-5-US20180032

Instrument: 10gcs9.i
Operator: JVM
Column diameter: 0.32



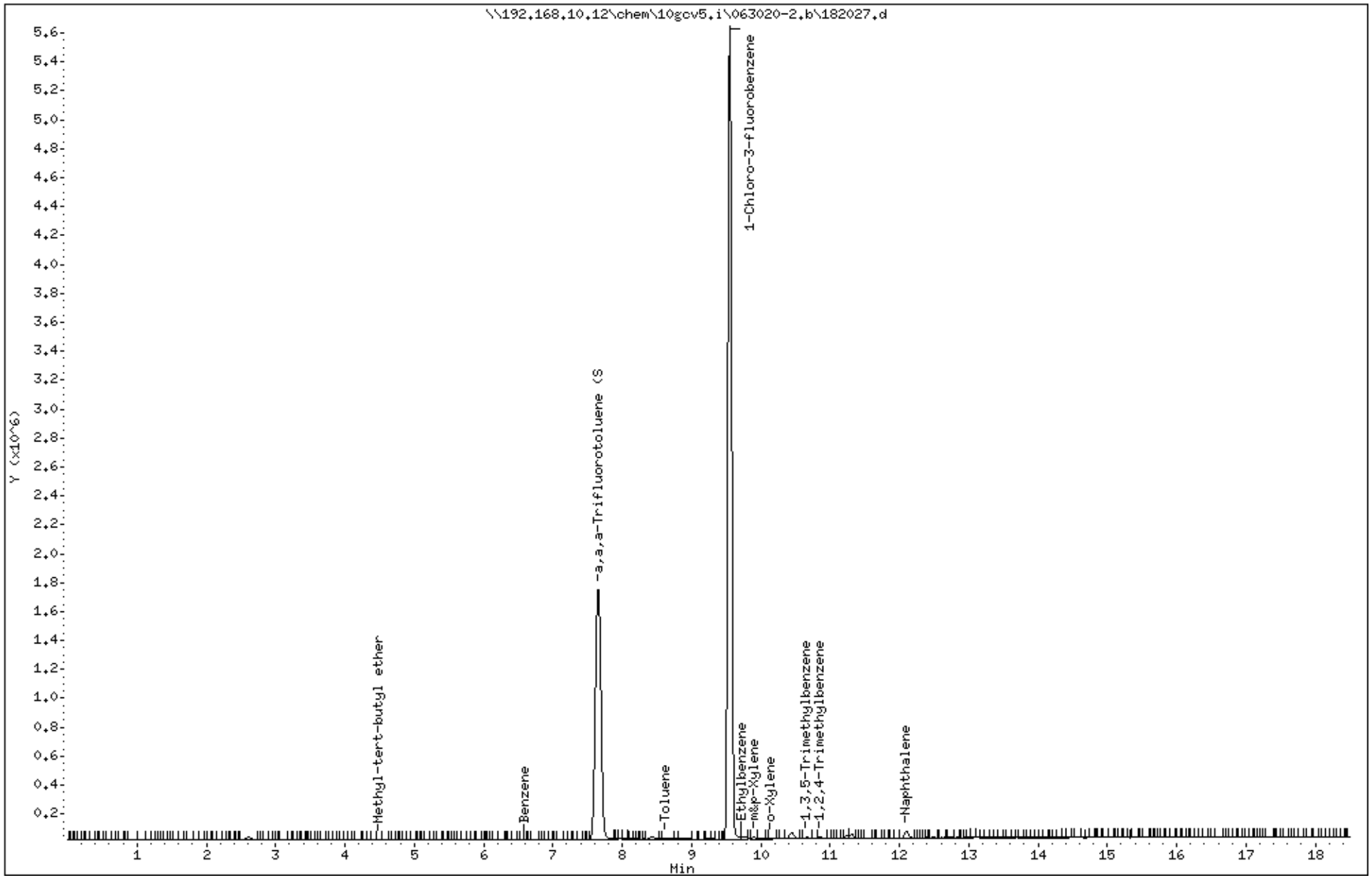
Data File: \\192.168.10.12\chem\10gcv5.i\063020-1.b\182027.d
Date : 01-JUL-2020 01:05
Client ID: SB-1 (0.5-1.5)
Sample Info: 10522854001,

Instrument: 10gcv5.i
Operator: LPM
Column phase: ZB-624 SN592844
Column diameter: 0.53



Data File: \\192.168.10.12\chem\10gcv5.i\063020-2.b\182027.d
Date : 01-JUL-2020 01:05
Client ID: SB-1 (0.5-1.5)
Sample Info: 10522854001,

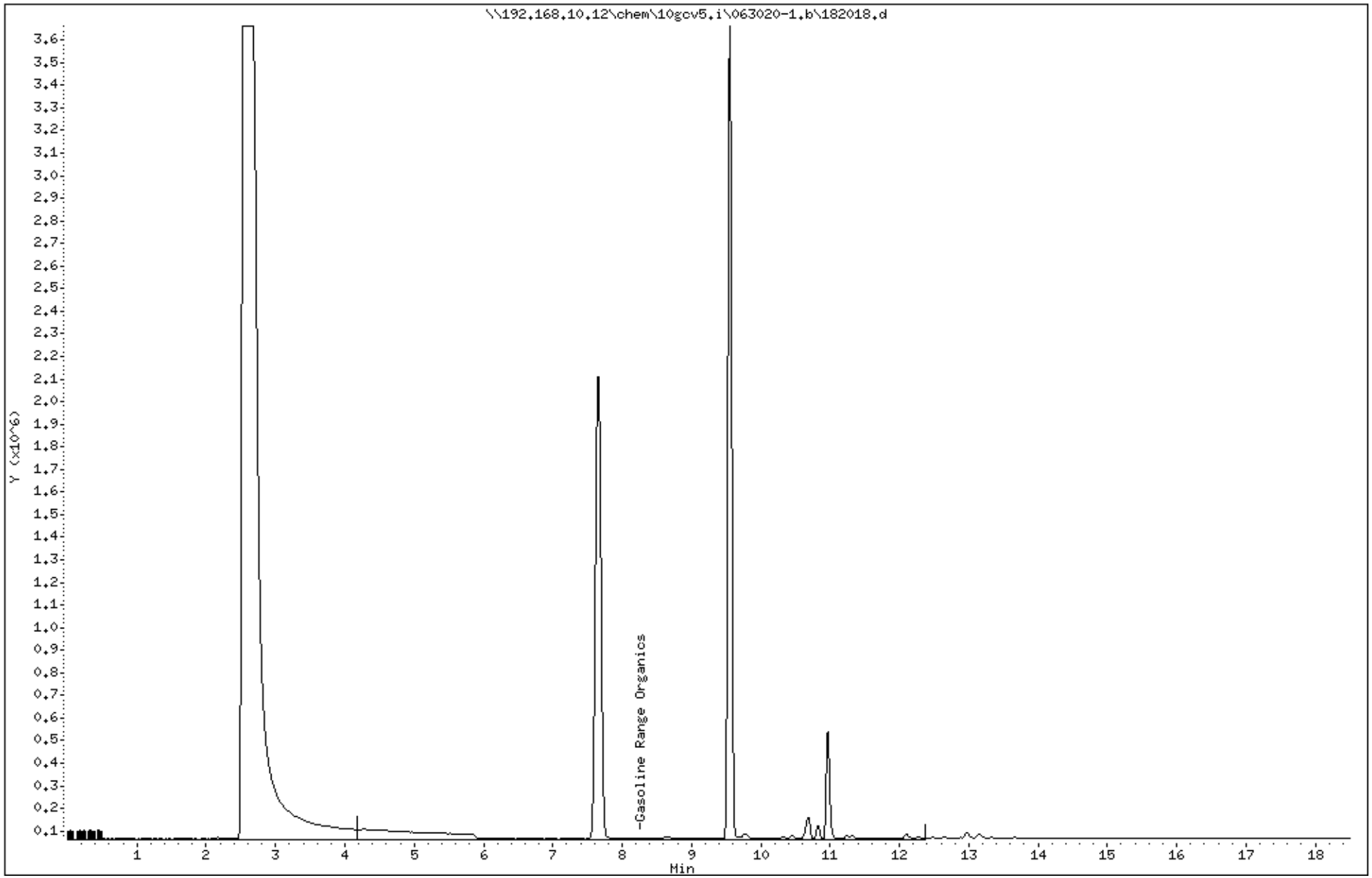
Instrument: 10gcv5.i
Operator: LPM
Column phase: DB-624 SN 592844
Column diameter: 0.53



Data File: \\192.168.10.12\chem\10gcv5.i\063020-1.b\182018.d
Date : 30-JUN-2020 20:53
Client ID: SB-2 (0.5-1)
Sample Info: 10522854002,

Instrument: 10gcv5.i
Operator: LPM
Column diameter: 0.53

Column phase: ZB-624 SN592844



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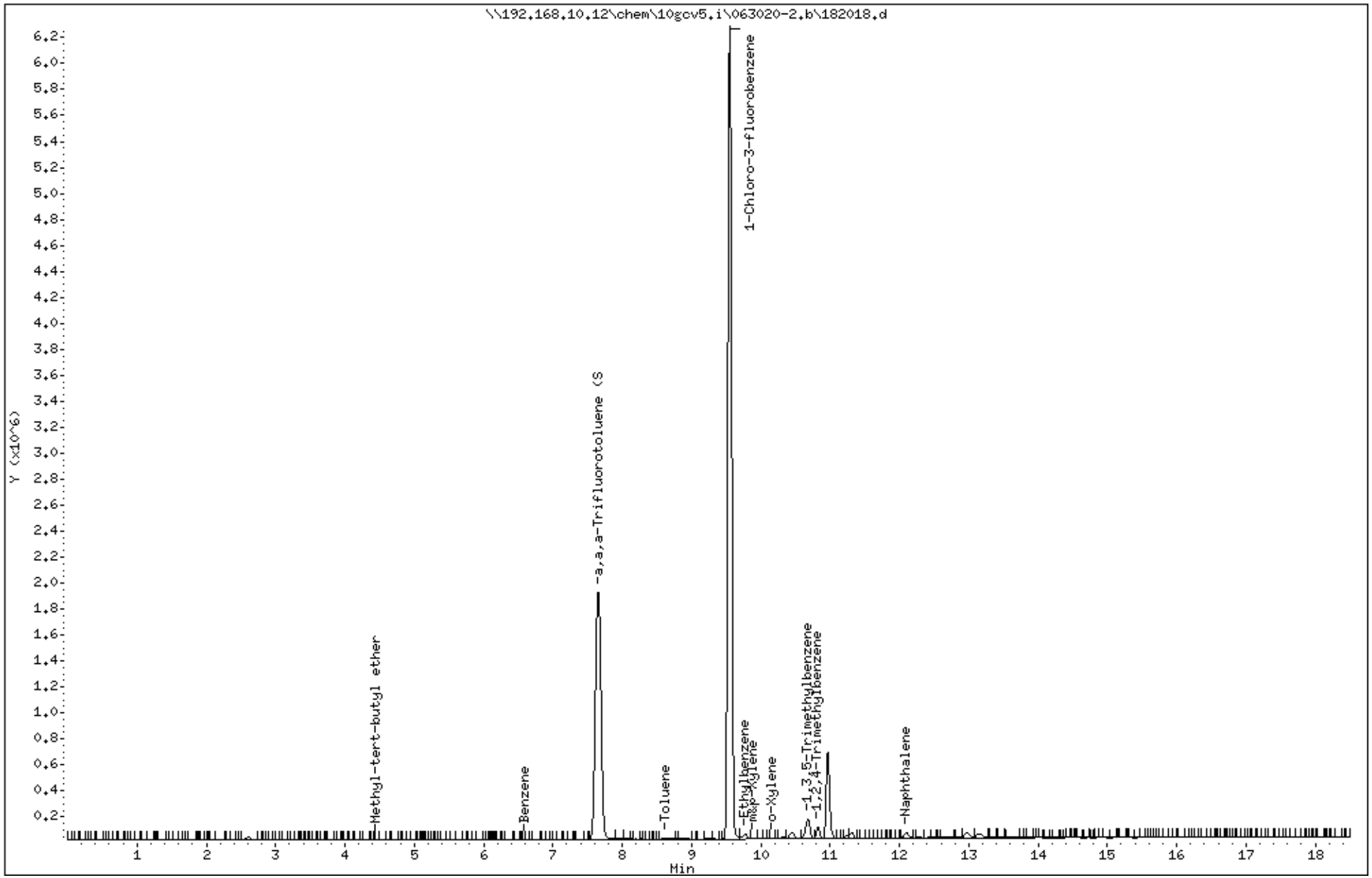
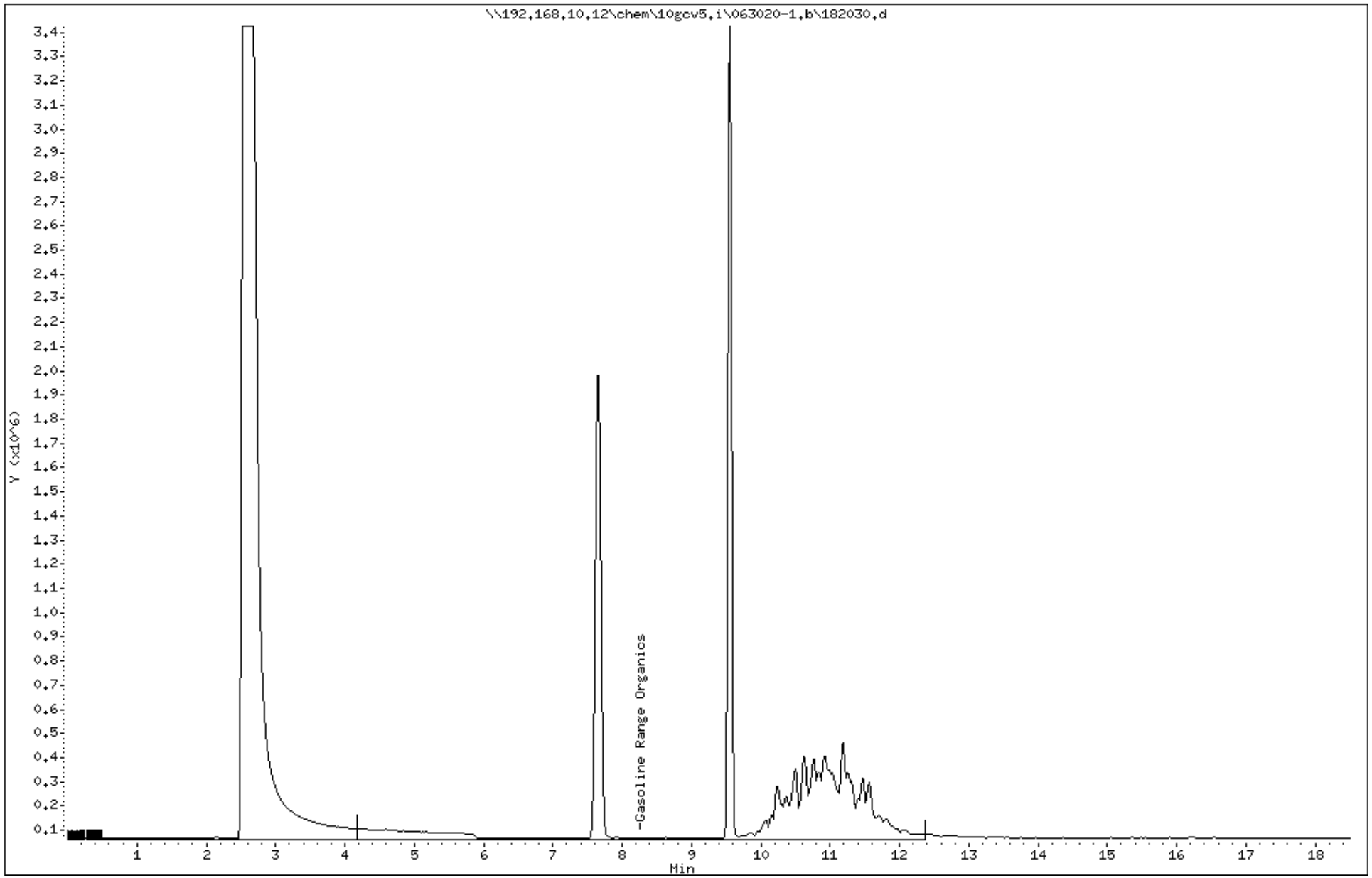
Date : 30-JUN-2020 20:53
Client ID: SB-2 (0.5-1)
Sample Info: 10522854002,

Instrument: 10gcv5.i
Operator: LPM
Column phase: DB-624 SN 592844
Column diameter: 0.53



Data File: \\192.168.10.12\chem\10gcv5.i\063020-1.b\182030.d
Date : 01-JUL-2020 02:29
Client ID: SB-3 (6.5-7)
Sample Info: 10522854003,

Instrument: 10gcv5.i
Operator: LPM
Column phase: ZB-624 SN592844
Column diameter: 0.53



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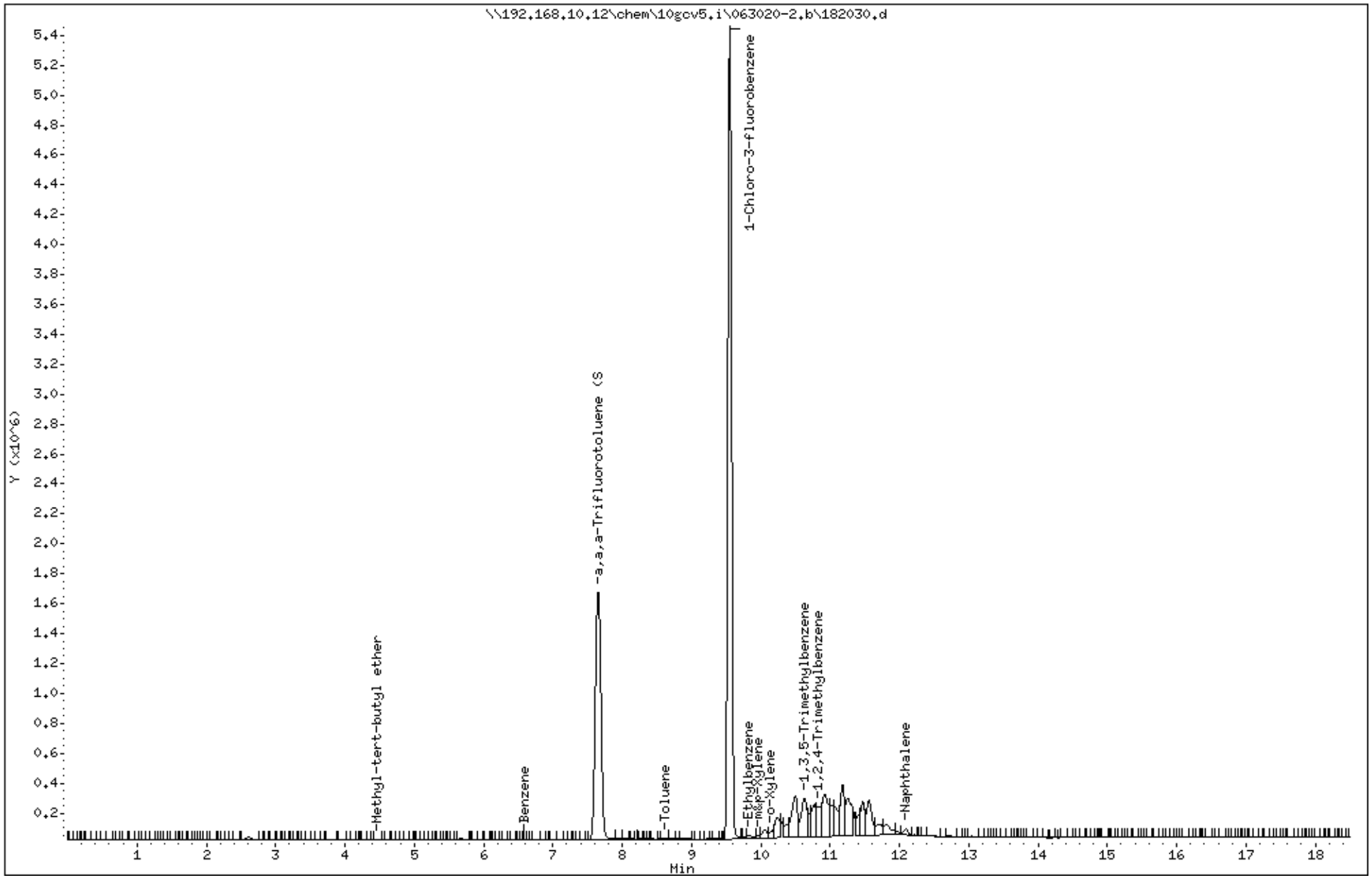
Date : 01-JUL-2020 02:29
Client ID: SB-3 (6.5-7)
Sample Info: 10522854003,

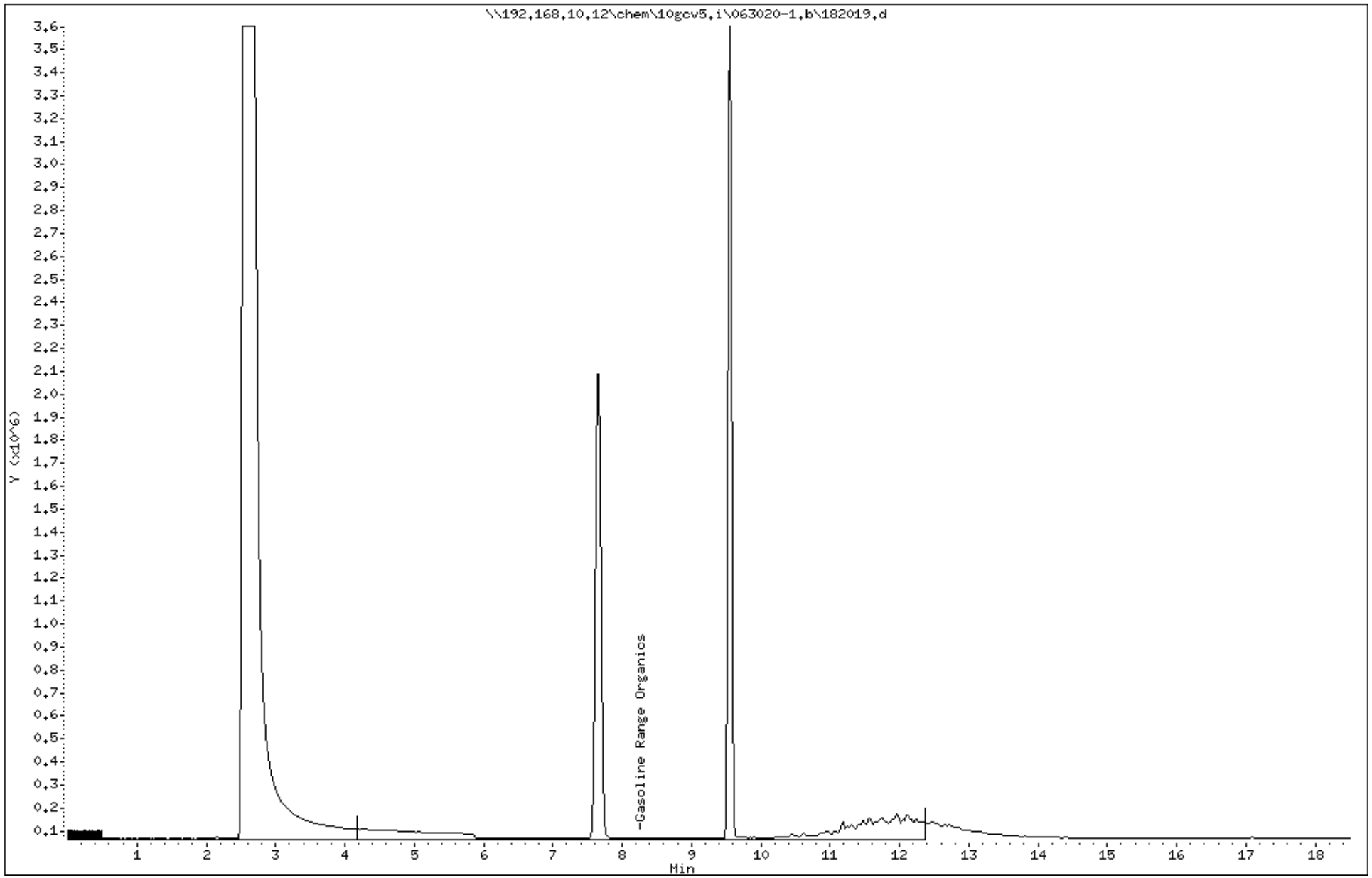
Instrument: 10gcv5.i
Operator: LPM
Column phase: DB-624 SN 592844
Column diameter: 0.53



Data File: \\192.168.10.12\chem\10gcv5.i\063020-1.b\182019.d
Date : 30-JUN-2020 21:21
Client ID: SB-4 (4"-10'')
Sample Info: 10522854004,

Instrument: 10gcv5.i
Operator: LPM
Column diameter: 0.53

Column phase: ZB-624 SN592844



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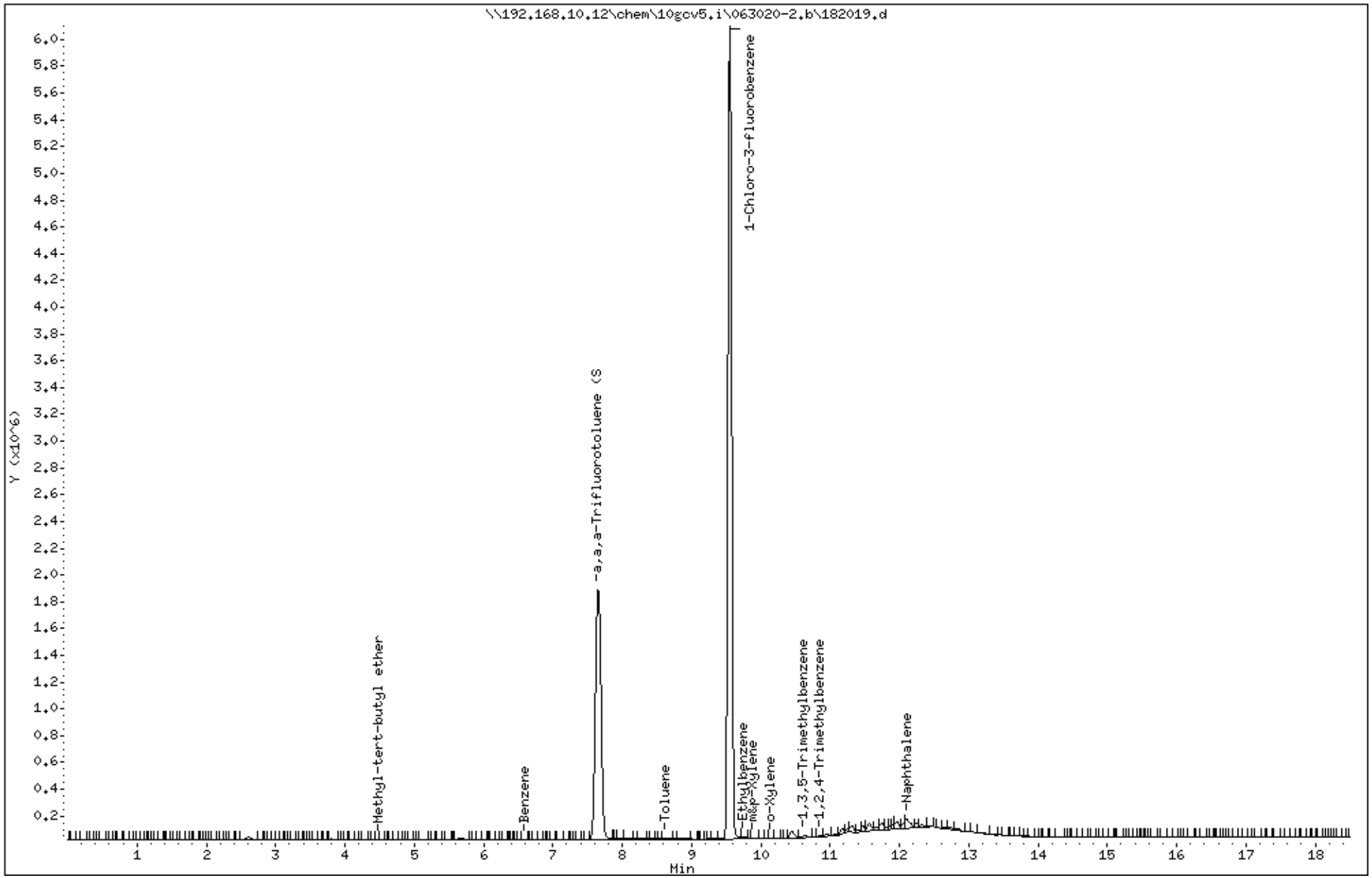
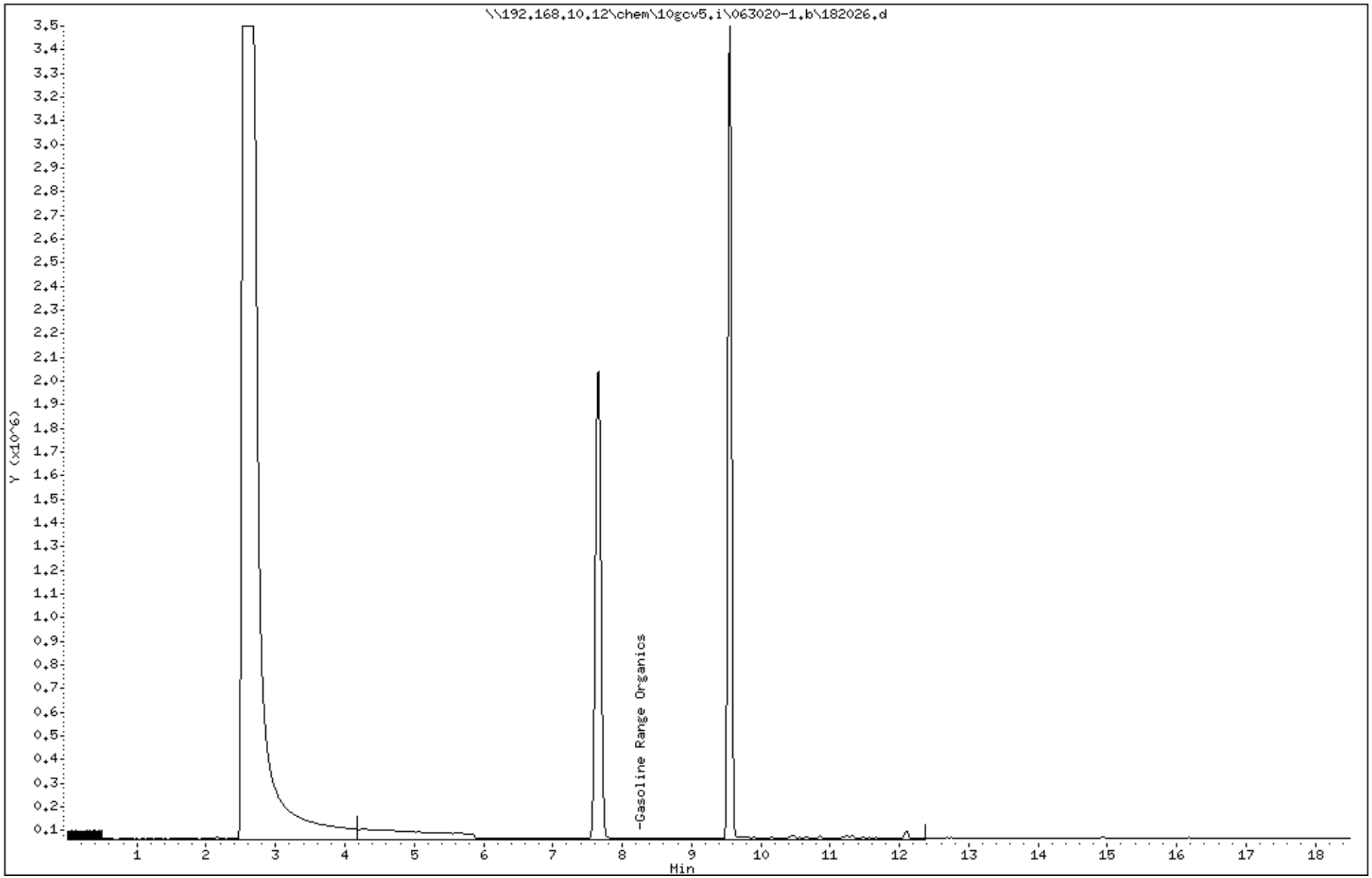
Date : 30-JUN-2020 21:21
Client ID: SB-4 (4"-10'')
Sample Info: 10522854004,

Instrument: 10gcv5.i
Operator: LPM
Column phase: DB-624 SN 592844
Column diameter: 0.53



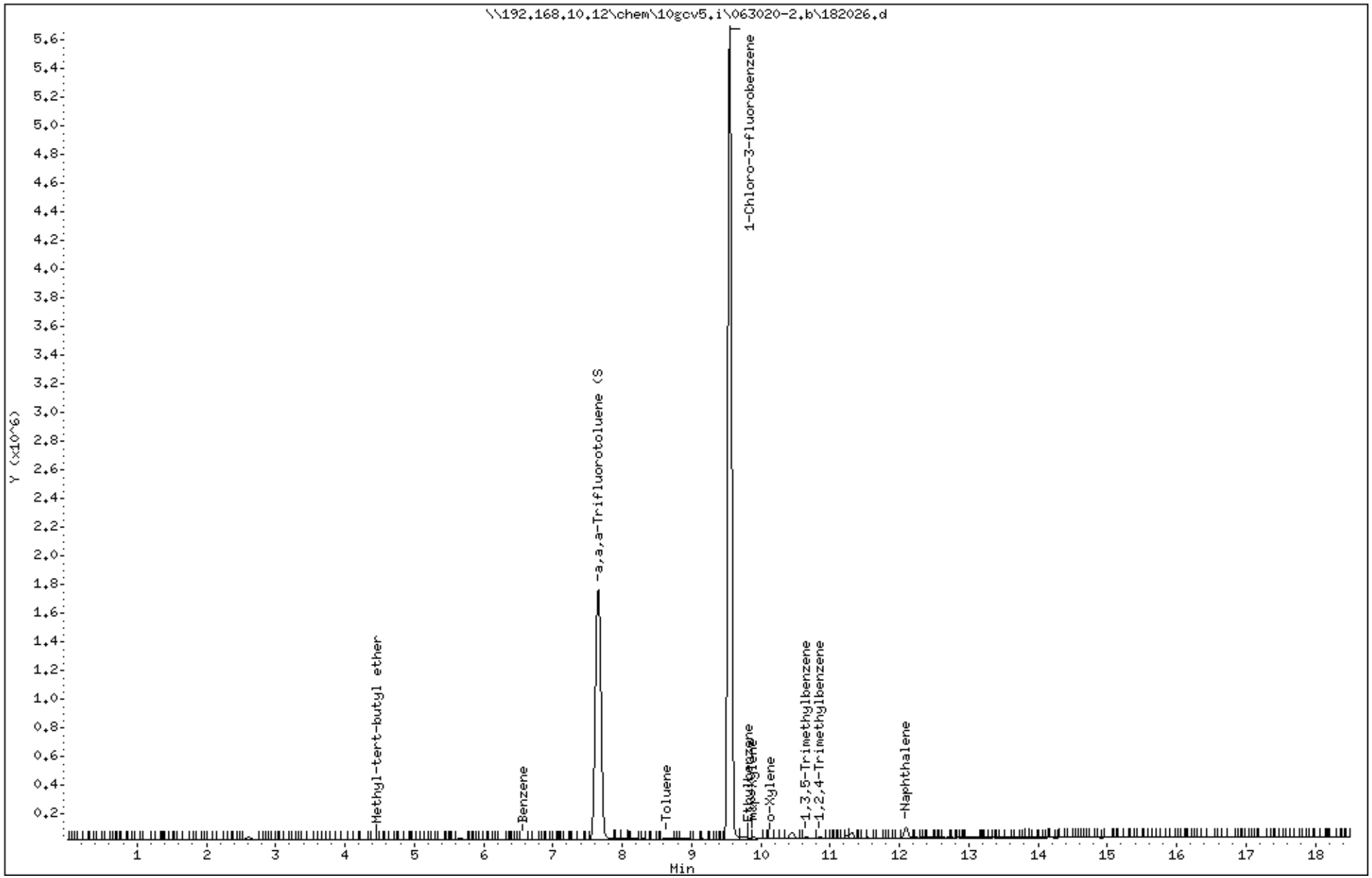
Data File: \\192.168.10.12\chem\10gcv5.i\063020-1.b\182026.d
Date : 01-JUL-2020 00:36
Client ID: TT-1 (2'-4')
Sample Info: 10522854005,

Instrument: 10gcv5.i
Operator: LPM
Column phase: ZB-624 SN592844
Column diameter: 0.53



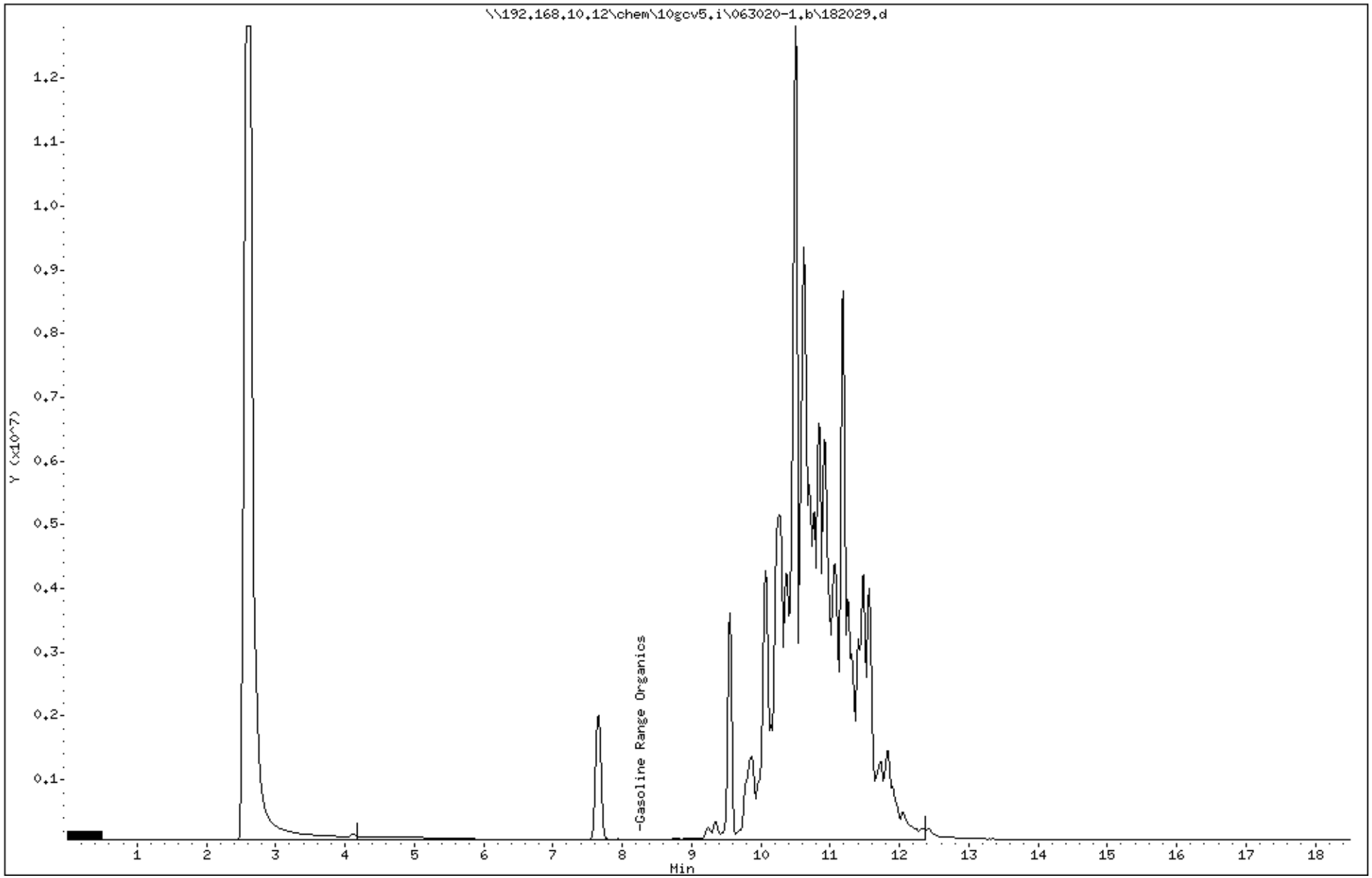
Data File: \\192.168.10.12\chem\10gcv5.i\063020-2.b\182026.d
Date : 01-JUL-2020 00:36
Client ID: TT-1 (2'-4')
Sample Info: 10522854005,

Instrument: 10gcv5.i
Operator: LPM
Column phase: DB-624 SN 592844
Column diameter: 0.53



Data File: \\192.168.10.12\chem\10gcv5.i\063020-1.b\182029.d
Date : 01-JUL-2020 02:01
Client ID: TT-1 Hotspot (2-4)
Sample Info: 10522854006,

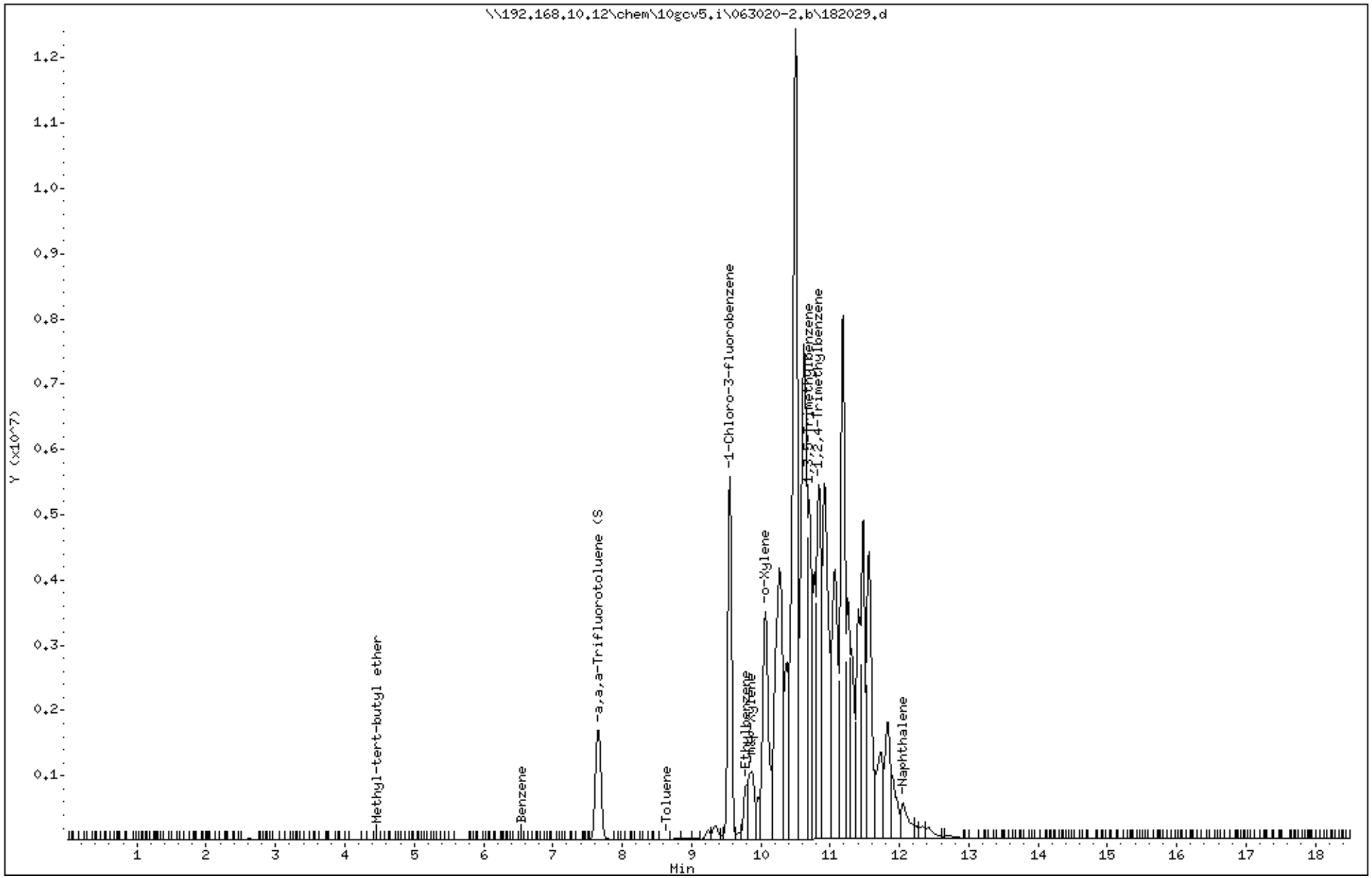
Instrument: 10gcv5.i
Operator: LPM
Column phase: ZB-624 SN592844
Column diameter: 0.53



Data File: \\192.168.10.12\chem\10gcv5.i\063020-2.b\182029.d
Date : 01-JUL-2020 02:01
Client ID: TT-1 Hotspot (2-4)
Sample Info: 10522854006,

Instrument: 10gcv5.i

Operator: LPM
Column phase: DB-624 SN 592844
Column diameter: 0.53

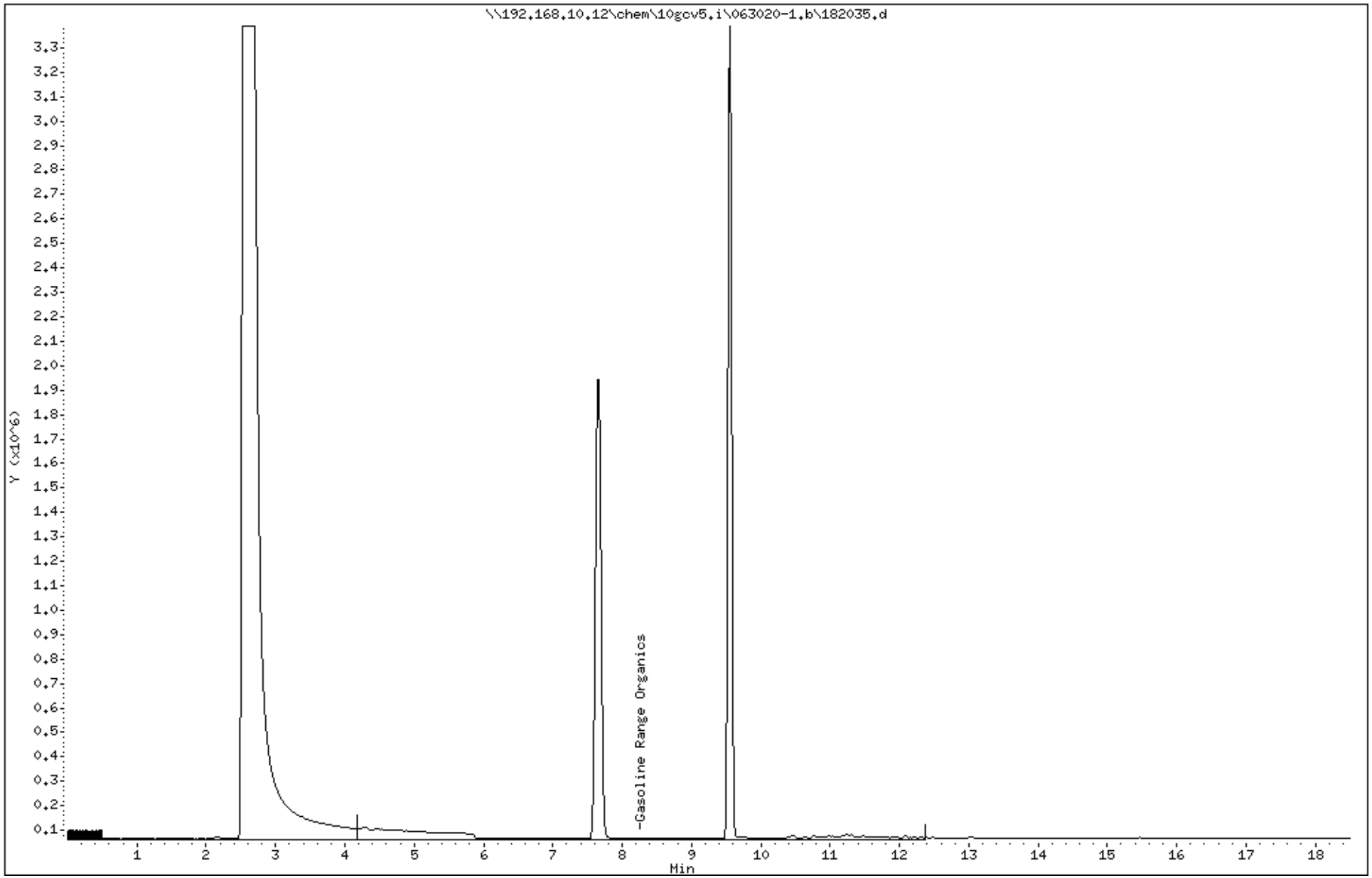


Data File: \\192.168.10.12\chem\10gcv5.i\063020-1.b\182035.d
Date : 01-JUL-2020 04:49
Client ID: MeOH Trip Blank
Sample Info: 10522854009,

Column phase: ZB-624 SN592844

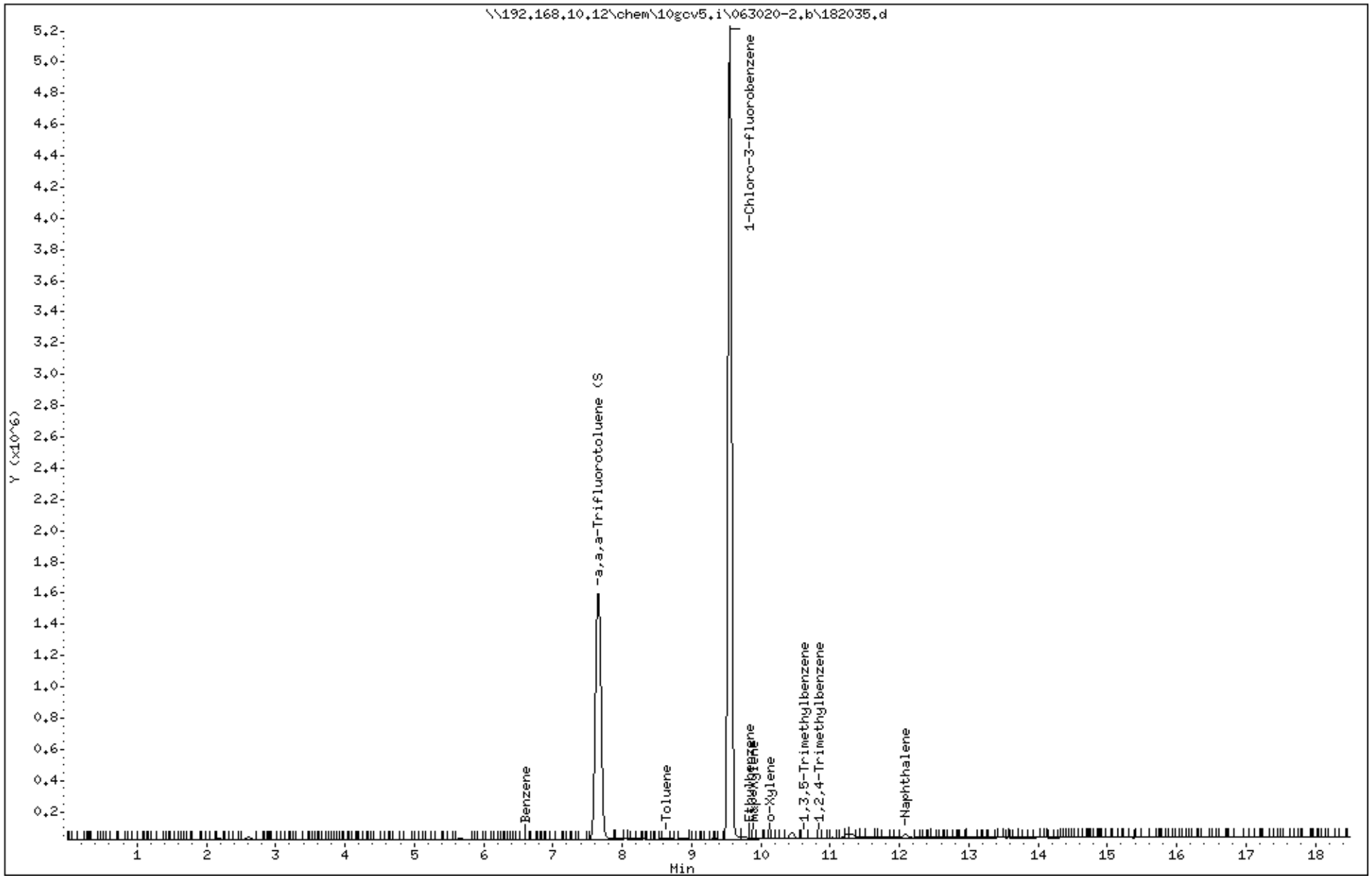
Instrument: 10gcv5.i

Operator: LPM
Column diameter: 0.53



Data File: \\192.168.10.12\chem\10gcv5.i\063020-2.b\182035.d
Date : 01-JUL-2020 04:49
Client ID: MeOH Trip Blank
Sample Info: 10522854009,

Instrument: 10gcv5.i
Operator: LPM
Column phase: DB-624 SN 592844
Column diameter: 0.53



Synergistic Pesticide Laboratory LLC
2700B N. Hayden Island Dr.
Portland, OR 97217
Lab: 503-641-0500
Fax: 503-954-3073
info@synpestlab.com

Client Name:	Pace Analytical Minnesota	**Date:**	7/4/20
Client Address:	1700 Elm Street, Ste 200	**SPL Project #:**	20 032
	Minneapolis, MN 55414	**Client Project #:**	10522854
Client Phone:	612-709-5046		

SAMPLE RESULTS:

SPL ID:	**20 032-01**	**Date Sampled:**	6/24/20
Sample ID:	10522854001 (SB-1 (0.5-1.5))	**Date Received:**	6/26/20
Matrix:	SOIL		
Method:	**Chlorothalonil, Iprodione & Propiconazole Analysis (QuEChERS 15662, EPA 8321B, EPA 8270E)**	**Date Extracted:**	7/2/20
Units:	ppm (µg/g)	**Date Analyzed:**	7/2-7/3/20

Analyte	Class	Result	RL
Chlorothalonil	F	nd	0.05
Iprodione	F	nd	0.10
Propiconazole	F	nd	0.05
Decachlorobiphenyl (Surrogate)	---	99%	---
Fenbuconazole (Surrogate)	---	107%	---

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Client Name: Pace Analytical Minnesota
Client Address: 1700 Elm Street, Ste 200
Minneapolis, MN 55414
Client Phone: 612-709-5046

Date: 7/4/20
SPL Project #: 20 032
Client Project #: 10522854

QUALITY CONTROL RESULTS:

Method: **Chlorothalonil, Iprodione & Propiconazole Analysis (QuEChERS 15662, EPA 8321B, EPA 8270E)**
Units: ppm (µg/g)
Matrix: SOIL

Date Extracted: 7/2/20
Date Analyzed: 7/2-7/3/20

20 046 MB

Analyte	Amt Spiked	Result	Percent Recovery
Chlorothalonil	---	nd	---
Iprodione	---	nd	---
Propiconazole	---	nd	---
Decachlorobiphenyl (Surrogate)	0.1	0.107	107%
Fenbuconazole (Surrogate)	0.1	0.099	99%

20 046 LCS

Analyte	Amt Spiked	Result	Percent Recovery
Chlorothalonil	1.0	1.85	185%
Iprodione	2.0	1.88	94%
Propiconazole	1.0	0.961	96%
Decachlorobiphenyl (Surrogate)	0.1	0.111	111%
Fenbuconazole (Surrogate)	0.1	0.097	97%

20 030-01 MS

Analyte	Amt Spiked	Result	Percent Recovery
Chlorothalonil	0.5	0.696	139%
Iprodione	1.0	0.992	100%
Propiconazole	0.5	0.494	99%
Decachlorobiphenyl (Surrogate)	0.1	0.057	57%
Fenbuconazole (Surrogate)	0.1	0.100	100%

20 030-01 MSD

Analyte	Amt Spiked	Result	Percent Recovery
Chlorothalonil	0.5	0.945	189%
Iprodione	1.0	0.993	99%
Propiconazole	0.5	0.499	100%
Decachlorobiphenyl (Surrogate)	0.1	0.048	48%
Fenbuconazole (Surrogate)	0.1	0.097	97%

Synergistic Pesticide Laboratory LLC
2700B N. Hayden Island Dr.
Portland, OR 97217
Lab: 503-641-0500
Fax: 503-954-3073
info@synpestlab.com

Client Name:	Pace Analytical Minnesota	**Date:**	7/4/20
Client Address:	1700 Elm Street, Ste 200	**SPL Project #:**	20 032
	Minneapolis, MN 55414	**Client Project #:**	10522854
Client Phone:	612-709-5046		

Report Specific Notes

1) Recoveries for chlorothalonil in matrix are outside the arbitraty acceptance limits of 70-130%. However, recoveries are within the UCL of 196% based on method validation for this soil extraction and analytical method conducted on 5/14/20 (x = 130%, n=8). Continuing Calibration Verification (CCV) samples were high throughout the run indicating an elevated sensitivity and thus increased confidence in non detections of chlorothalonil in samples.

Laboratory Report Definitions

F – Fungicide
LCL – Lower Control Limit – acceptance criteria based on the mean minus three times the standard deviation of a data set
LCS – Laboratory Control Sample – prepared from analyte free water or sand and spiked with known amount of analytes for the purpose of measuring the effect of the reagents used in extraction or analysis
LCSD – Laboratory Control Sample Duplicate
MS – Matrix Spike – prepared from additional sample and spiked with known amount of analytes for the purpose of measuring the effect of the sample matrix on analysis
MSD – Matrix Spike Duplicate
MB – Method Blank – shows any interference in extraction method
nd – non detect – substance not found above the reporting limit
ppb – parts per billion
ppm – parts per million
RL – Reporting Limit – the minimum amount of a substance that can be reported with confidence
UCL – Upper Control Limit – acceptance criteria based on the mean plus three times the standard deviation of a data set

Results provided relate to submitted samples only. Unless otherwise noted, samples were received in good condition and all Quality Control samples met acceptance criteria. Quality Control data is available upon request. This report shall not be reproduced, except in full, without the permission of Synergistic Pesticide Laboratory, LLC.

Authorized by:_____ Date: 7/4/2020

Camille Holladay
Lab Director

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

July 07, 2020

Bob Michels
Pace Analytical
1700 Elm Street, Suite 200
Minneapolis, MN 55414

RE: B1903316.00 Hillcrest

Enclosed are the analytical results for the samples received by the laboratory on 06/26/2020.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. These results are in compliance with the 2009 NELAC Standards and the appropriate agencies listed below, unless otherwise noted in the case narrative. This analytical report should be reproduced in its entirety.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Molly Palzkill

Project Manager

Certification List			Expires
DODELAP	DOD ELAP Accreditation (A2LA)	3269.01	03/31/2021
ILEPA	Illinois Secondary NELAP Accreditation	004366	04/30/2021
KDHE	Kansas Secondary NELAP Accreditation	E-10384	04/30/2021
LELAP	Louisiana Primary NELAP Accreditation	04165	06/30/2021
NJDEP	New Jersey Secondary NELAP Accreditation	WI004	06/30/2021
TCEQ	Texas Secondary NELAP Accreditation	T104704504-16-7	11/30/2020
WDNR	Wisconsin Certification under NR 149	113289110	08/31/2020

Pace Analytical
ENVIRONMENTAL SCIENCES
MOBILE LAB SERVICES

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

Pace Analytical	Project: B1903316.00 Hillcrest
1700 Elm Street, Suite 200	Project Number: 10522854
Minneapolis MN, 55414	Project Manager: Bob Michels

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-1 (0.5-1.5) (10522854001)	A202618-01	Soil	06/24/2020	06/26/2020

CASE NARRATIVE

Sample Receipt Information:
One sample was received on 06/26/2020. Sample was received in acceptable condition.

Please see the chain of custody (COC) document at the end of this report for additional information.

Pace Analytical
ENVIRONMENTAL SCIENCES
MOBILE LAB SERVICES

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

Pace Analytical	Project: B1903316.00 Hillcrest
1700 Elm Street, Suite 200	Project Number: 10522854
Minneapolis MN, 55414	Project Manager: Bob Michels

SB-1 (0.5-1.5) (10522854001)

A202618-01 (Soil)

Date Sampled
06/24/2020 12:01

Pace Analytical - Madison

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pesticides by LCMSMS					**Preparation Batch: A006200**			
2,4-D	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 03:02	EPA 8321B	
2,4-DB	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 03:02	EPA 8321B	
2,4,5-T	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 03:02	EPA 8321B	
2,4,5-TP (Silvex)	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 03:02	EPA 8321B	
Bentazon	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 03:02	EPA 8321B	
Dicamba	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 03:02	EPA 8321B	
MCPA	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 03:02	EPA 8321B	
Picloram	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 03:02	EPA 8321B	
Triclopyr	ND	0.10	mg/kg dry	1	06/29/2020	06/30/2020 03:02	EPA 8321B	
Surrogate: 2,4-D-d5		*102 %*		*60-140*	*06/29/2020*	*06/30/2020 03:02*	*EPA 8321B*	
Surrogate: DCAA		*98.9 %*		*60-140*	*06/29/2020*	*06/30/2020 03:02*	*EPA 8321B*	
Classical Chemistry Parameters					**Preparation Batch: A007114**			
% Solids	**92.0**	0.00	% by Weight	1	07/02/2020	07/06/2020 12:19	SM 2540B	

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Madison, WI 53718
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608.221.4889 Fax

Pace Analytical	Project: B1903316.00 Hillcrest
1700 Elm Street, Suite 200	Project Number: 10522854
Minneapolis MN, 55414	Project Manager: Bob Michels

Pesticides by LCMSMS - Quality Control

Pace Analytical - Madison

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A006200 - EPA 3570										
Blank (A006200-BLK1)				Prepared: 06/29/2020 Analyzed: 06/29/2020 20:10						
2,4-D	ND	0.10	mg/kg wet							
2,4-DB	ND	0.10	mg/kg wet							
2,4,5-T	ND	0.10	mg/kg wet							
2,4,5-TP (Silvex)	ND	0.10	mg/kg wet							
Bentazon	ND	0.10	mg/kg wet							
Dicamba	ND	0.10	mg/kg wet							
MCPA	ND	0.10	mg/kg wet							
Picloram	ND	0.10	mg/kg wet							
Triclopyr	ND	0.10	mg/kg wet							
Surrogate: 2,4-D-d5	*0.819*		*mg/kg wet*	*0.8106*		*101*	*60-140*			
Surrogate: DCAA	*1.72*		*mg/kg wet*	*1.620*		*106*	*60-140*			
LCS (A006200-BS1)				Prepared: 06/29/2020 Analyzed: 06/29/2020 20:28						
2,4-D	0.772	0.020	mg/kg wet	0.8100		95.3	60-140			
2,4-DB	0.775	0.020	mg/kg wet	0.8100		95.7	60-140			
2,4,5-T	0.817	0.020	mg/kg wet	0.8100		101	60-140			
2,4,5-TP (Silvex)	0.816	0.020	mg/kg wet	0.8100		101	60-140			
Bentazon	0.393	0.020	mg/kg wet	0.4050		96.9	60-140			
Dicamba	1.55	0.050	mg/kg wet	1.620		95.7	60-140			
MCPA	0.805	0.020	mg/kg wet	0.8100		99.4	60-140			
Picloram	1.60	0.050	mg/kg wet	1.620		98.7	60-140			
Triclopyr	0.770	0.020	mg/kg wet	0.8100		95.1	60-140			
Surrogate: 2,4-D-d5	*0.852*		*mg/kg wet*	*0.8106*		*105*	*60-140*			
Surrogate: DCAA	*1.63*		*mg/kg wet*	*1.620*		*101*	*60-140*			
Matrix Spike (A006200-MS1)		**Source: A202610-01**		Prepared: 06/29/2020 Analyzed: 06/29/2020 20:46						
2,4-D	0.868	0.023	mg/kg dry	0.9393	ND	92.4	60-140			
2,4-DB	0.900	0.023	mg/kg dry	0.9393	ND	95.9	60-140			
2,4,5-T	0.980	0.023	mg/kg dry	0.9393	ND	104	60-140			
2,4,5-TP (Silvex)	0.953	0.023	mg/kg dry	0.9393	ND	101	60-140			
Bentazon	0.394	0.023	mg/kg dry	0.4696	ND	84.0	60-140			
Dicamba	1.79	0.058	mg/kg dry	1.879	ND	95.2	60-140			
MCPA	1.00	0.023	mg/kg dry	0.9393	ND	107	60-140			
Picloram	1.84	0.058	mg/kg dry	1.879	ND	98.2	60-140			
Triclopyr	0.945	0.023	mg/kg dry	0.9393	ND	101	60-140			
Surrogate: 2,4-D-d5	*0.964*		*mg/kg dry*	*0.9400*		*103*	*60-140*			
Surrogate: DCAA	*2.07*		*mg/kg dry*	*1.879*		*110*	*60-140*			
Matrix Spike Dup (A006200-MSD1)		**Source: A202610-01**		Prepared: 06/29/2020 Analyzed: 06/29/2020 21:03						
2,4-D	0.909	0.023	mg/kg dry	0.9393	ND	96.8	60-140	4.64	20	
2,4-DB	1.07	0.023	mg/kg dry	0.9393	ND	114	60-140	17.3	20	
2,4,5-T	1.01	0.023	mg/kg dry	0.9393	ND	108	60-140	3.25	20	
2,4,5-TP (Silvex)	1.02	0.023	mg/kg dry	0.9393	ND	109	60-140	7.13	20	
Bentazon	0.411	0.023	mg/kg dry	0.4696	ND	87.5	60-140	4.06	20	
Dicamba	2.07	0.058	mg/kg dry	1.879	ND	110	60-140	14.6	20	
MCPA	1.10	0.023	mg/kg dry	0.9393	ND	117	60-140	9.18	20	
Picloram	1.97	0.058	mg/kg dry	1.879	ND	105	60-140	6.83	20	
Triclopyr	1.02	0.023	mg/kg dry	0.9393	ND	108	60-140	7.28	20	

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Pace Analytical	Project: B1903316.00 Hillcrest
1700 Elm Street, Suite 200	Project Number: 10522854
Minneapolis MN, 55414	Project Manager: Bob Michels

Pesticides by LCMSMS - Quality Control

Pace Analytical - Madison

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A006200 - EPA 3570										
Matrix Spike Dup (A006200-MSD1)	**Source: A202610-01**			Prepared: 06/29/2020 Analyzed: 06/29/2020 21:03						
Surrogate: 2,4-D-d5	*0.965*		*mg/kg dry*	*0.9400*		*103*	*60-140*			
Surrogate: DCAA	*1.84*		*mg/kg dry*	*1.879*		*97.7*	*60-140*			

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Pace Analytical	Project: B1903316.00 Hillcrest
1700 Elm Street, Suite 200	Project Number: 10522854
Minneapolis MN, 55414	Project Manager: Bob Michels

Classical Chemistry Parameters - Quality Control

Pace Analytical - Madison

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A007114 - % Solids										
Duplicate (A007114-DUP1)		**Source: A202617-01**		Prepared: 07/02/2020 Analyzed: 07/06/2020 12:19						
% Solids	67.5	0.00	% by Weight		72.5			7.14	20	

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Pace Analytical	Project: B1903316.00 Hillcrest
1700 Elm Street, Suite 200	Project Number: 10522854
Minneapolis MN, 55414	Project Manager: Bob Michels

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit or limit of detection (if listed).
NR	Not Reported
dry	Sample results reported on a dry weight basis. If the word 'dry' does not appear after the units, results are reported on an as-is basis.
RPD	Relative Percent Difference

Chain of Custody

☐ Samples were sent directly to the Subcontracting Laboratory. A202618

State Of Origin: MN
Cert. Needed: ☒ Yes ☐ No

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Workorder: 10522854 **Workorder Name:** B1903316.00 Hillcrest **Owner Received Date:** 6/25/2020 **Results Requested By:** 7/10/2020

Report To	Subcontract To
Bob Michels Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)709-5046	Pace Analytical Madison 2525 Advance Road Madison, WI 53718 Phone (608)221-8700

JGFU

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	MDA List 2 Pesticides	LAB USE ONLY
1	SB-1 (0.5-1.5)	PS	6/24/2020 12:01	10522854001	Solid	1	X	01
2								
3								
4								
5								

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	6/25/20 1540	[signature]	6/26/20 1145
2				
3				

Comments

Cooler Temperature on Receipt 3.0 °C **Custody Seal** (Y) or N **Received on Ice** (Y) or N **Samples Intact** (Y) or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.*
This chain of custody is considered complete as is since this information is available in the owner laboratory.

SIN 160142274
Exp 12/19/20

Page 8 of 8 A202618 FINAL 07 07 2020 1644

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

July 13, 2020

Mark Keefer
Braun Intertec
11001 Hampshire Ave S
Bloomington, MN 55438

RE: Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Dear Mark Keefer:

Enclosed are the analytical results for sample(s) received by the laboratory on June 26, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses were subcontracted outside of the Pace Network. The test report from the external subcontractor is attached to this report in its entirety.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Duluth
- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bob Michels
bob.michels@pacelabs.com
(612)709-5046
Project Manager

Enclosures

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CERTIFICATIONS

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Pace Analytical Services - Minneapolis MN

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

Pace Analytical Services Duluth Minnesota

4730 Oneota St., Duluth, MN 55807
Minnesota Dept of Ag Certification #: Via MN Dept of Health 027-137-152
Montana DHHS Certification #: CERT0102
Minnesota Dept of Health Certification #: 1733125
Wisconsin Dept of Agriculture Certification #: 480341
Wisconsin DNR Certification # : 999446800
North Dakota Certification #: R-105
Nevada DCNR Certification #: MN000372019-1

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SAMPLE SUMMARY

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10523060001	**SB-5 (.5-1.5)**	Solid	06/25/20 10:19	06/26/20 10:50
10523060002	**TT-7 (3-5)**	Solid	06/25/20 12:01	06/26/20 10:50
10523060003	**TT-9 (3-5)**	Solid	06/25/20 14:13	06/26/20 10:50
10523060004	**TT-1 (6-7)**	Solid	06/24/20 16:45	06/26/20 10:50
10523060005	**Dup-20-06252020**	Solid	06/25/20 12:00	06/26/20 10:50
10523060006	**SB-1 (TW)**	Water	06/24/20 12:53	06/26/20 10:50
10523060007	**MeOH Trip Blank**	Solid	06/24/20 00:00	06/26/20 10:50
10523060008	**HCL Trip Blank**	Water	06/24/20 00:00	06/26/20 10:50

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SAMPLE ANALYTE COUNT

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10523060001	**SB-5 (.5-1.5)**	EPA 6010D	IP	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	JZ	19	PASI-M
		EPA 8260D	MC3	70	PASI-M
10523060002	**TT-7 (3-5)**	WI MOD DRO	TT2	2	PASI-M
		EPA 6010D	IP	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	JZ	19	PASI-M
		EPA 8260D	MC3	70	PASI-M
10523060003	**TT-9 (3-5)**	EPA 6010D	IP	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	JZ	19	PASI-M
		EPA 8260D	MC3	70	PASI-M
10523060004	**TT-1 (6-7)**	WI MOD DRO	TT2	2	PASI-M
		WI MOD GRO	LPM	2	PASI-M
		EPA 6010D	IP	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	JZ	19	PASI-M
		EPA 8260D	MC3	70	PASI-M
10523060005	**Dup-20-06252020**	EPA 6010D	IP	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	JZ	19	PASI-M
		EPA 8260D	MC3	70	PASI-M
10523060006	**SB-1 (TW)**	EPA 351.2	BT1	1	PASI-DUL
		WI MOD DRO	TT2	2	PASI-M
		WI MOD GRO	LPM	2	PASI-M
		EPA 8260D	MM3	72	PASI-M
		EPA 353.2	JFP	1	PASI-M
10523060007	**MeOH Trip Blank**	WI MOD GRO	LPM	2	PASI-M
		EPA 8260D	MC3	70	PASI-M
10523060008	**HCL Trip Blank**	WI MOD GRO	LPM	2	PASI-M
		EPA 8260D	AEZ	72	PASI-M

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SAMPLE ANALYTE COUNT

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory

PASI-DUL = Pace Analytical Services - Duluth
PASI-M = Pace Analytical Services - Minneapolis

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SUMMARY OF DETECTION

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10523060001	**SB-5 (.5-1.5)**					
EPA 6010D	Arsenic	2.4	mg/kg	1.1	06/30/20 14:56	
EPA 6010D	Barium	45.6	mg/kg	0.53	06/30/20 14:56	M1
EPA 6010D	Chromium	18.4	mg/kg	0.53	06/30/20 14:56	
EPA 6010D	Lead	4.5	mg/kg	0.53	06/30/20 14:56	
ASTM D2974	Percent Moisture	8.4	%	0.10	07/07/20 15:34	N2
EPA 8270E by SIM	Benzo(b)fluoranthene	14.4	ug/kg	10.9	07/01/20 03:09	
EPA 8270E by SIM	Chrysene	11.0	ug/kg	10.9	07/01/20 03:09	
EPA 8270E by SIM	Fluoranthene	18.2	ug/kg	10.9	07/01/20 03:09	
EPA 8270E by SIM	Pyrene	17.1	ug/kg	10.9	07/01/20 03:09	
10523060002	**TT-7 (3-5)**					
EPA 6010D	Arsenic	2.5	mg/kg	1.1	06/30/20 15:13	
EPA 6010D	Barium	44.2	mg/kg	0.55	06/30/20 15:13	
EPA 6010D	Cadmium	0.18	mg/kg	0.17	06/30/20 15:13	
EPA 6010D	Chromium	16.5	mg/kg	0.55	06/30/20 15:13	
EPA 6010D	Lead	5.2	mg/kg	0.55	06/30/20 15:13	
EPA 7471B	Mercury	0.059	mg/kg	0.021	06/30/20 14:24	
ASTM D2974	Percent Moisture	11.6	%	0.10	07/07/20 15:34	N2
10523060003	**TT-9 (3-5)**					
EPA 6010D	Arsenic	2.8	mg/kg	1.0	06/30/20 15:16	
EPA 6010D	Barium	51.0	mg/kg	0.52	06/30/20 15:16	
EPA 6010D	Chromium	16.8	mg/kg	0.52	06/30/20 15:16	
EPA 6010D	Lead	4.6	mg/kg	0.52	06/30/20 15:16	
EPA 7471B	Mercury	0.060	mg/kg	0.022	06/30/20 14:26	
ASTM D2974	Percent Moisture	10.4	%	0.10	07/07/20 15:35	N2
EPA 8270E by SIM	Fluoranthene	15.8	ug/kg	11.1	07/01/20 03:50	
EPA 8270E by SIM	Pyrene	16.5	ug/kg	11.1	07/01/20 03:50	
10523060004	**TT-1 (6-7)**					
EPA 6010D	Arsenic	2.4	mg/kg	1.1	06/30/20 15:30	
EPA 6010D	Barium	36.6	mg/kg	0.54	06/30/20 15:30	
EPA 6010D	Chromium	12.8	mg/kg	0.54	06/30/20 15:30	
EPA 6010D	Lead	9.1	mg/kg	0.54	06/30/20 15:30	
EPA 7471B	Mercury	0.45	mg/kg	0.021	06/30/20 14:28	
ASTM D2974	Percent Moisture	10.5	%	0.10	07/07/20 15:35	N2
EPA 8270E by SIM	Fluoranthene	11.4	ug/kg	11.1	06/29/20 19:57	
10523060005	**Dup-20-06252020**					
EPA 6010D	Arsenic	1.7	mg/kg	1.0	06/30/20 15:33	
EPA 6010D	Barium	39.6	mg/kg	0.51	06/30/20 15:33	
EPA 6010D	Chromium	19.1	mg/kg	0.51	06/30/20 15:33	
EPA 6010D	Lead	7.0	mg/kg	0.51	06/30/20 15:33	
EPA 7471B	Mercury	0.49	mg/kg	0.019	06/30/20 14:36	
ASTM D2974	Percent Moisture	8.6	%	0.10	07/07/20 15:35	N2
EPA 8270E by SIM	Benzo(a)pyrene	11.9	ug/kg	10.9	07/01/20 04:11	
EPA 8270E by SIM	Benzo(b)fluoranthene	21.1	ug/kg	10.9	07/01/20 04:11	
EPA 8270E by SIM	Benzo(g,h,i)perylene	14.2	ug/kg	10.9	07/01/20 04:11	
EPA 8270E by SIM	Chrysene	15.9	ug/kg	10.9	07/01/20 04:11	

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SUMMARY OF DETECTION

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10523060005	**Dup-20-06252020**					
EPA 8270E by SIM	Fluoranthene	21.8	ug/kg	10.9	07/01/20 04:11	
EPA 8270E by SIM	Pyrene	21.0	ug/kg	10.9	07/01/20 04:11	
EPA 8270E by SIM	Total BaP Eq. MN 2006sh. ND=0	14.2	ug/kg	10.9	07/01/20 04:11	N2
10523060006	**SB-1 (TW)**					
EPA 351.2	Nitrogen, Kjeldahl, Total	2.0	mg/L	0.50	07/07/20 15:04	
WI MOD DRO	WDRO C10-C28	0.35	mg/L	0.10	06/30/20 09:33	T6

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Method: **EPA 351.2**
Description: 351.2 Total Kjeldahl Nitrogen
Client: Braun Intertec Corporation
Date: July 13, 2020

General Information:
1 sample was analyzed for EPA 351.2 by Pace Analytical Services Duluth. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 351.2 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Method: **WI MOD DRO**
Description: WIDRO GCS
Client: Braun Intertec Corporation
Date: July 13, 2020

General Information:
2 samples were analyzed for WI MOD DRO by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with WI MOD DRO with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Method: **WI MOD DRO**
Description: WIDRO LV GCS
Client: Braun Intertec Corporation
Date: July 13, 2020

General Information:
1 sample was analyzed for WI MOD DRO by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with WI MOD DRO with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 683684

T6: High boiling point hydrocarbons are present in the sample.

- SB-1 (TW) (Lab ID: 10523060006)
  - WDRO C10-C28

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Method: **WI MOD GRO**
Description: WIGRO GCV
Client: Braun Intertec Corporation
Date: July 13, 2020

General Information:
2 samples were analyzed for WI MOD GRO by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 5030 Medium Soil with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Method: **WI MOD GRO**
Description: WIGRO GCV
Client: Braun Intertec Corporation
Date: July 13, 2020

General Information:
2 samples were analyzed for WI MOD GRO by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 683946

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10523060006

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3659177)
  - Gasoline Range Organics
- MSD (Lab ID: 3659178)
  - Gasoline Range Organics

R1: RPD value was outside control limits.

- MSD (Lab ID: 3659178)
  - Gasoline Range Organics

Additional Comments:

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Method: **EPA 6010D**
Description: 6010D MET ICP
Client: Braun Intertec Corporation
Date: July 13, 2020

General Information:
5 samples were analyzed for EPA 6010D by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3050B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 683844

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10523060001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 3658711)
  - Barium

Additional Comments:

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Method: **EPA 7471B**
Description: 7471B Mercury
Client: Braun Intertec Corporation
Date: July 13, 2020

General Information:
5 samples were analyzed for EPA 7471B by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7471B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Method: **EPA 8270E by SIM**
Description: 8270E MSSV PAH by SIM
Client: Braun Intertec Corporation
Date: July 13, 2020

General Information:
5 samples were analyzed for EPA 8270E by SIM by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3550C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 683800

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10522386001

R1: RPD value was outside control limits.

- MSD (Lab ID: 3658595)
  - Acenaphthylene
  - Naphthalene

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Method: **EPA 8270E by SIM**
Description: 8270E MSSV PAH by SIM
Client: Braun Intertec Corporation
Date: July 13, 2020

Analyte Comments:

QC Batch: 683800

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- Dup-20-06252020 (Lab ID: 10523060005)
  - Total BaP Eq. MN 2006sh. ND=0
- SB-5 (.5-1.5) (Lab ID: 10523060001)
  - Total BaP Eq. MN 2006sh. ND=0
- TT-1 (6-7) (Lab ID: 10523060004)
  - Total BaP Eq. MN 2006sh. ND=0
- TT-7 (3-5) (Lab ID: 10523060002)
  - Total BaP Eq. MN 2006sh. ND=0
- TT-9 (3-5) (Lab ID: 10523060003)
  - Total BaP Eq. MN 2006sh. ND=0

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Method: **EPA 8260D**
Description: 8260D MSV 5030 Med Level
Client: Braun Intertec Corporation
Date: July 13, 2020

General Information:
6 samples were analyzed for EPA 8260D by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 5035/5030B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 684065

L3: Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.

- LCS (Lab ID: 3659555)
  - 2-Butanone (MEK)

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Method: **EPA 8260D**
Description: 8260D MSV 5030 Med Level
Client: Braun Intertec Corporation
Date: July 13, 2020

Analyte Comments:

QC Batch: 684065

1M: The continuing calibration for this analyte exceeded 20% difference acceptance criteria for EPA method. Analyte presence below reporting limits in associated samples. No impact to data.

- BLANK (Lab ID: 3659554)
  - 2-Butanone (MEK)
  - Chloroethane
  - Dichlorofluoromethane
  - Dichlorodifluoromethane
  - Trichlorofluoromethane
  - Vinyl chloride
- Dup-20-06252020 (Lab ID: 10523060005)
  - 2-Butanone (MEK)
  - Chloroethane
  - Dichlorofluoromethane
  - Dichlorodifluoromethane
  - Trichlorofluoromethane
  - Vinyl chloride
- MeOH Trip Blank (Lab ID: 10523060007)
  - 2-Butanone (MEK)
  - Chloroethane
  - Dichlorofluoromethane
  - Dichlorodifluoromethane
  - Trichlorofluoromethane
  - Vinyl chloride
- SB-5 (.5-1.5) (Lab ID: 10523060001)
  - 2-Butanone (MEK)
  - Chloroethane
  - Dichlorofluoromethane
  - Dichlorodifluoromethane
  - Trichlorofluoromethane
  - Vinyl chloride
- TT-1 (6-7) (Lab ID: 10523060004)
  - 2-Butanone (MEK)
  - Chloroethane
  - Dichlorofluoromethane
  - Dichlorodifluoromethane
  - Trichlorofluoromethane
  - Vinyl chloride
- TT-7 (3-5) (Lab ID: 10523060002)
  - 2-Butanone (MEK)
  - Chloroethane
  - Dichlorofluoromethane
  - Dichlorodifluoromethane
  - Trichlorofluoromethane
  - Vinyl chloride

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Method: **EPA 8260D**
Description: 8260D MSV 5030 Med Level
Client: Braun Intertec Corporation
Date: July 13, 2020

Analyte Comments:

QC Batch: 684065

1M: The continuing calibration for this analyte exceeded 20% difference acceptance criteria for EPA method. Analyte presence below reporting limits in associated samples. No impact to data.

- TT-9 (3-5) (Lab ID: 10523060003)
  - 2-Butanone (MEK)
  - Chloroethane
  - Dichlorofluoromethane
  - Dichlorodifluoromethane
  - Trichlorofluoromethane
  - Vinyl chloride

2M: The continuing calibration for this analyte exceeded 20% difference acceptance criteria for EPA method. The result may be biased high.

- LCS (Lab ID: 3659555)
  - 2-Butanone (MEK)
  - Chloroethane
  - Dichlorofluoromethane
  - Dichlorodifluoromethane
  - Trichlorofluoromethane
  - Vinyl chloride
- MS (Lab ID: 3659559)
  - 2-Butanone (MEK)
  - Chloroethane
  - Dichlorofluoromethane
  - Dichlorodifluoromethane
  - Trichlorofluoromethane
  - Vinyl chloride
- MSD (Lab ID: 3659560)
  - 2-Butanone (MEK)
  - Chloroethane
  - Dichlorofluoromethane
  - Dichlorodifluoromethane
  - Trichlorofluoromethane
  - Vinyl chloride

- BLANK (Lab ID: 3659554)
  - Dichlorofluoromethane
- Dup-20-06252020 (Lab ID: 10523060005)
  - Dichlorofluoromethane
- LCS (Lab ID: 3659555)
  - Dichlorofluoromethane
- MS (Lab ID: 3659559)
  - Dichlorofluoromethane
- MSD (Lab ID: 3659560)
  - Dichlorofluoromethane

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Method: **EPA 8260D**
Description: 8260D MSV 5030 Med Level
Client: Braun Intertec Corporation
Date: July 13, 2020

Analyte Comments:

QC Batch: 684065

- MeOH Trip Blank (Lab ID: 10523060007)
  - Dichlorofluoromethane
- SB-5 (.5-1.5) (Lab ID: 10523060001)
  - Dichlorofluoromethane
- TT-1 (6-7) (Lab ID: 10523060004)
  - Dichlorofluoromethane
- TT-7 (3-5) (Lab ID: 10523060002)
  - Dichlorofluoromethane
- TT-9 (3-5) (Lab ID: 10523060003)
  - Dichlorofluoromethane

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Method: **EPA 8260D**
Description: 8260D VOC
Client: Braun Intertec Corporation
Date: July 13, 2020

General Information:
2 samples were analyzed for EPA 8260D by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 684509

L3: Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.

- LCS (Lab ID: 3661487)
  - 4-Methyl-2-pentanone (MIBK)

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 684509

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10523291001

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 3661488)
  - 4-Methyl-2-pentanone (MIBK)
- MSD (Lab ID: 3661489)
  - 4-Methyl-2-pentanone (MIBK)

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3661488)
  - 2-Butanone (MEK)

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Method: **EPA 8260D**
Description: 8260D VOC
Client: Braun Intertec Corporation
Date: July 13, 2020

QC Batch: 684509

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10523291001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- Bromomethane
- MSD (Lab ID: 3661489)
  - 1,2-Dibromo-3-chloropropane
  - 2-Butanone (MEK)
  - Bromomethane

R1: RPD value was outside control limits.

- MSD (Lab ID: 3661489)
  - Bromomethane

Additional Comments:

Analyte Comments:

QC Batch: 684261

1M: The continuing calibration for this analyte exceeded 20% difference acceptance criteria for EPA method. Analyte presence below reporting limits in associated samples. No impact to data.

- BLANK (Lab ID: 3660320)
  - Bromomethane
- SB-1 (TW) (Lab ID: 10523060006)
  - Bromomethane

2M: The continuing calibration for this analyte exceeded 20% difference acceptance criteria for EPA method. The result may be biased high.

- LCS (Lab ID: 3660321)
  - Bromomethane
- MS (Lab ID: 3660493)
  - Bromomethane
- MSD (Lab ID: 3660494)
  - Bromomethane

5M: This analyte did not meet the secondary source verification criteria for the initial calibration. Analyte recovery exceeded the 130% upper control limit at 134%. Results may be biased high.

- BLANK (Lab ID: 3660320)
  - Bromomethane
- LCS (Lab ID: 3660321)
  - Bromomethane
- MS (Lab ID: 3660493)
  - Bromomethane
- MSD (Lab ID: 3660494)
  - Bromomethane
- SB-1 (TW) (Lab ID: 10523060006)
  - Bromomethane

- BLANK (Lab ID: 3660320)
  - Dichlorofluoromethane

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Method: **EPA 8260D**
Description: 8260D VOC
Client: Braun Intertec Corporation
Date: July 13, 2020

Analyte Comments:

QC Batch: 684261

- LCS (Lab ID: 3660321)
  - Dichlorofluoromethane
- MS (Lab ID: 3660493)
  - Dichlorofluoromethane
- MSD (Lab ID: 3660494)
  - Dichlorofluoromethane
- SB-1 (TW) (Lab ID: 10523060006)
  - Dichlorofluoromethane

QC Batch: 684509

1M: The continuing calibration for this analyte exceeded 20% difference acceptance criteria for EPA method. Analyte presence below reporting limits in associated samples. No impact to data.

- BLANK (Lab ID: 3661486)
  - 2-Butanone (MEK)
  - 4-Methyl-2-pentanone (MIBK)
- HCL Trip Blank (Lab ID: 10523060008)
  - 2-Butanone (MEK)
  - 4-Methyl-2-pentanone (MIBK)

2M: The continuing calibration for this analyte exceeded 20% difference acceptance criteria for EPA method. The result may be biased high.

- LCS (Lab ID: 3661487)
  - 2-Butanone (MEK)
  - 4-Methyl-2-pentanone (MIBK)
- MS (Lab ID: 3661488)
  - 2-Butanone (MEK)
  - 4-Methyl-2-pentanone (MIBK)
- MSD (Lab ID: 3661489)
  - 2-Butanone (MEK)
  - 4-Methyl-2-pentanone (MIBK)

3M: The continuing calibration for this analyte is below 20% difference acceptance criteria for EPA method 8260D but within 50% of the true value. Instrument sensitivity verified with reporting limit check.

- BLANK (Lab ID: 3661486)
  - Bromomethane
- HCL Trip Blank (Lab ID: 10523060008)
  - Bromomethane

4M: The continuing calibration for this analyte is below 20% difference acceptance criteria for EPA method 8260D but within 50% of the true value. The result may be biased low.

- LCS (Lab ID: 3661487)
  - Bromomethane
- MS (Lab ID: 3661488)
  - Bromomethane
- MSD (Lab ID: 3661489)
  - Bromomethane

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(612)607-1700

PROJECT NARRATIVE

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Method: **EPA 8260D**
Description: 8260D VOC
Client: Braun Intertec Corporation
Date: July 13, 2020

Analyte Comments:

QC Batch: 684509

- BLANK (Lab ID: 3661486)
  - Dichlorofluoromethane
- HCL Trip Blank (Lab ID: 10523060008)
  - Dichlorofluoromethane
- LCS (Lab ID: 3661487)
  - Dichlorofluoromethane
- MS (Lab ID: 3661488)
  - Dichlorofluoromethane
- MSD (Lab ID: 3661489)
  - Dichlorofluoromethane

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Method: **EPA 353.2**
Description: 353.2 Nitrate + Nitrite
Client: Braun Intertec Corporation
Date: July 13, 2020

General Information:
1 sample was analyzed for EPA 353.2 by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Sample: SB-5 (.5-1.5) **Lab ID: 10523060001** Collected: 06/25/20 10:19 Received: 06/26/20 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**2.4**	mg/kg	1.1	1	06/29/20 10:06	06/30/20 14:56	7440-38-2	
Barium	**45.6**	mg/kg	0.53	1	06/29/20 10:06	06/30/20 14:56	7440-39-3	M1
Cadmium	ND	mg/kg	0.16	1	06/29/20 10:06	06/30/20 14:56	7440-43-9	
Chromium	**18.4**	mg/kg	0.53	1	06/29/20 10:06	06/30/20 14:56	7440-47-3	
Lead	**4.5**	mg/kg	0.53	1	06/29/20 10:06	06/30/20 14:56	7439-92-1	
Selenium	ND	mg/kg	1.1	1	06/29/20 10:06	06/30/20 14:56	7782-49-2	
Silver	ND	mg/kg	0.53	1	06/29/20 10:06	06/30/20 14:56	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.020	1	06/29/20 11:03	06/30/20 14:16	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**8.4**	%	0.10	1		07/07/20 15:34		N2
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3550C Pace Analytical Services - Minneapolis							
Acenaphthene	ND	ug/kg	10.9	1	06/28/20 08:36	07/01/20 03:09	83-32-9	
Acenaphthylene	ND	ug/kg	10.9	1	06/28/20 08:36	07/01/20 03:09	208-96-8	
Anthracene	ND	ug/kg	10.9	1	06/28/20 08:36	07/01/20 03:09	120-12-7	
Benzo(a)anthracene	ND	ug/kg	10.9	1	06/28/20 08:36	07/01/20 03:09	56-55-3	
Benzo(a)pyrene	ND	ug/kg	10.9	1	06/28/20 08:36	07/01/20 03:09	50-32-8	
Benzo(b)fluoranthene	**14.4**	ug/kg	10.9	1	06/28/20 08:36	07/01/20 03:09	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	10.9	1	06/28/20 08:36	07/01/20 03:09	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	10.9	1	06/28/20 08:36	07/01/20 03:09	207-08-9	
Chrysene	**11.0**	ug/kg	10.9	1	06/28/20 08:36	07/01/20 03:09	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	10.9	1	06/28/20 08:36	07/01/20 03:09	53-70-3	
Fluoranthene	**18.2**	ug/kg	10.9	1	06/28/20 08:36	07/01/20 03:09	206-44-0	
Fluorene	ND	ug/kg	10.9	1	06/28/20 08:36	07/01/20 03:09	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	10.9	1	06/28/20 08:36	07/01/20 03:09	193-39-5	
Naphthalene	ND	ug/kg	10.9	1	06/28/20 08:36	07/01/20 03:09	91-20-3	
Phenanthrene	ND	ug/kg	10.9	1	06/28/20 08:36	07/01/20 03:09	85-01-8	
Pyrene	**17.1**	ug/kg	10.9	1	06/28/20 08:36	07/01/20 03:09	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	ND	ug/kg	10.9	1	06/28/20 08:36	07/01/20 03:09		N2
Surrogates								
2-Fluorobiphenyl (S)	67	%.	30-138	1	06/28/20 08:36	07/01/20 03:09	321-60-8	
p-Terphenyl-d14 (S)	91	%.	30-143	1	06/28/20 08:36	07/01/20 03:09	1718-51-0	
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Acetone	ND	ug/kg	1090	1	07/06/20 10:46	07/06/20 14:49	67-64-1	
Allyl chloride	ND	ug/kg	218	1	07/06/20 10:46	07/06/20 14:49	107-05-1	
Benzene	ND	ug/kg	21.8	1	07/06/20 10:46	07/06/20 14:49	71-43-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Sample: SB-5 (.5-1.5) **Lab ID: 10523060001** Collected: 06/25/20 10:19 Received: 06/26/20 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Bromobenzene	ND	ug/kg	54.4	1	07/06/20 10:46	07/06/20 14:49	108-86-1	
Bromochloromethane	ND	ug/kg	54.4	1	07/06/20 10:46	07/06/20 14:49	74-97-5	
Bromodichloromethane	ND	ug/kg	54.4	1	07/06/20 10:46	07/06/20 14:49	75-27-4	
Bromoform	ND	ug/kg	218	1	07/06/20 10:46	07/06/20 14:49	75-25-2	
Bromomethane	ND	ug/kg	544	1	07/06/20 10:46	07/06/20 14:49	74-83-9	
2-Butanone (MEK)	ND	ug/kg	272	1	07/06/20 10:46	07/06/20 14:49	78-93-3	1M
n-Butylbenzene	ND	ug/kg	218	1	07/06/20 10:46	07/06/20 14:49	104-51-8	
sec-Butylbenzene	ND	ug/kg	54.4	1	07/06/20 10:46	07/06/20 14:49	135-98-8	
tert-Butylbenzene	ND	ug/kg	54.4	1	07/06/20 10:46	07/06/20 14:49	98-06-6	
Carbon tetrachloride	ND	ug/kg	54.4	1	07/06/20 10:46	07/06/20 14:49	56-23-5	
Chlorobenzene	ND	ug/kg	54.4	1	07/06/20 10:46	07/06/20 14:49	108-90-7	
Chloroethane	ND	ug/kg	544	1	07/06/20 10:46	07/06/20 14:49	75-00-3	1M
Chloroform	ND	ug/kg	54.4	1	07/06/20 10:46	07/06/20 14:49	67-66-3	
Chloromethane	ND	ug/kg	218	1	07/06/20 10:46	07/06/20 14:49	74-87-3	
2-Chlorotoluene	ND	ug/kg	54.4	1	07/06/20 10:46	07/06/20 14:49	95-49-8	
4-Chlorotoluene	ND	ug/kg	54.4	1	07/06/20 10:46	07/06/20 14:49	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	544	1	07/06/20 10:46	07/06/20 14:49	96-12-8	
Dibromochloromethane	ND	ug/kg	218	1	07/06/20 10:46	07/06/20 14:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	54.4	1	07/06/20 10:46	07/06/20 14:49	106-93-4	
Dibromomethane	ND	ug/kg	54.4	1	07/06/20 10:46	07/06/20 14:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	54.4	1	07/06/20 10:46	07/06/20 14:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	54.4	1	07/06/20 10:46	07/06/20 14:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	54.4	1	07/06/20 10:46	07/06/20 14:49	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	218	1	07/06/20 10:46	07/06/20 14:49	75-71-8	1M
1,1-Dichloroethane	ND	ug/kg	54.4	1	07/06/20 10:46	07/06/20 14:49	75-34-3	
1,2-Dichloroethane	ND	ug/kg	54.4	1	07/06/20 10:46	07/06/20 14:49	107-06-2	
1,1-Dichloroethene	ND	ug/kg	54.4	1	07/06/20 10:46	07/06/20 14:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	218	1	07/06/20 10:46	07/06/20 14:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	54.4	1	07/06/20 10:46	07/06/20 14:49	156-60-5	
Dichlorofluoromethane	ND	ug/kg	544	1	07/06/20 10:46	07/06/20 14:49	75-43-4	1M
1,2-Dichloropropane	ND	ug/kg	54.4	1	07/06/20 10:46	07/06/20 14:49	78-87-5	
1,3-Dichloropropane	ND	ug/kg	54.4	1	07/06/20 10:46	07/06/20 14:49	142-28-9	
2,2-Dichloropropane	ND	ug/kg	218	1	07/06/20 10:46	07/06/20 14:49	594-20-7	
1,1-Dichloropropene	ND	ug/kg	218	1	07/06/20 10:46	07/06/20 14:49	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	54.4	1	07/06/20 10:46	07/06/20 14:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	54.4	1	07/06/20 10:46	07/06/20 14:49	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	218	1	07/06/20 10:46	07/06/20 14:49	60-29-7	
Ethylbenzene	ND	ug/kg	54.4	1	07/06/20 10:46	07/06/20 14:49	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	272	1	07/06/20 10:46	07/06/20 14:49	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	54.4	1	07/06/20 10:46	07/06/20 14:49	98-82-8	
p-Isopropyltoluene	ND	ug/kg	54.4	1	07/06/20 10:46	07/06/20 14:49	99-87-6	
Methylene Chloride	ND	ug/kg	218	1	07/06/20 10:46	07/06/20 14:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	272	1	07/06/20 10:46	07/06/20 14:49	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	54.4	1	07/06/20 10:46	07/06/20 14:49	1634-04-4	
Naphthalene	ND	ug/kg	218	1	07/06/20 10:46	07/06/20 14:49	91-20-3	

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Sample: SB-5 (.5-1.5) **Lab ID: 10523060001** Collected: 06/25/20 10:19 Received: 06/26/20 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
n-Propylbenzene	ND	ug/kg	54.4	1	07/06/20 10:46	07/06/20 14:49	103-65-1	
Styrene	ND	ug/kg	218	1	07/06/20 10:46	07/06/20 14:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	54.4	1	07/06/20 10:46	07/06/20 14:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	54.4	1	07/06/20 10:46	07/06/20 14:49	79-34-5	
Tetrachloroethene	ND	ug/kg	54.4	1	07/06/20 10:46	07/06/20 14:49	127-18-4	
Tetrahydrofuran	ND	ug/kg	2180	1	07/06/20 10:46	07/06/20 14:49	109-99-9	
Toluene	ND	ug/kg	54.4	1	07/06/20 10:46	07/06/20 14:49	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	54.4	1	07/06/20 10:46	07/06/20 14:49	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	54.4	1	07/06/20 10:46	07/06/20 14:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	218	1	07/06/20 10:46	07/06/20 14:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	54.4	1	07/06/20 10:46	07/06/20 14:49	79-00-5	
Trichloroethene	ND	ug/kg	54.4	1	07/06/20 10:46	07/06/20 14:49	79-01-6	
Trichlorofluoromethane	ND	ug/kg	218	1	07/06/20 10:46	07/06/20 14:49	75-69-4	1M
1,2,3-Trichloropropane	ND	ug/kg	218	1	07/06/20 10:46	07/06/20 14:49	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	218	1	07/06/20 10:46	07/06/20 14:49	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	54.4	1	07/06/20 10:46	07/06/20 14:49	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	54.4	1	07/06/20 10:46	07/06/20 14:49	108-67-8	
Vinyl chloride	ND	ug/kg	54.4	1	07/06/20 10:46	07/06/20 14:49	75-01-4	1M
Xylene (Total)	ND	ug/kg	163	1	07/06/20 10:46	07/06/20 14:49	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%.	75-125	1	07/06/20 10:46	07/06/20 14:49	17060-07-0	
Toluene-d8 (S)	98	%.	75-125	1	07/06/20 10:46	07/06/20 14:49	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125	1	07/06/20 10:46	07/06/20 14:49	460-00-4	

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Sample: TT-7 (3-5) **Lab ID: 10523060002** Collected: 06/25/20 12:01 Received: 06/26/20 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO Pace Analytical Services - Minneapolis							
WDRO C10-C28	ND	mg/kg	9.4	1	06/29/20 14:51	06/30/20 10:53		
Surrogates								
n-Triacontane (S)	84	%.	50-150	1	06/29/20 14:51	06/30/20 10:53	638-68-6	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**2.5**	mg/kg	1.1	1	06/29/20 10:06	06/30/20 15:13	7440-38-2	
Barium	**44.2**	mg/kg	0.55	1	06/29/20 10:06	06/30/20 15:13	7440-39-3	
Cadmium	**0.18**	mg/kg	0.17	1	06/29/20 10:06	06/30/20 15:13	7440-43-9	
Chromium	**16.5**	mg/kg	0.55	1	06/29/20 10:06	06/30/20 15:13	7440-47-3	
Lead	**5.2**	mg/kg	0.55	1	06/29/20 10:06	06/30/20 15:13	7439-92-1	
Selenium	ND	mg/kg	1.1	1	06/29/20 10:06	06/30/20 15:13	7782-49-2	
Silver	ND	mg/kg	0.55	1	06/29/20 10:06	06/30/20 15:13	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.059**	mg/kg	0.021	1	06/29/20 11:03	06/30/20 14:24	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**11.6**	%	0.10	1		07/07/20 15:34		N2
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3550C Pace Analytical Services - Minneapolis							
Acenaphthene	ND	ug/kg	11.3	1	06/28/20 08:36	07/01/20 03:30	83-32-9	
Acenaphthylene	ND	ug/kg	11.3	1	06/28/20 08:36	07/01/20 03:30	208-96-8	
Anthracene	ND	ug/kg	11.3	1	06/28/20 08:36	07/01/20 03:30	120-12-7	
Benzo(a)anthracene	ND	ug/kg	11.3	1	06/28/20 08:36	07/01/20 03:30	56-55-3	
Benzo(a)pyrene	ND	ug/kg	11.3	1	06/28/20 08:36	07/01/20 03:30	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	11.3	1	06/28/20 08:36	07/01/20 03:30	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	11.3	1	06/28/20 08:36	07/01/20 03:30	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	11.3	1	06/28/20 08:36	07/01/20 03:30	207-08-9	
Chrysene	ND	ug/kg	11.3	1	06/28/20 08:36	07/01/20 03:30	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	11.3	1	06/28/20 08:36	07/01/20 03:30	53-70-3	
Fluoranthene	ND	ug/kg	11.3	1	06/28/20 08:36	07/01/20 03:30	206-44-0	
Fluorene	ND	ug/kg	11.3	1	06/28/20 08:36	07/01/20 03:30	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	11.3	1	06/28/20 08:36	07/01/20 03:30	193-39-5	
Naphthalene	ND	ug/kg	11.3	1	06/28/20 08:36	07/01/20 03:30	91-20-3	
Phenanthrene	ND	ug/kg	11.3	1	06/28/20 08:36	07/01/20 03:30	85-01-8	
Pyrene	ND	ug/kg	11.3	1	06/28/20 08:36	07/01/20 03:30	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	ND	ug/kg	11.3	1	06/28/20 08:36	07/01/20 03:30		N2
Surrogates								
2-Fluorobiphenyl (S)	70	%.	30-138	1	06/28/20 08:36	07/01/20 03:30	321-60-8	
p-Terphenyl-d14 (S)	85	%.	30-143	1	06/28/20 08:36	07/01/20 03:30	1718-51-0	

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Sample: TT-7 (3-5) **Lab ID: 10523060002** Collected: 06/25/20 12:01 Received: 06/26/20 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Acetone	ND	ug/kg	1290	1	07/06/20 10:46	07/06/20 15:10	67-64-1	
Allyl chloride	ND	ug/kg	258	1	07/06/20 10:46	07/06/20 15:10	107-05-1	
Benzene	ND	ug/kg	25.8	1	07/06/20 10:46	07/06/20 15:10	71-43-2	
Bromobenzene	ND	ug/kg	64.6	1	07/06/20 10:46	07/06/20 15:10	108-86-1	
Bromochloromethane	ND	ug/kg	64.6	1	07/06/20 10:46	07/06/20 15:10	74-97-5	
Bromodichloromethane	ND	ug/kg	64.6	1	07/06/20 10:46	07/06/20 15:10	75-27-4	
Bromoform	ND	ug/kg	258	1	07/06/20 10:46	07/06/20 15:10	75-25-2	
Bromomethane	ND	ug/kg	646	1	07/06/20 10:46	07/06/20 15:10	74-83-9	
2-Butanone (MEK)	ND	ug/kg	323	1	07/06/20 10:46	07/06/20 15:10	78-93-3	1M
n-Butylbenzene	ND	ug/kg	258	1	07/06/20 10:46	07/06/20 15:10	104-51-8	
sec-Butylbenzene	ND	ug/kg	64.6	1	07/06/20 10:46	07/06/20 15:10	135-98-8	
tert-Butylbenzene	ND	ug/kg	64.6	1	07/06/20 10:46	07/06/20 15:10	98-06-6	
Carbon tetrachloride	ND	ug/kg	64.6	1	07/06/20 10:46	07/06/20 15:10	56-23-5	
Chlorobenzene	ND	ug/kg	64.6	1	07/06/20 10:46	07/06/20 15:10	108-90-7	
Chloroethane	ND	ug/kg	646	1	07/06/20 10:46	07/06/20 15:10	75-00-3	1M
Chloroform	ND	ug/kg	64.6	1	07/06/20 10:46	07/06/20 15:10	67-66-3	
Chloromethane	ND	ug/kg	258	1	07/06/20 10:46	07/06/20 15:10	74-87-3	
2-Chlorotoluene	ND	ug/kg	64.6	1	07/06/20 10:46	07/06/20 15:10	95-49-8	
4-Chlorotoluene	ND	ug/kg	64.6	1	07/06/20 10:46	07/06/20 15:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	646	1	07/06/20 10:46	07/06/20 15:10	96-12-8	
Dibromochloromethane	ND	ug/kg	258	1	07/06/20 10:46	07/06/20 15:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	64.6	1	07/06/20 10:46	07/06/20 15:10	106-93-4	
Dibromomethane	ND	ug/kg	64.6	1	07/06/20 10:46	07/06/20 15:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	64.6	1	07/06/20 10:46	07/06/20 15:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	64.6	1	07/06/20 10:46	07/06/20 15:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	64.6	1	07/06/20 10:46	07/06/20 15:10	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	258	1	07/06/20 10:46	07/06/20 15:10	75-71-8	1M
1,1-Dichloroethane	ND	ug/kg	64.6	1	07/06/20 10:46	07/06/20 15:10	75-34-3	
1,2-Dichloroethane	ND	ug/kg	64.6	1	07/06/20 10:46	07/06/20 15:10	107-06-2	
1,1-Dichloroethene	ND	ug/kg	64.6	1	07/06/20 10:46	07/06/20 15:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	258	1	07/06/20 10:46	07/06/20 15:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	64.6	1	07/06/20 10:46	07/06/20 15:10	156-60-5	
Dichlorofluoromethane	ND	ug/kg	646	1	07/06/20 10:46	07/06/20 15:10	75-43-4	1M
1,2-Dichloropropane	ND	ug/kg	64.6	1	07/06/20 10:46	07/06/20 15:10	78-87-5	
1,3-Dichloropropane	ND	ug/kg	64.6	1	07/06/20 10:46	07/06/20 15:10	142-28-9	
2,2-Dichloropropane	ND	ug/kg	258	1	07/06/20 10:46	07/06/20 15:10	594-20-7	
1,1-Dichloropropene	ND	ug/kg	258	1	07/06/20 10:46	07/06/20 15:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	64.6	1	07/06/20 10:46	07/06/20 15:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	64.6	1	07/06/20 10:46	07/06/20 15:10	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	258	1	07/06/20 10:46	07/06/20 15:10	60-29-7	
Ethylbenzene	ND	ug/kg	64.6	1	07/06/20 10:46	07/06/20 15:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	323	1	07/06/20 10:46	07/06/20 15:10	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	64.6	1	07/06/20 10:46	07/06/20 15:10	98-82-8	
p-Isopropyltoluene	ND	ug/kg	64.6	1	07/06/20 10:46	07/06/20 15:10	99-87-6	
Methylene Chloride	ND	ug/kg	258	1	07/06/20 10:46	07/06/20 15:10	75-09-2	

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Sample: TT-7 (3-5) **Lab ID: 10523060002** Collected: 06/25/20 12:01 Received: 06/26/20 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	323	1	07/06/20 10:46	07/06/20 15:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	64.6	1	07/06/20 10:46	07/06/20 15:10	1634-04-4	
Naphthalene	ND	ug/kg	258	1	07/06/20 10:46	07/06/20 15:10	91-20-3	
n-Propylbenzene	ND	ug/kg	64.6	1	07/06/20 10:46	07/06/20 15:10	103-65-1	
Styrene	ND	ug/kg	258	1	07/06/20 10:46	07/06/20 15:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	64.6	1	07/06/20 10:46	07/06/20 15:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	64.6	1	07/06/20 10:46	07/06/20 15:10	79-34-5	
Tetrachloroethene	ND	ug/kg	64.6	1	07/06/20 10:46	07/06/20 15:10	127-18-4	
Tetrahydrofuran	ND	ug/kg	2580	1	07/06/20 10:46	07/06/20 15:10	109-99-9	
Toluene	ND	ug/kg	64.6	1	07/06/20 10:46	07/06/20 15:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	64.6	1	07/06/20 10:46	07/06/20 15:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	64.6	1	07/06/20 10:46	07/06/20 15:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	258	1	07/06/20 10:46	07/06/20 15:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	64.6	1	07/06/20 10:46	07/06/20 15:10	79-00-5	
Trichloroethene	ND	ug/kg	64.6	1	07/06/20 10:46	07/06/20 15:10	79-01-6	
Trichlorofluoromethane	ND	ug/kg	258	1	07/06/20 10:46	07/06/20 15:10	75-69-4	1M
1,2,3-Trichloropropane	ND	ug/kg	258	1	07/06/20 10:46	07/06/20 15:10	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	258	1	07/06/20 10:46	07/06/20 15:10	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	64.6	1	07/06/20 10:46	07/06/20 15:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	64.6	1	07/06/20 10:46	07/06/20 15:10	108-67-8	
Vinyl chloride	ND	ug/kg	64.6	1	07/06/20 10:46	07/06/20 15:10	75-01-4	1M
Xylene (Total)	ND	ug/kg	194	1	07/06/20 10:46	07/06/20 15:10	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	108	%.	75-125	1	07/06/20 10:46	07/06/20 15:10	17060-07-0	
Toluene-d8 (S)	99	%.	75-125	1	07/06/20 10:46	07/06/20 15:10	2037-26-5	
4-Bromofluorobenzene (S)	96	%.	75-125	1	07/06/20 10:46	07/06/20 15:10	460-00-4	

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(612)607-1700

ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Sample: TT-9 (3-5) **Lab ID: 10523060003** Collected: 06/25/20 14:13 Received: 06/26/20 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**2.8**	mg/kg	1.0	1	06/29/20 10:06	06/30/20 15:16	7440-38-2	
Barium	**51.0**	mg/kg	0.52	1	06/29/20 10:06	06/30/20 15:16	7440-39-3	
Cadmium	ND	mg/kg	0.16	1	06/29/20 10:06	06/30/20 15:16	7440-43-9	
Chromium	**16.8**	mg/kg	0.52	1	06/29/20 10:06	06/30/20 15:16	7440-47-3	
Lead	**4.6**	mg/kg	0.52	1	06/29/20 10:06	06/30/20 15:16	7439-92-1	
Selenium	ND	mg/kg	1.0	1	06/29/20 10:06	06/30/20 15:16	7782-49-2	
Silver	ND	mg/kg	0.52	1	06/29/20 10:06	06/30/20 15:16	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.060**	mg/kg	0.022	1	06/29/20 11:03	06/30/20 14:26	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**10.4**	%	0.10	1		07/07/20 15:35		N2
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3550C Pace Analytical Services - Minneapolis							
Acenaphthene	ND	ug/kg	11.1	1	06/28/20 08:36	07/01/20 03:50	83-32-9	
Acenaphthylene	ND	ug/kg	11.1	1	06/28/20 08:36	07/01/20 03:50	208-96-8	
Anthracene	ND	ug/kg	11.1	1	06/28/20 08:36	07/01/20 03:50	120-12-7	
Benzo(a)anthracene	ND	ug/kg	11.1	1	06/28/20 08:36	07/01/20 03:50	56-55-3	
Benzo(a)pyrene	ND	ug/kg	11.1	1	06/28/20 08:36	07/01/20 03:50	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	11.1	1	06/28/20 08:36	07/01/20 03:50	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	11.1	1	06/28/20 08:36	07/01/20 03:50	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	11.1	1	06/28/20 08:36	07/01/20 03:50	207-08-9	
Chrysene	ND	ug/kg	11.1	1	06/28/20 08:36	07/01/20 03:50	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	11.1	1	06/28/20 08:36	07/01/20 03:50	53-70-3	
Fluoranthene	**15.8**	ug/kg	11.1	1	06/28/20 08:36	07/01/20 03:50	206-44-0	
Fluorene	ND	ug/kg	11.1	1	06/28/20 08:36	07/01/20 03:50	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	11.1	1	06/28/20 08:36	07/01/20 03:50	193-39-5	
Naphthalene	ND	ug/kg	11.1	1	06/28/20 08:36	07/01/20 03:50	91-20-3	
Phenanthrene	ND	ug/kg	11.1	1	06/28/20 08:36	07/01/20 03:50	85-01-8	
Pyrene	**16.5**	ug/kg	11.1	1	06/28/20 08:36	07/01/20 03:50	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	ND	ug/kg	11.1	1	06/28/20 08:36	07/01/20 03:50		N2
Surrogates								
2-Fluorobiphenyl (S)	71	%.	30-138	1	06/28/20 08:36	07/01/20 03:50	321-60-8	
p-Terphenyl-d14 (S)	92	%.	30-143	1	06/28/20 08:36	07/01/20 03:50	1718-51-0	
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Acetone	ND	ug/kg	1280	1	07/06/20 10:46	07/06/20 15:32	67-64-1	
Allyl chloride	ND	ug/kg	256	1	07/06/20 10:46	07/06/20 15:32	107-05-1	
Benzene	ND	ug/kg	25.6	1	07/06/20 10:46	07/06/20 15:32	71-43-2	

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Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Sample: TT-9 (3-5) **Lab ID: 10523060003** Collected: 06/25/20 14:13 Received: 06/26/20 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Bromobenzene	ND	ug/kg	64.0	1	07/06/20 10:46	07/06/20 15:32	108-86-1	
Bromochloromethane	ND	ug/kg	64.0	1	07/06/20 10:46	07/06/20 15:32	74-97-5	
Bromodichloromethane	ND	ug/kg	64.0	1	07/06/20 10:46	07/06/20 15:32	75-27-4	
Bromoform	ND	ug/kg	256	1	07/06/20 10:46	07/06/20 15:32	75-25-2	
Bromomethane	ND	ug/kg	640	1	07/06/20 10:46	07/06/20 15:32	74-83-9	
2-Butanone (MEK)	ND	ug/kg	320	1	07/06/20 10:46	07/06/20 15:32	78-93-3	1M
n-Butylbenzene	ND	ug/kg	256	1	07/06/20 10:46	07/06/20 15:32	104-51-8	
sec-Butylbenzene	ND	ug/kg	64.0	1	07/06/20 10:46	07/06/20 15:32	135-98-8	
tert-Butylbenzene	ND	ug/kg	64.0	1	07/06/20 10:46	07/06/20 15:32	98-06-6	
Carbon tetrachloride	ND	ug/kg	64.0	1	07/06/20 10:46	07/06/20 15:32	56-23-5	
Chlorobenzene	ND	ug/kg	64.0	1	07/06/20 10:46	07/06/20 15:32	108-90-7	
Chloroethane	ND	ug/kg	640	1	07/06/20 10:46	07/06/20 15:32	75-00-3	1M
Chloroform	ND	ug/kg	64.0	1	07/06/20 10:46	07/06/20 15:32	67-66-3	
Chloromethane	ND	ug/kg	256	1	07/06/20 10:46	07/06/20 15:32	74-87-3	
2-Chlorotoluene	ND	ug/kg	64.0	1	07/06/20 10:46	07/06/20 15:32	95-49-8	
4-Chlorotoluene	ND	ug/kg	64.0	1	07/06/20 10:46	07/06/20 15:32	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	640	1	07/06/20 10:46	07/06/20 15:32	96-12-8	
Dibromochloromethane	ND	ug/kg	256	1	07/06/20 10:46	07/06/20 15:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	64.0	1	07/06/20 10:46	07/06/20 15:32	106-93-4	
Dibromomethane	ND	ug/kg	64.0	1	07/06/20 10:46	07/06/20 15:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	64.0	1	07/06/20 10:46	07/06/20 15:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	64.0	1	07/06/20 10:46	07/06/20 15:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	64.0	1	07/06/20 10:46	07/06/20 15:32	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	256	1	07/06/20 10:46	07/06/20 15:32	75-71-8	1M
1,1-Dichloroethane	ND	ug/kg	64.0	1	07/06/20 10:46	07/06/20 15:32	75-34-3	
1,2-Dichloroethane	ND	ug/kg	64.0	1	07/06/20 10:46	07/06/20 15:32	107-06-2	
1,1-Dichloroethene	ND	ug/kg	64.0	1	07/06/20 10:46	07/06/20 15:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	256	1	07/06/20 10:46	07/06/20 15:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	64.0	1	07/06/20 10:46	07/06/20 15:32	156-60-5	
Dichlorofluoromethane	ND	ug/kg	640	1	07/06/20 10:46	07/06/20 15:32	75-43-4	1M
1,2-Dichloropropane	ND	ug/kg	64.0	1	07/06/20 10:46	07/06/20 15:32	78-87-5	
1,3-Dichloropropane	ND	ug/kg	64.0	1	07/06/20 10:46	07/06/20 15:32	142-28-9	
2,2-Dichloropropane	ND	ug/kg	256	1	07/06/20 10:46	07/06/20 15:32	594-20-7	
1,1-Dichloropropene	ND	ug/kg	256	1	07/06/20 10:46	07/06/20 15:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	64.0	1	07/06/20 10:46	07/06/20 15:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	64.0	1	07/06/20 10:46	07/06/20 15:32	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	256	1	07/06/20 10:46	07/06/20 15:32	60-29-7	
Ethylbenzene	ND	ug/kg	64.0	1	07/06/20 10:46	07/06/20 15:32	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	320	1	07/06/20 10:46	07/06/20 15:32	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	64.0	1	07/06/20 10:46	07/06/20 15:32	98-82-8	
p-Isopropyltoluene	ND	ug/kg	64.0	1	07/06/20 10:46	07/06/20 15:32	99-87-6	
Methylene Chloride	ND	ug/kg	256	1	07/06/20 10:46	07/06/20 15:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	320	1	07/06/20 10:46	07/06/20 15:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	64.0	1	07/06/20 10:46	07/06/20 15:32	1634-04-4	
Naphthalene	ND	ug/kg	256	1	07/06/20 10:46	07/06/20 15:32	91-20-3	

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Sample: TT-9 (3-5) **Lab ID: 10523060003** Collected: 06/25/20 14:13 Received: 06/26/20 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
n-Propylbenzene	ND	ug/kg	64.0	1	07/06/20 10:46	07/06/20 15:32	103-65-1	
Styrene	ND	ug/kg	256	1	07/06/20 10:46	07/06/20 15:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	64.0	1	07/06/20 10:46	07/06/20 15:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	64.0	1	07/06/20 10:46	07/06/20 15:32	79-34-5	
Tetrachloroethene	ND	ug/kg	64.0	1	07/06/20 10:46	07/06/20 15:32	127-18-4	
Tetrahydrofuran	ND	ug/kg	2560	1	07/06/20 10:46	07/06/20 15:32	109-99-9	
Toluene	ND	ug/kg	64.0	1	07/06/20 10:46	07/06/20 15:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	64.0	1	07/06/20 10:46	07/06/20 15:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	64.0	1	07/06/20 10:46	07/06/20 15:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	256	1	07/06/20 10:46	07/06/20 15:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	64.0	1	07/06/20 10:46	07/06/20 15:32	79-00-5	
Trichloroethene	ND	ug/kg	64.0	1	07/06/20 10:46	07/06/20 15:32	79-01-6	
Trichlorofluoromethane	ND	ug/kg	256	1	07/06/20 10:46	07/06/20 15:32	75-69-4	1M
1,2,3-Trichloropropane	ND	ug/kg	256	1	07/06/20 10:46	07/06/20 15:32	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	256	1	07/06/20 10:46	07/06/20 15:32	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	64.0	1	07/06/20 10:46	07/06/20 15:32	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	64.0	1	07/06/20 10:46	07/06/20 15:32	108-67-8	
Vinyl chloride	ND	ug/kg	64.0	1	07/06/20 10:46	07/06/20 15:32	75-01-4	1M
Xylene (Total)	ND	ug/kg	192	1	07/06/20 10:46	07/06/20 15:32	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	108	%.	75-125	1	07/06/20 10:46	07/06/20 15:32	17060-07-0	
Toluene-d8 (S)	97	%.	75-125	1	07/06/20 10:46	07/06/20 15:32	2037-26-5	
4-Bromofluorobenzene (S)	96	%.	75-125	1	07/06/20 10:46	07/06/20 15:32	460-00-4	

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Sample: TT-1 (6-7) **Lab ID: 10523060004** Collected: 06/24/20 16:45 Received: 06/26/20 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO Pace Analytical Services - Minneapolis							
WDRO C10-C28	ND	mg/kg	9.5	1	06/29/20 14:51	06/30/20 11:07		
Surrogates								
n-Triacontane (S)	80	%.	50-150	1	06/29/20 14:51	06/30/20 11:07	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: EPA 5030 Medium Soil Pace Analytical Services - Minneapolis							
Gasoline Range Organics	ND	mg/kg	10.9	1	06/29/20 11:04	06/30/20 18:04		
Surrogates								
a,a,a-Trifluorotoluene (S)	100	%.	80-150	1	06/29/20 11:04	06/30/20 18:04	98-08-8	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**2.4**	mg/kg	1.1	1	06/29/20 10:06	06/30/20 15:30	7440-38-2	
Barium	**36.6**	mg/kg	0.54	1	06/29/20 10:06	06/30/20 15:30	7440-39-3	
Cadmium	ND	mg/kg	0.16	1	06/29/20 10:06	06/30/20 15:30	7440-43-9	
Chromium	**12.8**	mg/kg	0.54	1	06/29/20 10:06	06/30/20 15:30	7440-47-3	
Lead	**9.1**	mg/kg	0.54	1	06/29/20 10:06	06/30/20 15:30	7439-92-1	
Selenium	ND	mg/kg	1.1	1	06/29/20 10:06	06/30/20 15:30	7782-49-2	
Silver	ND	mg/kg	0.54	1	06/29/20 10:06	06/30/20 15:30	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.45**	mg/kg	0.021	1	06/29/20 11:03	06/30/20 14:28	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**10.5**	%	0.10	1		07/07/20 15:35		N2
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3550C Pace Analytical Services - Minneapolis							
Acenaphthene	ND	ug/kg	11.1	1	06/28/20 08:36	06/29/20 19:57	83-32-9	
Acenaphthylene	ND	ug/kg	11.1	1	06/28/20 08:36	06/29/20 19:57	208-96-8	
Anthracene	ND	ug/kg	11.1	1	06/28/20 08:36	06/29/20 19:57	120-12-7	
Benzo(a)anthracene	ND	ug/kg	11.1	1	06/28/20 08:36	06/29/20 19:57	56-55-3	
Benzo(a)pyrene	ND	ug/kg	11.1	1	06/28/20 08:36	06/29/20 19:57	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	11.1	1	06/28/20 08:36	06/29/20 19:57	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	11.1	1	06/28/20 08:36	06/29/20 19:57	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	11.1	1	06/28/20 08:36	06/29/20 19:57	207-08-9	
Chrysene	ND	ug/kg	11.1	1	06/28/20 08:36	06/29/20 19:57	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	11.1	1	06/28/20 08:36	06/29/20 19:57	53-70-3	
Fluoranthene	**11.4**	ug/kg	11.1	1	06/28/20 08:36	06/29/20 19:57	206-44-0	
Fluorene	ND	ug/kg	11.1	1	06/28/20 08:36	06/29/20 19:57	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	11.1	1	06/28/20 08:36	06/29/20 19:57	193-39-5	
Naphthalene	ND	ug/kg	11.1	1	06/28/20 08:36	06/29/20 19:57	91-20-3	

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(612)607-1700

ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Sample: TT-1 (6-7) **Lab ID: 10523060004** Collected: 06/24/20 16:45 Received: 06/26/20 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3550C Pace Analytical Services - Minneapolis							
Phenanthrene	ND	ug/kg	11.1	1	06/28/20 08:36	06/29/20 19:57	85-01-8	
Pyrene	ND	ug/kg	11.1	1	06/28/20 08:36	06/29/20 19:57	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	ND	ug/kg	11.1	1	06/28/20 08:36	06/29/20 19:57		N2
Surrogates								
2-Fluorobiphenyl (S)	60	%.	30-138	1	06/28/20 08:36	06/29/20 19:57	321-60-8	
p-Terphenyl-d14 (S)	78	%.	30-143	1	06/28/20 08:36	06/29/20 19:57	1718-51-0	
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Acetone	ND	ug/kg	1270	1	07/06/20 10:46	07/06/20 15:54	67-64-1	
Allyl chloride	ND	ug/kg	254	1	07/06/20 10:46	07/06/20 15:54	107-05-1	
Benzene	ND	ug/kg	25.4	1	07/06/20 10:46	07/06/20 15:54	71-43-2	
Bromobenzene	ND	ug/kg	63.4	1	07/06/20 10:46	07/06/20 15:54	108-86-1	
Bromochloromethane	ND	ug/kg	63.4	1	07/06/20 10:46	07/06/20 15:54	74-97-5	
Bromodichloromethane	ND	ug/kg	63.4	1	07/06/20 10:46	07/06/20 15:54	75-27-4	
Bromoform	ND	ug/kg	254	1	07/06/20 10:46	07/06/20 15:54	75-25-2	
Bromomethane	ND	ug/kg	634	1	07/06/20 10:46	07/06/20 15:54	74-83-9	
2-Butanone (MEK)	ND	ug/kg	317	1	07/06/20 10:46	07/06/20 15:54	78-93-3	1M
n-Butylbenzene	ND	ug/kg	254	1	07/06/20 10:46	07/06/20 15:54	104-51-8	
sec-Butylbenzene	ND	ug/kg	63.4	1	07/06/20 10:46	07/06/20 15:54	135-98-8	
tert-Butylbenzene	ND	ug/kg	63.4	1	07/06/20 10:46	07/06/20 15:54	98-06-6	
Carbon tetrachloride	ND	ug/kg	63.4	1	07/06/20 10:46	07/06/20 15:54	56-23-5	
Chlorobenzene	ND	ug/kg	63.4	1	07/06/20 10:46	07/06/20 15:54	108-90-7	
Chloroethane	ND	ug/kg	634	1	07/06/20 10:46	07/06/20 15:54	75-00-3	1M
Chloroform	ND	ug/kg	63.4	1	07/06/20 10:46	07/06/20 15:54	67-66-3	
Chloromethane	ND	ug/kg	254	1	07/06/20 10:46	07/06/20 15:54	74-87-3	
2-Chlorotoluene	ND	ug/kg	63.4	1	07/06/20 10:46	07/06/20 15:54	95-49-8	
4-Chlorotoluene	ND	ug/kg	63.4	1	07/06/20 10:46	07/06/20 15:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	634	1	07/06/20 10:46	07/06/20 15:54	96-12-8	
Dibromochloromethane	ND	ug/kg	254	1	07/06/20 10:46	07/06/20 15:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	63.4	1	07/06/20 10:46	07/06/20 15:54	106-93-4	
Dibromomethane	ND	ug/kg	63.4	1	07/06/20 10:46	07/06/20 15:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	63.4	1	07/06/20 10:46	07/06/20 15:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	63.4	1	07/06/20 10:46	07/06/20 15:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	63.4	1	07/06/20 10:46	07/06/20 15:54	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	254	1	07/06/20 10:46	07/06/20 15:54	75-71-8	1M
1,1-Dichloroethane	ND	ug/kg	63.4	1	07/06/20 10:46	07/06/20 15:54	75-34-3	
1,2-Dichloroethane	ND	ug/kg	63.4	1	07/06/20 10:46	07/06/20 15:54	107-06-2	
1,1-Dichloroethene	ND	ug/kg	63.4	1	07/06/20 10:46	07/06/20 15:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	254	1	07/06/20 10:46	07/06/20 15:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	63.4	1	07/06/20 10:46	07/06/20 15:54	156-60-5	
Dichlorofluoromethane	ND	ug/kg	634	1	07/06/20 10:46	07/06/20 15:54	75-43-4	1M
1,2-Dichloropropane	ND	ug/kg	63.4	1	07/06/20 10:46	07/06/20 15:54	78-87-5	
1,3-Dichloropropane	ND	ug/kg	63.4	1	07/06/20 10:46	07/06/20 15:54	142-28-9	
2,2-Dichloropropane	ND	ug/kg	254	1	07/06/20 10:46	07/06/20 15:54	594-20-7	

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Sample: TT-1 (6-7) **Lab ID: 10523060004** Collected: 06/24/20 16:45 Received: 06/26/20 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
1,1-Dichloropropene	ND	ug/kg	254	1	07/06/20 10:46	07/06/20 15:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	63.4	1	07/06/20 10:46	07/06/20 15:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	63.4	1	07/06/20 10:46	07/06/20 15:54	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	254	1	07/06/20 10:46	07/06/20 15:54	60-29-7	
Ethylbenzene	ND	ug/kg	63.4	1	07/06/20 10:46	07/06/20 15:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	317	1	07/06/20 10:46	07/06/20 15:54	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	63.4	1	07/06/20 10:46	07/06/20 15:54	98-82-8	
p-Isopropyltoluene	ND	ug/kg	63.4	1	07/06/20 10:46	07/06/20 15:54	99-87-6	
Methylene Chloride	ND	ug/kg	254	1	07/06/20 10:46	07/06/20 15:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	317	1	07/06/20 10:46	07/06/20 15:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	63.4	1	07/06/20 10:46	07/06/20 15:54	1634-04-4	
Naphthalene	ND	ug/kg	254	1	07/06/20 10:46	07/06/20 15:54	91-20-3	
n-Propylbenzene	ND	ug/kg	63.4	1	07/06/20 10:46	07/06/20 15:54	103-65-1	
Styrene	ND	ug/kg	254	1	07/06/20 10:46	07/06/20 15:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	63.4	1	07/06/20 10:46	07/06/20 15:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	63.4	1	07/06/20 10:46	07/06/20 15:54	79-34-5	
Tetrachloroethene	ND	ug/kg	63.4	1	07/06/20 10:46	07/06/20 15:54	127-18-4	
Tetrahydrofuran	ND	ug/kg	2540	1	07/06/20 10:46	07/06/20 15:54	109-99-9	
Toluene	ND	ug/kg	63.4	1	07/06/20 10:46	07/06/20 15:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	63.4	1	07/06/20 10:46	07/06/20 15:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	63.4	1	07/06/20 10:46	07/06/20 15:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	254	1	07/06/20 10:46	07/06/20 15:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	63.4	1	07/06/20 10:46	07/06/20 15:54	79-00-5	
Trichloroethene	ND	ug/kg	63.4	1	07/06/20 10:46	07/06/20 15:54	79-01-6	
Trichlorofluoromethane	ND	ug/kg	254	1	07/06/20 10:46	07/06/20 15:54	75-69-4	1M
1,2,3-Trichloropropane	ND	ug/kg	254	1	07/06/20 10:46	07/06/20 15:54	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	254	1	07/06/20 10:46	07/06/20 15:54	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	63.4	1	07/06/20 10:46	07/06/20 15:54	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	63.4	1	07/06/20 10:46	07/06/20 15:54	108-67-8	
Vinyl chloride	ND	ug/kg	63.4	1	07/06/20 10:46	07/06/20 15:54	75-01-4	1M
Xylene (Total)	ND	ug/kg	190	1	07/06/20 10:46	07/06/20 15:54	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	109	%.	75-125	1	07/06/20 10:46	07/06/20 15:54	17060-07-0	
Toluene-d8 (S)	96	%.	75-125	1	07/06/20 10:46	07/06/20 15:54	2037-26-5	
4-Bromofluorobenzene (S)	96	%.	75-125	1	07/06/20 10:46	07/06/20 15:54	460-00-4	

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Sample: Dup-20-06252020 **Lab ID: 10523060005** Collected: 06/25/20 12:00 Received: 06/26/20 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**1.7**	mg/kg	1.0	1	06/29/20 10:06	06/30/20 15:33	7440-38-2	
Barium	**39.6**	mg/kg	0.51	1	06/29/20 10:06	06/30/20 15:33	7440-39-3	
Cadmium	ND	mg/kg	0.15	1	06/29/20 10:06	06/30/20 15:33	7440-43-9	
Chromium	**19.1**	mg/kg	0.51	1	06/29/20 10:06	06/30/20 15:33	7440-47-3	
Lead	**7.0**	mg/kg	0.51	1	06/29/20 10:06	06/30/20 15:33	7439-92-1	
Selenium	ND	mg/kg	1.0	1	06/29/20 10:06	06/30/20 15:33	7782-49-2	
Silver	ND	mg/kg	0.51	1	06/29/20 10:06	06/30/20 15:33	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.49**	mg/kg	0.019	1	06/29/20 11:03	06/30/20 14:36	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**8.6**	%	0.10	1		07/07/20 15:35		N2
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3550C Pace Analytical Services - Minneapolis							
Acenaphthene	ND	ug/kg	10.9	1	06/28/20 08:36	07/01/20 04:11	83-32-9	
Acenaphthylene	ND	ug/kg	10.9	1	06/28/20 08:36	07/01/20 04:11	208-96-8	
Anthracene	ND	ug/kg	10.9	1	06/28/20 08:36	07/01/20 04:11	120-12-7	
Benzo(a)anthracene	ND	ug/kg	10.9	1	06/28/20 08:36	07/01/20 04:11	56-55-3	
Benzo(a)pyrene	**11.9**	ug/kg	10.9	1	06/28/20 08:36	07/01/20 04:11	50-32-8	
Benzo(b)fluoranthene	**21.1**	ug/kg	10.9	1	06/28/20 08:36	07/01/20 04:11	205-99-2	
Benzo(g,h,i)perylene	**14.2**	ug/kg	10.9	1	06/28/20 08:36	07/01/20 04:11	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	10.9	1	06/28/20 08:36	07/01/20 04:11	207-08-9	
Chrysene	**15.9**	ug/kg	10.9	1	06/28/20 08:36	07/01/20 04:11	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	10.9	1	06/28/20 08:36	07/01/20 04:11	53-70-3	
Fluoranthene	**21.8**	ug/kg	10.9	1	06/28/20 08:36	07/01/20 04:11	206-44-0	
Fluorene	ND	ug/kg	10.9	1	06/28/20 08:36	07/01/20 04:11	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	10.9	1	06/28/20 08:36	07/01/20 04:11	193-39-5	
Naphthalene	ND	ug/kg	10.9	1	06/28/20 08:36	07/01/20 04:11	91-20-3	
Phenanthrene	ND	ug/kg	10.9	1	06/28/20 08:36	07/01/20 04:11	85-01-8	
Pyrene	**21.0**	ug/kg	10.9	1	06/28/20 08:36	07/01/20 04:11	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	**14.2**	ug/kg	10.9	1	06/28/20 08:36	07/01/20 04:11		N2
Surrogates								
2-Fluorobiphenyl (S)	72	%.	30-138	1	06/28/20 08:36	07/01/20 04:11	321-60-8	
p-Terphenyl-d14 (S)	87	%.	30-143	1	06/28/20 08:36	07/01/20 04:11	1718-51-0	
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Acetone	ND	ug/kg	1130	1	07/06/20 10:46	07/06/20 16:16	67-64-1	
Allyl chloride	ND	ug/kg	227	1	07/06/20 10:46	07/06/20 16:16	107-05-1	
Benzene	ND	ug/kg	22.7	1	07/06/20 10:46	07/06/20 16:16	71-43-2	

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Sample: Dup-20-06252020 **Lab ID: 10523060005** Collected: 06/25/20 12:00 Received: 06/26/20 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Bromobenzene	ND	ug/kg	56.7	1	07/06/20 10:46	07/06/20 16:16	108-86-1	
Bromochloromethane	ND	ug/kg	56.7	1	07/06/20 10:46	07/06/20 16:16	74-97-5	
Bromodichloromethane	ND	ug/kg	56.7	1	07/06/20 10:46	07/06/20 16:16	75-27-4	
Bromoform	ND	ug/kg	227	1	07/06/20 10:46	07/06/20 16:16	75-25-2	
Bromomethane	ND	ug/kg	567	1	07/06/20 10:46	07/06/20 16:16	74-83-9	
2-Butanone (MEK)	ND	ug/kg	283	1	07/06/20 10:46	07/06/20 16:16	78-93-3	1M
n-Butylbenzene	ND	ug/kg	227	1	07/06/20 10:46	07/06/20 16:16	104-51-8	
sec-Butylbenzene	ND	ug/kg	56.7	1	07/06/20 10:46	07/06/20 16:16	135-98-8	
tert-Butylbenzene	ND	ug/kg	56.7	1	07/06/20 10:46	07/06/20 16:16	98-06-6	
Carbon tetrachloride	ND	ug/kg	56.7	1	07/06/20 10:46	07/06/20 16:16	56-23-5	
Chlorobenzene	ND	ug/kg	56.7	1	07/06/20 10:46	07/06/20 16:16	108-90-7	
Chloroethane	ND	ug/kg	567	1	07/06/20 10:46	07/06/20 16:16	75-00-3	1M
Chloroform	ND	ug/kg	56.7	1	07/06/20 10:46	07/06/20 16:16	67-66-3	
Chloromethane	ND	ug/kg	227	1	07/06/20 10:46	07/06/20 16:16	74-87-3	
2-Chlorotoluene	ND	ug/kg	56.7	1	07/06/20 10:46	07/06/20 16:16	95-49-8	
4-Chlorotoluene	ND	ug/kg	56.7	1	07/06/20 10:46	07/06/20 16:16	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	567	1	07/06/20 10:46	07/06/20 16:16	96-12-8	
Dibromochloromethane	ND	ug/kg	227	1	07/06/20 10:46	07/06/20 16:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	56.7	1	07/06/20 10:46	07/06/20 16:16	106-93-4	
Dibromomethane	ND	ug/kg	56.7	1	07/06/20 10:46	07/06/20 16:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	56.7	1	07/06/20 10:46	07/06/20 16:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	56.7	1	07/06/20 10:46	07/06/20 16:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	56.7	1	07/06/20 10:46	07/06/20 16:16	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	227	1	07/06/20 10:46	07/06/20 16:16	75-71-8	1M
1,1-Dichloroethane	ND	ug/kg	56.7	1	07/06/20 10:46	07/06/20 16:16	75-34-3	
1,2-Dichloroethane	ND	ug/kg	56.7	1	07/06/20 10:46	07/06/20 16:16	107-06-2	
1,1-Dichloroethene	ND	ug/kg	56.7	1	07/06/20 10:46	07/06/20 16:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	227	1	07/06/20 10:46	07/06/20 16:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	56.7	1	07/06/20 10:46	07/06/20 16:16	156-60-5	
Dichlorofluoromethane	ND	ug/kg	567	1	07/06/20 10:46	07/06/20 16:16	75-43-4	1M
1,2-Dichloropropane	ND	ug/kg	56.7	1	07/06/20 10:46	07/06/20 16:16	78-87-5	
1,3-Dichloropropane	ND	ug/kg	56.7	1	07/06/20 10:46	07/06/20 16:16	142-28-9	
2,2-Dichloropropane	ND	ug/kg	227	1	07/06/20 10:46	07/06/20 16:16	594-20-7	
1,1-Dichloropropene	ND	ug/kg	227	1	07/06/20 10:46	07/06/20 16:16	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	56.7	1	07/06/20 10:46	07/06/20 16:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	56.7	1	07/06/20 10:46	07/06/20 16:16	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	227	1	07/06/20 10:46	07/06/20 16:16	60-29-7	
Ethylbenzene	ND	ug/kg	56.7	1	07/06/20 10:46	07/06/20 16:16	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	283	1	07/06/20 10:46	07/06/20 16:16	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	56.7	1	07/06/20 10:46	07/06/20 16:16	98-82-8	
p-Isopropyltoluene	ND	ug/kg	56.7	1	07/06/20 10:46	07/06/20 16:16	99-87-6	
Methylene Chloride	ND	ug/kg	227	1	07/06/20 10:46	07/06/20 16:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	283	1	07/06/20 10:46	07/06/20 16:16	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	56.7	1	07/06/20 10:46	07/06/20 16:16	1634-04-4	
Naphthalene	ND	ug/kg	227	1	07/06/20 10:46	07/06/20 16:16	91-20-3	

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Sample: Dup-20-06252020 **Lab ID: 10523060005** Collected: 06/25/20 12:00 Received: 06/26/20 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
n-Propylbenzene	ND	ug/kg	56.7	1	07/06/20 10:46	07/06/20 16:16	103-65-1	
Styrene	ND	ug/kg	227	1	07/06/20 10:46	07/06/20 16:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	56.7	1	07/06/20 10:46	07/06/20 16:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	56.7	1	07/06/20 10:46	07/06/20 16:16	79-34-5	
Tetrachloroethene	ND	ug/kg	56.7	1	07/06/20 10:46	07/06/20 16:16	127-18-4	
Tetrahydrofuran	ND	ug/kg	2270	1	07/06/20 10:46	07/06/20 16:16	109-99-9	
Toluene	ND	ug/kg	56.7	1	07/06/20 10:46	07/06/20 16:16	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	56.7	1	07/06/20 10:46	07/06/20 16:16	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	56.7	1	07/06/20 10:46	07/06/20 16:16	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	227	1	07/06/20 10:46	07/06/20 16:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	56.7	1	07/06/20 10:46	07/06/20 16:16	79-00-5	
Trichloroethene	ND	ug/kg	56.7	1	07/06/20 10:46	07/06/20 16:16	79-01-6	
Trichlorofluoromethane	ND	ug/kg	227	1	07/06/20 10:46	07/06/20 16:16	75-69-4	1M
1,2,3-Trichloropropane	ND	ug/kg	227	1	07/06/20 10:46	07/06/20 16:16	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	227	1	07/06/20 10:46	07/06/20 16:16	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	56.7	1	07/06/20 10:46	07/06/20 16:16	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	56.7	1	07/06/20 10:46	07/06/20 16:16	108-67-8	
Vinyl chloride	ND	ug/kg	56.7	1	07/06/20 10:46	07/06/20 16:16	75-01-4	1M
Xylene (Total)	ND	ug/kg	170	1	07/06/20 10:46	07/06/20 16:16	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	111	%.	75-125	1	07/06/20 10:46	07/06/20 16:16	17060-07-0	
Toluene-d8 (S)	99	%.	75-125	1	07/06/20 10:46	07/06/20 16:16	2037-26-5	
4-Bromofluorobenzene (S)	95	%.	75-125	1	07/06/20 10:46	07/06/20 16:16	460-00-4	

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Sample: SB-1 (TW) **Lab ID: 10523060006** Collected: 06/24/20 12:53 Received: 06/26/20 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Duluth							
Nitrogen, Kjeldahl, Total	**2.0**	mg/L	0.50	1	07/06/20 13:50	07/07/20 15:04	7727-37-9	
WIDRO LV GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO Pace Analytical Services - Minneapolis							
WDRO C10-C28	**0.35**	mg/L	0.10	1	06/26/20 15:24	06/30/20 09:33		T6
Surrogates								
n-Triacontane (S)	102	%.	50-150	1	06/26/20 15:24	06/30/20 09:33	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Pace Analytical Services - Minneapolis							
Gasoline Range Organics	ND	ug/L	100	1		06/29/20 15:30		M1,R1
Surrogates								
a,a,a-Trifluorotoluene (S)	95	%.	80-150	1		06/29/20 15:30	98-08-8	
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Acetone	ND	ug/L	20.0	1		06/30/20 17:37	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		06/30/20 17:37	107-05-1	
Benzene	ND	ug/L	1.0	1		06/30/20 17:37	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/30/20 17:37	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/30/20 17:37	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/30/20 17:37	75-27-4	
Bromoform	ND	ug/L	4.0	1		06/30/20 17:37	75-25-2	
Bromomethane	ND	ug/L	4.0	1		06/30/20 17:37	74-83-9	1M,5M
2-Butanone (MEK)	ND	ug/L	5.0	1		06/30/20 17:37	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		06/30/20 17:37	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		06/30/20 17:37	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		06/30/20 17:37	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		06/30/20 17:37	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/30/20 17:37	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/30/20 17:37	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/30/20 17:37	67-66-3	
Chloromethane	ND	ug/L	4.0	1		06/30/20 17:37	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/30/20 17:37	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/30/20 17:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		06/30/20 17:37	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/30/20 17:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/30/20 17:37	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		06/30/20 17:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/30/20 17:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/30/20 17:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/30/20 17:37	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/30/20 17:37	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/30/20 17:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/30/20 17:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/30/20 17:37	75-35-4	

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(612)607-1700

ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Sample: SB-1 (TW) **Lab ID: 10523060006** Collected: 06/24/20 12:53 Received: 06/26/20 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/30/20 17:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/30/20 17:37	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		06/30/20 17:37	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		06/30/20 17:37	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/30/20 17:37	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		06/30/20 17:37	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/30/20 17:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		06/30/20 17:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		06/30/20 17:37	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		06/30/20 17:37	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		06/30/20 17:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/30/20 17:37	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		06/30/20 17:37	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/30/20 17:37	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		06/30/20 17:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/30/20 17:37	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/30/20 17:37	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		06/30/20 17:37	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		06/30/20 17:37	103-65-1	
Styrene	ND	ug/L	1.0	1		06/30/20 17:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/30/20 17:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/30/20 17:37	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/30/20 17:37	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		06/30/20 17:37	109-99-9	
Toluene	ND	ug/L	1.0	1		06/30/20 17:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/30/20 17:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/30/20 17:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/30/20 17:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/30/20 17:37	79-00-5	
Trichloroethene	ND	ug/L	0.40	1		06/30/20 17:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/30/20 17:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		06/30/20 17:37	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		06/30/20 17:37	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		06/30/20 17:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		06/30/20 17:37	108-67-8	
Vinyl chloride	ND	ug/L	0.20	1		06/30/20 17:37	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		06/30/20 17:37	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/30/20 17:37	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/30/20 17:37	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%.	75-125	1		06/30/20 17:37	17060-07-0	
Toluene-d8 (S)	98	%.	75-125	1		06/30/20 17:37	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	75-125	1		06/30/20 17:37	460-00-4	

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Sample: SB-1 (TW) **Lab ID: 10523060006** Collected: 06/24/20 12:53 Received: 06/26/20 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrate + Nitrite	Analytical Method: EPA 353.2 Pace Analytical Services - Minneapolis							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		07/07/20 10:56		FS

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Sample: MeOH Trip Blank **Lab ID: 10523060007** Collected: 06/24/20 00:00 Received: 06/26/20 10:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: EPA 5030 Medium Soil Pace Analytical Services - Minneapolis							
Gasoline Range Organics	ND	mg/kg	10.0	1	06/29/20 11:04	06/30/20 22:44		
Surrogates								
a,a,a-Trifluorotoluene (S)	100	%.	80-150	1	06/29/20 11:04	06/30/20 22:44	98-08-8	
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Acetone	ND	ug/kg	1000	1	07/06/20 10:46	07/06/20 13:44	67-64-1	
Allyl chloride	ND	ug/kg	200	1	07/06/20 10:46	07/06/20 13:44	107-05-1	
Benzene	ND	ug/kg	20.0	1	07/06/20 10:46	07/06/20 13:44	71-43-2	
Bromobenzene	ND	ug/kg	50.0	1	07/06/20 10:46	07/06/20 13:44	108-86-1	
Bromochloromethane	ND	ug/kg	50.0	1	07/06/20 10:46	07/06/20 13:44	74-97-5	
Bromodichloromethane	ND	ug/kg	50.0	1	07/06/20 10:46	07/06/20 13:44	75-27-4	
Bromoform	ND	ug/kg	200	1	07/06/20 10:46	07/06/20 13:44	75-25-2	
Bromomethane	ND	ug/kg	500	1	07/06/20 10:46	07/06/20 13:44	74-83-9	
2-Butanone (MEK)	ND	ug/kg	250	1	07/06/20 10:46	07/06/20 13:44	78-93-3	1M
n-Butylbenzene	ND	ug/kg	200	1	07/06/20 10:46	07/06/20 13:44	104-51-8	
sec-Butylbenzene	ND	ug/kg	50.0	1	07/06/20 10:46	07/06/20 13:44	135-98-8	
tert-Butylbenzene	ND	ug/kg	50.0	1	07/06/20 10:46	07/06/20 13:44	98-06-6	
Carbon tetrachloride	ND	ug/kg	50.0	1	07/06/20 10:46	07/06/20 13:44	56-23-5	
Chlorobenzene	ND	ug/kg	50.0	1	07/06/20 10:46	07/06/20 13:44	108-90-7	
Chloroethane	ND	ug/kg	500	1	07/06/20 10:46	07/06/20 13:44	75-00-3	1M
Chloroform	ND	ug/kg	50.0	1	07/06/20 10:46	07/06/20 13:44	67-66-3	
Chloromethane	ND	ug/kg	200	1	07/06/20 10:46	07/06/20 13:44	74-87-3	
2-Chlorotoluene	ND	ug/kg	50.0	1	07/06/20 10:46	07/06/20 13:44	95-49-8	
4-Chlorotoluene	ND	ug/kg	50.0	1	07/06/20 10:46	07/06/20 13:44	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	500	1	07/06/20 10:46	07/06/20 13:44	96-12-8	
Dibromochloromethane	ND	ug/kg	200	1	07/06/20 10:46	07/06/20 13:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	50.0	1	07/06/20 10:46	07/06/20 13:44	106-93-4	
Dibromomethane	ND	ug/kg	50.0	1	07/06/20 10:46	07/06/20 13:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	50.0	1	07/06/20 10:46	07/06/20 13:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	50.0	1	07/06/20 10:46	07/06/20 13:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	50.0	1	07/06/20 10:46	07/06/20 13:44	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	200	1	07/06/20 10:46	07/06/20 13:44	75-71-8	1M
1,1-Dichloroethane	ND	ug/kg	50.0	1	07/06/20 10:46	07/06/20 13:44	75-34-3	
1,2-Dichloroethane	ND	ug/kg	50.0	1	07/06/20 10:46	07/06/20 13:44	107-06-2	
1,1-Dichloroethene	ND	ug/kg	50.0	1	07/06/20 10:46	07/06/20 13:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	200	1	07/06/20 10:46	07/06/20 13:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	50.0	1	07/06/20 10:46	07/06/20 13:44	156-60-5	
Dichlorofluoromethane	ND	ug/kg	500	1	07/06/20 10:46	07/06/20 13:44	75-43-4	1M
1,2-Dichloropropane	ND	ug/kg	50.0	1	07/06/20 10:46	07/06/20 13:44	78-87-5	
1,3-Dichloropropane	ND	ug/kg	50.0	1	07/06/20 10:46	07/06/20 13:44	142-28-9	
2,2-Dichloropropane	ND	ug/kg	200	1	07/06/20 10:46	07/06/20 13:44	594-20-7	
1,1-Dichloropropene	ND	ug/kg	200	1	07/06/20 10:46	07/06/20 13:44	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	50.0	1	07/06/20 10:46	07/06/20 13:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	50.0	1	07/06/20 10:46	07/06/20 13:44	10061-02-6	

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Sample: MeOH Trip Blank **Lab ID: 10523060007** Collected: 06/24/20 00:00 Received: 06/26/20 10:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Diethyl ether (Ethyl ether)	ND	ug/kg	200	1	07/06/20 10:46	07/06/20 13:44	60-29-7	
Ethylbenzene	ND	ug/kg	50.0	1	07/06/20 10:46	07/06/20 13:44	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	250	1	07/06/20 10:46	07/06/20 13:44	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	50.0	1	07/06/20 10:46	07/06/20 13:44	98-82-8	
p-Isopropyltoluene	ND	ug/kg	50.0	1	07/06/20 10:46	07/06/20 13:44	99-87-6	
Methylene Chloride	ND	ug/kg	200	1	07/06/20 10:46	07/06/20 13:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	250	1	07/06/20 10:46	07/06/20 13:44	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	50.0	1	07/06/20 10:46	07/06/20 13:44	1634-04-4	
Naphthalene	ND	ug/kg	200	1	07/06/20 10:46	07/06/20 13:44	91-20-3	
n-Propylbenzene	ND	ug/kg	50.0	1	07/06/20 10:46	07/06/20 13:44	103-65-1	
Styrene	ND	ug/kg	200	1	07/06/20 10:46	07/06/20 13:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	50.0	1	07/06/20 10:46	07/06/20 13:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	50.0	1	07/06/20 10:46	07/06/20 13:44	79-34-5	
Tetrachloroethene	ND	ug/kg	50.0	1	07/06/20 10:46	07/06/20 13:44	127-18-4	
Tetrahydrofuran	ND	ug/kg	2000	1	07/06/20 10:46	07/06/20 13:44	109-99-9	
Toluene	ND	ug/kg	50.0	1	07/06/20 10:46	07/06/20 13:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	50.0	1	07/06/20 10:46	07/06/20 13:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	50.0	1	07/06/20 10:46	07/06/20 13:44	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	200	1	07/06/20 10:46	07/06/20 13:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	50.0	1	07/06/20 10:46	07/06/20 13:44	79-00-5	
Trichloroethene	ND	ug/kg	50.0	1	07/06/20 10:46	07/06/20 13:44	79-01-6	
Trichlorofluoromethane	ND	ug/kg	200	1	07/06/20 10:46	07/06/20 13:44	75-69-4	1M
1,2,3-Trichloropropane	ND	ug/kg	200	1	07/06/20 10:46	07/06/20 13:44	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	200	1	07/06/20 10:46	07/06/20 13:44	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	50.0	1	07/06/20 10:46	07/06/20 13:44	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	50.0	1	07/06/20 10:46	07/06/20 13:44	108-67-8	
Vinyl chloride	ND	ug/kg	50.0	1	07/06/20 10:46	07/06/20 13:44	75-01-4	1M
Xylene (Total)	ND	ug/kg	150	1	07/06/20 10:46	07/06/20 13:44	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%.	75-125	1	07/06/20 10:46	07/06/20 13:44	17060-07-0	
Toluene-d8 (S)	96	%.	75-125	1	07/06/20 10:46	07/06/20 13:44	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	75-125	1	07/06/20 10:46	07/06/20 13:44	460-00-4	

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(612)607-1700

ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Sample: HCL Trip Blank **Lab ID: 10523060008** Collected: 06/24/20 00:00 Received: 06/26/20 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO							
	Pace Analytical Services - Minneapolis							
Gasoline Range Organics	ND	ug/L	100	1		06/29/20 19:39		
Surrogates								
a,a,a-Trifluorotoluene (S)	93	%.	80-150	1		06/29/20 19:39	98-08-8	
8260D VOC	Analytical Method: EPA 8260D							
	Pace Analytical Services - Minneapolis							
Acetone	ND	ug/L	20.0	1		07/01/20 12:30	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		07/01/20 12:30	107-05-1	
Benzene	ND	ug/L	1.0	1		07/01/20 12:30	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/01/20 12:30	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/01/20 12:30	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/01/20 12:30	75-27-4	
Bromoform	ND	ug/L	4.0	1		07/01/20 12:30	75-25-2	
Bromomethane	ND	ug/L	4.0	1		07/01/20 12:30	74-83-9	3M
2-Butanone (MEK)	ND	ug/L	5.0	1		07/01/20 12:30	78-93-3	1M
n-Butylbenzene	ND	ug/L	1.0	1		07/01/20 12:30	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		07/01/20 12:30	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		07/01/20 12:30	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		07/01/20 12:30	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/01/20 12:30	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/01/20 12:30	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/01/20 12:30	67-66-3	
Chloromethane	ND	ug/L	4.0	1		07/01/20 12:30	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/01/20 12:30	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/01/20 12:30	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		07/01/20 12:30	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/01/20 12:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/01/20 12:30	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		07/01/20 12:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/01/20 12:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/01/20 12:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/01/20 12:30	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/01/20 12:30	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/01/20 12:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/01/20 12:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/01/20 12:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/01/20 12:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/01/20 12:30	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		07/01/20 12:30	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		07/01/20 12:30	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/01/20 12:30	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		07/01/20 12:30	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/01/20 12:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		07/01/20 12:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		07/01/20 12:30	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		07/01/20 12:30	60-29-7	

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Sample: HCL Trip Blank **Lab ID: 10523060008** Collected: 06/24/20 00:00 Received: 06/26/20 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Ethylbenzene	ND	ug/L	1.0	1		07/01/20 12:30	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		07/01/20 12:30	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		07/01/20 12:30	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/01/20 12:30	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		07/01/20 12:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/01/20 12:30	108-10-1	1M
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/01/20 12:30	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		07/01/20 12:30	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		07/01/20 12:30	103-65-1	
Styrene	ND	ug/L	1.0	1		07/01/20 12:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/01/20 12:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/01/20 12:30	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/01/20 12:30	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		07/01/20 12:30	109-99-9	
Toluene	ND	ug/L	1.0	1		07/01/20 12:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/01/20 12:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/01/20 12:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/01/20 12:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/01/20 12:30	79-00-5	
Trichloroethene	ND	ug/L	0.40	1		07/01/20 12:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/01/20 12:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		07/01/20 12:30	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		07/01/20 12:30	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		07/01/20 12:30	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		07/01/20 12:30	108-67-8	
Vinyl chloride	ND	ug/L	0.20	1		07/01/20 12:30	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		07/01/20 12:30	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/01/20 12:30	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/01/20 12:30	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%.	75-125	1		07/01/20 12:30	17060-07-0	
Toluene-d8 (S)	93	%.	75-125	1		07/01/20 12:30	2037-26-5	
4-Bromofluorobenzene (S)	92	%.	75-125	1		07/01/20 12:30	460-00-4	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

QC Batch: 192852
QC Batch Method: EPA 351.2
Analysis Method: EPA 351.2
Analysis Description: 351.2 TKN
Laboratory: Pace Analytical Services - Duluth
Associated Lab Samples: 10523060006

METHOD BLANK: 760317 Matrix: Water
Associated Lab Samples: 10523060006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	ND	0.50	07/07/20 15:01	

LABORATORY CONTROL SAMPLE: 760316

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	10	10.6	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 760318 760319

Parameter	Units	10521120001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	33.2	200	200	252	244	109	105	90-110	3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 760320 760321

Parameter	Units	12146512006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	3.8	10	10	14.1	14.4	103	106	90-110	2	10	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

QC Batch: 683947
QC Batch Method: EPA 5030 Medium Soil
Analysis Method: WI MOD GRO
Analysis Description: WIGRO Solid GCV
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10523060004, 10523060007

METHOD BLANK: 3659026 Matrix: Solid
Associated Lab Samples: 10523060004, 10523060007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	10.0	06/30/20 15:45	
a,a,a-Trifluorotoluene (S)	%.	100	80-150	06/30/20 15:45	

LABORATORY CONTROL SAMPLE & LCSD: 3659027 3659028

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	50	53.8	53.7	108	107	80-120	0	20	
a,a,a-Trifluorotoluene (S)	%.				100	100	80-150			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3659078 3659079

Parameter	Units	10523060004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Gasoline Range Organics	mg/kg	ND	56	56.4	53.3	53.6	93	93	80-120	1	20	
a,a,a-Trifluorotoluene (S)	%.						100	100	80-150			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

QC Batch: 683946
QC Batch Method: WI MOD GRO
Analysis Method: WI MOD GRO
Analysis Description: WIGRO GCV Water
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10523060006, 10523060008

METHOD BLANK: 3659023 Matrix: Water
Associated Lab Samples: 10523060006, 10523060008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	ug/L	ND	100	06/29/20 15:05	
a,a,a-Trifluorotoluene (S)	%.	92	80-150	06/29/20 15:05	

LABORATORY CONTROL SAMPLE & LCSD: 3659024 3659025

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Gasoline Range Organics	ug/L	1000	1140	1130	114	113	80-120	1	20	
a,a,a-Trifluorotoluene (S)	%.				97	96	80-150			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3659177 3659178

Parameter	Units	10523060006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Gasoline Range Organics	ug/L	ND	1000	1000	545	794	51	76	80-120	37	20	M1,R1
a,a,a-Trifluorotoluene (S)	%.						95	97	80-150			

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

QC Batch: 683849 | Analysis Method: EPA 7471B
QC Batch Method: EPA 7471B | Analysis Description: 7471B Mercury Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10523060001, 10523060002, 10523060003, 10523060004, 10523060005

METHOD BLANK: 3658724 Matrix: Solid
Associated Lab Samples: 10523060001, 10523060002, 10523060003, 10523060004, 10523060005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.019	06/30/20 14:11	

LABORATORY CONTROL SAMPLE: 3658725

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.5	0.51	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3658726 3658727

Parameter	Units	10523060001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	ND	0.49	0.52	0.52	0.48	102	88	80-120	8	20	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

QC Batch: 683844
QC Batch Method: EPA 3050B
Analysis Method: EPA 6010D
Analysis Description: 6010D Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10523060001, 10523060002, 10523060003, 10523060004, 10523060005

METHOD BLANK: 3658708 Matrix: Solid
Associated Lab Samples: 10523060001, 10523060002, 10523060003, 10523060004, 10523060005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	0.92	06/30/20 14:35	
Barium	mg/kg	ND	0.46	06/30/20 14:35	
Cadmium	mg/kg	ND	0.14	06/30/20 14:35	
Chromium	mg/kg	ND	0.46	06/30/20 14:35	
Lead	mg/kg	ND	0.46	06/30/20 14:35	
Selenium	mg/kg	ND	0.92	06/30/20 14:35	
Silver	mg/kg	ND	0.46	06/30/20 14:35	

LABORATORY CONTROL SAMPLE: 3658709

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	48.1	50.6	105	80-120	
Barium	mg/kg	48.1	48.2	100	80-120	
Cadmium	mg/kg	48.1	51.3	107	80-120	
Chromium	mg/kg	48.1	47.9	100	80-120	
Lead	mg/kg	48.1	50.5	105	80-120	
Selenium	mg/kg	48.1	51.5	107	80-120	
Silver	mg/kg	24	23.6	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3658710 3658711

Parameter	Units	10523060001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	2.4	53.5	53	50.1	50.2	89	90	75-125	0	20	
Barium	mg/kg	45.6	53.5	53	90.2	83.4	83	71	75-125	8	20	M1
Cadmium	mg/kg	ND	53.5	53	47.1	48.3	88	91	75-125	2	20	
Chromium	mg/kg	18.4	53.5	53	65.8	64.5	89	87	75-125	2	20	
Lead	mg/kg	4.5	53.5	53	50.3	50.3	85	86	75-125	0	20	
Selenium	mg/kg	ND	53.5	53	47.3	48.4	88	91	75-125	2	20	
Silver	mg/kg	ND	26.8	26.5	23.2	23.7	87	89	75-125	2	20	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

QC Batch: 685296
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10523060001, 10523060002, 10523060003, 10523060004, 10523060005

SAMPLE DUPLICATE: 3665309

Parameter	Units	10523060001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.4	8.9	5	30	N2

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

QC Batch: 684065 | Analysis Method: EPA 8260D
QC Batch Method: EPA 5035/5030B | Analysis Description: 8260D MSV 5030 Med Level
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10523060001, 10523060002, 10523060003, 10523060004, 10523060005, 10523060007

METHOD BLANK: 3659554 Matrix: Solid
Associated Lab Samples: 10523060001, 10523060002, 10523060003, 10523060004, 10523060005, 10523060007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	50.0	07/06/20 13:23	
1,1,1-Trichloroethane	ug/kg	ND	200	07/06/20 13:23	MN
1,1,2,2-Tetrachloroethane	ug/kg	ND	50.0	07/06/20 13:23	
1,1,2-Trichloroethane	ug/kg	ND	50.0	07/06/20 13:23	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	200	07/06/20 13:23	
1,1-Dichloroethane	ug/kg	ND	50.0	07/06/20 13:23	
1,1-Dichloroethene	ug/kg	ND	50.0	07/06/20 13:23	
1,1-Dichloropropene	ug/kg	ND	200	07/06/20 13:23	MN
1,2,3-Trichlorobenzene	ug/kg	ND	50.0	07/06/20 13:23	
1,2,3-Trichloropropane	ug/kg	ND	200	07/06/20 13:23	
1,2,4-Trichlorobenzene	ug/kg	ND	50.0	07/06/20 13:23	
1,2,4-Trimethylbenzene	ug/kg	ND	50.0	07/06/20 13:23	
1,2-Dibromo-3-chloropropane	ug/kg	ND	500	07/06/20 13:23	
1,2-Dibromoethane (EDB)	ug/kg	ND	50.0	07/06/20 13:23	
1,2-Dichlorobenzene	ug/kg	ND	50.0	07/06/20 13:23	
1,2-Dichloroethane	ug/kg	ND	50.0	07/06/20 13:23	
1,2-Dichloropropane	ug/kg	ND	50.0	07/06/20 13:23	
1,3,5-Trimethylbenzene	ug/kg	ND	50.0	07/06/20 13:23	
1,3-Dichlorobenzene	ug/kg	ND	50.0	07/06/20 13:23	
1,3-Dichloropropane	ug/kg	ND	50.0	07/06/20 13:23	
1,4-Dichlorobenzene	ug/kg	ND	50.0	07/06/20 13:23	
2,2-Dichloropropane	ug/kg	ND	200	07/06/20 13:23	
2-Butanone (MEK)	ug/kg	ND	250	07/06/20 13:23	1M
2-Chlorotoluene	ug/kg	ND	50.0	07/06/20 13:23	
4-Chlorotoluene	ug/kg	ND	50.0	07/06/20 13:23	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	250	07/06/20 13:23	
Acetone	ug/kg	ND	1000	07/06/20 13:23	
Allyl chloride	ug/kg	ND	200	07/06/20 13:23	
Benzene	ug/kg	ND	20.0	07/06/20 13:23	
Bromobenzene	ug/kg	ND	50.0	07/06/20 13:23	
Bromochloromethane	ug/kg	ND	50.0	07/06/20 13:23	
Bromodichloromethane	ug/kg	ND	50.0	07/06/20 13:23	
Bromoform	ug/kg	ND	200	07/06/20 13:23	
Bromomethane	ug/kg	ND	500	07/06/20 13:23	
Carbon tetrachloride	ug/kg	ND	50.0	07/06/20 13:23	
Chlorobenzene	ug/kg	ND	50.0	07/06/20 13:23	
Chloroethane	ug/kg	ND	500	07/06/20 13:23	1M
Chloroform	ug/kg	ND	50.0	07/06/20 13:23	
Chloromethane	ug/kg	ND	200	07/06/20 13:23	
cis-1,2-Dichloroethene	ug/kg	ND	200	07/06/20 13:23	MN

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

METHOD BLANK: 3659554 Matrix: Solid
Associated Lab Samples: 10523060001, 10523060002, 10523060003, 10523060004, 10523060005, 10523060007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/kg	ND	50.0	07/06/20 13:23	
Dibromochloromethane	ug/kg	ND	200	07/06/20 13:23	
Dibromomethane	ug/kg	ND	50.0	07/06/20 13:23	
Dichlorodifluoromethane	ug/kg	ND	200	07/06/20 13:23	1M
Dichlorofluoromethane	ug/kg	ND	500	07/06/20 13:23	1M
Diethyl ether (Ethyl ether)	ug/kg	ND	200	07/06/20 13:23	
Ethylbenzene	ug/kg	ND	50.0	07/06/20 13:23	
Hexachloro-1,3-butadiene	ug/kg	ND	250	07/06/20 13:23	
Isopropylbenzene (Cumene)	ug/kg	ND	50.0	07/06/20 13:23	
Methyl-tert-butyl ether	ug/kg	ND	50.0	07/06/20 13:23	
Methylene Chloride	ug/kg	ND	200	07/06/20 13:23	
n-Butylbenzene	ug/kg	ND	200	07/06/20 13:23	MN
n-Propylbenzene	ug/kg	ND	50.0	07/06/20 13:23	
Naphthalene	ug/kg	ND	200	07/06/20 13:23	
p-Isopropyltoluene	ug/kg	ND	50.0	07/06/20 13:23	
sec-Butylbenzene	ug/kg	ND	50.0	07/06/20 13:23	
Styrene	ug/kg	ND	200	07/06/20 13:23	MN
tert-Butylbenzene	ug/kg	ND	50.0	07/06/20 13:23	
Tetrachloroethene	ug/kg	ND	50.0	07/06/20 13:23	
Tetrahydrofuran	ug/kg	ND	2000	07/06/20 13:23	
Toluene	ug/kg	ND	50.0	07/06/20 13:23	
trans-1,2-Dichloroethene	ug/kg	ND	50.0	07/06/20 13:23	
trans-1,3-Dichloropropene	ug/kg	ND	50.0	07/06/20 13:23	
Trichloroethene	ug/kg	ND	50.0	07/06/20 13:23	
Trichlorofluoromethane	ug/kg	ND	200	07/06/20 13:23	1M
Vinyl chloride	ug/kg	ND	50.0	07/06/20 13:23	1M,MN
Xylene (Total)	ug/kg	ND	150	07/06/20 13:23	
1,2-Dichloroethane-d4 (S)	%.	101	75-125	07/06/20 13:23	
4-Bromofluorobenzene (S)	%.	98	75-125	07/06/20 13:23	
Toluene-d8 (S)	%.	98	75-125	07/06/20 13:23	

LABORATORY CONTROL SAMPLE: 3659555

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	1210	121	64-125	
1,1,1-Trichloroethane	ug/kg	1000	1130	113	60-135	
1,1,2,2-Tetrachloroethane	ug/kg	1000	1070	107	61-125	
1,1,2-Trichloroethane	ug/kg	1000	1200	120	66-125	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	1180	118	51-136	
1,1-Dichloroethane	ug/kg	1000	1140	114	61-125	
1,1-Dichloroethene	ug/kg	1000	1120	112	45-136	
1,1-Dichloropropene	ug/kg	1000	1040	104	51-136	
1,2,3-Trichlorobenzene	ug/kg	1000	1090	109	63-125	
1,2,3-Trichloropropane	ug/kg	1000	1130	113	61-125	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

LABORATORY CONTROL SAMPLE: 3659555

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	1000	1100	110	61-125	
1,2,4-Trimethylbenzene	ug/kg	1000	1120	112	63-126	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2740	110	58-125	
1,2-Dibromoethane (EDB)	ug/kg	1000	1090	109	64-125	
1,2-Dichlorobenzene	ug/kg	1000	1090	109	62-125	
1,2-Dichloroethane	ug/kg	1000	1070	107	56-125	
1,2-Dichloropropane	ug/kg	1000	1150	115	64-125	
1,3,5-Trimethylbenzene	ug/kg	1000	1140	114	64-125	
1,3-Dichlorobenzene	ug/kg	1000	1090	109	62-125	
1,3-Dichloropropane	ug/kg	1000	1090	109	63-125	
1,4-Dichlorobenzene	ug/kg	1000	1080	108	60-125	
2,2-Dichloropropane	ug/kg	1000	1220	122	61-130	
2-Butanone (MEK)	ug/kg	5000	6540	131	47-129	2M,L3
2-Chlorotoluene	ug/kg	1000	1120	112	63-125	
4-Chlorotoluene	ug/kg	1000	1100	110	63-125	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	5620	112	56-125	
Acetone	ug/kg	5000	6160	123	49-132	
Allyl chloride	ug/kg	1000	1130	113	48-130	
Benzene	ug/kg	1000	1100	110	59-125	
Bromobenzene	ug/kg	1000	1070	107	61-125	
Bromochloromethane	ug/kg	1000	1110	111	57-125	
Bromodichloromethane	ug/kg	1000	1220	122	67-125	
Bromoform	ug/kg	1000	1220	122	61-125	
Bromomethane	ug/kg	1000	1000	100	44-136	
Carbon tetrachloride	ug/kg	1000	1290	129	58-134	
Chlorobenzene	ug/kg	1000	1100	110	60-125	
Chloroethane	ug/kg	1000	1240	124	30-150	2M
Chloroform	ug/kg	1000	1150	115	63-125	
Chloromethane	ug/kg	1000	1010	101	43-125	
cis-1,2-Dichloroethene	ug/kg	1000	1080	108	60-125	
cis-1,3-Dichloropropene	ug/kg	1000	1150	115	63-125	
Dibromochloromethane	ug/kg	1000	1210	121	61-125	
Dibromomethane	ug/kg	1000	1150	115	62-125	
Dichlorodifluoromethane	ug/kg	1000	978	98	35-125	2M
Dichlorofluoromethane	ug/kg	1000	1230	123	49-128	2M
Diethyl ether (Ethyl ether)	ug/kg	1000	1090	109	42-127	
Ethylbenzene	ug/kg	1000	1120	112	62-125	
Hexachloro-1,3-butadiene	ug/kg	1000	1160	116	59-132	
Isopropylbenzene (Cumene)	ug/kg	1000	1190	119	63-126	
Methyl-tert-butyl ether	ug/kg	1000	1160	116	58-125	
Methylene Chloride	ug/kg	1000	1050	105	50-125	
n-Butylbenzene	ug/kg	1000	1020	102	60-129	
n-Propylbenzene	ug/kg	1000	1110	111	63-126	
Naphthalene	ug/kg	1000	1070	107	57-125	
p-Isopropyltoluene	ug/kg	1000	1150	115	62-127	
sec-Butylbenzene	ug/kg	1000	1130	113	64-128	
Styrene	ug/kg	1000	1120	112	62-125	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

LABORATORY CONTROL SAMPLE: 3659555

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	1000	1170	117	62-129	
Tetrachloroethene	ug/kg	1000	1200	120	56-133	
Tetrahydrofuran	ug/kg	10000	11400	114	58-126	
Toluene	ug/kg	1000	1140	114	59-125	
trans-1,2-Dichloroethene	ug/kg	1000	1140	114	46-134	
trans-1,3-Dichloropropene	ug/kg	1000	1140	114	66-125	
Trichloroethene	ug/kg	1000	1210	121	62-125	
Trichlorofluoromethane	ug/kg	1000	1250	125	30-150	2M
Vinyl chloride	ug/kg	1000	1040	104	44-127	2M
Xylene (Total)	ug/kg	3000	3530	118	65-125	
1,2-Dichloroethane-d4 (S)	%.			99	75-125	
4-Bromofluorobenzene (S)	%.			98	75-125	
Toluene-d8 (S)	%.			98	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3659559 3659560

Parameter	Units	10523060001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/kg	ND	1080	1080	1330	1370	123	127	55-150	3	30	
1,1,1-Trichloroethane	ug/kg	ND	1080	1080	1210	1210	112	113	48-150	0	30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	1080	1080	1280	1250	119	116	47-150	3	30	
1,1,2-Trichloroethane	ug/kg	ND	1080	1080	1250	1280	116	119	50-150	3	30	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	1080	1080	1280	1260	119	117	43-150	2	30	
1,1-Dichloroethane	ug/kg	ND	1080	1080	1240	1250	115	116	36-150	1	30	
1,1-Dichloroethene	ug/kg	ND	1080	1080	1230	1230	115	115	43-150	0	30	
1,1-Dichloropropene	ug/kg	ND	1080	1080	1130	1120	105	104	38-150	1	30	
1,2,3-Trichlorobenzene	ug/kg	ND	1080	1080	1260	1300	117	121	48-150	4	30	
1,2,3-Trichloropropane	ug/kg	ND	1080	1080	1240	1320	115	122	48-150	6	30	
1,2,4-Trichlorobenzene	ug/kg	ND	1080	1080	1240	1300	115	121	46-150	5	30	
1,2,4-Trimethylbenzene	ug/kg	ND	1080	1080	1240	1300	115	121	53-150	4	30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	2690	2690	3230	3270	120	122	57-150	1	30	
1,2-Dibromoethane (EDB)	ug/kg	ND	1080	1080	1200	1230	112	115	54-150	2	30	
1,2-Dichlorobenzene	ug/kg	ND	1080	1080	1200	1250	112	116	53-150	4	30	
1,2-Dichloroethane	ug/kg	ND	1080	1080	1180	1180	110	109	50-150	1	30	
1,2-Dichloropropane	ug/kg	ND	1080	1080	1240	1280	116	119	45-150	3	30	
1,3,5-Trimethylbenzene	ug/kg	ND	1080	1080	1290	1330	120	123	60-150	3	30	
1,3-Dichlorobenzene	ug/kg	ND	1080	1080	1220	1270	113	119	52-150	5	30	
1,3-Dichloropropane	ug/kg	ND	1080	1080	1190	1240	111	115	49-150	4	30	
1,4-Dichlorobenzene	ug/kg	ND	1080	1080	1190	1220	111	114	53-150	3	30	
2,2-Dichloropropane	ug/kg	ND	1080	1080	1290	1290	120	120	37-150	0	30	
2-Butanone (MEK)	ug/kg	ND	5370	5370	7030	6850	131	127	35-150	3	30	2M
2-Chlorotoluene	ug/kg	ND	1080	1080	1270	1310	118	122	50-150	3	30	
4-Chlorotoluene	ug/kg	ND	1080	1080	1250	1280	116	119	52-150	2	30	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3659559 3659560

Parameter	Units	10523060001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	5370	5370	6360	6400	118	119	43-150	1	30	
Acetone	ug/kg	ND	5370	5370	6790	6820	126	127	30-150	1	30	
Allyl chloride	ug/kg	ND	1080	1080	1210	1190	112	111	30-150	1	30	
Benzene	ug/kg	ND	1080	1080	1190	1220	111	114	46-150	3	30	
Bromobenzene	ug/kg	ND	1080	1080	1230	1280	114	119	54-150	4	30	
Bromochloromethane	ug/kg	ND	1080	1080	1150	1210	107	113	45-150	5	30	
Bromodichloromethane	ug/kg	ND	1080	1080	1340	1350	125	126	52-150	1	30	
Bromoform	ug/kg	ND	1080	1080	1360	1330	127	123	51-150	2	30	
Bromomethane	ug/kg	ND	1080	1080	1080	1090	100	101	30-150	1	30	
Carbon tetrachloride	ug/kg	ND	1080	1080	1380	1530	128	142	42-150	10	30	
Chlorobenzene	ug/kg	ND	1080	1080	1210	1220	112	114	51-150	1	30	
Chloroethane	ug/kg	ND	1080	1080	1360	1350	126	125	30-150	1	30	2M
Chloroform	ug/kg	ND	1080	1080	1260	1250	117	116	50-150	1	30	
Chloromethane	ug/kg	ND	1080	1080	1080	1070	100	100	30-150	1	30	
cis-1,2-Dichloroethene	ug/kg	ND	1080	1080	1130	1160	105	108	45-150	3	30	
cis-1,3-Dichloropropene	ug/kg	ND	1080	1080	1290	1280	120	119	48-150	1	30	
Dibromochloromethane	ug/kg	ND	1080	1080	1310	1310	122	122	51-150	0	30	
Dibromomethane	ug/kg	ND	1080	1080	1320	1320	122	123	53-150	1	30	
Dichlorodifluoromethane	ug/kg	ND	1080	1080	967	927	90	86	30-125	4	30	2M
Dichlorofluoromethane	ug/kg	ND	1080	1080	1240	1210	115	112	41-150	2	30	2M
Diethyl ether (Ethyl ether)	ug/kg	ND	1080	1080	1220	1220	113	114	35-138	0	30	
Ethylbenzene	ug/kg	ND	1080	1080	1230	1260	115	117	59-150	2	30	
Hexachloro-1,3-butadiene	ug/kg	ND	1080	1080	1370	1380	128	128	58-150	0	30	
Isopropylbenzene (Cumene)	ug/kg	ND	1080	1080	1310	1330	122	124	50-150	2	30	
Methyl-tert-butyl ether	ug/kg	ND	1080	1080	1300	1280	121	119	50-150	1	30	
Methylene Chloride	ug/kg	ND	1080	1080	1150	1140	107	106	37-150	1	30	
n-Butylbenzene	ug/kg	ND	1080	1080	1150	1170	107	109	48-150	2	30	
n-Propylbenzene	ug/kg	ND	1080	1080	1250	1290	116	120	54-150	3	30	
Naphthalene	ug/kg	ND	1080	1080	1260	1320	117	122	50-150	4	30	
p-Isopropyltoluene	ug/kg	ND	1080	1080	1260	1320	117	123	51-150	4	30	
sec-Butylbenzene	ug/kg	ND	1080	1080	1270	1310	118	121	52-150	3	30	
Styrene	ug/kg	ND	1080	1080	1230	1250	114	116	52-150	2	30	
tert-Butylbenzene	ug/kg	ND	1080	1080	1330	1390	123	129	54-150	5	30	
Tetrachloroethene	ug/kg	ND	1080	1080	1260	1330	117	124	50-150	6	30	
Tetrahydrofuran	ug/kg	ND	10800	10800	13400	13800	124	129	49-150	3	30	
Toluene	ug/kg	ND	1080	1080	1220	1250	114	117	55-150	2	30	
trans-1,2-Dichloroethene	ug/kg	ND	1080	1080	1200	1200	112	111	43-150	0	30	
trans-1,3-Dichloropropene	ug/kg	ND	1080	1080	1250	1280	116	119	49-150	3	30	
Trichloroethene	ug/kg	ND	1080	1080	1300	1350	120	126	43-150	4	30	
Trichlorofluoromethane	ug/kg	ND	1080	1080	1330	1320	123	123	30-150	1	30	2M
Vinyl chloride	ug/kg	ND	1080	1080	1150	1090	107	101	30-150	6	30	2M
Xylene (Total)	ug/kg	ND	3220	3220	3810	3950	118	122	60-150	4	30	
1,2-Dichloroethane-d4 (S)	%.						100	96	75-125			
4-Bromofluorobenzene (S)	%.						99	101	75-125			

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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3659559 3659560

Parameter	Units	10523060001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene-d8 (S)	%.						97	97	75-125			

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

QC Batch: 684261
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260D MSV 465 W
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10523060006

METHOD BLANK: 3660320 Matrix: Water
Associated Lab Samples: 10523060006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	06/30/20 15:22	
1,1,1-Trichloroethane	ug/L	ND	1.0	06/30/20 15:22	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/30/20 15:22	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/30/20 15:22	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	06/30/20 15:22	
1,1-Dichloroethane	ug/L	ND	1.0	06/30/20 15:22	
1,1-Dichloroethene	ug/L	ND	1.0	06/30/20 15:22	
1,1-Dichloropropene	ug/L	ND	1.0	06/30/20 15:22	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	06/30/20 15:22	
1,2,3-Trichloropropane	ug/L	ND	4.0	06/30/20 15:22	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	06/30/20 15:22	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	06/30/20 15:22	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	06/30/20 15:22	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	06/30/20 15:22	
1,2-Dichlorobenzene	ug/L	ND	1.0	06/30/20 15:22	
1,2-Dichloroethane	ug/L	ND	1.0	06/30/20 15:22	
1,2-Dichloropropane	ug/L	ND	4.0	06/30/20 15:22	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	06/30/20 15:22	
1,3-Dichlorobenzene	ug/L	ND	1.0	06/30/20 15:22	
1,3-Dichloropropane	ug/L	ND	1.0	06/30/20 15:22	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/30/20 15:22	
2,2-Dichloropropane	ug/L	ND	4.0	06/30/20 15:22	
2-Butanone (MEK)	ug/L	ND	5.0	06/30/20 15:22	
2-Chlorotoluene	ug/L	ND	1.0	06/30/20 15:22	
4-Chlorotoluene	ug/L	ND	1.0	06/30/20 15:22	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	06/30/20 15:22	
Acetone	ug/L	ND	20.0	06/30/20 15:22	
Allyl chloride	ug/L	ND	4.0	06/30/20 15:22	
Benzene	ug/L	ND	1.0	06/30/20 15:22	
Bromobenzene	ug/L	ND	1.0	06/30/20 15:22	
Bromochloromethane	ug/L	ND	1.0	06/30/20 15:22	
Bromodichloromethane	ug/L	ND	1.0	06/30/20 15:22	
Bromoform	ug/L	ND	4.0	06/30/20 15:22	
Bromomethane	ug/L	ND	4.0	06/30/20 15:22	1M,5M
Carbon tetrachloride	ug/L	ND	1.0	06/30/20 15:22	
Chlorobenzene	ug/L	ND	1.0	06/30/20 15:22	
Chloroethane	ug/L	ND	1.0	06/30/20 15:22	
Chloroform	ug/L	ND	1.0	06/30/20 15:22	
Chloromethane	ug/L	ND	4.0	06/30/20 15:22	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/30/20 15:22	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

METHOD BLANK: 3660320 Matrix: Water
Associated Lab Samples: 10523060006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	4.0	06/30/20 15:22	
Dibromochloromethane	ug/L	ND	1.0	06/30/20 15:22	
Dibromomethane	ug/L	ND	4.0	06/30/20 15:22	
Dichlorodifluoromethane	ug/L	ND	1.0	06/30/20 15:22	
Dichlorofluoromethane	ug/L	ND	1.0	06/30/20 15:22	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	06/30/20 15:22	
Ethylbenzene	ug/L	ND	1.0	06/30/20 15:22	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	06/30/20 15:22	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	06/30/20 15:22	
m&p-Xylene	ug/L	ND	2.0	06/30/20 15:22	
Methyl-tert-butyl ether	ug/L	ND	1.0	06/30/20 15:22	
Methylene Chloride	ug/L	ND	4.0	06/30/20 15:22	
n-Butylbenzene	ug/L	ND	1.0	06/30/20 15:22	
n-Propylbenzene	ug/L	ND	1.0	06/30/20 15:22	
Naphthalene	ug/L	ND	4.0	06/30/20 15:22	
o-Xylene	ug/L	ND	1.0	06/30/20 15:22	
p-Isopropyltoluene	ug/L	ND	1.0	06/30/20 15:22	
sec-Butylbenzene	ug/L	ND	1.0	06/30/20 15:22	
Styrene	ug/L	ND	1.0	06/30/20 15:22	
tert-Butylbenzene	ug/L	ND	1.0	06/30/20 15:22	
Tetrachloroethene	ug/L	ND	1.0	06/30/20 15:22	
Tetrahydrofuran	ug/L	ND	10.0	06/30/20 15:22	
Toluene	ug/L	ND	1.0	06/30/20 15:22	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/30/20 15:22	
trans-1,3-Dichloropropene	ug/L	ND	4.0	06/30/20 15:22	
Trichloroethene	ug/L	ND	0.40	06/30/20 15:22	
Trichlorofluoromethane	ug/L	ND	1.0	06/30/20 15:22	
Vinyl chloride	ug/L	ND	0.20	06/30/20 15:22	
Xylene (Total)	ug/L	ND	3.0	06/30/20 15:22	
1,2-Dichloroethane-d4 (S)	%.	101	75-125	06/30/20 15:22	
4-Bromofluorobenzene (S)	%.	100	75-125	06/30/20 15:22	
Toluene-d8 (S)	%.	98	75-125	06/30/20 15:22	

LABORATORY CONTROL SAMPLE: 3660321

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.0	105	75-128	
1,1,1-Trichloroethane	ug/L	20	19.5	97	75-128	
1,1,2,2-Tetrachloroethane	ug/L	20	20.4	102	69-129	
1,1,2-Trichloroethane	ug/L	20	21.4	107	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	19.1	95	74-125	
1,1-Dichloroethane	ug/L	20	20.3	102	75-125	
1,1-Dichloroethene	ug/L	20	19.5	97	65-125	
1,1-Dichloropropene	ug/L	20	20.3	102	69-131	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

LABORATORY CONTROL SAMPLE: 3660321

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichlorobenzene	ug/L	20	20.0	100	75-125	
1,2,3-Trichloropropane	ug/L	20	20.7	103	75-125	
1,2,4-Trichlorobenzene	ug/L	20	20.5	103	67-131	
1,2,4-Trimethylbenzene	ug/L	20	20.8	104	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	53.2	106	65-128	
1,2-Dibromoethane (EDB)	ug/L	20	21.2	106	75-125	
1,2-Dichlorobenzene	ug/L	20	20.1	100	75-125	
1,2-Dichloroethane	ug/L	20	20.4	102	74-125	
1,2-Dichloropropane	ug/L	20	19.6	98	68-125	
1,3,5-Trimethylbenzene	ug/L	20	19.9	100	75-125	
1,3-Dichlorobenzene	ug/L	20	20.3	101	75-125	
1,3-Dichloropropane	ug/L	20	19.4	97	75-125	
1,4-Dichlorobenzene	ug/L	20	20.5	102	75-125	
2,2-Dichloropropane	ug/L	20	19.1	95	70-133	
2-Butanone (MEK)	ug/L	100	96.6	97	62-142	
2-Chlorotoluene	ug/L	20	20.4	102	75-125	
4-Chlorotoluene	ug/L	20	19.3	96	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	109	109	75-125	
Acetone	ug/L	100	106	106	47-150	
Allyl chloride	ug/L	20	18.9	95	65-125	
Benzene	ug/L	20	20.0	100	75-125	
Bromobenzene	ug/L	20	20.7	104	75-125	
Bromochloromethane	ug/L	20	21.1	105	75-125	
Bromodichloromethane	ug/L	20	19.8	99	75-128	
Bromoform	ug/L	20	22.4	112	75-125	
Bromomethane	ug/L	20	26.8	134	43-150	2M,5M
Carbon tetrachloride	ug/L	20	20.0	100	75-127	
Chlorobenzene	ug/L	20	20.7	103	75-125	
Chloroethane	ug/L	20	22.4	112	72-130	
Chloroform	ug/L	20	18.6	93	75-125	
Chloromethane	ug/L	20	21.1	106	55-128	
cis-1,2-Dichloroethene	ug/L	20	20.4	102	75-125	
cis-1,3-Dichloropropene	ug/L	20	20.5	103	74-132	
Dibromochloromethane	ug/L	20	21.3	106	75-125	
Dibromomethane	ug/L	20	20.9	104	71-137	
Dichlorodifluoromethane	ug/L	20	20.4	102	69-126	
Dichlorofluoromethane	ug/L	20	21.3	106	75-125	
Diethyl ether (Ethyl ether)	ug/L	20	20.1	101	72-125	
Ethylbenzene	ug/L	20	21.3	106	75-125	
Hexachloro-1,3-butadiene	ug/L	20	20.7	104	74-129	
Isopropylbenzene (Cumene)	ug/L	20	21.1	106	75-125	
m&p-Xylene	ug/L	40	43.0	108	74-125	
Methyl-tert-butyl ether	ug/L	20	20.1	101	69-125	
Methylene Chloride	ug/L	20	20.4	102	72-125	
n-Butylbenzene	ug/L	20	20.7	104	75-128	
n-Propylbenzene	ug/L	20	20.8	104	75-125	
Naphthalene	ug/L	20	21.3	107	70-125	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

LABORATORY CONTROL SAMPLE: 3660321

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
o-Xylene	ug/L	20	21.6	108	75-125	
p-Isopropyltoluene	ug/L	20	20.1	100	75-125	
sec-Butylbenzene	ug/L	20	20.3	102	75-127	
Styrene	ug/L	20	21.5	107	75-125	
tert-Butylbenzene	ug/L	20	20.3	101	75-125	
Tetrachloroethene	ug/L	20	19.9	100	74-125	
Tetrahydrofuran	ug/L	200	214	107	73-132	
Toluene	ug/L	20	20.4	102	75-125	
trans-1,2-Dichloroethene	ug/L	20	19.6	98	69-125	
trans-1,3-Dichloropropene	ug/L	20	21.0	105	69-130	
Trichloroethene	ug/L	20	19.9	100	75-127	
Trichlorofluoromethane	ug/L	20	20.1	100	71-132	
Vinyl chloride	ug/L	20	19.5	97	65-128	
Xylene (Total)	ug/L	60	64.6	108	75-125	
1,2-Dichloroethane-d4 (S)	%.			102	75-125	
4-Bromofluorobenzene (S)	%.			99	75-125	
Toluene-d8 (S)	%.			101	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3660493 3660494

Parameter	Units	10523038001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	19.1	18.0	95	90	71-128	6	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	19.2	19.0	96	95	75-144	1	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	18.2	18.1	91	90	63-125	1	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	19.1	18.4	96	92	75-125	4	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	20	21.0	20.6	103	101	69-141	2	30	
1,1-Dichloroethane	ug/L	1.6	20	20	20.9	20.0	96	92	68-125	4	30	
1,1-Dichloroethene	ug/L	ND	20	20	20.1	19.2	98	94	62-135	5	30	
1,1-Dichloropropene	ug/L	ND	20	20	20.8	20.0	104	100	61-147	4	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	19.5	20.2	97	100	59-145	3	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	18.7	17.8	93	89	69-125	5	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	19.7	20.8	98	103	59-144	5	30	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	19.2	20.1	96	101	56-139	4	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	46.6	46.5	93	93	64-125	0	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	18.8	18.3	94	91	71-125	3	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	18.5	19.1	92	96	74-125	3	30	
1,2-Dichloroethane	ug/L	ND	20	20	18.7	17.9	94	89	64-125	5	30	
1,2-Dichloropropane	ug/L	ND	20	20	18.2	17.8	91	89	63-125	2	30	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	18.8	19.5	94	97	63-132	3	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	18.8	19.6	94	98	74-125	4	30	
1,3-Dichloropropane	ug/L	ND	20	20	17.9	18.7	90	93	75-125	4	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	19.4	19.9	97	99	73-125	2	30	
2,2-Dichloropropane	ug/L	ND	20	20	19.8	19.3	99	96	64-145	3	30	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3660493 3660494

Parameter	Units	10523038001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Butanone (MEK)	ug/L	ND	100	100	79.7	75.8	80	76	39-125	5	30	
2-Chlorotoluene	ug/L	ND	20	20	19.0	19.7	95	98	68-128	4	30	
4-Chlorotoluene	ug/L	ND	20	20	18.7	18.7	94	94	71-128	0	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	94.2	91.6	94	92	65-125	3	30	
Acetone	ug/L	ND	100	100	60.7	58.4	61	58	32-133	4	30	
Allyl chloride	ug/L	ND	20	20	19.1	18.3	96	91	61-125	4	30	
Benzene	ug/L	ND	20	20	19.1	18.3	96	92	63-125	4	30	
Bromobenzene	ug/L	ND	20	20	19.0	18.5	95	93	75-125	2	30	
Bromochloromethane	ug/L	ND	20	20	19.5	19.5	98	98	67-125	0	30	
Bromodichloromethane	ug/L	ND	20	20	18.3	18.3	92	91	67-139	0	30	
Bromoform	ug/L	ND	20	20	19.9	19.6	99	98	75-125	1	30	
Bromomethane	ug/L	ND	20	20	22.4	20.5	112	102	50-150	9	30	2M,5M
Carbon tetrachloride	ug/L	ND	20	20	20.0	19.6	100	98	70-148	2	30	
Chlorobenzene	ug/L	ND	20	20	18.6	18.4	93	92	75-125	1	30	
Chloroethane	ug/L	ND	20	20	19.8	19.5	99	98	62-142	1	30	
Chloroform	ug/L	ND	20	20	17.4	17.2	87	86	67-125	1	30	
Chloromethane	ug/L	ND	20	20	20.2	18.7	101	94	43-140	7	30	
cis-1,2-Dichloroethene	ug/L	4.7	20	20	23.7	23.1	95	92	64-134	2	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	18.7	18.5	94	93	68-129	1	30	
Dibromochloromethane	ug/L	ND	20	20	18.6	18.2	93	91	71-137	2	30	
Dibromomethane	ug/L	ND	20	20	18.8	19.0	94	95	66-130	1	30	
Dichlorodifluoromethane	ug/L	ND	20	20	21.3	20.8	106	104	61-144	2	30	
Dichlorofluoromethane	ug/L	ND	20	20	19.5	19.0	97	95	68-125	2	30	
Diethyl ether (Ethyl ether)	ug/L	ND	20	20	18.4	17.0	92	85	57-127	8	30	
Ethylbenzene	ug/L	ND	20	20	19.6	19.5	98	97	66-128	0	30	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	23.0	21.0	115	105	52-150	9	30	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	19.8	20.2	99	101	73-138	2	30	
m&p-Xylene	ug/L	ND	40	40	39.5	39.9	99	100	62-133	1	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	18.2	18.0	91	90	60-125	1	30	
Methylene Chloride	ug/L	ND	20	20	18.9	18.3	95	91	59-125	3	30	
n-Butylbenzene	ug/L	ND	20	20	21.1	21.3	106	107	68-146	1	30	
n-Propylbenzene	ug/L	ND	20	20	20.3	19.9	102	100	72-132	2	30	
Naphthalene	ug/L	ND	20	20	20.3	21.2	101	105	55-135	4	30	
o-Xylene	ug/L	ND	20	20	19.8	19.3	99	97	66-128	3	30	
p-Isopropyltoluene	ug/L	ND	20	20	19.3	20.6	96	103	69-139	7	30	
sec-Butylbenzene	ug/L	ND	20	20	20.3	20.8	101	104	69-149	2	30	
Styrene	ug/L	ND	20	20	19.7	19.3	98	96	75-126	2	30	
tert-Butylbenzene	ug/L	ND	20	20	19.4	20.6	97	103	67-147	6	30	
Tetrachloroethene	ug/L	6.4	20	20	25.9	25.7	98	96	70-141	1	30	
Tetrahydrofuran	ug/L	ND	200	200	187	189	94	94	64-128	1	30	
Toluene	ug/L	ND	20	20	18.8	18.3	94	91	64-125	3	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	20.2	18.8	97	90	62-135	7	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	19.0	18.4	95	92	69-125	3	30	
Trichloroethene	ug/L	14.8	20	20	33.5	33.3	94	93	69-141	1	30	

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(612)607-1700

QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3660493 3660494

Parameter	Units	10523038001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Trichlorofluoromethane	ug/L	ND	20	20	20.4	20.1	102	100	61-148	2	30	
Vinyl chloride	ug/L	ND	20	20	19.4	18.4	97	92	56-144	5	30	
Xylene (Total)	ug/L	ND	60	60	59.4	59.2	99	99	64-131	0	30	
1,2-Dichloroethane-d4 (S)	%.						99	102	75-125			
4-Bromofluorobenzene (S)	%.						100	100	75-125			
Toluene-d8 (S)	%.						101	100	75-125			

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

QC Batch: 684509
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260D MSV 465 W
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10523060008

METHOD BLANK: 3661486 Matrix: Water
Associated Lab Samples: 10523060008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	07/01/20 11:56	
1,1,1-Trichloroethane	ug/L	ND	1.0	07/01/20 11:56	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	07/01/20 11:56	
1,1,2-Trichloroethane	ug/L	ND	1.0	07/01/20 11:56	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	07/01/20 11:56	
1,1-Dichloroethane	ug/L	ND	1.0	07/01/20 11:56	
1,1-Dichloroethene	ug/L	ND	1.0	07/01/20 11:56	
1,1-Dichloropropene	ug/L	ND	1.0	07/01/20 11:56	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	07/01/20 11:56	
1,2,3-Trichloropropane	ug/L	ND	4.0	07/01/20 11:56	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	07/01/20 11:56	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	07/01/20 11:56	
1,2-Dibromo-3-chloropropane	ug/L	ND	10.0	07/01/20 11:56	MN
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	07/01/20 11:56	
1,2-Dichlorobenzene	ug/L	ND	1.0	07/01/20 11:56	
1,2-Dichloroethane	ug/L	ND	1.0	07/01/20 11:56	
1,2-Dichloropropane	ug/L	ND	4.0	07/01/20 11:56	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	07/01/20 11:56	
1,3-Dichlorobenzene	ug/L	ND	1.0	07/01/20 11:56	
1,3-Dichloropropane	ug/L	ND	1.0	07/01/20 11:56	
1,4-Dichlorobenzene	ug/L	ND	1.0	07/01/20 11:56	
2,2-Dichloropropane	ug/L	ND	4.0	07/01/20 11:56	
2-Butanone (MEK)	ug/L	ND	5.0	07/01/20 11:56	1M
2-Chlorotoluene	ug/L	ND	1.0	07/01/20 11:56	
4-Chlorotoluene	ug/L	ND	1.0	07/01/20 11:56	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	07/01/20 11:56	1M
Acetone	ug/L	ND	20.0	07/01/20 11:56	
Allyl chloride	ug/L	ND	4.0	07/01/20 11:56	
Benzene	ug/L	ND	1.0	07/01/20 11:56	
Bromobenzene	ug/L	ND	1.0	07/01/20 11:56	
Bromochloromethane	ug/L	ND	1.0	07/01/20 11:56	
Bromodichloromethane	ug/L	ND	1.0	07/01/20 11:56	
Bromoform	ug/L	ND	4.0	07/01/20 11:56	
Bromomethane	ug/L	ND	4.0	07/01/20 11:56	3M
Carbon tetrachloride	ug/L	ND	1.0	07/01/20 11:56	
Chlorobenzene	ug/L	ND	1.0	07/01/20 11:56	
Chloroethane	ug/L	ND	1.0	07/01/20 11:56	
Chloroform	ug/L	ND	1.0	07/01/20 11:56	
Chloromethane	ug/L	ND	4.0	07/01/20 11:56	
cis-1,2-Dichloroethene	ug/L	ND	1.0	07/01/20 11:56	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

METHOD BLANK: 3661486 Matrix: Water
Associated Lab Samples: 10523060008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	4.0	07/01/20 11:56	
Dibromochloromethane	ug/L	ND	1.0	07/01/20 11:56	
Dibromomethane	ug/L	ND	4.0	07/01/20 11:56	
Dichlorodifluoromethane	ug/L	ND	1.0	07/01/20 11:56	
Dichlorofluoromethane	ug/L	ND	1.0	07/01/20 11:56	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	07/01/20 11:56	
Ethylbenzene	ug/L	ND	1.0	07/01/20 11:56	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	07/01/20 11:56	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	07/01/20 11:56	
m&p-Xylene	ug/L	ND	2.0	07/01/20 11:56	
Methyl-tert-butyl ether	ug/L	ND	1.0	07/01/20 11:56	
Methylene Chloride	ug/L	ND	4.0	07/01/20 11:56	
n-Butylbenzene	ug/L	ND	1.0	07/01/20 11:56	
n-Propylbenzene	ug/L	ND	1.0	07/01/20 11:56	
Naphthalene	ug/L	ND	4.0	07/01/20 11:56	
o-Xylene	ug/L	ND	1.0	07/01/20 11:56	
p-Isopropyltoluene	ug/L	ND	1.0	07/01/20 11:56	
sec-Butylbenzene	ug/L	ND	1.0	07/01/20 11:56	
Styrene	ug/L	ND	1.0	07/01/20 11:56	
tert-Butylbenzene	ug/L	ND	1.0	07/01/20 11:56	
Tetrachloroethene	ug/L	ND	1.0	07/01/20 11:56	
Tetrahydrofuran	ug/L	ND	10.0	07/01/20 11:56	
Toluene	ug/L	ND	1.0	07/01/20 11:56	
trans-1,2-Dichloroethene	ug/L	ND	1.0	07/01/20 11:56	
trans-1,3-Dichloropropene	ug/L	ND	4.0	07/01/20 11:56	
Trichloroethene	ug/L	ND	0.40	07/01/20 11:56	
Trichlorofluoromethane	ug/L	ND	1.0	07/01/20 11:56	
Vinyl chloride	ug/L	ND	0.20	07/01/20 11:56	
Xylene (Total)	ug/L	ND	3.0	07/01/20 11:56	
1,2-Dichloroethane-d4 (S)	%.	98	75-125	07/01/20 11:56	
4-Bromofluorobenzene (S)	%.	93	75-125	07/01/20 11:56	
Toluene-d8 (S)	%.	92	75-125	07/01/20 11:56	

LABORATORY CONTROL SAMPLE: 3661487

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.0	105	75-128	
1,1,1-Trichloroethane	ug/L	20	18.8	94	75-128	
1,1,2,2-Tetrachloroethane	ug/L	20	18.7	93	69-129	
1,1,2-Trichloroethane	ug/L	20	19.9	100	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	18.9	94	74-125	
1,1-Dichloroethane	ug/L	20	19.2	96	75-125	
1,1-Dichloroethene	ug/L	20	18.1	91	65-125	
1,1-Dichloropropene	ug/L	20	19.5	97	69-131	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

LABORATORY CONTROL SAMPLE: 3661487

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichlorobenzene	ug/L	20	21.1	106	75-125	
1,2,3-Trichloropropane	ug/L	20	18.7	93	75-125	
1,2,4-Trichlorobenzene	ug/L	20	22.0	110	67-131	
1,2,4-Trimethylbenzene	ug/L	20	18.8	94	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	54.0	108	65-128	
1,2-Dibromoethane (EDB)	ug/L	20	21.3	106	75-125	
1,2-Dichlorobenzene	ug/L	20	20.5	103	75-125	
1,2-Dichloroethane	ug/L	20	19.2	96	74-125	
1,2-Dichloropropane	ug/L	20	19.7	99	68-125	
1,3,5-Trimethylbenzene	ug/L	20	18.2	91	75-125	
1,3-Dichlorobenzene	ug/L	20	20.9	105	75-125	
1,3-Dichloropropane	ug/L	20	21.9	110	75-125	
1,4-Dichlorobenzene	ug/L	20	21.7	108	75-125	
2,2-Dichloropropane	ug/L	20	20.2	101	70-133	
2-Butanone (MEK)	ug/L	100	124	124	62-142	2M
2-Chlorotoluene	ug/L	20	19.1	95	75-125	
4-Chlorotoluene	ug/L	20	18.8	94	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	133	133	75-125	2M,L3
Acetone	ug/L	100	100	100	47-150	
Allyl chloride	ug/L	20	20.5	102	65-125	
Benzene	ug/L	20	19.0	95	75-125	
Bromobenzene	ug/L	20	21.7	108	75-125	
Bromochloromethane	ug/L	20	19.3	97	75-125	
Bromodichloromethane	ug/L	20	21.1	106	75-128	
Bromoform	ug/L	20	20.2	101	75-125	
Bromomethane	ug/L	20	11.0	55	43-150	4M
Carbon tetrachloride	ug/L	20	18.8	94	75-127	
Chlorobenzene	ug/L	20	20.3	101	75-125	
Chloroethane	ug/L	20	18.1	90	72-130	
Chloroform	ug/L	20	17.9	89	75-125	
Chloromethane	ug/L	20	17.8	89	55-128	
cis-1,2-Dichloroethene	ug/L	20	19.9	99	75-125	
cis-1,3-Dichloropropene	ug/L	20	21.2	106	74-132	
Dibromochloromethane	ug/L	20	20.4	102	75-125	
Dibromomethane	ug/L	20	22.2	111	71-137	
Dichlorodifluoromethane	ug/L	20	21.3	106	69-126	
Dichlorofluoromethane	ug/L	20	19.4	97	75-125	
Diethyl ether (Ethyl ether)	ug/L	20	16.8	84	72-125	
Ethylbenzene	ug/L	20	19.2	96	75-125	
Hexachloro-1,3-butadiene	ug/L	20	21.5	108	74-129	
Isopropylbenzene (Cumene)	ug/L	20	20.5	103	75-125	
m&p-Xylene	ug/L	40	40.5	101	74-125	
Methyl-tert-butyl ether	ug/L	20	19.6	98	69-125	
Methylene Chloride	ug/L	20	16.2	81	72-125	
n-Butylbenzene	ug/L	20	18.9	94	75-128	
n-Propylbenzene	ug/L	20	18.5	92	75-125	
Naphthalene	ug/L	20	19.4	97	70-125	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

LABORATORY CONTROL SAMPLE: 3661487

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
o-Xylene	ug/L	20	21.0	105	75-125	
p-Isopropyltoluene	ug/L	20	19.0	95	75-125	
sec-Butylbenzene	ug/L	20	19.3	96	75-127	
Styrene	ug/L	20	20.9	105	75-125	
tert-Butylbenzene	ug/L	20	19.7	99	75-125	
Tetrachloroethene	ug/L	20	23.1	115	74-125	
Tetrahydrofuran	ug/L	200	191	95	73-132	
Toluene	ug/L	20	19.2	96	75-125	
trans-1,2-Dichloroethene	ug/L	20	18.2	91	69-125	
trans-1,3-Dichloropropene	ug/L	20	21.5	107	69-130	
Trichloroethene	ug/L	20	20.6	103	75-127	
Trichlorofluoromethane	ug/L	20	20.2	101	71-132	
Vinyl chloride	ug/L	20	17.5	87	65-128	
Xylene (Total)	ug/L	60	61.5	103	75-125	
1,2-Dichloroethane-d4 (S)	%.			97	75-125	
4-Bromofluorobenzene (S)	%.			93	75-125	
Toluene-d8 (S)	%.			95	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3661488 3661489

Parameter	Units	10523291001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.4	23.1	107	116	71-128	8	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	21.1	22.5	102	109	75-144	6	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.1	21.1	100	106	63-125	5	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	20.8	21.2	104	106	75-125	2	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	20	19.4	20.7	97	104	69-141	7	30	
1,1-Dichloroethane	ug/L	9.5	20	20	28.0	29.8	92	101	68-125	6	30	
1,1-Dichloroethene	ug/L	ND	20	20	17.0	18.5	85	93	62-135	8	30	
1,1-Dichloropropene	ug/L	ND	20	20	19.5	21.1	98	105	61-147	8	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	21.3	23.7	106	119	59-145	11	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	21.6	21.4	108	107	69-125	1	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	21.0	22.9	105	115	59-144	9	30	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	19.2	19.7	96	99	56-139	3	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	59.6	65.4	119	131	64-125	9	30	M1
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.8	22.4	109	112	71-125	3	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	20.5	21.6	102	108	74-125	5	30	
1,2-Dichloroethane	ug/L	ND	20	20	20.2	21.2	101	106	64-125	5	30	
1,2-Dichloropropane	ug/L	ND	20	20	18.9	20.2	94	101	63-125	7	30	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	18.8	19.9	94	99	63-132	6	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	21.0	22.1	105	110	74-125	5	30	
1,3-Dichloropropane	ug/L	ND	20	20	21.1	22.5	105	113	75-125	7	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	21.0	22.1	105	111	73-125	5	30	
2,2-Dichloropropane	ug/L	ND	20	20	18.0	19.8	90	99	64-145	9	30	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3661488 3661489

Parameter	Units	10523291001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Butanone (MEK)	ug/L	ND	100	100	134	140	134	140	39-125	4	30	2M,M1
2-Chlorotoluene	ug/L	ND	20	20	19.0	20.8	95	104	68-128	9	30	
4-Chlorotoluene	ug/L	ND	20	20	18.9	20.0	94	100	71-128	6	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	155	163	155	163	65-125	5	30	2M,M0
Acetone	ug/L	ND	100	100	60.6	65.0	61	65	32-133	7	30	
Allyl chloride	ug/L	ND	20	20	20.0	21.2	100	106	61-125	6	30	
Benzene	ug/L	ND	20	20	18.7	19.7	94	98	63-125	5	30	
Bromobenzene	ug/L	ND	20	20	21.1	23.0	105	115	75-125	9	30	
Bromochloromethane	ug/L	ND	20	20	20.5	20.4	103	102	67-125	1	30	
Bromodichloromethane	ug/L	ND	20	20	21.9	22.4	109	112	67-139	3	30	
Bromoform	ug/L	ND	20	20	22.0	23.1	110	116	75-125	5	30	
Bromomethane	ug/L	ND	20	20	6.0	8.3	30	42	50-150	32	30	4M, M1,R1
Carbon tetrachloride	ug/L	ND	20	20	19.8	22.2	99	111	70-148	12	30	
Chlorobenzene	ug/L	ND	20	20	20.0	20.7	100	104	75-125	3	30	
Chloroethane	ug/L	ND	20	20	17.3	17.3	86	87	62-142	0	30	
Chloroform	ug/L	ND	20	20	17.7	19.0	89	95	67-125	7	30	
Chloromethane	ug/L	ND	20	20	18.1	18.6	90	93	43-140	3	30	
cis-1,2-Dichloroethene	ug/L	43.6	20	20	61.6	64.1	90	102	64-134	4	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	20.4	21.5	102	108	68-129	5	30	
Dibromochloromethane	ug/L	ND	20	20	20.9	22.8	105	114	71-137	9	30	
Dibromomethane	ug/L	ND	20	20	22.5	24.3	113	122	66-130	8	30	
Dichlorodifluoromethane	ug/L	ND	20	20	22.6	23.3	113	116	61-144	3	30	
Dichlorofluoromethane	ug/L	ND	20	20	19.7	20.5	99	103	68-125	4	30	
Diethyl ether (Ethyl ether)	ug/L	ND	20	20	16.7	17.7	83	88	57-127	6	30	
Ethylbenzene	ug/L	ND	20	20	19.2	20.0	96	100	66-128	4	30	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	22.7	24.4	114	122	52-150	7	30	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	20.8	22.2	104	111	73-138	6	30	
m&p-Xylene	ug/L	ND	40	40	38.7	40.9	97	102	62-133	6	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	19.9	21.2	100	106	60-125	6	30	
Methylene Chloride	ug/L	ND	20	20	15.3	16.1	77	80	59-125	5	30	
n-Butylbenzene	ug/L	ND	20	20	18.8	20.4	94	102	68-146	9	30	
n-Propylbenzene	ug/L	ND	20	20	18.3	20.0	91	100	72-132	9	30	
Naphthalene	ug/L	ND	20	20	20.6	22.9	103	114	55-135	10	30	
o-Xylene	ug/L	ND	20	20	20.1	22.4	101	112	66-128	11	30	
p-Isopropyltoluene	ug/L	ND	20	20	18.9	20.6	95	103	69-139	9	30	
sec-Butylbenzene	ug/L	ND	20	20	19.0	20.9	95	104	69-149	9	30	
Styrene	ug/L	ND	20	20	20.9	21.7	104	109	75-126	4	30	
tert-Butylbenzene	ug/L	ND	20	20	20.3	21.4	102	107	67-147	5	30	
Tetrachloroethene	ug/L	200	20	20	224	228	121	140	70-141	2	30	
Tetrahydrofuran	ug/L	ND	200	200	180	181	90	90	64-128	0	30	
Toluene	ug/L	ND	20	20	18.5	19.6	92	98	64-125	6	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	19.1	20.7	93	100	62-135	8	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	21.3	21.7	106	109	69-125	2	30	

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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3661488 3661489

Parameter	Units	10523291001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Trichloroethene	ug/L	77.4	20	20	93.5	95.5	80	91	69-141	2	30	
Trichlorofluoromethane	ug/L	ND	20	20	21.1	22.3	106	112	61-148	5	30	
Vinyl chloride	ug/L	1.4	20	20	17.8	18.6	82	86	56-144	4	30	
Xylene (Total)	ug/L	ND	60	60	58.8	63.2	98	105	64-131	7	30	
1,2-Dichloroethane-d4 (S)	%.						101	104	75-125			
4-Bromofluorobenzene (S)	%.						93	93	75-125			
Toluene-d8 (S)	%.						96	95	75-125			

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

QC Batch: 683800
QC Batch Method: EPA 3550C
Analysis Method: EPA 8270E by SIM
Analysis Description: 8270E Solid PAH by SIM MSSV
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10523060001, 10523060002, 10523060003, 10523060004, 10523060005

METHOD BLANK: 3658592 Matrix: Solid
Associated Lab Samples: 10523060001, 10523060002, 10523060003, 10523060004, 10523060005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/kg	ND	10.0	06/29/20 11:36	
Acenaphthylene	ug/kg	ND	10.0	06/29/20 11:36	
Anthracene	ug/kg	ND	10.0	06/29/20 11:36	
Benzo(a)anthracene	ug/kg	ND	10.0	06/29/20 11:36	
Benzo(a)pyrene	ug/kg	ND	10.0	06/29/20 11:36	
Benzo(b)fluoranthene	ug/kg	ND	10.0	06/29/20 11:36	
Benzo(g,h,i)perylene	ug/kg	ND	10.0	06/29/20 11:36	
Benzo(k)fluoranthene	ug/kg	ND	10.0	06/29/20 11:36	
Chrysene	ug/kg	ND	10.0	06/29/20 11:36	
Dibenz(a,h)anthracene	ug/kg	ND	10.0	06/29/20 11:36	
Fluoranthene	ug/kg	ND	10.0	06/29/20 11:36	
Fluorene	ug/kg	ND	10.0	06/29/20 11:36	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	10.0	06/29/20 11:36	
Naphthalene	ug/kg	ND	10.0	06/29/20 11:36	
Phenanthrene	ug/kg	ND	10.0	06/29/20 11:36	
Pyrene	ug/kg	ND	10.0	06/29/20 11:36	
2-Fluorobiphenyl (S)	%.	65	30-138	06/29/20 11:36	
p-Terphenyl-d14 (S)	%.	83	30-143	06/29/20 11:36	

LABORATORY CONTROL SAMPLE: 3658593

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/kg	33.3	20.2	61	49-125	
Acenaphthylene	ug/kg	33.3	21.4	64	53-125	
Anthracene	ug/kg	33.3	23.3	70	59-125	
Benzo(a)anthracene	ug/kg	33.3	25.6	77	58-125	
Benzo(a)pyrene	ug/kg	33.3	25.2	76	64-125	
Benzo(b)fluoranthene	ug/kg	33.3	26.8	81	61-125	
Benzo(g,h,i)perylene	ug/kg	33.3	25.6	77	64-125	
Benzo(k)fluoranthene	ug/kg	33.3	26.4	79	62-125	
Chrysene	ug/kg	33.3	26.3	79	65-125	
Dibenz(a,h)anthracene	ug/kg	33.3	27.4	82	63-125	
Fluoranthene	ug/kg	33.3	26.9	81	68-125	
Fluorene	ug/kg	33.3	22.8	69	54-125	
Indeno(1,2,3-cd)pyrene	ug/kg	33.3	26.8	80	63-125	
Naphthalene	ug/kg	33.3	19.2	58	45-125	
Phenanthrene	ug/kg	33.3	24.0	72	63-125	
Pyrene	ug/kg	33.3	26.2	79	65-125	
2-Fluorobiphenyl (S)	%.			68	30-138	

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(612)607-1700

QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

LABORATORY CONTROL SAMPLE: 3658593

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
p-Terphenyl-d14 (S)	%.			82	30-143	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3658594 3658595

Parameter	Units	10522386001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	ug/kg	<0.45	33.2	33.2	17.7	13.1	53	39	30-125	30	30	
Acenaphthylene	ug/kg	<0.68	33.2	33.2	19.3	14.2	58	43	30-150	31	30	R1
Anthracene	ug/kg	<0.32	33.2	33.2	19.0	16.3	57	49	30-150	16	30	
Benzo(a)anthracene	ug/kg	0.53J	33.2	33.2	20.4	17.5	60	51	30-150	15	30	
Benzo(a)pyrene	ug/kg	<0.56	33.2	33.2	19.7	16.7	59	50	30-150	16	30	
Benzo(b)fluoranthene	ug/kg	<0.46	33.2	33.2	20.8	18.9	63	57	30-150	10	30	
Benzo(g,h,i)perylene	ug/kg	<0.46	33.2	33.2	19.1	15.7	57	47	30-150	20	30	
Benzo(k)fluoranthene	ug/kg	<0.48	33.2	33.2	19.9	17.4	60	52	30-150	14	30	
Chrysene	ug/kg	0.47J	33.2	33.2	20.6	18.1	61	53	30-150	13	30	
Dibenz(a,h)anthracene	ug/kg	<0.66	33.2	33.2	19.4	16.8	58	50	30-147	14	30	
Fluoranthene	ug/kg	0.82J	33.2	33.2	22.6	20.1	66	58	30-150	12	30	
Fluorene	ug/kg	<0.60	33.2	33.2	19.2	14.4	58	43	30-150	28	30	
Indeno(1,2,3-cd)pyrene	ug/kg	<0.53	33.2	33.2	19.4	16.8	58	50	30-150	14	30	
Naphthalene	ug/kg	<0.45	33.2	33.2	19.3	12.7	58	38	30-141	41	30	R1
Phenanthrene	ug/kg	<0.70	33.2	33.2	20.0	17.5	60	53	30-150	13	30	
Pyrene	ug/kg	<0.65	33.2	33.2	22.1	18.1	65	53	30-150	20	30	
2-Fluorobiphenyl (S)	%.						64	50	30-138			
p-Terphenyl-d14 (S)	%.						74	69	30-143			

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

QC Batch: 684043
QC Batch Method: WI MOD DRO
Analysis Method: WI MOD DRO
Analysis Description: WIDRO GCS
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10523060002, 10523060004

METHOD BLANK: 3659454 Matrix: Solid
Associated Lab Samples: 10523060002, 10523060004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
WDRO C10-C28	mg/kg	ND	10.0	06/30/20 10:25	
n-Triacontane (S)	%.	96	50-150	06/30/20 10:25	

LABORATORY CONTROL SAMPLE & LCSD: 3659455 3659456

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
WDRO C10-C28	mg/kg	80	70.0	85.8	87	107	70-120	20	20	
n-Triacontane (S)	%.				87	99	50-150			

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

QC Batch: 683684
QC Batch Method: WI MOD DRO
Analysis Method: WI MOD DRO
Analysis Description: WIDRO Low Volume GCS
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10523060006

METHOD BLANK: 3657716 Matrix: Water
Associated Lab Samples: 10523060006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
WDRO C10-C28	mg/L	ND	0.10	06/30/20 09:04	
n-Triacontane (S)	%.	102	50-150	06/30/20 09:04	

LABORATORY CONTROL SAMPLE & LCSD: 3657717 3657718

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
WDRO C10-C28	mg/L	0.8	0.75	0.79	94	99	75-115	6	20	
n-Triacontane (S)	%.				106	109	50-150			

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

QC Batch: 685185
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10523060006

METHOD BLANK: 3664784 Matrix: Water
Associated Lab Samples: 10523060006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	07/07/20 11:23	FS

LABORATORY CONTROL SAMPLE: 3664785

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	1	1.1	106	90-110	FS

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3664786 3664787

Parameter	Units	10523354005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	ND	1	1	1.0	1.0	104	103	90-110	1	20	FS

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3664788 3664789

Parameter	Units	10523366001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	ND	1	1	1.1	1.1	107	107	90-110	0	20	FS

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QUALIFIERS

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1M	The continuing calibration for this analyte exceeded 20% difference acceptance criteria for EPA method. Analyte presence below reporting limits in associated samples. No impact to data.
2M	The continuing calibration for this analyte exceeded 20% difference acceptance criteria for EPA method. The result may be biased high.
3M	The continuing calibration for this analyte is below 20% difference acceptance criteria for EPA method 8260D but within 50% of the true value. Instrument sensitivity verified with reporting limit check.
4M	The continuing calibration for this analyte is below 20% difference acceptance criteria for EPA method 8260D but within 50% of the true value. The result may be biased low.
5M	This analyte did not meet the secondary source verification criteria for the initial calibration. Analyte recovery exceeded the 130% upper control limit at 134%. Results may be biased high.
FS	The sample was filtered in the laboratory prior to analysis.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MN	The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
R1	RPD value was outside control limits.
T6	High boiling point hydrocarbons are present in the sample.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B1903316.00 Hillcrest
Pace Project No.: 10523060

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10523060006	**SB-1 (TW)**	EPA 351.2	192852	EPA 351.2	193010
10523060002	**TT-7 (3-5)**	WI MOD DRO	684043	WI MOD DRO	684237
10523060004	**TT-1 (6-7)**	WI MOD DRO	684043	WI MOD DRO	684237
10523060006	**SB-1 (TW)**	WI MOD DRO	683684	WI MOD DRO	683933
10523060004	**TT-1 (6-7)**	EPA 5030 Medium Soil	683947	WI MOD GRO	684528
10523060007	**MeOH Trip Blank**	EPA 5030 Medium Soil	683947	WI MOD GRO	684528
10523060006	**SB-1 (TW)**	WI MOD GRO	683946		
10523060008	**HCL Trip Blank**	WI MOD GRO	683946		
10523060001	**SB-5 (.5-1.5)**	EPA 3050B	683844	EPA 6010D	684086
10523060002	**TT-7 (3-5)**	EPA 3050B	683844	EPA 6010D	684086
10523060003	**TT-9 (3-5)**	EPA 3050B	683844	EPA 6010D	684086
10523060004	**TT-1 (6-7)**	EPA 3050B	683844	EPA 6010D	684086
10523060005	**Dup-20-06252020**	EPA 3050B	683844	EPA 6010D	684086
10523060001	**SB-5 (.5-1.5)**	EPA 7471B	683849	EPA 7471B	684104
10523060002	**TT-7 (3-5)**	EPA 7471B	683849	EPA 7471B	684104
10523060003	**TT-9 (3-5)**	EPA 7471B	683849	EPA 7471B	684104
10523060004	**TT-1 (6-7)**	EPA 7471B	683849	EPA 7471B	684104
10523060005	**Dup-20-06252020**	EPA 7471B	683849	EPA 7471B	684104
10523060001	**SB-5 (.5-1.5)**	ASTM D2974	685296		
10523060002	**TT-7 (3-5)**	ASTM D2974	685296		
10523060003	**TT-9 (3-5)**	ASTM D2974	685296		
10523060004	**TT-1 (6-7)**	ASTM D2974	685296		
10523060005	**Dup-20-06252020**	ASTM D2974	685296		
10523060001	**SB-5 (.5-1.5)**	EPA 3550C	683800	EPA 8270E by SIM	683965
10523060002	**TT-7 (3-5)**	EPA 3550C	683800	EPA 8270E by SIM	683965
10523060003	**TT-9 (3-5)**	EPA 3550C	683800	EPA 8270E by SIM	683965
10523060004	**TT-1 (6-7)**	EPA 3550C	683800	EPA 8270E by SIM	683965
10523060005	**Dup-20-06252020**	EPA 3550C	683800	EPA 8270E by SIM	683965
10523060001	**SB-5 (.5-1.5)**	EPA 5035/5030B	684065	EPA 8260D	685308
10523060002	**TT-7 (3-5)**	EPA 5035/5030B	684065	EPA 8260D	685308
10523060003	**TT-9 (3-5)**	EPA 5035/5030B	684065	EPA 8260D	685308
10523060004	**TT-1 (6-7)**	EPA 5035/5030B	684065	EPA 8260D	685308
10523060005	**Dup-20-06252020**	EPA 5035/5030B	684065	EPA 8260D	685308
10523060007	**MeOH Trip Blank**	EPA 5035/5030B	684065	EPA 8260D	685308
10523060006	**SB-1 (TW)**	EPA 8260D	684261		
10523060008	**HCL Trip Blank**	EPA 8260D	684509		
10523060006	**SB-1 (TW)**	EPA 353.2	685185		

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CHAIN-OF-CUSTODY

The Chain-of-Custody is a LEGAL DOCI

WO# : 10523060

10523060

: 1 of 1

2277780

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Inform.
Company: Braun Intertec	Report To: Mark Keefer	Attention:
Address: 11001 Hampshire Ave S Bloomington MN 55438	Copy To:	Company Name:
		Address: Same
Email To: MKeefer@braunintertec.com	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name: Hillcrest	Pace Project Manager:
Requested Due Date/TAT: STD	Project Number: B1903316.00	Pace Profile #: 34125

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MN

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	RCRA Metals	PAHs	VOCs	DRO	GRO	Nitrate/Nitrite	TKN	Fungicides	List 2 Pesticides	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SB-5 (.5-1.5)	SL	G			6/25/20	1019		4	2						2			X	X	X								w1
2	TT-7 (3-5)	↓	↓			↓	1201		6	4						2			X	X	X	X							w2
3	TT-9 (3-5)	↓	↓			↓	1413		4	2						2			X	X	X								w7
4	TT-1 (6-7)	↓	↓			6/24/20	1645		8	4						4			X	X	X	X	X						w4
5	DUP-20-06252020	↓	C			6/25/20	1200		4	2						2			X	X	X								w5
6	SB-1 (TW)	WT	G			6/24/20	1253		13	3	2		8								X	X	X	X	X	X	X		w6
7	MeOH Trip blank								2							2					X		X						w7
8	HCL Trip blank								2				2								X		X						w8
9																													
10																													
11																													
12																													

Temp 0.3 0.7

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Gorham Hanson/Braun	6/25/20	16:35	[signature] Pace	6/25/2020	16:35	2.8 4.8	Y	N	Y
	[signature] Pace	6/25/2020	16:35	[signature] Pace	6/26/20	950				
	[signature] / Pace	6/26/20	1050	[signature] Pace	6/26	1850	4.3	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Gorham Hanson

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 6/25/20

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-C-010-rev.00, 09Nov2017

Pace Analytical®	Document Name: **Sample Condition Upon Receipt (SCUR) - MN**	Document Revised: 27Mar2020 **Page 1 of 1**
	Document No.: **ENV-FRM-MIN4-0150 Rev.00**	Pace Analytical Services - **Minneapolis**

Sample Condition Upon Receipt

Client Name: Braun Intertec

Project #: **WO# : 10523060**

PM: BM2 **Due Date: 07/06/20**

CLIENT: Braun-BLM

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☒ Pace ☐ SpeeDee ☐ Commercial **See Exceptions** ☐

Tracking Number:

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No **Biological Tissue Frozen?** ☐ Yes ☐ No ☒ N/A

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☒ Other: blo **Temp Blank?** ☒ Yes ☐ No

Thermometer: ☐ T1(0461) ☐ T2(1336) ☐ T3(0459) ☐ T4(0254) ☒ T5(0489) **Type of Ice:** ☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted

Did Samples Originate in West Virginia? ☐ Yes ☒ No **Were All Container Temps Taken?** ☐ Yes ☐ No ☒ N/A

Temp should be above freezing to 6°C **Cooler Temp Read w/temp blank:** 4.3 / 2.9 °C

Average Corrected Temp (no temp blank only): ☐ See Exceptions ☐ 1 Container °C

Correction Factor: true **Cooler Temp Corrected w/temp blank :** 4.3 / 2.9 °C

USDA Regulated Soil: (☐ N/A, water sample/Other:)

Date/Initials of Person Examining Contents: MK4 6/26/20

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☒ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present and Filled Out?	☒ Yes	☐ No		1.
Chain of Custody Relinquished?	☒ Yes	☐ No		2.
Sampler Name and/or Signature on COC?	☒ Yes	☐ No	☐ N/A	3.
Samples Arrived within Hold Time?	☒ Yes	☐ No		4.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No		5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other
Rush Turn Around Time Requested?	☐ Yes	☒ No		6.
Sufficient Volume?	☒ Yes	☐ No		7.
Correct Containers Used?	☒ Yes	☐ No		8.
-Pace Containers Used?	☒ Yes	☐ No		
Containers Intact?	☒ Yes	☐ No		9.
Field Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☒ N/A	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Is sufficient information available to reconcile the samples to the COC?	☒ Yes	☐ No		11. **If no, write ID/ Date/Time on Container Below:** **See Exception** ☒
Matrix: ☒ Water ☒ Soil ☐ Oil ☐ Other				
All containers needing acid/base preservation have been checked?	☒ Yes	☐ No	☐ N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide)	☒ Yes	☐ No	☐ N/A	☐ NaOH ☐ HNO_3 ☒ H_2SO_4 (6) (1/1) ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☒ Yes	☐ No	☐ N/A	Positive for Res. Chlorine? ☐ Yes ☐ No **pH Paper Lot#** **See Exception** ☐
				Res. Chlorine: 0-6 Roll 203619 / 0-6 Strip / 0-14 Strip
Extra labels present on soil VOA or WIDRO containers?	☐ Yes	☐ No	☐ N/A	13. **See Exception** ☐
Headspace in VOA Vials (greater than 6mm)?	☐ Yes	☒ No	☐ N/A	
Trip Blank Present?	☒ Yes	☐ No	☐ N/A	14. 051120-3 (2)
Trip Blank Custody Seals Present?	☒ Yes	☐ No	☐ N/A	Pace Trip Blank Lot # (if purchased): ~~259716~~ (2)

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: BK M **Date:** 6/29/2020

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: CW (2)

SCUR Exceptions:

Workorder #:

Out of Temp Sample IDs	Container Type	# of Containers

PM Notified? ☐Yes ☐No

If yes, indicate who was contacted/date/time.
If no, indicate reason why.

Multiple Cooler Project? ☐Yes ☐No
If you answered yes, fill out information to the left.

No Temp Blank		
Read Temp	Corrected Temp	Average Temp

Tracking Number/Temperature	

Issue Type: Sample ID	Container Type	# of Containers

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preserv.	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition?	Initials
								☐Yes ☐No	
								☐Yes ☐No	
								☐Yes ☐No	
								☐Yes ☐No	

Comments:

-Every soil sample has a DWC (unlabeled) that was not included on the CoC.
- TT7 (3-5) has 4 containers and the CoC has 6 listed.
- TT9 (3-5) has 6 containers and the CoC has 4 listed.

Service Center Transfer Checklist

Service Center: MPLS ☐ BLM ☒ AZ ☐

Client: Braun Intertec

Destination Lab: MPLS ☒ VM ☐ Duluth ☐

National ☐ Other _____

Received w/ Custody Seal ? Yes ☐ No ☒

Custody Seal Intact ? Yes ☐ No ☒

	Temp Read	Corr. Factor	Corr. Temp
Temperature °C	2.7/4.7	+0.1	2.8/4.8

IR Gun: B88A0143310092 ☐ Samples on ice, in cool down

Rush ☐ **Short Hold** ☐ **N/A** ☒

Containers Intact ? Yes ☒ No ☐

Repacked and Re-Iced ? Yes ☒ No ☐

Notes: _____

Chain of Custody

A202704

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☐ Samples were sent directly to the Subcontracting Laboratory.

State Of Origin: MN
Cert. Needed: ☒ Yes ☐ No

Workorder: 10523060 **Workorder Name:** B1903316.00 Hillcrest
Owner Received Date: 6/26/2020 **Results Requested By:** 7/13/2020

Report To	Subcontract To
Bob Michels Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)709-5046	Pace Analytical Madison 2525 Advance Road Madison, WI 53718 Phone (608)221-8700

						Preserved Containers						Requested Analysis													
						AG1U						MDA List 2 Pesticides													
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Unpreserved																			LAB USE ONLY
1	SB-1 (TW)	PS	6/24/2020 12:53	10523060006	Water	2						X													01
2																									
3																									
4																									
5																									

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	6/29/20 6:45	[signature]	6/30/20 0924
2				
3				

Comments

Cooler Temperature on Receipt 1.9 °C | **Custody Seal** (Y) or N | **Received on Ice** (Y) or N | **Samples Intact** (Y) or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.*
This chain of custody is considered complete as is since this information is available in the owner laboratory.

Thermometer
160142274
LRP 12/19/20

20034

Chain of Custody

PASI Minnesota Laboratory

Pace Analytical®
www.pacelabs.com

Workorder: 10523060 **Workorder Name:** B1903316.00 Hillcrest **Results Requested By:** 7/13/2020

Report / Invoice To	Subcontract To
Bob Michels Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)709-5046 Email: bob.michels@pacelabs.com	P.O. 10523060 Synergistic Pesticide Laboratory, LLC 2700 N Hayden Isdland Dr Portland, OR 97217 503-641-0500

State of Sample Origin: MN

JGFU

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved						Requested Analysis: ** Fungicides												LAB USE ONLY
1	SB-1 (TW)	6/24/2020 12:53	10523060006	Water	1						X												20034 01
2																							
3																							
4																							
5																							

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature] Pace	6/29/20	[signature] SPL	6/30/20 1024
2				
3				

Comments

**Analyze for chlorothalonil, propiconazole, iprodione.

Cooler Temperature on Receipt 1.4 °C | Custody Seal (Y) or N | Received on Ice (Y) or N | Samples Intact Y or N

Synergistic Pesticide Laboratory, LLC
Sample Receipt Checklist

Project # 20 034
Date 6/30/20
Initials CH

Client Pace - Minnesota

Method of Arrival: UPS (FedEx) USPS client delivered courier lab other
Tracking # 1320 7522 7914

Custody Seals Present: (Y) N
If yes: transport container (sample container) Signed: See back
Date: 6/29

Temperature (°C): 1.4 (IR) digital

Type of coolant: (ice) blue/gel ice other none

Are all samples present?	(Y)	N
Are samples intact?	(Y)	N
Documentation provided?	(COC)	SS Form Email Letter PO None Other:_____
Does sample information match documentation?	(Y)	N NA
Is the documentation signed?	(Y)	N NA
Are the samples within hold time?	(Y)	N NA
Is the sampling date provided?	(Y)	N
Is there sufficient sample volume?	(Y)	N
Are the samples in appropriate containers?	(Y)	N
Do the containers originate from SPL?	Y	(N)

Sample Description:

#	Matrix	#	Container
1	BB CHRY FRESH EXT PREP OTHER:_____ RBB BLK IQF FLR (H2O) SOIL STRW RSP CANNED OIL FOLIAGE/TISSUE:_____	1	ZL-GAL WP-LG MY-LG POLY VIAL (1L AMB) 8OZ JAR ZL-SM WP-SM MY-SM GL VIAL 1 GAL POLY 4OZ JAR OTHER:_____ SYR WAX CENT TUBE SOIL BAG
	BB CHRY FRESH EXT PREP OTHER:_____ RBB BLK IQF FLR H2O SOIL STRW RSP CANNED OIL FOLIAGE/TISSUE:_____		ZL-GAL WP-LG MY-LG POLY VIAL 1L AMB 8OZ JAR ZL-SM WP-SM MY-SM GL VIAL 1 GAL POLY 4OZ JAR OTHER:_____ SYR WAX CENT TUBE SOIL BAG
	BB CHRY FRESH EXT PREP OTHER:_____ RBB BLK IQF FLR H2O SOIL STRW RSP CANNED OIL FOLIAGE/TISSUE:_____		ZL-GAL WP-LG MY-LG POLY VIAL 1L AMB 8OZ JAR ZL-SM WP-SM MY-SM GL VIAL 1 GAL POLY 4OZ JAR OTHER:_____ SYR WAX CENT TUBE SOIL BAG

Comments:_____

Chain of Custody

WO#: 12146437

PM: LM2 **Due Date: 07/14/20**

CLIENT: PACE MPLS

☐ Samples were sent directly to the Subcontracting Laboratory.

State Of Origin: MN

Cert. Needed: ☒ Yes ☐ No

Workorder: 10523060 **Workorder Name:** B1903316.00 Hillcrest **Owner Received Date:** 6/26/2020 **Results Requested By:** 7/13/2020

Report To	Subcontract To
Bob Michels Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)709-5046	Pace Analytical Duluth 4730 Oneota St. Duluth, MN 55807 Phone (218)727-6380

BP3S

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: H2SO4						Requested Analysis: Total Kjeldahl Nitrogen 351.2												LAB USE ONLY
1	SB-1 (TW)	PS	6/24/2020 12:53	10523060006	Water	1						X												
2																								
3																								
4																								
5																								

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature] Pace	6/29/20 16:10	[signature] PACE	6/30/2020 10:15
2				
3				

Comments

Cooler Temperature on Receipt 1.1 °C **Custody Seal** (Y) or N **Received on Ice** (Y) or N **Samples Intact** (Y) or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.*

Pace Analytical	Document Name: Sample Condition Upon Receipt Form	Document Revised: 17June2019 Page 1 of 1
	Document No.: F-DUL-C-001-rev.07	Issuing Authority: Pace Duluth Minnesota Quality Office

Sample Condition Upon Receipt **Client Name:** PACE - MPLS **Project #:** WO#: 12146437

PM: LM2 Due Date: 07/14/20

CLIENT: PACE MPLS

Courier: ☒Fed Ex ☐UPS ☐USPS ☐Client ☐SpeeDee ☐Pace ☐Other:

Tracking Number:

Custody Seal on Cooler/Box Present? ☒Yes ☐No **Seals Intact?** ☒Yes ☐No

Packing Material: ☒Bubble Wrap ☐Bubble Bags ☐None ☐Other:

Type of Ice: ☒Wet ☐Blue ☐None ☐Samples on ice, cooling process has begun

Is there evidence of ice formation in samples? ☐Yes ☒No **Biological Tissue Frozen?** ☐Yes ☐No ☒NA

Temp Blank? ☒Yes ☐No **Thermometer Used:** ☒01339252/1710 ☐122639816 **Correction Factor °C:** -0.1

Temp should be above freezing to 6 °C **Cooler Temp Read °C:** 1.2 **Cooler Temp Corrected °C:** 1.1

Date and Initials of Person Examining Contents: 06/30/2020

				Comments:
Chain of Custody Present?	☒Yes	☐No	☐N/A	1.
Chain of Custody Filled Out?	☒Yes	☐No	☐N/A	2.
Chain of Custody Relinquished?	☒Yes	☐No	☐N/A	3.
Sampler Name and Signature on COC?	☐Yes	☐No	☒N/A	4.
Samples Arrived within Hold Time?	☒Yes	☐No	☐N/A	5. If Fecal: ☐<8 hours ☐ >8, <24 hours ☐ >24 hours
Short Hold Time Analysis (<72 hr)?	☐Yes	☒No	☐N/A	6.
Rush Turn Around Time Requested?	☐Yes	☒No	☐N/A	7.
Sufficient Volume?	☒Yes	☐No	☐N/A	8.
Correct Containers Used?	☒Yes	☐No	☐N/A	9.
-Pace Containers Used?	☒Yes	☐No	☐N/A	
Containers Intact?	☒Yes	☐No	☐N/A	10.
Filtered Volume Received for Dissolved Tests?	☐Yes	☐No	☒N/A	11. Note if sediment is visible in the dissolved containers:
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	☒Yes	☐No	☐N/A	12.
All containers needing acid/base preservation properly preserved?	☒Yes	☐No	☐N/A	13. Note samples needing adjustment:
Headspace in Methyl Mercury Container	☐Yes	☐No	☒N/A	14.
Headspace in VOA Vials (>6mm)?	☐Yes	☐No	☒N/A	15.
Trip Blank Present?	☐Yes	☐No	☒N/A	16.
Trip Blank Custody Seals Present?	☐Yes	☐No	☒N/A	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION: **Field Data Required?** ☐Yes ☐No

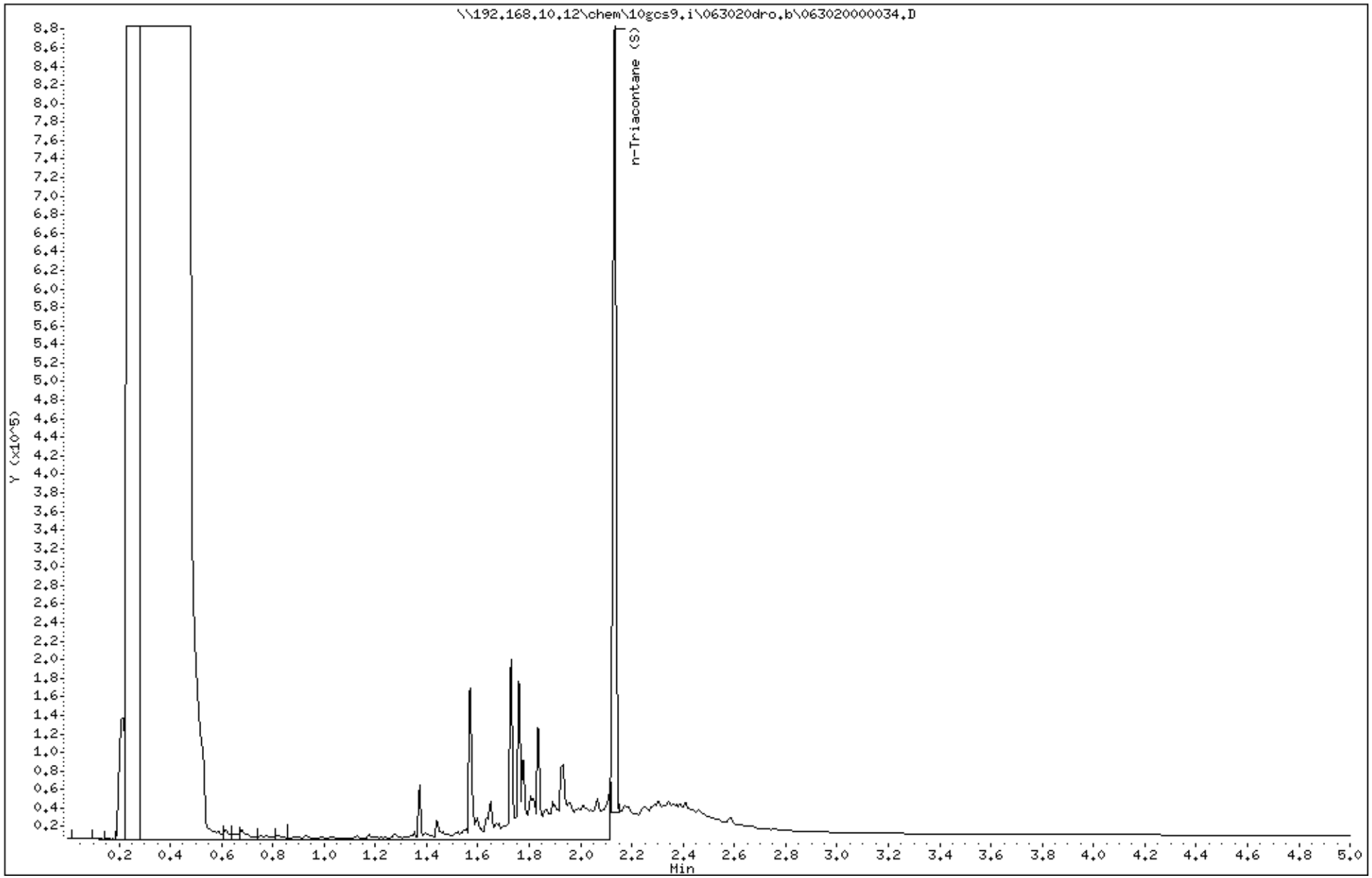
Person Contacted: Date/Time:

Comments/Resolution:

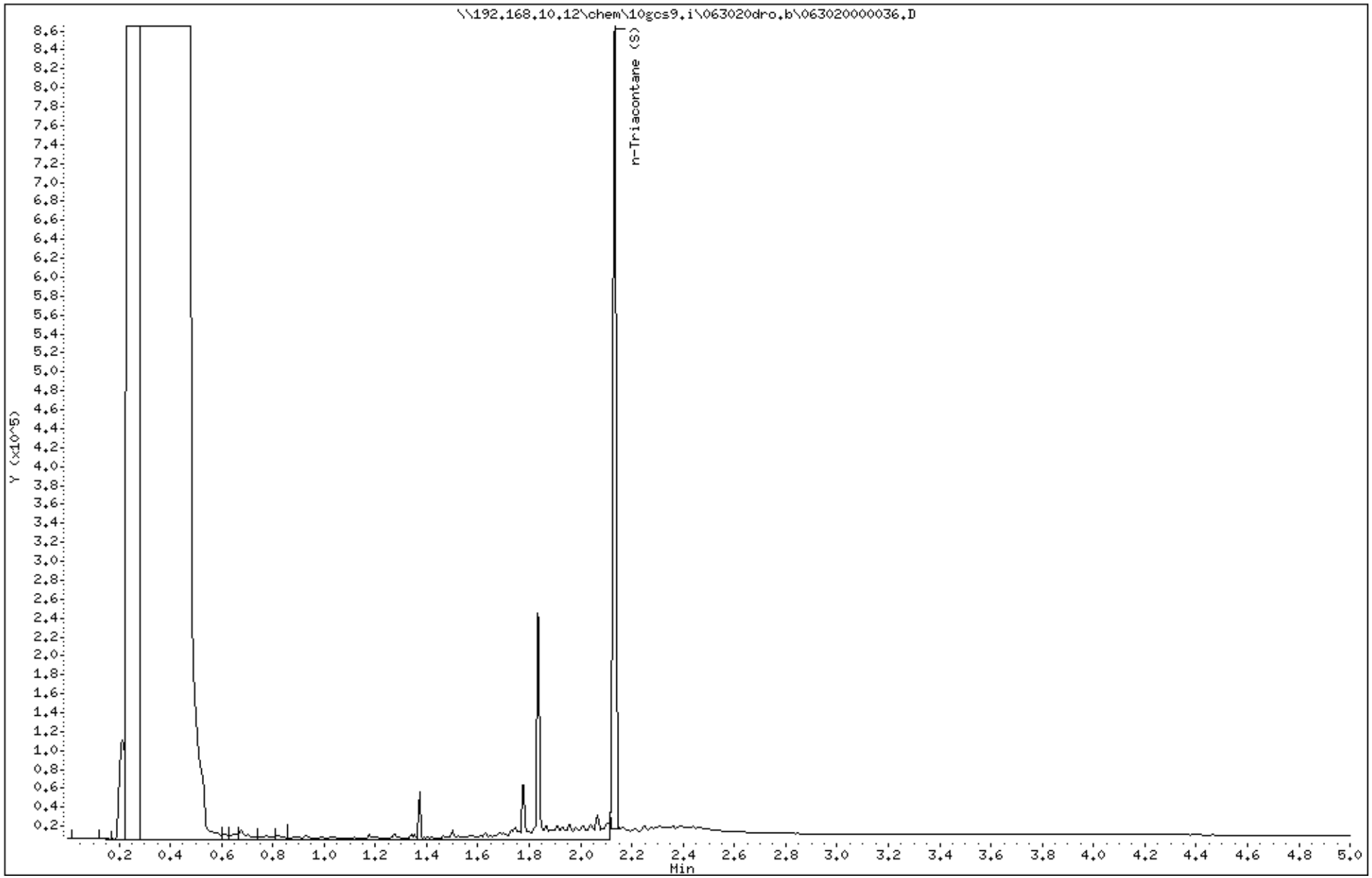
FECAL WAIVER ON FILE: Y N TEMPERATURE WAIVER ON FILE: Y N

Project Manager Review: Nikki Jarve **Date:** 7/1/20

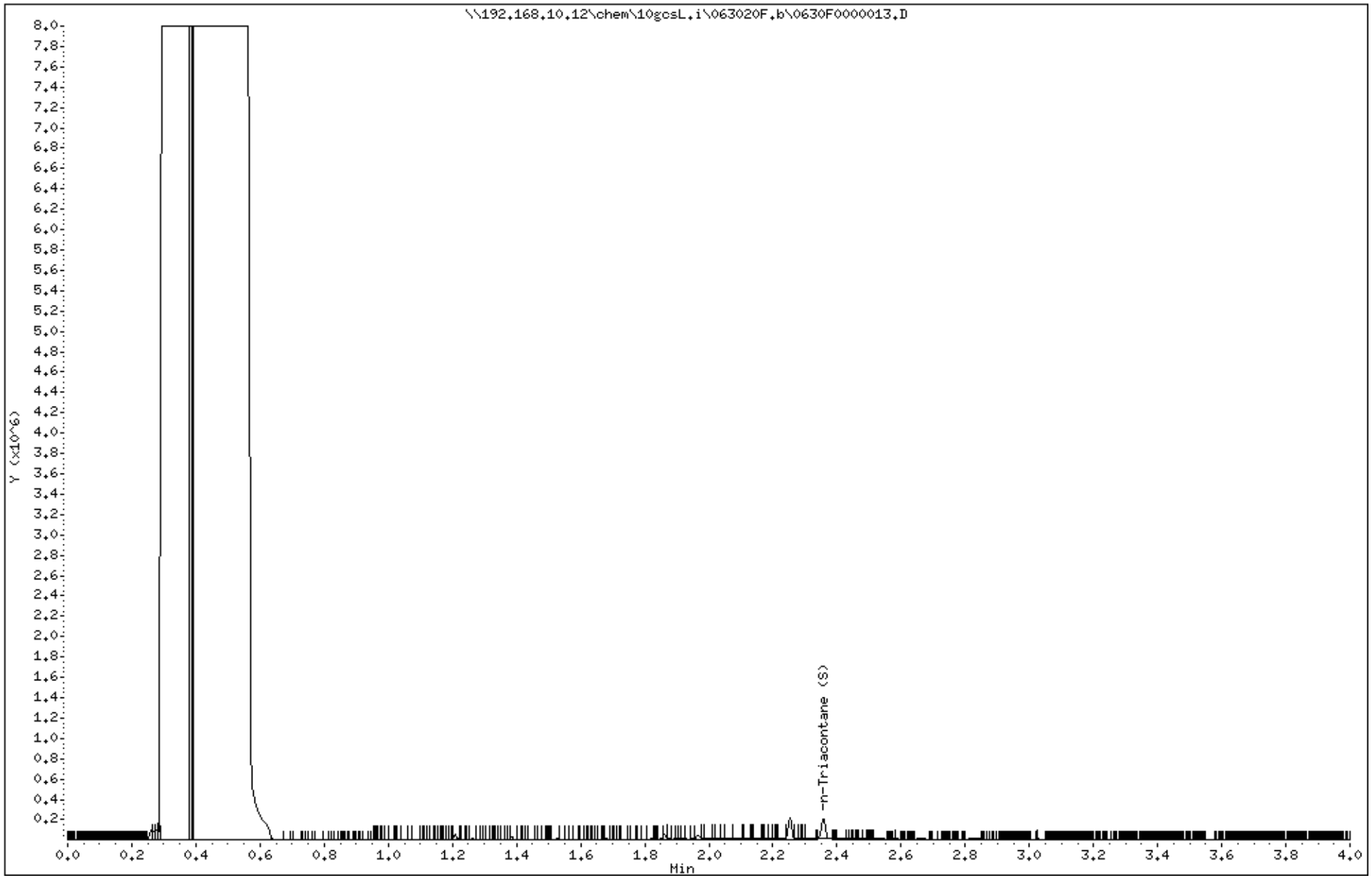
Data File: \\192.168.10.12\chem\10gcs9.i\063020dro.b\063020000034.D
Date : 30-JUN-2020 10:53
Client ID: TT-7 (3-5)
Instrument: 10gcs9.i
Sample Info: 10523060002
Volume Injected (uL): 1.0
Operator: TT2
Column phase: DB-5-US20180032
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10gcs9.i\063020dro.b\063020000036.D
Date : 30-JUN-2020 11:07
Client ID: TT-1 (6-7)
Instrument: 10gcs9.i
Sample Info: 10523060004
Volume Injected (uL): 1.0
Operator: TT2
Column phase: DB-5-US20180032
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10gcsL.i\063020F.b\0630F0000013.D
Date : 30-JUN-2020 09:33
Client ID: SB-1 (TW)
Instrument: 10gcsL.i
Sample Info: 10523060006
Volume Injected (uL): 1.0
Operator: TT2
Column phase: DB-5-US20120014
Column diameter: 0.32

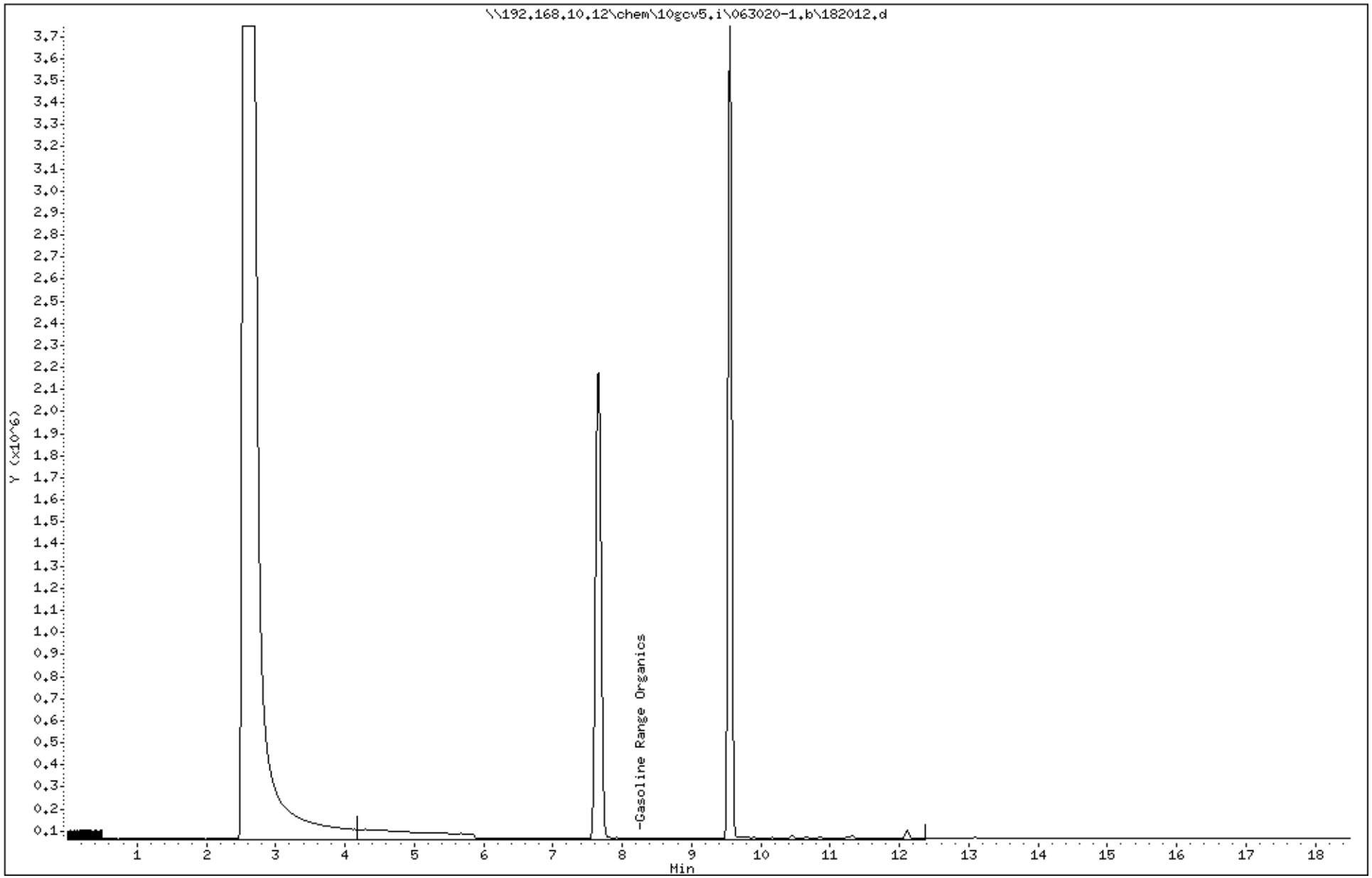


Data File: \\192.168.10.12\chem\10gcv5.i\063020-1.b\182012.d
Date : 30-JUN-2020 18:04
Client ID: TT-1 (6-7)
Sample Info: 10523060004,

Instrument: 10gcv5.i

Operator: LPM

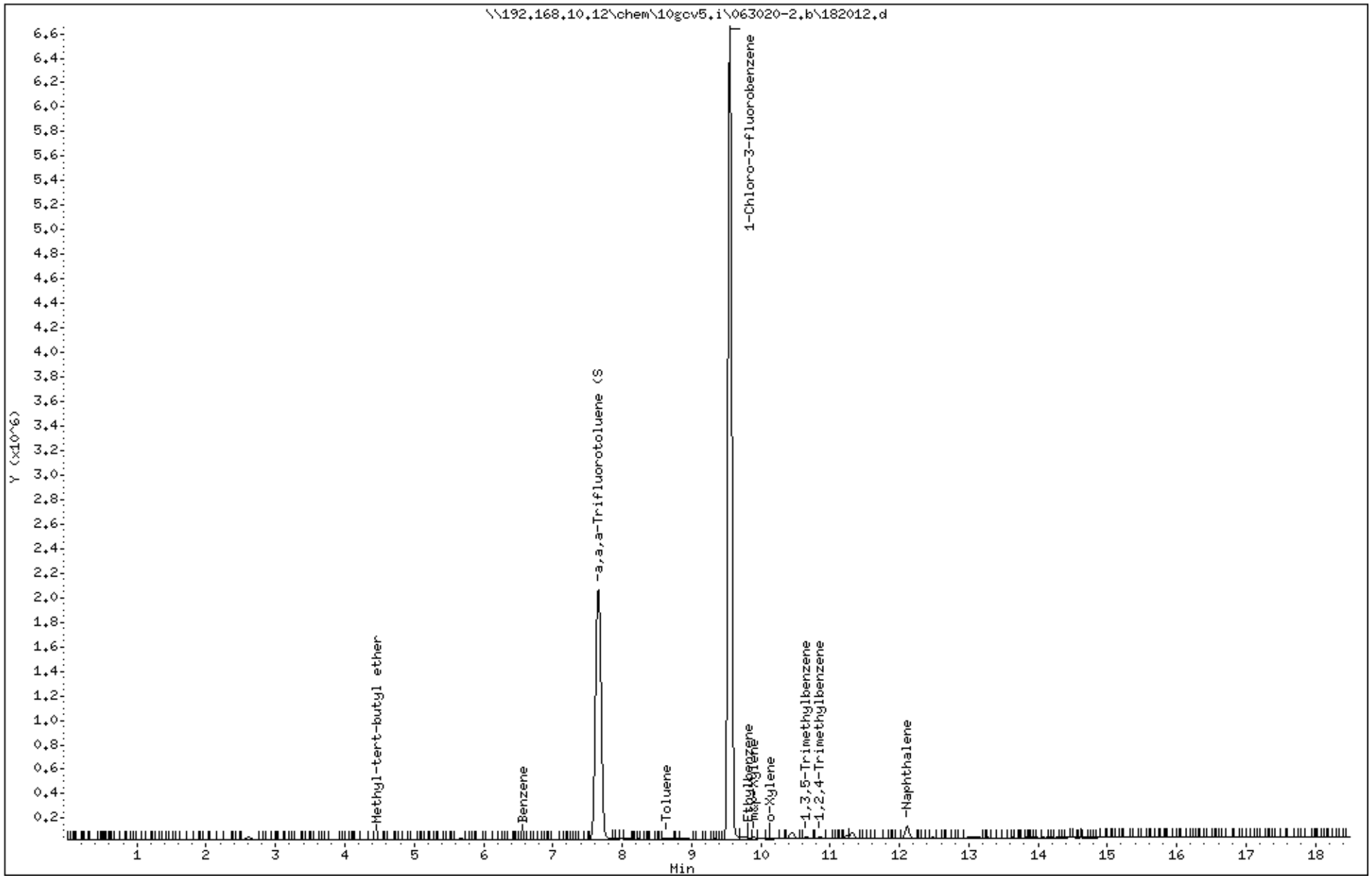
Column phase: ZB-624 SN592844
Column diameter: 0.53



Data File: \\192.168.10.12\chem\10gcv5.i\063020-2.b\182012.d
Date : 30-JUN-2020 18:04
Client ID: TT-1 (6-7)
Sample Info: 10523060004,

Instrument: 10gcv5.i

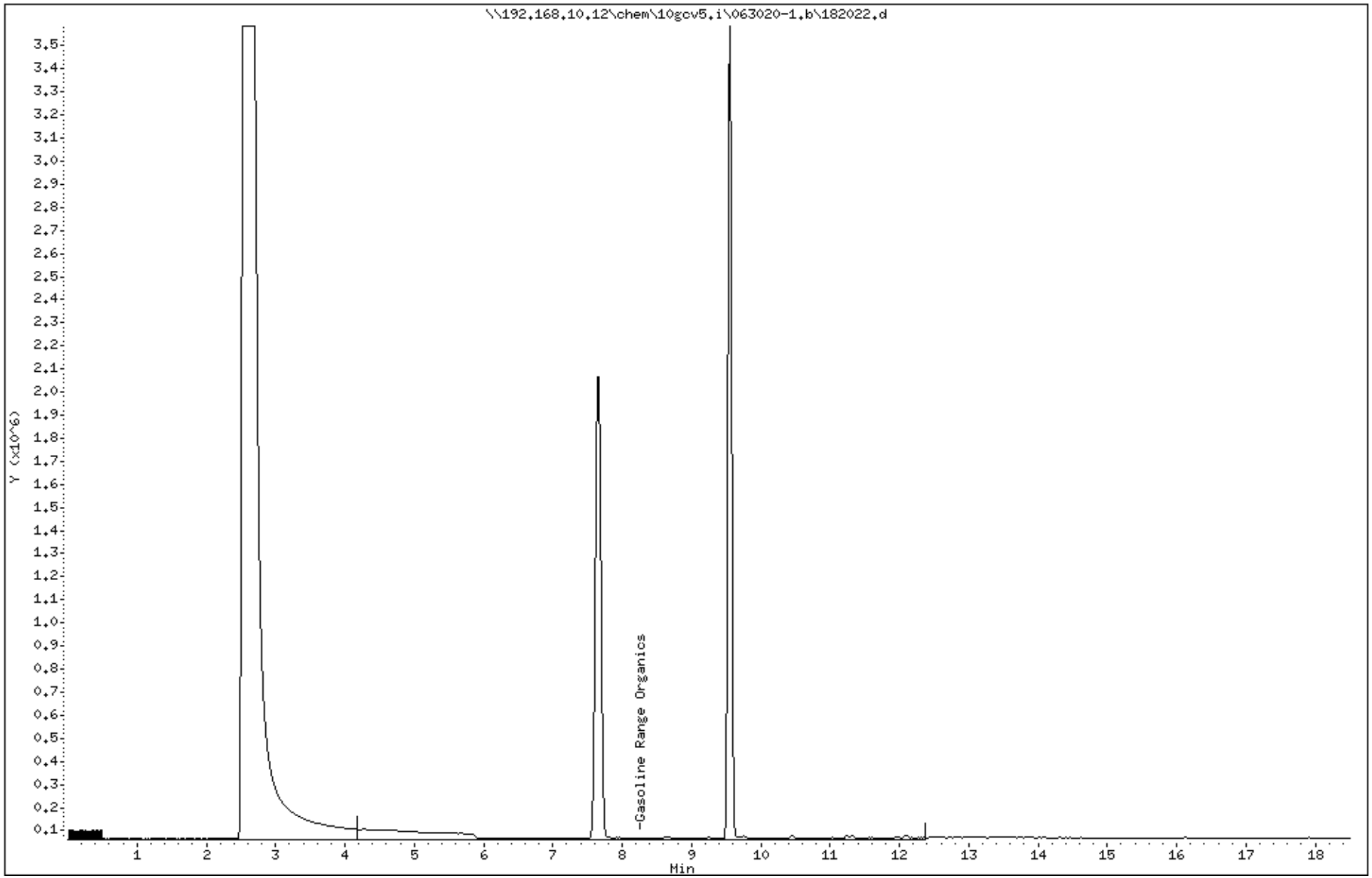
Operator: LPM
Column phase: DB-624 SN 592844
Column diameter: 0.53



Data File: \\192.168.10.12\chem\10gcv5.i\063020-1.b\182022.d
Date : 30-JUN-2020 22:44
Client ID: MeOH Trip Blank
Sample Info: 10523060007,

Instrument: 10gcv5.i
Operator: LPM
Column diameter: 0.53

Column phase: ZB-624 SN592844

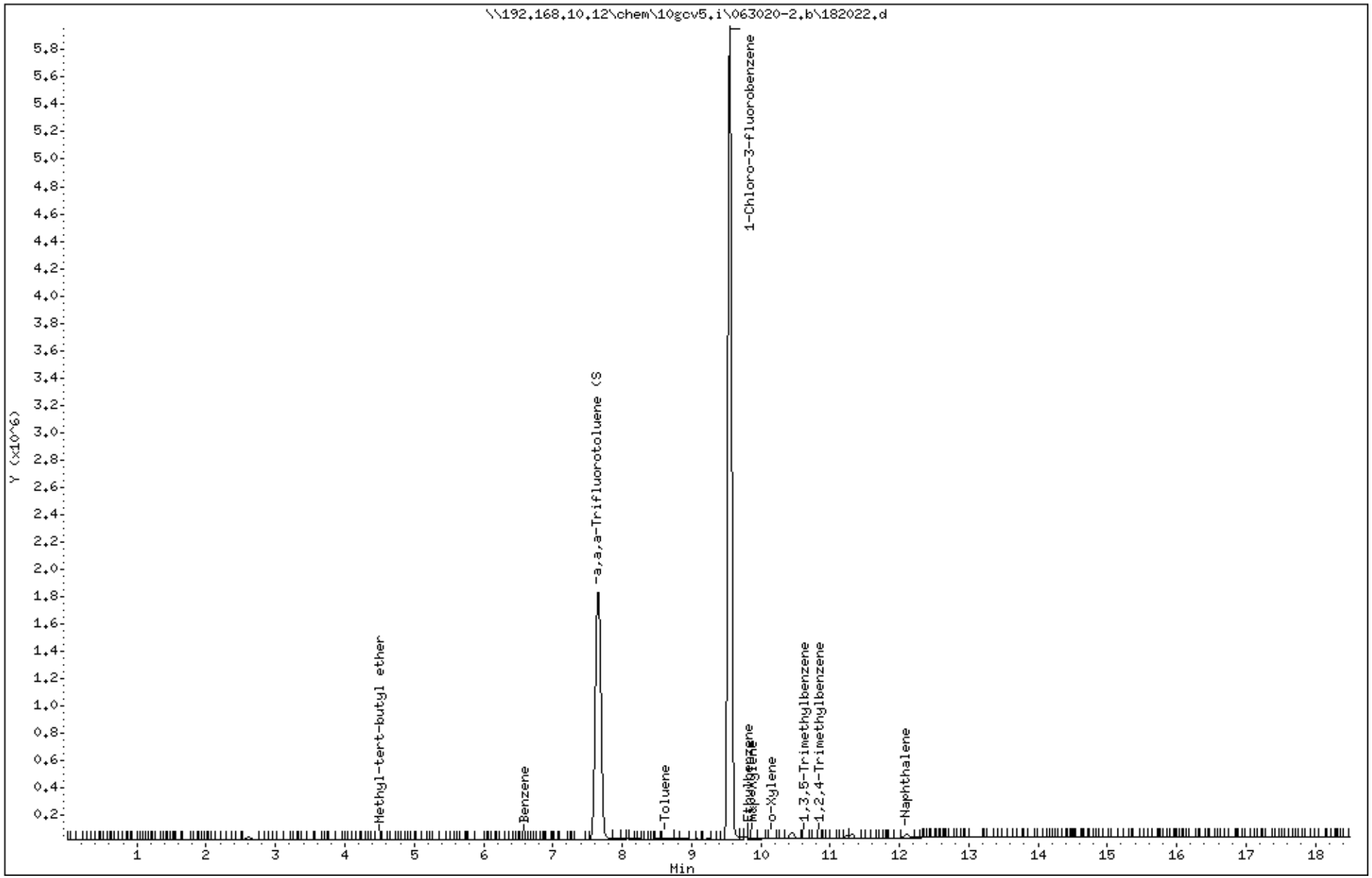


Data File: \\192.168.10.12\chem\10gcv5.i\063020-2.b\182022.d
Date : 30-JUN-2020 22:44
Client ID: MeOH Trip Blank
Sample Info: 10523060007,

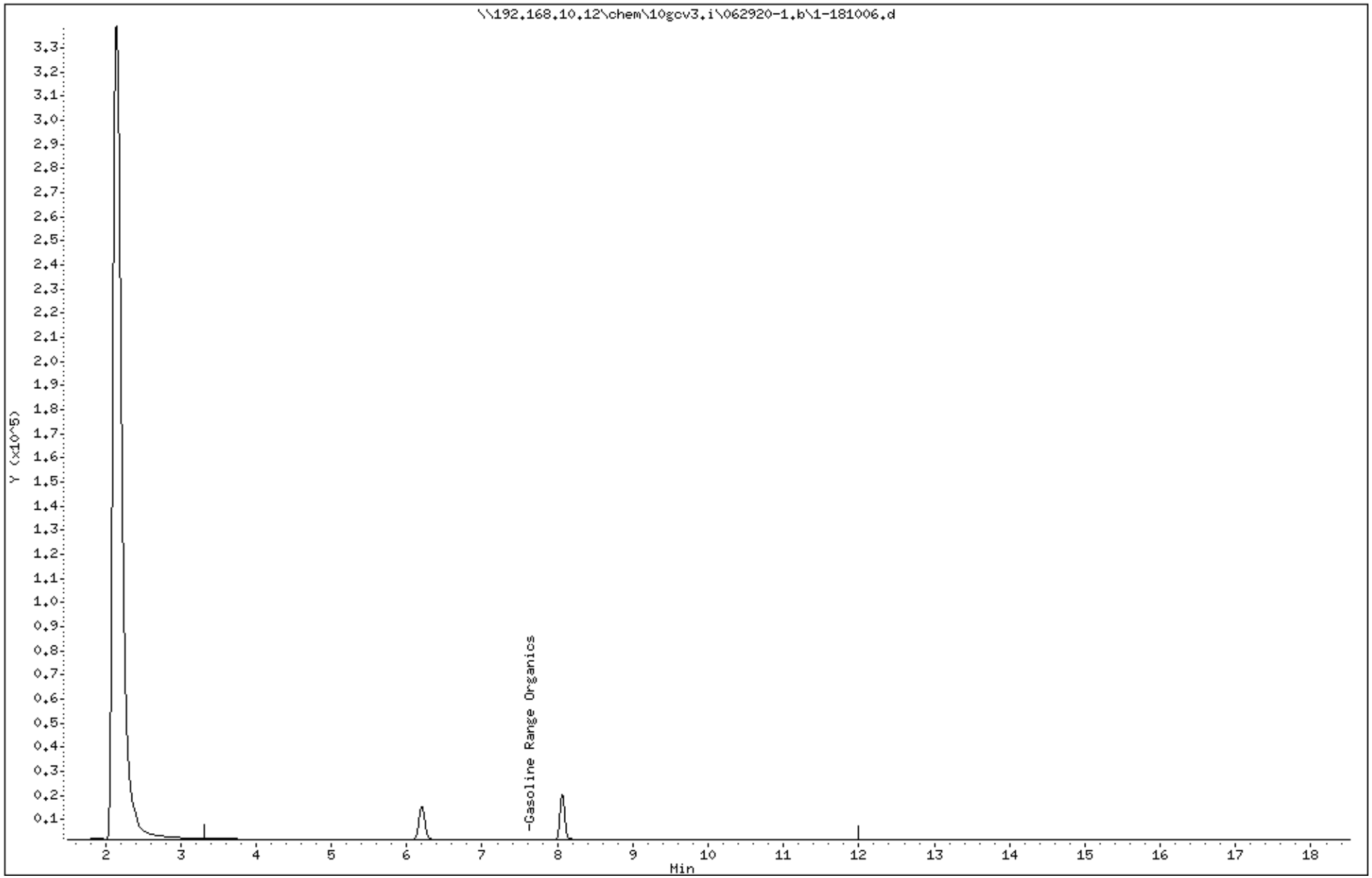
Instrument: 10gcv5.i

Operator: LPM
Column diameter: 0.53

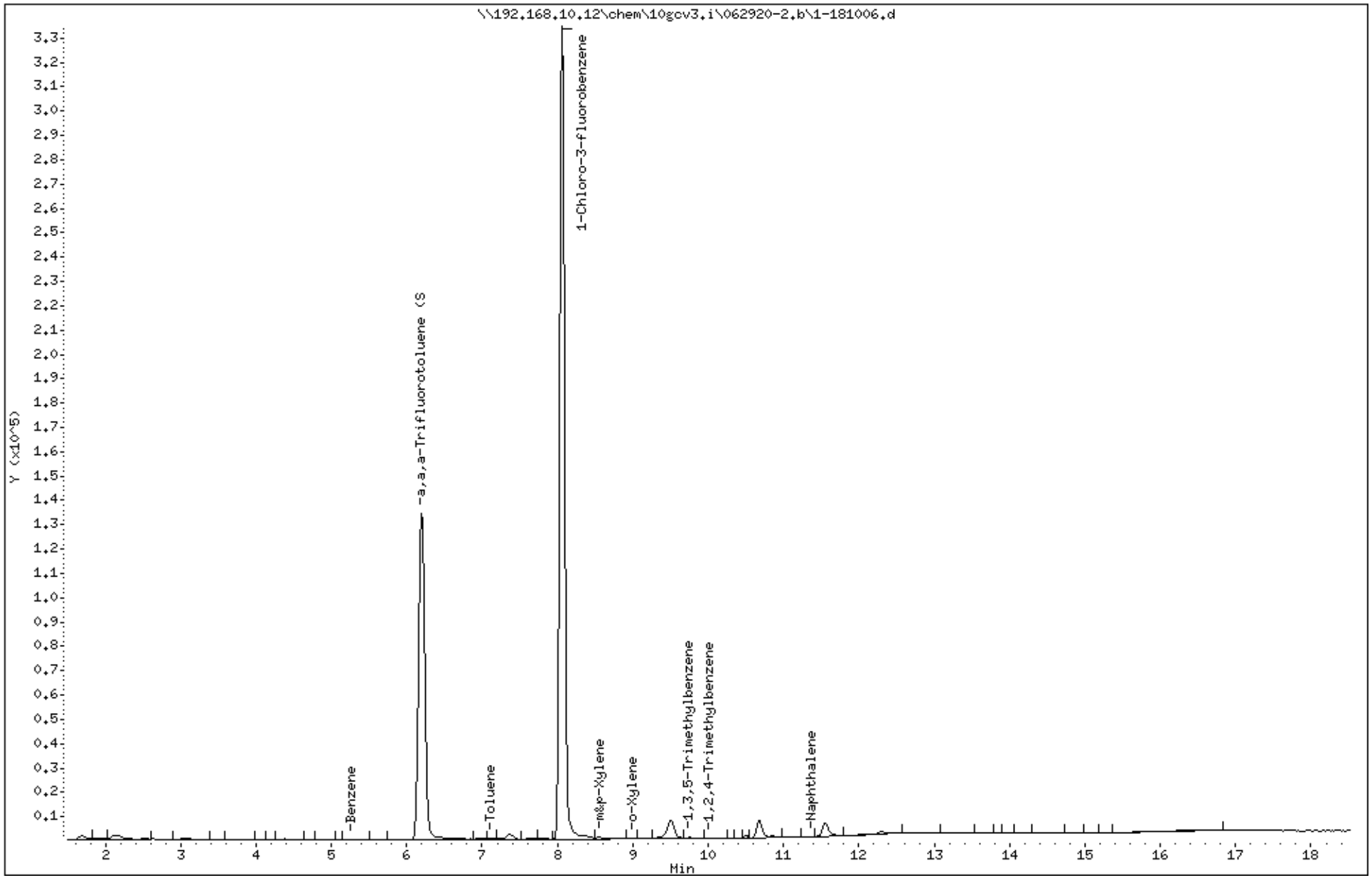
Column phase: DB-624 SN 592844



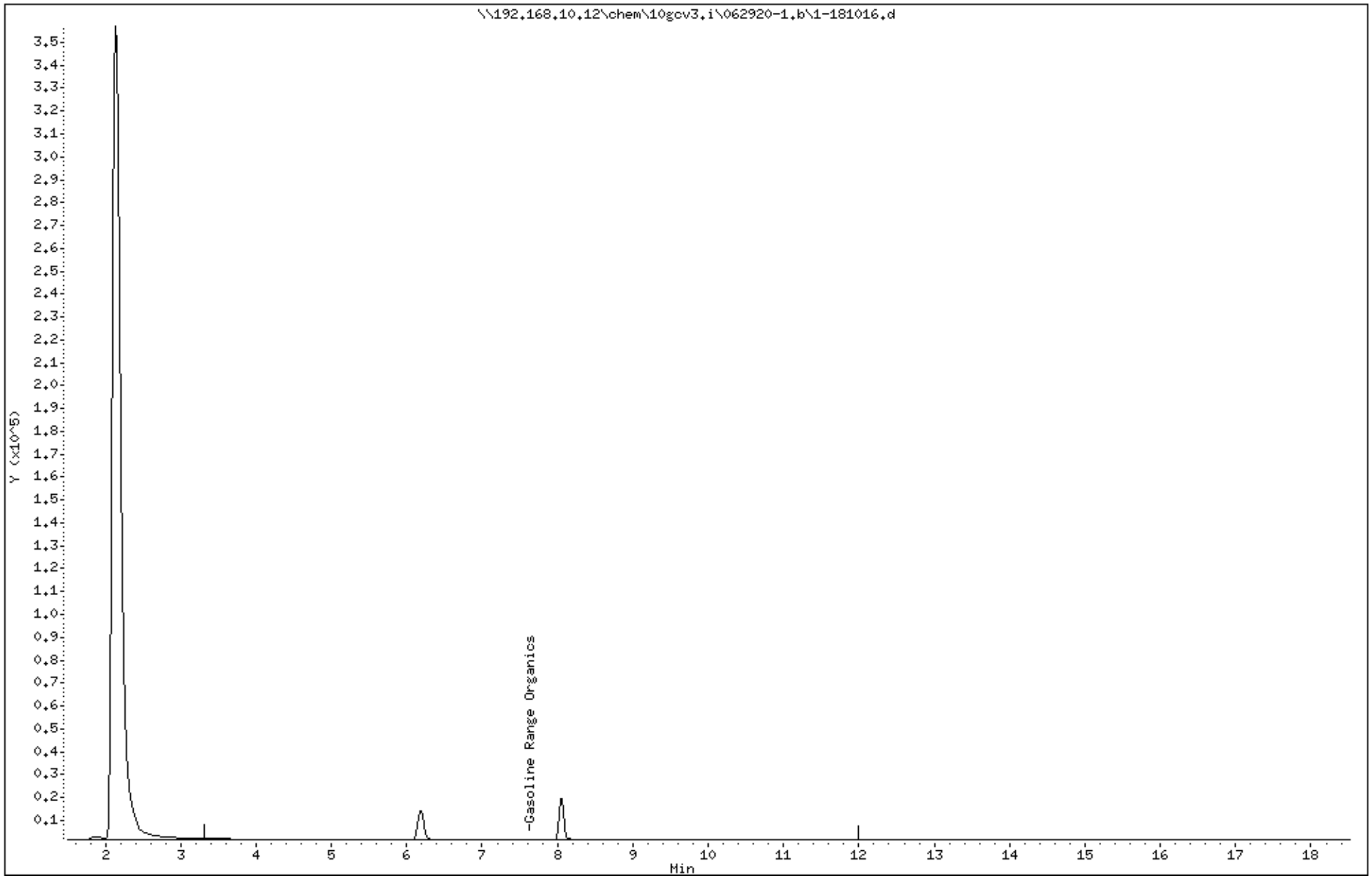
Data File: \\192.168.10.12\chem\10gcv3.i\062920-1.b\1-181006.d
Date : 29-JUN-2020 15:30
Client ID: SB-1 (TW)
Instrument: 10gcv3.i
Sample Info: 10523060006,
Purge Volume: 5.0
Operator: LPM
Column phase: ZB-624 SN601464
Column diameter: 0.53



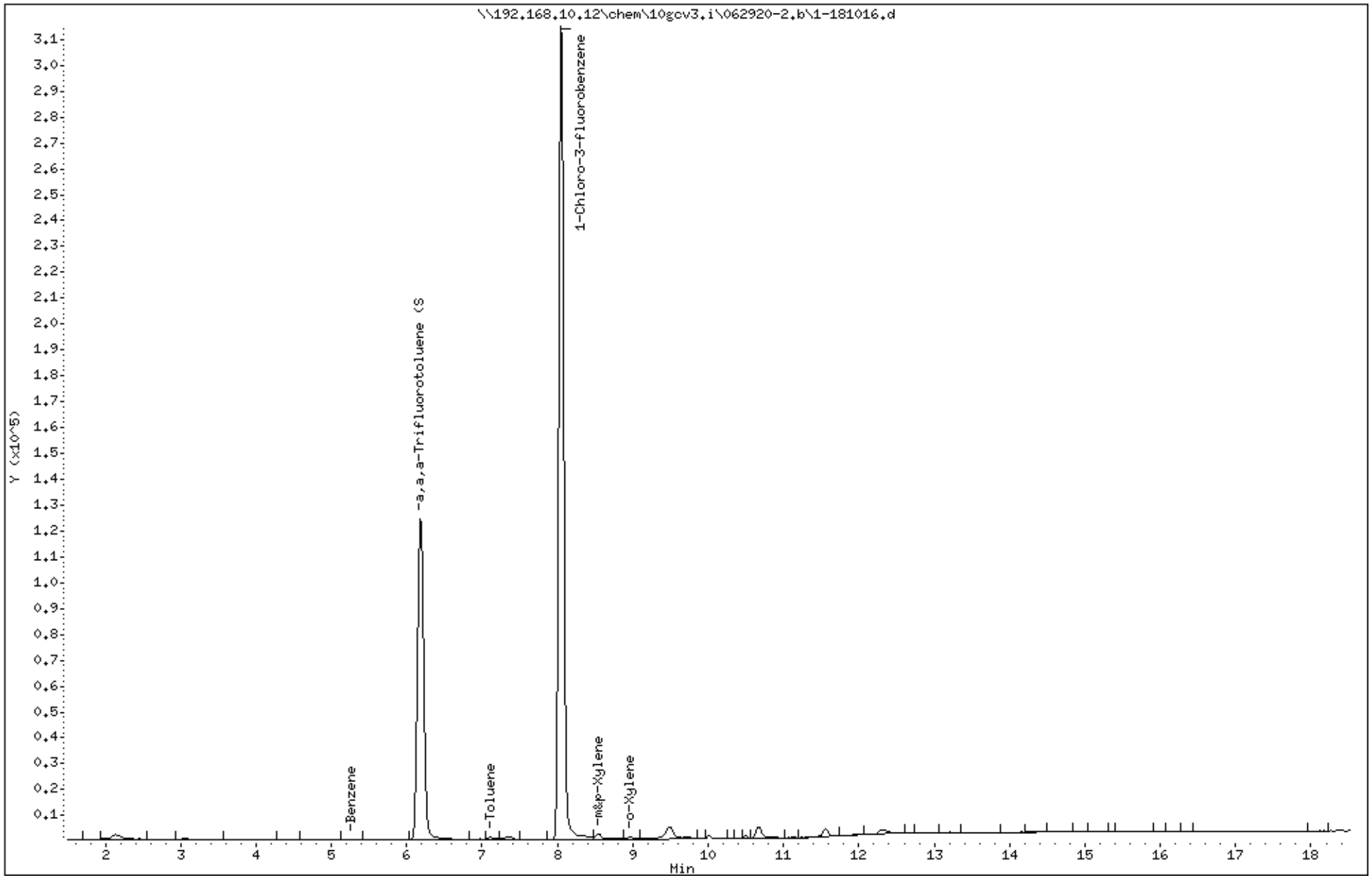
Data File: \\192.168.10.12\chem\10gcv3.i\062920-2.b\1-181006.d
Date : 29-JUN-2020 15:30
Client ID: SB-1 (TW)
Instrument: 10gcv3.i
Sample Info: 10523060006,
Purge Volume: 5.0
Operator: LPM
Column phase: ZB-624 SN601464
Column diameter: 0.53



Data File: \\192.168.10.12\chem\10gcv3.i\062920-1.b\1-181016.d
Date : 29-JUN-2020 19:39
Client ID: HCL Trip Blank
Instrument: 10gcv3.i
Sample Info: 10523060008,
Purge Volume: 5.0
Operator: LPM
Column phase: ZB-624 SN601464
Column diameter: 0.53



Data File: \\192.168.10.12\chem\10gcv3.i\062920-2.b\1-181016.d
Date : 29-JUN-2020 19:39
Client ID: HCL Trip Blank
Instrument: 10gcv3.i
Sample Info: 10523060008,
Purge Volume: 5.0
Operator: LPM
Column phase: ZB-624 SN601464
Column diameter: 0.53



Synergistic Pesticide Laboratory LLC
2700B N. Hayden Island Dr.
Portland, OR 97217
Lab: 503-641-0500
Fax: 503-954-3073
info@synpestlab.com

Client Name:	Pace Analytical Minnesota	**Date:**	7/4/20
Client Address:	1700 Elm Street, Ste 200	**SPL Project #:**	20 034
	Minneapolis, MN 55414	**Client Project #:**	10523060
Client Phone:	612-709-5046		

SAMPLE RESULTS:

SPL ID:	**20 034-01**	**Date Sampled:**	6/24/20
Sample ID:	10523060006 (SB-1 (TW))	**Date Received:**	6/30/20
Matrix:	WATER		
Method:	**Chlorothalonil, Iprodione & Propiconazole Analysis (QuEChERS 15662, EPA 8321B, EPA 8270E)**	**Date Extracted:**	7/1/20
Units:	ppb (µg/L)	**Date Analyzed:**	7/2-7/3/20

Analyte	Class	Result	RL
Chlorothalonil	F	nd	0.05
Iprodione	F	nd	0.10
Propiconazole	F	nd	0.05
Decachlorobiphenyl (Surrogate)	---	95%	---
Fenbuconazole (Surrogate)	---	82%	---

Synergistic Pesticide Laboratory LLC
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Portland, OR 97217
Lab: 503-641-0500
Fax: 503-954-3073
info@synpestlab.com

Client Name: Pace Analytical Minnesota
Client Address: 1700 Elm Street, Ste 200
Minneapolis, MN 55414
Client Phone: 612-709-5046

Date: 7/4/20
SPL Project #: 20 034
Client Project #: 10523060

QUALITY CONTROL RESULTS:

Method: **Chlorothalonil, Iprodione & Propiconazole Analysis (EPA 3510C, EPA 8321B, EPA 8270E)**
Units: ppb (µg/L)
Matrix: WATER

Date Extracted: 7/1/20
Date Analyzed: 7/2-7/3/20

20 045 MB

Analyte	Amt Spiked	Result	Percent Recovery
Chlorothalonil	---	nd	---
Iprodione	---	nd	---
Propiconazole	---	nd	---
Decachlorobiphenyl (Surrogate)	0.1	0.137	68%
Fenbuconazole (Surrogate)	0.1	0.184	92%

20 045 LCS

Analyte	Amt Spiked	Result	Percent Recovery
Chlorothalonil	1.0	0.613	61%
Iprodione	2.0	1.75	87%
Propiconazole	1.0	0.882	88%
Decachlorobiphenyl (Surrogate)	0.1	0.164	82%
Fenbuconazole (Surrogate)	0.1	0.168	84%

20 045 LCSD

Analyte	Amt Spiked	Result	Percent Recovery
Chlorothalonil	1.0	0.901	90%
Iprodione	2.0	1.87	93%
Propiconazole	1.0	0.916	92%
Decachlorobiphenyl (Surrogate)	0.1	0.173	87%
Fenbuconazole (Surrogate)	0.1	0.178	89%

Synergistic Pesticide Laboratory LLC
2700B N. Hayden Island Dr.
Portland, OR 97217
Lab: 503-641-0500
Fax: 503-954-3073
info@synpestlab.com

Client Name:	Pace Analytical Minnesota	**Date:**	7/4/20
Client Address:	1700 Elm Street, Ste 200	**SPL Project #:**	20 034
	Minneapolis, MN 55414	**Client Project #:**	10523060
Client Phone:	612-709-5046		

Laboratory Report Definitions

F – Fungicide
LCL – Lower Control Limit – acceptance criteria based on the mean minus three times the standard deviation of a data set
LCS – Laboratory Control Sample – prepared from analyte free water or sand and spiked with known amount of analytes for the purpose of measuring the effect of the reagents used in extraction or analysis
LCSD – Laboratory Control Sample Duplicate
MS – Matrix Spike – prepared from additional sample and spiked with known amount of analytes for the purpose of measuring the effect of the sample matrix on analysis
MSD – Matrix Spike Duplicate
MB – Method Blank – shows any interference in extraction method
nd – non detect – substance not found above the reporting limit
ppb – parts per billion
ppm – parts per million
RL – Reporting Limit – the minimum amount of a substance that can be reported with confidence
UCL – Upper Control Limit – acceptance criteria based on the mean plus three times the standard deviation of a data set

Results provided relate to submitted samples only. Unless otherwise noted, samples were received in good condition and all Quality Control samples met acceptance criteria. Quality Control data is available upon request. This report shall not be reproduced, except in full, without the permission of Synergistic Pesticide Laboratory, LLC.

Authorized by:_____ Date: 7/4/2020

Camille Holladay
Lab Director

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

July 07, 2020

Bob Michels
Pace Analytical
1700 Elm Street, Suite 200
Minneapolis, MN 55414

RE: B1903316.00 Hillcrest

Enclosed are the analytical results for the samples received by the laboratory on 06/30/2020.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. These results are in compliance with the 2009 NELAC Standards and the appropriate agencies listed below, unless otherwise noted in the case narrative. This analytical report should be reproduced in its entirety.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Molly Palzkill
Project Manager

Certification List			Expires
DODELAP	DOD ELAP Accreditation (A2LA)	3269.01	03/31/2021
ILEPA	Illinois Secondary NELAP Accreditation	004366	04/30/2021
KDHE	Kansas Secondary NELAP Accreditation	E-10384	04/30/2021
LELAP	Louisiana Primary NELAP Accreditation	04165	06/30/2021
NJDEP	New Jersey Secondary NELAP Accreditation	WI004	06/30/2021
TCEQ	Texas Secondary NELAP Accreditation	T104704504-16-7	11/30/2020
WDNR	Wisconsin Certification under NR 149	113289110	08/31/2020

Pace Analytical
ENVIRONMENTAL SCIENCES
MOBILE LAB SERVICES

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

Pace Analytical	Project: B1903316.00 Hillcrest
1700 Elm Street, Suite 200	Project Number: 10523060
Minneapolis MN, 55414	Project Manager: Bob Michels

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-1 (TW) (10523060006)	A202704-01	Water	06/24/2020	06/30/2020

CASE NARRATIVE

Sample Receipt Information:
One sample was received on 06/30/2020. Sample was received in acceptable condition.

Please see the chain of custody (COC) document at the end of this report for additional information.

Pace Analytical
ENVIRONMENTAL SCIENCES
MOBILE LAB SERVICES

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

Pace Analytical	Project: B1903316.00 Hillcrest
1700 Elm Street, Suite 200	Project Number: 10523060
Minneapolis MN, 55414	Project Manager: Bob Michels

SB-1 (TW) (10523060006)

A202704-01 (Water)

Date Sampled
06/24/2020 12:53

Pace Analytical - Madison

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pesticides by LCMSMS						**Preparation Batch: A007098**			
2,4-D	**0.047**	0.024	0.10	ug/L	1	07/01/2020	07/01/2020 16:03	EPA 8321B	J
2,4-DB	ND	0.032	0.10	ug/L	1	07/01/2020	07/01/2020 16:03	EPA 8321B	
2,4,5-T	ND	0.030	0.10	ug/L	1	07/01/2020	07/01/2020 16:03	EPA 8321B	
2,4,5-TP (Silvex)	ND	0.016	0.10	ug/L	1	07/01/2020	07/01/2020 16:03	EPA 8321B	
Bentazon	ND	0.012	0.10	ug/L	1	07/01/2020	07/01/2020 16:03	EPA 8321B	
Dicamba	ND	0.058	0.20	ug/L	1	07/01/2020	07/01/2020 16:03	EPA 8321B	
MCPA	ND	0.022	0.10	ug/L	1	07/01/2020	07/01/2020 16:03	EPA 8321B	
Picloram	ND	0.048	0.20	ug/L	1	07/01/2020	07/01/2020 16:03	EPA 8321B	
Triclopyr	ND	0.031	0.10	ug/L	1	07/01/2020	07/01/2020 16:03	EPA 8321B	
Surrogate: 2,4-D-d5			*109 %*	*60-140*		*07/01/2020*	*07/01/2020 16:03*	*EPA 8321B*	
Surrogate: DCAA			*116 %*	*60-140*		*07/01/2020*	*07/01/2020 16:03*	*EPA 8321B*	

Pace Analytical
ENVIRONMENTAL SCIENCES
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608.221.8700 Phone
608.221.4889 Fax

Pace Analytical	Project: B1903316.00 Hillcrest
1700 Elm Street, Suite 200	Project Number: 10523060
Minneapolis MN, 55414	Project Manager: Bob Michels

Pesticides by LCMSMS - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A007098 - EPA 3535 (SPE)										
Blank (A007098-BLK1)				Prepared: 07/01/2020 Analyzed: 07/01/2020 16:57						
2,4-D	ND	0.10	ug/L							
2,4-DB	ND	0.10	ug/L							
2,4,5-T	ND	0.10	ug/L							
2,4,5-TP (Silvex)	ND	0.10	ug/L							
Bentazon	ND	0.10	ug/L							
Dicamba	ND	0.20	ug/L							
MCPA	ND	0.10	ug/L							
Picloram	ND	0.20	ug/L							
Triclopyr	ND	0.10	ug/L							
Surrogate: 2,4-D-d5	*3.37*		*ug/L*	*3.378*		*99.7*	*60-140*			
Surrogate: DCAA	*6.41*		*ug/L*	*6.750*		*95.0*	*60-140*			
LCS (A007098-BS1)				Prepared: 07/01/2020 Analyzed: 07/01/2020 16:21						
2,4-D	3.21	0.10	ug/L	3.375		95.2	60-140			
2,4-DB	3.24	0.10	ug/L	3.375		95.9	60-140			
2,4,5-T	3.22	0.10	ug/L	3.375		95.5	60-140			
2,4,5-TP (Silvex)	3.40	0.10	ug/L	3.375		101	60-140			
Bentazon	1.50	0.10	ug/L	1.688		88.9	60-140			
Dicamba	6.33	0.20	ug/L	6.750		93.7	60-140			
MCPA	3.38	0.10	ug/L	3.375		100	60-140			
Picloram	6.84	0.20	ug/L	6.750		101	60-140			
Triclopyr	3.37	0.10	ug/L	3.375		99.8	60-140			
Surrogate: 2,4-D-d5	*3.22*		*ug/L*	*3.378*		*95.4*	*60-140*			
Surrogate: DCAA	*6.70*		*ug/L*	*6.750*		*99.2*	*60-140*			
LCS Dup (A007098-BSD1)				Prepared: 07/01/2020 Analyzed: 07/01/2020 16:39						
2,4-D	3.42	0.10	ug/L	3.375		101	60-140	6.25	20	
2,4-DB	3.33	0.10	ug/L	3.375		98.8	60-140	2.93	20	
2,4,5-T	3.23	0.10	ug/L	3.375		95.6	60-140	0.0476	20	
2,4,5-TP (Silvex)	3.51	0.10	ug/L	3.375		104	60-140	2.95	20	
Bentazon	1.49	0.10	ug/L	1.688		88.0	60-140	0.972	20	
Dicamba	6.92	0.20	ug/L	6.750		103	60-140	8.95	20	
MCPA	3.42	0.10	ug/L	3.375		101	60-140	1.19	20	
Picloram	6.81	0.20	ug/L	6.750		101	60-140	0.357	20	
Triclopyr	3.32	0.10	ug/L	3.375		98.4	60-140	1.36	20	
Surrogate: 2,4-D-d5	*3.41*		*ug/L*	*3.378*		*101*	*60-140*			
Surrogate: DCAA	*5.91*		*ug/L*	*6.750*		*87.5*	*60-140*			

Pace Analytical
ENVIRONMENTAL SCIENCES
MOBILE LAB SERVICES

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

Pace Analytical	Project: B1903316.00 Hillcrest
1700 Elm Street, Suite 200	Project Number: 10523060
Minneapolis MN, 55414	Project Manager: Bob Michels

Notes and Definitions

J	Analyte was detected but is below the reporting limit. The concentration is estimated.
ND	Analyte NOT DETECTED at or above the reporting limit or limit of detection (if listed).
NR	Not Reported
dry	Sample results reported on a dry weight basis. If the word 'dry' does not appear after the units, results are reported on an as-is basis.
RPD	Relative Percent Difference

Chain of Custody

A202704

Pace Analytical®
www.pacelabs.com

☐ Samples were sent directly to the Subcontracting Laboratory.

State Of Origin: MN
Cert. Needed: ☒ Yes ☐ No

Workorder: 10523060 **Workorder Name:** B1903316.00 Hillcrest
Owner Received Date: 6/26/2020 **Results Requested By:** 7/13/2020

Report To	Subcontract To
Bob Michels Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)709-5046	Pace Analytical Madison 2525 Advance Road Madison, WI 53718 Phone (608)221-8700

						Preserved Containers						Requested Analysis													
						AG1U						MDA List 2 Pesticides													
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Unpreserved																			LAB USE ONLY
1	SB-1 (TW)	PS	6/24/2020 12:53	10523060006	Water	2						X													01
2																									
3																									
4																									
5																									

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	6/29/20 6:45	[signature]	6/30/20 0924
2				
3				

Comments

Cooler Temperature on Receipt 1.9 °C | **Custody Seal** (Y) or N | **Received on Ice** (Y) or N | **Samples Intact** (Y) or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.*
This chain of custody is considered complete as is since this information is available in the owner laboratory.

Thermometer
160142274
LRP 12/19/20

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

July 08, 2020

Ken Larsen
Braun Intertec
11001 Hampshire Ave S
Bloomington, MN 55438

RE: Project: B1903316.00 Fmr.Hillcrest Golf
Pace Project No.: 10523695

Dear Ken Larsen:

Enclosed are the analytical results for sample(s) received by the laboratory on July 02, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bob Michels
bob.michels@pacelabs.com
(612)709-5046
Project Manager

Enclosures

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: B1903316.00 Fmr.Hillcrest Golf
Pace Project No.: 10523695

Pace Analytical Services - Minneapolis MN

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: B1903316.00 Fmr.Hillcrest Golf
Pace Project No.: 10523695

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10523695001	**Sed-1**	Solid	07/02/20 11:05	07/02/20 16:10
10523695002	**Sed-2**	Solid	07/02/20 11:25	07/02/20 16:10
10523695003	**Sed-3**	Solid	07/02/20 11:55	07/02/20 16:10
10523695004	**Sed-4**	Solid	07/02/20 11:40	07/02/20 16:10
10523695005	**Sed-5**	Solid	07/02/20 12:15	07/02/20 16:10
10523695006	**Sed-6**	Solid	07/02/20 12:25	07/02/20 16:10
10523695007	**Sed-7**	Solid	07/02/20 12:45	07/02/20 16:10
10523695008	**Sed-101**	Solid	07/02/20 00:00	07/02/20 16:10

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: B1903316.00 Fmr.Hillcrest Golf
Pace Project No.: 10523695

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10523695001	**Sed-1**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10523695002	**Sed-2**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10523695003	**Sed-3**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10523695004	**Sed-4**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10523695005	**Sed-5**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10523695006	**Sed-6**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10523695007	**Sed-7**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10523695008	**Sed-101**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

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Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: B1903316.00 Fmr.Hillcrest Golf
Pace Project No.: 10523695

Method: **EPA 7471B**
Description: 7471B Mercury
Client: Braun Intertec Corporation
Date: July 08, 2020

General Information:
8 samples were analyzed for EPA 7471B by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7471B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 684901

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10523695001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 3663798)
  - Mercury

R1: RPD value was outside control limits.

- MSD (Lab ID: 3663798)
  - Mercury

Additional Comments:

Analyte Comments:

QC Batch: 684901

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 3663797)
  - Mercury

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: B1903316.00 Fmr.Hillcrest Golf
Pace Project No.: 10523695

Sample: Sed-1 **Lab ID: 10523695001** Collected: 07/02/20 11:05 Received: 07/02/20 16:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**1.5**	mg/kg	0.040	1	07/06/20 12:35	07/08/20 06:40	7439-97-6	M1,R1
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**51.8**	%	0.10	1		07/07/20 14:10		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Fmr.Hillcrest Golf
Pace Project No.: 10523695

Sample: Sed-2 **Lab ID: 10523695002** Collected: 07/02/20 11:25 Received: 07/02/20 16:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.21**	mg/kg	0.039	1	07/06/20 12:35	07/08/20 06:51	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**55.1**	%	0.10	1		07/07/20 14:10		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Fmr.Hillcrest Golf
Pace Project No.: 10523695

Sample: Sed-3 **Lab ID: 10523695003** Collected: 07/02/20 11:55 Received: 07/02/20 16:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.56**	mg/kg	0.039	1	07/06/20 12:35	07/08/20 06:54	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**51.5**	%	0.10	1		07/07/20 14:10		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Fmr.Hillcrest Golf
Pace Project No.: 10523695

Sample: Sed-4 **Lab ID: 10523695004** Collected: 07/02/20 11:40 Received: 07/02/20 16:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.069**	mg/kg	0.028	1	07/06/20 12:35	07/08/20 06:56	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**34.5**	%	0.10	1		07/07/20 14:10		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Fmr.Hillcrest Golf
Pace Project No.: 10523695

Sample: Sed-5 **Lab ID: 10523695005** Collected: 07/02/20 12:15 Received: 07/02/20 16:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.10**	mg/kg	0.023	1	07/06/20 12:35	07/08/20 07:03	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**20.1**	%	0.10	1		07/07/20 14:10		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Fmr.Hillcrest Golf
Pace Project No.: 10523695

Sample: Sed-6 **Lab ID: 10523695006** Collected: 07/02/20 12:25 Received: 07/02/20 16:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**12.9**	mg/kg	0.54	20	07/06/20 12:35	07/08/20 08:50	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**33.2**	%	0.10	1		07/07/20 14:11		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Fmr.Hillcrest Golf
Pace Project No.: 10523695

Sample: Sed-7 **Lab ID: 10523695007** Collected: 07/02/20 12:45 Received: 07/02/20 16:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**11.7**	mg/kg	0.34	10	07/06/20 12:35	07/08/20 08:45	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**42.3**	%	0.10	1		07/07/20 14:11		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Fmr.Hillcrest Golf
Pace Project No.: 10523695

Sample: Sed-101 **Lab ID: 10523695008** Collected: 07/02/20 00:00 Received: 07/02/20 16:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.30**	mg/kg	0.040	1	07/06/20 12:35	07/08/20 07:14	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**51.6**	%	0.10	1		07/07/20 14:11		N2

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QUALITY CONTROL DATA

Project: B1903316.00 Fmr.Hillcrest Golf
Pace Project No.: 10523695

QC Batch: 684901
QC Batch Method: EPA 7471B
Analysis Method: EPA 7471B
Analysis Description: 7471B Mercury Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10523695001, 10523695002, 10523695003, 10523695004, 10523695005, 10523695006, 10523695007, 10523695008

METHOD BLANK: 3663795 Matrix: Solid
Associated Lab Samples: 10523695001, 10523695002, 10523695003, 10523695004, 10523695005, 10523695006, 10523695007, 10523695008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.018	07/08/20 06:36	

LABORATORY CONTROL SAMPLE: 3663796

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.45	0.45	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3663797 3663798

Parameter	Units	10523695001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	1.5	0.97	1	2.4	1.8	89	29	80-120	28	20	E,M1, R1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: B1903316.00 Fmr.Hillcrest Golf
Pace Project No.: 10523695

QC Batch: 685245
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10523695001, 10523695002, 10523695003, 10523695004, 10523695005, 10523695006, 10523695007, 10523695008

SAMPLE DUPLICATE: 3664970

Parameter	Units	10523513010 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.7	8.7	0	30	N2

SAMPLE DUPLICATE: 3665361

Parameter	Units	10523695008 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	51.6	52.0	1	30	N2

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: B1903316.00 Fmr.Hillcrest Golf
Pace Project No.: 10523695

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 10523695

[1]	Samples were received outside of the recommended temperature range of 0-6 degrees Celsius. The samples were received from the field on ice.

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B1903316.00 Fmr.Hillcrest Golf
Pace Project No.: 10523695

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10523695001	**Sed-1**	EPA 7471B	684901	EPA 7471B	685084
10523695002	**Sed-2**	EPA 7471B	684901	EPA 7471B	685084
10523695003	**Sed-3**	EPA 7471B	684901	EPA 7471B	685084
10523695004	**Sed-4**	EPA 7471B	684901	EPA 7471B	685084
10523695005	**Sed-5**	EPA 7471B	684901	EPA 7471B	685084
10523695006	**Sed-6**	EPA 7471B	684901	EPA 7471B	685084
10523695007	**Sed-7**	EPA 7471B	684901	EPA 7471B	685084
10523695008	**Sed-101**	EPA 7471B	684901	EPA 7471B	685084
10523695001	**Sed-1**	ASTM D2974	685245		
10523695002	**Sed-2**	ASTM D2974	685245		
10523695003	**Sed-3**	ASTM D2974	685245		
10523695004	**Sed-4**	ASTM D2974	685245		
10523695005	**Sed-5**	ASTM D2974	685245		
10523695006	**Sed-6**	ASTM D2974	685245		
10523695007	**Sed-7**	ASTM D2974	685245		
10523695008	**Sed-101**	ASTM D2974	685245		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2295218

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Braun Intertec	Report To: Ken Larsen	Attention: Same
Address: 11001 Hampshire Ave S, Minneapolis, MN	Copy To:	Company Name:
Email To:	Purchase Order No.:	Address:
Phone: Fax:	Project Name: Fmr. Hillcrest Golf Course	Pace Quote Reference:
Requested Due Date/TAT: Standard	Project Number: B1903316.00	Pace Project Manager:
		Pace Profile #: 35100

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MN

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COLLECTED: COMPOSITE START TIME	COLLECTED: COMPOSITE END/GRAB DATE	COLLECTED: COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	Preservatives: H_2SO_4	Preservatives: HNO_3	Preservatives: HCl	Preservatives: NaOH	Preservatives: $Na_2S_2O_3$	Preservatives: Methanol	Preservatives: Other	Analysis Test Y/N	Requested Analysis Filtered (Y/N): Total Hg	Res	Pace Project No./ Lab I.D.
1	Sed-1	SL	G	7-2	11:05				1	1											W1
2	Sed-2				11:25																W2
3	Sed-3				11:55																W3
4	Sed-4				11:40																W4
5	Sed-5				12:15																W5
6	Sed-6				12:35																W6
7	Sed-7				12:45																W7
8	Sed-101			↓	—				↓	↓											W8
9																					
10																					
11																					
12																					

WO#: 10523695

10523695

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Andrew Davis / BIC	7-2-20	14:52	[illegible] Zach	7/2/2020	14:52	7.5	Y	N	Y
	[illegible] Zach	7/2/2020	14:52	Chas D / Pace	7/2/20	15:20				
	Chas D / Pace	7/2/20	1610	TN / Pace	7/2/20	1610	6.3	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Andrew Davis

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 7-2-2020

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical®	Document Name: **Sample Condition Upon Receipt (SCUR) - MN**	Document Revised: 27Mar2020 **Page 1 of 1**
	Document No.: **ENV-FRM-MIN4-0150 Rev.00**	Pace Analytical Services - **Minneapolis**

Sample Condition Upon Receipt **Client Name:** Braun **Project #:** WO#: 10523695

PM: BM2 Due Date: 07/10/20
CLIENT: Braun-BLM

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Pace ☐ SpeeDee ☐ Commercial **See Exceptions** ☐

Tracking Number: _____

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No **Biological Tissue Frozen?** ☐ Yes ☐ No ☒ N/A

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other: _____ **Temp Blank?** ☒ Yes ☐ No

Thermometer: ☐ T1(0461) ☐ T2(1336) ☐ T3(0459) ☐ T4(0254) ☒ T5(0489) **Type of Ice:** ☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted

Did Samples Originate in West Virginia? ☐ Yes ☒ No **Were All Container Temps Taken?** ☐ Yes ☐ No ☒ N/A

Temp should be above freezing to 6°C **Cooler Temp Read w/temp blank:** 6.3 °C **Average Corrected Temp (no temp blank only):** ☐ See Exceptions ☐ 1 Container

Correction Factor: true **Cooler Temp Corrected w/temp blank:** 6.3 °C _____ °C

USDA Regulated Soil: (☒ N/A, water sample/Other: _____) BM 7/6/2020 **Date/Initials of Person Examining Contents:** TN 7/7/20

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present and Filled Out?	☒ Yes	☐ No		1.
Chain of Custody Relinquished?	☒ Yes	☐ No		2.
Sampler Name and/or Signature on COC?	☒ Yes	☐ No	☐ N/A	3.
Samples Arrived within Hold Time?	☒ Yes	☐ No		4.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No		5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other _____
Rush Turn Around Time Requested?	☐ Yes	☒ No		6.
Sufficient Volume?	☒ Yes	☐ No		7.
Correct Containers Used?	☒ Yes	☐ No		8.
-Pace Containers Used?	☒ Yes	☐ No		
Containers Intact?	☒ Yes	☐ No		9.
Field Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☒ N/A	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Is sufficient information available to reconcile the samples to the COC?	☒ Yes	☐ No		11. **If no, write ID/ Date/Time on Container Below:** **See Exception** ☐
Matrix: ☐ Water ☒ Soil ☐ Oil ☐ Other _____				
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☒ N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide)	☐ Yes	☐ No	☒ N/A	☐ NaOH ☐ HNO_3 ☐ H_2SO_4 ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☐ Yes	☐ No	☒ N/A	Positive for Res. Chlorine? ☐ Yes ☐ No **pH Paper Lot#** **See Exception** ☐
				Res. Chlorine | 0-6 Roll | 0-6 Strip | 0-14 Strip
Extra labels present on soil VOA or WIDRO containers?	☐ Yes	☐ No	☒ N/A	13. **See Exception** ☐
Headspace in VOA Vials (greater than 6mm)?	☐ Yes	☐ No	☒ N/A	
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	14.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: BM **Date:** 7/6/2020

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: _____

Service Center Transfer Checklist

Service Center: MPLS ☐ BLM ☒ AZ ☐

Client: Braun Intertec

Destination Lab: MPLS ☒ VM ☐ Duluth ☐

National ☐ Other _____

Received w/ Custody Seal ? Yes ☐ No ☒

Custody Seal Intact ? Yes ☐ No ☒

	Temp Read	Corr. Factor	Corr. Temp
Temperature °C	7.4	+0.1	7.5

IR Gun: B88A0143310092 ☒ Samples on ice, in cool down

Rush ☐ **Short Hold** ☐ **N/A** ☒

Containers Intact ? Yes ☒ No ☐

Repacked and Re-Iced ? Yes ☒ No ☐

Notes: _____

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

July 28, 2020

Ken Larsen
Braun Intertec
11001 Hampshire Ave S
Bloomington, MN 55438

RE: Project: B1903316.00 Fmr. Hillcrest GoI-Revised Report
Pace Project No.: 10523696

Dear Ken Larsen:

Enclosed are the analytical results for sample(s) received by the laboratory on July 02, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

This report was revised on July 28, 2020, to include results of total mercury for Pace samples 10523696002, 010, 014, 018, 026, 028, 032, 036.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bob Michels
bob.michels@pacelabs.com
(612)709-5046
Project Manager

Enclosures

cc: Mark Keefer, Braun Intertec

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CERTIFICATIONS

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Pace Analytical Services - Minneapolis MN

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

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SAMPLE SUMMARY

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10523696001	**DSS-1 (0-6'')**	Solid	07/02/20 10:07	07/02/20 16:10
10523696002	**DSS-1 (1-1.5')**	Solid	07/02/20 10:09	07/02/20 16:10
10523696003	**DSS-2 (0-6'')**	Solid	07/02/20 10:12	07/02/20 16:10
10523696004	**DSS-2 (1-1.5')**	Solid	07/02/20 10:15	07/02/20 16:10
10523696005	**DSS-3 (0-6'')**	Solid	07/02/20 10:19	07/02/20 16:10
10523696007	**DSS-4 (0-6'')**	Solid	07/02/20 09:32	07/02/20 16:10
10523696008	**DSS-4 (1-1.5')**	Solid	07/02/20 09:34	07/02/20 16:10
10523696009	**DSS-5 (0-6'')**	Solid	07/02/20 09:25	07/02/20 16:10
10523696010	**DSS-5 (1-1.5')**	Solid	07/02/20 09:27	07/02/20 16:10
10523696011	**DSS-6 (0-6'')**	Solid	07/02/20 08:57	07/02/20 16:10
10523696012	**DSS-6 (1-1.5')**	Solid	07/02/20 09:00	07/02/20 16:10
10523696013	**DSS-7 (0-6'')**	Solid	07/02/20 09:05	07/02/20 16:10
10523696014	**DSS-7 (1-1.5')**	Solid	07/02/20 09:07	07/02/20 16:10
10523696015	**DSS-8 (0-6'')**	Solid	07/02/20 09:10	07/02/20 16:10
10523696016	**DSS-8 (1-1.5')**	Solid	07/02/20 09:12	07/02/20 16:10
10523696017	**DSS-9 (0-6'')**	Solid	07/02/20 09:42	07/02/20 16:10
10523696018	**DSS-9 (1-1.5')**	Solid	07/02/20 09:45	07/02/20 16:10
10523696019	**DSS-10 (0-6'')**	Solid	07/02/20 09:50	07/02/20 16:10
10523696021	**DSS-11 (0-6'')**	Solid	07/02/20 09:56	07/02/20 16:10
10523696022	**DSS-11 (1-1.5')**	Solid	07/02/20 09:58	07/02/20 16:10
10523696023	**DSS-12 (0-6'')**	Solid	07/02/20 10:28	07/02/20 16:10
10523696025	**DSS-13 (0-6'')**	Solid	07/02/20 08:41	07/02/20 16:10
10523696026	**DSS-13 (1-1.5')**	Solid	07/02/20 08:43	07/02/20 16:10
10523696027	**DSS-14 (0-6'')**	Solid	07/02/20 08:30	07/02/20 16:10
10523696028	**DSS-14 (1-1.5')**	Solid	07/02/20 08:32	07/02/20 16:10
10523696029	**DSS-15 (0-6'')**	Solid	07/02/20 08:25	07/02/20 16:10
10523696030	**DSS-15 (1-1.5')**	Solid	07/02/20 08:27	07/02/20 16:10
10523696031	**DSS-16 (0-6'')**	Solid	07/02/20 08:15	07/02/20 16:10
10523696032	**DSS-16 (1-1.5')**	Solid	07/02/20 08:17	07/02/20 16:10
10523696033	**DSS-17 (0-6')**	Solid	07/02/20 08:10	07/02/20 16:10
10523696034	**DSS-17 (1-1.5')**	Solid	07/02/20 08:12	07/02/20 16:10
10523696035	**DSS-18 (0-6'')**	Solid	07/02/20 08:00	07/02/20 16:10
10523696036	**DSS-18 (1-1.5')**	Solid	07/02/20 08:02	07/02/20 16:10
10523696037	**DSS-101**	Solid	07/02/20 00:00	07/02/20 16:10
10523696038	**DSS-102**	Solid	07/02/20 00:00	07/02/20 16:10
10523696039	**Equipment Blank**	Water	07/02/20 00:00	07/02/20 16:10

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10523696001	**DSS-1 (0-6")**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10523696002	**DSS-1 (1-1.5')**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10523696003	**DSS-2 (0-6")**	EPA 6010D	IP	7	PASI-M
		EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	CH3, JZ	19	PASI-M
10523696004	**DSS-2 (1-1.5')**	EPA 6010D	IP	7	PASI-M
		EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	CH3, JZ	19	PASI-M
10523696005	**DSS-3 (0-6")**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10523696007	**DSS-4 (0-6")**	EPA 6010D	IP	7	PASI-M
		EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	CH3	19	PASI-M
10523696008	**DSS-4 (1-1.5')**	EPA 6010D	IP	7	PASI-M
		EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	CH3	19	PASI-M
10523696009	**DSS-5 (0-6")**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10523696010	**DSS-5 (1-1.5')**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10523696011	**DSS-6 (0-6")**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10523696012	**DSS-6 (1-1.5')**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10523696013	**DSS-7 (0-6")**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10523696014	**DSS-7 (1-1.5')**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10523696015	**DSS-8 (0-6")**	EPA 6010D	IP	7	PASI-M
		EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M

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SAMPLE ANALYTE COUNT

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8270E by SIM	CH3	19	PASI-M
10523696016	**DSS-8 (1-1.5')**	EPA 6010D	IP	7	PASI-M
		EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	CH3	19	PASI-M
10523696017	**DSS-9 (0-6'')**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10523696018	**DSS-9 (1-1.5')**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10523696019	**DSS-10 (0-6'')**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10523696021	**DSS-11 (0-6'')**	EPA 6010D	IP	7	PASI-M
		EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	CH3	19	PASI-M
10523696022	**DSS-11 (1-1.5')**	EPA 6010D	IP	7	PASI-M
		EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	CH3	19	PASI-M
10523696023	**DSS-12 (0-6'')**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10523696025	**DSS-13 (0-6'')**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10523696026	**DSS-13 (1-1.5')**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10523696027	**DSS-14 (0-6'')**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10523696028	**DSS-14 (1-1.5')**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10523696029	**DSS-15 (0-6'')**	EPA 6010D	IP	7	PASI-M
		EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	CH3	19	PASI-M
10523696030	**DSS-15 (1-1.5')**	EPA 6010D	IP	7	PASI-M
		EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	CH3	19	PASI-M

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SAMPLE ANALYTE COUNT

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10523696031	**DSS-16 (0-6'')**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10523696032	**DSS-16 (1-1.5')**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10523696033	**DSS-17 (0-6')**	EPA 6010D	IP	7	PASI-M
		EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	CH3	19	PASI-M
10523696034	**DSS-17 (1-1.5')**	EPA 6010D	IP	7	PASI-M
		EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	CH3	19	PASI-M
10523696035	**DSS-18 (0-6'')**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10523696036	**DSS-18 (1-1.5')**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10523696037	**DSS-101**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10523696038	**DSS-102**	EPA 6010D	IP	7	PASI-M
		EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	CH3	19	PASI-M
10523696039	**Equipment Blank**	EPA 7470A	BTS	1	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

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PROJECT NARRATIVE

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Method: **EPA 6010D**
Description: 6010D MET ICP
Client: Braun Intertec Corporation
Date: July 28, 2020

General Information:
13 samples were analyzed for EPA 6010D by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3050B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 684884

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- DSS-11 (0-6") (Lab ID: 10523696021)
  - Selenium

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Method: **EPA 7470A**
Description: 7470A Mercury
Client: Braun Intertec Corporation
Date: July 28, 2020

General Information:
1 sample was analyzed for EPA 7470A by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Method: **EPA 7471B**
Description: 7471B Mercury
Client: Braun Intertec Corporation
Date: July 28, 2020

General Information:
35 samples were analyzed for EPA 7471B by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7471B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Method: **EPA 8270E by SIM**
Description: 8270E MSSV PAH by SIM
Client: Braun Intertec Corporation
Date: July 28, 2020

General Information:
13 samples were analyzed for EPA 8270E by SIM by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3550C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 684933

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- DSS-2 (0-6") (Lab ID: 10523696003)
  - 2-Fluorobiphenyl (S)
- DSS-8 (1-1.5') (Lab ID: 10523696016)
  - 2-Fluorobiphenyl (S)

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PROJECT NARRATIVE

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Method: **EPA 8270E by SIM**
Description: 8270E MSSV PAH by SIM
Client: Braun Intertec Corporation
Date: July 28, 2020

Analyte Comments:

QC Batch: 684933

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- DSS-11 (0-6") (Lab ID: 10523696021)
  - Total BaP Eq. MN 2006sh. ND=0
- DSS-11 (1-1.5') (Lab ID: 10523696022)
  - Total BaP Eq. MN 2006sh. ND=0
- DSS-15 (0-6") (Lab ID: 10523696029)
  - Total BaP Eq. MN 2006sh. ND=0
- DSS-15 (1-1.5') (Lab ID: 10523696030)
  - Total BaP Eq. MN 2006sh. ND=0
- DSS-17 (0-6') (Lab ID: 10523696033)
  - Total BaP Eq. MN 2006sh. ND=0
- DSS-2 (0-6") (Lab ID: 10523696003)
  - Total BaP Eq. MN 2006sh. ND=0
- DSS-2 (1-1.5') (Lab ID: 10523696004)
  - Total BaP Eq. MN 2006sh. ND=0
- DSS-4 (0-6") (Lab ID: 10523696007)
  - Total BaP Eq. MN 2006sh. ND=0
- DSS-4 (1-1.5') (Lab ID: 10523696008)
  - Total BaP Eq. MN 2006sh. ND=0
- DSS-8 (0-6") (Lab ID: 10523696015)
  - Total BaP Eq. MN 2006sh. ND=0
- DSS-8 (1-1.5') (Lab ID: 10523696016)
  - Total BaP Eq. MN 2006sh. ND=0

QC Batch: 684935

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- DSS-102 (Lab ID: 10523696038)
  - Total BaP Eq. MN 2006sh. ND=0
- DSS-17 (1-1.5') (Lab ID: 10523696034)
  - Total BaP Eq. MN 2006sh. ND=0

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Sample: DSS-1 (0-6") **Lab ID: 10523696001** Collected: 07/02/20 10:07 Received: 07/02/20 16:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.37**	mg/kg	0.023	1	07/06/20 12:35	07/08/20 05:08	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**14.2**	%	0.10	1		07/07/20 14:11		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Sample: DSS-1 (1-1.5') **Lab ID: 10523696002** Collected: 07/02/20 10:09 Received: 07/02/20 16:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.38**	mg/kg	0.022	1	07/23/20 10:48	07/27/20 18:27	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**15.2**	%	0.10	1		07/24/20 10:47		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Sample: DSS-2 (0-6") **Lab ID: 10523696003** Collected: 07/02/20 10:12 Received: 07/02/20 16:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**2.7**	mg/kg	1.1	1	07/06/20 10:37	07/06/20 18:21	7440-38-2	
Barium	**44.0**	mg/kg	0.57	1	07/06/20 10:37	07/06/20 18:21	7440-39-3	
Cadmium	**0.42**	mg/kg	0.17	1	07/06/20 10:37	07/06/20 18:21	7440-43-9	
Chromium	**13.1**	mg/kg	0.57	1	07/06/20 10:37	07/06/20 18:21	7440-47-3	
Lead	**75.2**	mg/kg	0.57	1	07/06/20 10:37	07/06/20 18:21	7439-92-1	
Selenium	ND	mg/kg	1.1	1	07/06/20 10:37	07/06/20 18:21	7782-49-2	
Silver	ND	mg/kg	0.57	1	07/06/20 10:37	07/06/20 18:21	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.38**	mg/kg	0.023	1	07/06/20 10:59	07/08/20 02:59	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**12.8**	%	0.10	1		07/07/20 15:03		N2
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3550C Pace Analytical Services - Minneapolis							
Acenaphthene	ND	mg/kg	0.057	5	07/06/20 11:25	07/09/20 07:04	83-32-9	
Acenaphthylene	**0.53**	mg/kg	0.057	5	07/06/20 11:25	07/09/20 07:04	208-96-8	
Anthracene	**0.45**	mg/kg	0.057	5	07/06/20 11:25	07/09/20 07:04	120-12-7	
Benzo(a)anthracene	**1.6**	mg/kg	0.057	5	07/06/20 11:25	07/09/20 07:04	56-55-3	
Benzo(a)pyrene	**2.1**	mg/kg	0.11	10	07/06/20 11:25	07/09/20 19:02	50-32-8	
Benzo(b)fluoranthene	**3.0**	mg/kg	0.11	10	07/06/20 11:25	07/09/20 19:02	205-99-2	
Benzo(g,h,i)perylene	**1.7**	mg/kg	0.057	5	07/06/20 11:25	07/09/20 07:04	191-24-2	
Benzo(k)fluoranthene	**0.90**	mg/kg	0.057	5	07/06/20 11:25	07/09/20 07:04	207-08-9	
Chrysene	**1.7**	mg/kg	0.057	5	07/06/20 11:25	07/09/20 07:04	218-01-9	
Dibenz(a,h)anthracene	**0.37**	mg/kg	0.057	5	07/06/20 11:25	07/09/20 07:04	53-70-3	
Fluoranthene	**3.6**	mg/kg	0.23	20	07/06/20 11:25	07/10/20 21:22	206-44-0	
Fluorene	**0.10**	mg/kg	0.057	5	07/06/20 11:25	07/09/20 07:04	86-73-7	
Indeno(1,2,3-cd)pyrene	**1.4**	mg/kg	0.057	5	07/06/20 11:25	07/09/20 07:04	193-39-5	
Naphthalene	ND	mg/kg	0.057	5	07/06/20 11:25	07/09/20 07:04	91-20-3	
Phenanthrene	**1.7**	mg/kg	0.057	5	07/06/20 11:25	07/09/20 07:04	85-01-8	
Pyrene	**3.3**	mg/kg	0.11	10	07/06/20 11:25	07/09/20 19:02	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	**3.0**	mg/kg	0.11	10	07/06/20 11:25	07/09/20 19:02		N2
Surrogates								
2-Fluorobiphenyl (S)	73	%.	30-138	5	07/06/20 11:25	07/09/20 07:04	321-60-8	D3
p-Terphenyl-d14 (S)	69	%.	30-143	5	07/06/20 11:25	07/09/20 07:04	1718-51-0	

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ANALYTICAL RESULTS

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Sample: DSS-2 (1-1.5') **Lab ID: 10523696004** Collected: 07/02/20 10:15 Received: 07/02/20 16:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**2.7**	mg/kg	1.0	1	07/06/20 10:37	07/06/20 18:24	7440-38-2	
Barium	**51.5**	mg/kg	0.52	1	07/06/20 10:37	07/06/20 18:24	7440-39-3	
Cadmium	**0.43**	mg/kg	0.16	1	07/06/20 10:37	07/06/20 18:24	7440-43-9	
Chromium	**14.7**	mg/kg	0.52	1	07/06/20 10:37	07/06/20 18:24	7440-47-3	
Lead	**110**	mg/kg	0.52	1	07/06/20 10:37	07/06/20 18:24	7439-92-1	
Selenium	ND	mg/kg	1.0	1	07/06/20 10:37	07/06/20 18:24	7782-49-2	
Silver	ND	mg/kg	0.52	1	07/06/20 10:37	07/06/20 18:24	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.31**	mg/kg	0.021	1	07/06/20 10:59	07/08/20 03:01	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**12.5**	%	0.10	1		07/07/20 15:03		N2
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3550C Pace Analytical Services - Minneapolis							
Acenaphthene	**0.019**	mg/kg	0.011	1	07/06/20 11:25	07/09/20 07:25	83-32-9	
Acenaphthylene	**0.22**	mg/kg	0.011	1	07/06/20 11:25	07/09/20 07:25	208-96-8	
Anthracene	**0.20**	mg/kg	0.011	1	07/06/20 11:25	07/09/20 07:25	120-12-7	
Benzo(a)anthracene	**0.71**	mg/kg	0.11	10	07/06/20 11:25	07/13/20 12:14	56-55-3	
Benzo(a)pyrene	**0.87**	mg/kg	0.11	10	07/06/20 11:25	07/13/20 12:14	50-32-8	
Benzo(b)fluoranthene	**1.4**	mg/kg	0.11	10	07/06/20 11:25	07/13/20 12:14	205-99-2	
Benzo(g,h,i)perylene	**0.71**	mg/kg	0.11	10	07/06/20 11:25	07/13/20 12:14	191-24-2	
Benzo(k)fluoranthene	**0.49**	mg/kg	0.11	10	07/06/20 11:25	07/13/20 12:14	207-08-9	
Chrysene	**0.90**	mg/kg	0.11	10	07/06/20 11:25	07/13/20 12:14	218-01-9	
Dibenz(a,h)anthracene	**0.16**	mg/kg	0.011	1	07/06/20 11:25	07/09/20 07:25	53-70-3	
Fluoranthene	**2.1**	mg/kg	0.11	10	07/06/20 11:25	07/13/20 12:14	206-44-0	
Fluorene	**0.045**	mg/kg	0.011	1	07/06/20 11:25	07/09/20 07:25	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.60**	mg/kg	0.11	10	07/06/20 11:25	07/13/20 12:14	193-39-5	
Naphthalene	ND	mg/kg	0.011	1	07/06/20 11:25	07/09/20 07:25	91-20-3	
Phenanthrene	**0.84**	mg/kg	0.11	10	07/06/20 11:25	07/13/20 12:14	85-01-8	
Pyrene	**1.6**	mg/kg	0.11	10	07/06/20 11:25	07/13/20 12:14	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	**1.3**	mg/kg	0.11	10	07/06/20 11:25	07/13/20 12:14		N2
Surrogates								
2-Fluorobiphenyl (S)	77	%.	30-138	1	07/06/20 11:25	07/09/20 07:25	321-60-8	
p-Terphenyl-d14 (S)	72	%.	30-143	1	07/06/20 11:25	07/09/20 07:25	1718-51-0	

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ANALYTICAL RESULTS

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Sample: DSS-3 (0-6") **Lab ID: 10523696005** Collected: 07/02/20 10:19 Received: 07/02/20 16:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.11**	mg/kg	0.021	1	07/06/20 12:35	07/08/20 05:10	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**15.9**	%	0.10	1		07/07/20 15:03		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Sample: DSS-4 (0-6") **Lab ID: 10523696007** Collected: 07/02/20 09:32 Received: 07/02/20 16:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**5.7**	mg/kg	1.1	1	07/06/20 10:37	07/06/20 18:27	7440-38-2	
Barium	**83.3**	mg/kg	0.56	1	07/06/20 10:37	07/06/20 18:27	7440-39-3	
Cadmium	ND	mg/kg	0.17	1	07/06/20 10:37	07/06/20 18:27	7440-43-9	
Chromium	**18.4**	mg/kg	0.56	1	07/06/20 10:37	07/06/20 18:27	7440-47-3	
Lead	**10.1**	mg/kg	0.56	1	07/06/20 10:37	07/06/20 18:27	7439-92-1	
Selenium	ND	mg/kg	1.1	1	07/06/20 10:37	07/06/20 18:27	7782-49-2	
Silver	ND	mg/kg	0.56	1	07/06/20 10:37	07/06/20 18:27	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.080**	mg/kg	0.023	1	07/06/20 10:59	07/08/20 03:04	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**14.4**	%	0.10	1		07/07/20 15:04		N2
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3550C Pace Analytical Services - Minneapolis							
Acenaphthene	ND	mg/kg	0.012	1	07/06/20 11:25	07/09/20 07:46	83-32-9	
Acenaphthylene	ND	mg/kg	0.012	1	07/06/20 11:25	07/09/20 07:46	208-96-8	
Anthracene	ND	mg/kg	0.012	1	07/06/20 11:25	07/09/20 07:46	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.012	1	07/06/20 11:25	07/09/20 07:46	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.012	1	07/06/20 11:25	07/09/20 07:46	50-32-8	
Benzo(b)fluoranthene	**0.012**	mg/kg	0.012	1	07/06/20 11:25	07/09/20 07:46	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.012	1	07/06/20 11:25	07/09/20 07:46	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.012	1	07/06/20 11:25	07/09/20 07:46	207-08-9	
Chrysene	ND	mg/kg	0.012	1	07/06/20 11:25	07/09/20 07:46	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.012	1	07/06/20 11:25	07/09/20 07:46	53-70-3	
Fluoranthene	**0.014**	mg/kg	0.012	1	07/06/20 11:25	07/09/20 07:46	206-44-0	
Fluorene	ND	mg/kg	0.012	1	07/06/20 11:25	07/09/20 07:46	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.012	1	07/06/20 11:25	07/09/20 07:46	193-39-5	
Naphthalene	ND	mg/kg	0.012	1	07/06/20 11:25	07/09/20 07:46	91-20-3	
Phenanthrene	ND	mg/kg	0.012	1	07/06/20 11:25	07/09/20 07:46	85-01-8	
Pyrene	**0.012**	mg/kg	0.012	1	07/06/20 11:25	07/09/20 07:46	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	ND	mg/kg	0.012	1	07/06/20 11:25	07/09/20 07:46		N2
Surrogates								
2-Fluorobiphenyl (S)	81	%.	30-138	1	07/06/20 11:25	07/09/20 07:46	321-60-8	
p-Terphenyl-d14 (S)	82	%.	30-143	1	07/06/20 11:25	07/09/20 07:46	1718-51-0	

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ANALYTICAL RESULTS

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Sample: DSS-4 (1-1.5') **Lab ID: 10523696008** Collected: 07/02/20 09:34 Received: 07/02/20 16:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**5.8**	mg/kg	1.1	1	07/06/20 10:37	07/06/20 18:30	7440-38-2	
Barium	**79.6**	mg/kg	0.56	1	07/06/20 10:37	07/06/20 18:30	7440-39-3	
Cadmium	ND	mg/kg	0.17	1	07/06/20 10:37	07/06/20 18:30	7440-43-9	
Chromium	**18.7**	mg/kg	0.56	1	07/06/20 10:37	07/06/20 18:30	7440-47-3	
Lead	**8.0**	mg/kg	0.56	1	07/06/20 10:37	07/06/20 18:30	7439-92-1	
Selenium	ND	mg/kg	1.1	1	07/06/20 10:37	07/06/20 18:30	7782-49-2	
Silver	ND	mg/kg	0.56	1	07/06/20 10:37	07/06/20 18:30	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.062**	mg/kg	0.021	1	07/06/20 10:59	07/08/20 03:11	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**17.8**	%	0.10	1		07/07/20 15:04		N2
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3550C Pace Analytical Services - Minneapolis							
Acenaphthene	ND	mg/kg	0.012	1	07/06/20 11:25	07/09/20 08:07	83-32-9	
Acenaphthylene	ND	mg/kg	0.012	1	07/06/20 11:25	07/09/20 08:07	208-96-8	
Anthracene	ND	mg/kg	0.012	1	07/06/20 11:25	07/09/20 08:07	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.012	1	07/06/20 11:25	07/09/20 08:07	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.012	1	07/06/20 11:25	07/09/20 08:07	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.012	1	07/06/20 11:25	07/09/20 08:07	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.012	1	07/06/20 11:25	07/09/20 08:07	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.012	1	07/06/20 11:25	07/09/20 08:07	207-08-9	
Chrysene	ND	mg/kg	0.012	1	07/06/20 11:25	07/09/20 08:07	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.012	1	07/06/20 11:25	07/09/20 08:07	53-70-3	
Fluoranthene	ND	mg/kg	0.012	1	07/06/20 11:25	07/09/20 08:07	206-44-0	
Fluorene	ND	mg/kg	0.012	1	07/06/20 11:25	07/09/20 08:07	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.012	1	07/06/20 11:25	07/09/20 08:07	193-39-5	
Naphthalene	ND	mg/kg	0.012	1	07/06/20 11:25	07/09/20 08:07	91-20-3	
Phenanthrene	ND	mg/kg	0.012	1	07/06/20 11:25	07/09/20 08:07	85-01-8	
Pyrene	ND	mg/kg	0.012	1	07/06/20 11:25	07/09/20 08:07	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	ND	mg/kg	0.012	1	07/06/20 11:25	07/09/20 08:07		N2
Surrogates								
2-Fluorobiphenyl (S)	79	%.	30-138	1	07/06/20 11:25	07/09/20 08:07	321-60-8	
p-Terphenyl-d14 (S)	87	%.	30-143	1	07/06/20 11:25	07/09/20 08:07	1718-51-0	

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ANALYTICAL RESULTS

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Sample: DSS-5 (0-6") **Lab ID: 10523696009** Collected: 07/02/20 09:25 Received: 07/02/20 16:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.21**	mg/kg	0.021	1	07/06/20 12:35	07/08/20 05:17	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**14.0**	%	0.10	1		07/07/20 15:04		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Sample: DSS-5 (1-1.5') **Lab ID: 10523696010** Collected: 07/02/20 09:27 Received: 07/02/20 16:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.060**	mg/kg	0.023	1	07/23/20 10:48	07/27/20 18:29	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**15.9**	%	0.10	1		07/24/20 11:26		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Sample: DSS-6 (0-6") **Lab ID: 10523696011** Collected: 07/02/20 08:57 Received: 07/02/20 16:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.076**	mg/kg	0.023	1	07/06/20 12:35	07/08/20 05:19	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**17.5**	%	0.10	1		07/07/20 15:04		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Sample: DSS-6 (1-1.5') **Lab ID: 10523696012** Collected: 07/02/20 09:00 Received: 07/02/20 16:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.11**	mg/kg	0.023	1	07/06/20 12:35	07/08/20 05:22	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**14.2**	%	0.10	1		07/07/20 15:04		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Sample: DSS-7 (0-6") **Lab ID: 10523696013** Collected: 07/02/20 09:05 Received: 07/02/20 16:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**3.3**	mg/kg	0.12	5	07/06/20 12:35	07/08/20 08:28	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**17.0**	%	0.10	1		07/07/20 15:05		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Sample: DSS-7 (1-1.5') **Lab ID: 10523696014** Collected: 07/02/20 09:07 Received: 07/02/20 16:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.30**	mg/kg	0.023	1	07/23/20 10:48	07/27/20 18:30	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**15.8**	%	0.10	1		07/24/20 11:27		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Sample: DSS-8 (0-6") **Lab ID: 10523696015** Collected: 07/02/20 09:10 Received: 07/02/20 16:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**2.6**	mg/kg	1.1	1	07/06/20 10:37	07/06/20 18:33	7440-38-2	
Barium	**70.4**	mg/kg	0.53	1	07/06/20 10:37	07/06/20 18:33	7440-39-3	
Cadmium	**0.20**	mg/kg	0.16	1	07/06/20 10:37	07/06/20 18:33	7440-43-9	
Chromium	**14.8**	mg/kg	0.53	1	07/06/20 10:37	07/06/20 18:33	7440-47-3	
Lead	**11.4**	mg/kg	0.53	1	07/06/20 10:37	07/06/20 18:33	7439-92-1	
Selenium	ND	mg/kg	1.1	1	07/06/20 10:37	07/06/20 18:33	7782-49-2	
Silver	ND	mg/kg	0.53	1	07/06/20 10:37	07/06/20 18:33	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.31**	mg/kg	0.023	1	07/06/20 10:59	07/08/20 03:13	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**14.4**	%	0.10	1		07/07/20 15:05		N2
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3550C Pace Analytical Services - Minneapolis							
Acenaphthene	ND	mg/kg	0.012	1	07/06/20 11:25	07/09/20 08:28	83-32-9	
Acenaphthylene	ND	mg/kg	0.012	1	07/06/20 11:25	07/09/20 08:28	208-96-8	
Anthracene	ND	mg/kg	0.012	1	07/06/20 11:25	07/09/20 08:28	120-12-7	
Benzo(a)anthracene	**0.069**	mg/kg	0.012	1	07/06/20 11:25	07/09/20 08:28	56-55-3	
Benzo(a)pyrene	**0.079**	mg/kg	0.012	1	07/06/20 11:25	07/09/20 08:28	50-32-8	
Benzo(b)fluoranthene	**0.12**	mg/kg	0.012	1	07/06/20 11:25	07/09/20 08:28	205-99-2	
Benzo(g,h,i)perylene	**0.059**	mg/kg	0.012	1	07/06/20 11:25	07/09/20 08:28	191-24-2	
Benzo(k)fluoranthene	**0.040**	mg/kg	0.012	1	07/06/20 11:25	07/09/20 08:28	207-08-9	
Chrysene	**0.066**	mg/kg	0.012	1	07/06/20 11:25	07/09/20 08:28	218-01-9	
Dibenz(a,h)anthracene	**0.014**	mg/kg	0.012	1	07/06/20 11:25	07/09/20 08:28	53-70-3	
Fluoranthene	**0.18**	mg/kg	0.012	1	07/06/20 11:25	07/09/20 08:28	206-44-0	
Fluorene	ND	mg/kg	0.012	1	07/06/20 11:25	07/09/20 08:28	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.046**	mg/kg	0.012	1	07/06/20 11:25	07/09/20 08:28	193-39-5	
Naphthalene	ND	mg/kg	0.012	1	07/06/20 11:25	07/09/20 08:28	91-20-3	
Phenanthrene	**0.053**	mg/kg	0.012	1	07/06/20 11:25	07/09/20 08:28	85-01-8	
Pyrene	**0.13**	mg/kg	0.012	1	07/06/20 11:25	07/09/20 08:28	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	**0.11**	mg/kg	0.012	1	07/06/20 11:25	07/09/20 08:28		N2
Surrogates								
2-Fluorobiphenyl (S)	74	%.	30-138	1	07/06/20 11:25	07/09/20 08:28	321-60-8	
p-Terphenyl-d14 (S)	73	%.	30-143	1	07/06/20 11:25	07/09/20 08:28	1718-51-0	

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ANALYTICAL RESULTS

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Sample: DSS-8 (1-1.5') **Lab ID: 10523696016** Collected: 07/02/20 09:12 Received: 07/02/20 16:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**2.5**	mg/kg	1.1	1	07/06/20 10:37	07/06/20 18:42	7440-38-2	
Barium	**55.6**	mg/kg	0.55	1	07/06/20 10:37	07/06/20 18:42	7440-39-3	
Cadmium	**0.17**	mg/kg	0.16	1	07/06/20 10:37	07/06/20 18:42	7440-43-9	
Chromium	**14.3**	mg/kg	0.55	1	07/06/20 10:37	07/06/20 18:42	7440-47-3	
Lead	**10.2**	mg/kg	0.55	1	07/06/20 10:37	07/06/20 18:42	7439-92-1	
Selenium	ND	mg/kg	1.1	1	07/06/20 10:37	07/06/20 18:42	7782-49-2	
Silver	ND	mg/kg	0.55	1	07/06/20 10:37	07/06/20 18:42	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.30**	mg/kg	0.022	1	07/06/20 10:59	07/08/20 03:16	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**12.3**	%	0.10	1		07/07/20 15:05		N2
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3550C Pace Analytical Services - Minneapolis							
Acenaphthene	ND	mg/kg	0.057	5	07/06/20 11:25	07/09/20 16:11	83-32-9	
Acenaphthylene	ND	mg/kg	0.057	5	07/06/20 11:25	07/09/20 16:11	208-96-8	
Anthracene	ND	mg/kg	0.057	5	07/06/20 11:25	07/09/20 16:11	120-12-7	
Benzo(a)anthracene	**0.15**	mg/kg	0.057	5	07/06/20 11:25	07/09/20 16:11	56-55-3	
Benzo(a)pyrene	**0.14**	mg/kg	0.057	5	07/06/20 11:25	07/09/20 16:11	50-32-8	
Benzo(b)fluoranthene	**0.23**	mg/kg	0.057	5	07/06/20 11:25	07/09/20 16:11	205-99-2	
Benzo(g,h,i)perylene	**0.12**	mg/kg	0.057	5	07/06/20 11:25	07/09/20 16:11	191-24-2	
Benzo(k)fluoranthene	**0.083**	mg/kg	0.057	5	07/06/20 11:25	07/09/20 16:11	207-08-9	
Chrysene	**0.15**	mg/kg	0.057	5	07/06/20 11:25	07/09/20 16:11	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.057	5	07/06/20 11:25	07/09/20 16:11	53-70-3	
Fluoranthene	**0.30**	mg/kg	0.057	5	07/06/20 11:25	07/09/20 16:11	206-44-0	
Fluorene	ND	mg/kg	0.057	5	07/06/20 11:25	07/09/20 16:11	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.083**	mg/kg	0.057	5	07/06/20 11:25	07/09/20 16:11	193-39-5	
Naphthalene	ND	mg/kg	0.057	5	07/06/20 11:25	07/09/20 16:11	91-20-3	
Phenanthrene	**0.12**	mg/kg	0.057	5	07/06/20 11:25	07/09/20 16:11	85-01-8	
Pyrene	**0.24**	mg/kg	0.057	5	07/06/20 11:25	07/09/20 16:11	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	**0.20**	mg/kg	0.057	5	07/06/20 11:25	07/09/20 16:11		N2
Surrogates								
2-Fluorobiphenyl (S)	79	%.	30-138	5	07/06/20 11:25	07/09/20 16:11	321-60-8	D3
p-Terphenyl-d14 (S)	82	%.	30-143	5	07/06/20 11:25	07/09/20 16:11	1718-51-0	

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ANALYTICAL RESULTS

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Sample: DSS-9 (0-6") **Lab ID: 10523696017** Collected: 07/02/20 09:42 Received: 07/02/20 16:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.52**	mg/kg	0.023	1	07/06/20 12:35	07/08/20 05:33	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**14.1**	%	0.10	1		07/07/20 15:05		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Sample: DSS-9 (1-1.5') **Lab ID: 10523696018** Collected: 07/02/20 09:45 Received: 07/02/20 16:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.099**	mg/kg	0.021	1	07/23/20 10:48	07/27/20 18:32	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**9.4**	%	0.10	1		07/24/20 11:27		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Sample: DSS-10 (0-6") **Lab ID: 10523696019** Collected: 07/02/20 09:50 Received: 07/02/20 16:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.16**	mg/kg	0.022	1	07/06/20 12:35	07/08/20 05:40	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**14.1**	%	0.10	1		07/07/20 15:05		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Sample: DSS-11 (0-6") **Lab ID: 10523696021** Collected: 07/02/20 09:56 Received: 07/02/20 16:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**2.3**	mg/kg	1.0	1	07/06/20 10:37	07/06/20 18:45	7440-38-2	
Barium	**19.9**	mg/kg	0.51	1	07/06/20 10:37	07/06/20 18:45	7440-39-3	
Cadmium	**0.17**	mg/kg	0.15	1	07/06/20 10:37	07/06/20 18:45	7440-43-9	
Chromium	**5.8**	mg/kg	0.51	1	07/06/20 10:37	07/06/20 18:45	7440-47-3	
Lead	**9.5**	mg/kg	0.51	1	07/06/20 10:37	07/06/20 18:45	7439-92-1	
Selenium	ND	mg/kg	5.1	5	07/06/20 10:37	07/07/20 11:30	7782-49-2	D3
Silver	ND	mg/kg	0.51	1	07/06/20 10:37	07/06/20 18:45	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.29**	mg/kg	0.020	1	07/06/20 10:59	07/08/20 03:18	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**7.7**	%	0.10	1		07/07/20 15:05		N2
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3550C Pace Analytical Services - Minneapolis							
Acenaphthene	ND	mg/kg	0.011	1	07/06/20 11:25	07/09/20 16:32	83-32-9	
Acenaphthylene	ND	mg/kg	0.011	1	07/06/20 11:25	07/09/20 16:32	208-96-8	
Anthracene	ND	mg/kg	0.011	1	07/06/20 11:25	07/09/20 16:32	120-12-7	
Benzo(a)anthracene	**0.048**	mg/kg	0.011	1	07/06/20 11:25	07/09/20 16:32	56-55-3	
Benzo(a)pyrene	**0.056**	mg/kg	0.011	1	07/06/20 11:25	07/09/20 16:32	50-32-8	
Benzo(b)fluoranthene	**0.080**	mg/kg	0.011	1	07/06/20 11:25	07/09/20 16:32	205-99-2	
Benzo(g,h,i)perylene	**0.046**	mg/kg	0.011	1	07/06/20 11:25	07/09/20 16:32	191-24-2	
Benzo(k)fluoranthene	**0.035**	mg/kg	0.011	1	07/06/20 11:25	07/09/20 16:32	207-08-9	
Chrysene	**0.056**	mg/kg	0.011	1	07/06/20 11:25	07/09/20 16:32	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.011	1	07/06/20 11:25	07/09/20 16:32	53-70-3	
Fluoranthene	**0.12**	mg/kg	0.011	1	07/06/20 11:25	07/09/20 16:32	206-44-0	
Fluorene	ND	mg/kg	0.011	1	07/06/20 11:25	07/09/20 16:32	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.033**	mg/kg	0.011	1	07/06/20 11:25	07/09/20 16:32	193-39-5	
Naphthalene	ND	mg/kg	0.011	1	07/06/20 11:25	07/09/20 16:32	91-20-3	
Phenanthrene	**0.035**	mg/kg	0.011	1	07/06/20 11:25	07/09/20 16:32	85-01-8	
Pyrene	**0.094**	mg/kg	0.011	1	07/06/20 11:25	07/09/20 16:32	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	**0.076**	mg/kg	0.011	1	07/06/20 11:25	07/09/20 16:32		N2
Surrogates								
2-Fluorobiphenyl (S)	67	%.	30-138	1	07/06/20 11:25	07/09/20 16:32	321-60-8	
p-Terphenyl-d14 (S)	78	%.	30-143	1	07/06/20 11:25	07/09/20 16:32	1718-51-0	

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ANALYTICAL RESULTS

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Sample: DSS-11 (1-1.5') **Lab ID: 10523696022** Collected: 07/02/20 09:58 Received: 07/02/20 16:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**2.3**	mg/kg	1.1	1	07/06/20 10:37	07/06/20 18:48	7440-38-2	
Barium	**51.0**	mg/kg	0.53	1	07/06/20 10:37	07/06/20 18:48	7440-39-3	
Cadmium	ND	mg/kg	0.16	1	07/06/20 10:37	07/06/20 18:48	7440-43-9	
Chromium	**15.2**	mg/kg	0.53	1	07/06/20 10:37	07/06/20 18:48	7440-47-3	
Lead	**7.4**	mg/kg	0.53	1	07/06/20 10:37	07/06/20 18:48	7439-92-1	
Selenium	ND	mg/kg	1.1	1	07/06/20 10:37	07/06/20 18:48	7782-49-2	
Silver	ND	mg/kg	0.53	1	07/06/20 10:37	07/06/20 18:48	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.089**	mg/kg	0.022	1	07/06/20 10:59	07/08/20 03:20	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**11.6**	%	0.10	1		07/07/20 15:06		N2
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3550C Pace Analytical Services - Minneapolis							
Acenaphthene	ND	mg/kg	0.011	1	07/06/20 11:25	07/09/20 16:54	83-32-9	
Acenaphthylene	ND	mg/kg	0.011	1	07/06/20 11:25	07/09/20 16:54	208-96-8	
Anthracene	ND	mg/kg	0.011	1	07/06/20 11:25	07/09/20 16:54	120-12-7	
Benzo(a)anthracene	**0.032**	mg/kg	0.011	1	07/06/20 11:25	07/09/20 16:54	56-55-3	
Benzo(a)pyrene	**0.041**	mg/kg	0.011	1	07/06/20 11:25	07/09/20 16:54	50-32-8	
Benzo(b)fluoranthene	**0.056**	mg/kg	0.011	1	07/06/20 11:25	07/09/20 16:54	205-99-2	
Benzo(g,h,i)perylene	**0.032**	mg/kg	0.011	1	07/06/20 11:25	07/09/20 16:54	191-24-2	
Benzo(k)fluoranthene	**0.024**	mg/kg	0.011	1	07/06/20 11:25	07/09/20 16:54	207-08-9	
Chrysene	**0.037**	mg/kg	0.011	1	07/06/20 11:25	07/09/20 16:54	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.011	1	07/06/20 11:25	07/09/20 16:54	53-70-3	
Fluoranthene	**0.082**	mg/kg	0.011	1	07/06/20 11:25	07/09/20 16:54	206-44-0	
Fluorene	ND	mg/kg	0.011	1	07/06/20 11:25	07/09/20 16:54	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.025**	mg/kg	0.011	1	07/06/20 11:25	07/09/20 16:54	193-39-5	
Naphthalene	ND	mg/kg	0.011	1	07/06/20 11:25	07/09/20 16:54	91-20-3	
Phenanthrene	**0.027**	mg/kg	0.011	1	07/06/20 11:25	07/09/20 16:54	85-01-8	
Pyrene	**0.061**	mg/kg	0.011	1	07/06/20 11:25	07/09/20 16:54	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	**0.055**	mg/kg	0.011	1	07/06/20 11:25	07/09/20 16:54		N2
Surrogates								
2-Fluorobiphenyl (S)	75	%.	30-138	1	07/06/20 11:25	07/09/20 16:54	321-60-8	
p-Terphenyl-d14 (S)	82	%.	30-143	1	07/06/20 11:25	07/09/20 16:54	1718-51-0	

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(612)607-1700

ANALYTICAL RESULTS

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Sample: DSS-12 (0-6") **Lab ID: 10523696023** Collected: 07/02/20 10:28 Received: 07/02/20 16:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.042**	mg/kg	0.022	1	07/06/20 12:35	07/08/20 05:42	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**16.2**	%	0.10	1		07/07/20 15:06		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Sample: DSS-13 (0-6") **Lab ID: 10523696025** Collected: 07/02/20 08:41 Received: 07/02/20 16:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**2.0**	mg/kg	0.044	2	07/06/20 12:35	07/08/20 08:30	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**15.2**	%	0.10	1		07/07/20 15:06		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Sample: DSS-13 (1-1.5') **Lab ID: 10523696026** Collected: 07/02/20 08:43 Received: 07/02/20 16:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**1.7**	mg/kg	0.11	5	07/23/20 10:48	07/27/20 23:00	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**14.3**	%	0.10	1		07/24/20 11:27		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Sample: DSS-14 (0-6'') **Lab ID: 10523696027** Collected: 07/02/20 08:30 Received: 07/02/20 16:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**4.1**	mg/kg	0.12	5	07/06/20 12:35	07/08/20 08:34	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**18.3**	%	0.10	1		07/07/20 15:06		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Sample: DSS-14 (1-1.5') **Lab ID: 10523696028** Collected: 07/02/20 08:32 Received: 07/02/20 16:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.91**	mg/kg	0.021	1	07/23/20 10:48	07/27/20 18:36	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**14.7**	%	0.10	1		07/24/20 11:27		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Sample: DSS-15 (0-6") **Lab ID: 10523696029** Collected: 07/02/20 08:25 Received: 07/02/20 16:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**2.1**	mg/kg	1.0	1	07/06/20 10:37	07/06/20 18:51	7440-38-2	
Barium	**47.5**	mg/kg	0.52	1	07/06/20 10:37	07/06/20 18:51	7440-39-3	
Cadmium	ND	mg/kg	0.16	1	07/06/20 10:37	07/06/20 18:51	7440-43-9	
Chromium	**34.3**	mg/kg	0.52	1	07/06/20 10:37	07/06/20 18:51	7440-47-3	
Lead	**8.7**	mg/kg	0.52	1	07/06/20 10:37	07/06/20 18:51	7439-92-1	
Selenium	ND	mg/kg	1.0	1	07/06/20 10:37	07/06/20 18:51	7782-49-2	
Silver	ND	mg/kg	0.52	1	07/06/20 10:37	07/06/20 18:51	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.31**	mg/kg	0.022	1	07/06/20 10:59	07/08/20 03:23	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**12.2**	%	0.10	1		07/07/20 15:06		N2
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3550C Pace Analytical Services - Minneapolis							
Acenaphthene	ND	mg/kg	0.011	1	07/06/20 11:25	07/09/20 17:15	83-32-9	
Acenaphthylene	ND	mg/kg	0.011	1	07/06/20 11:25	07/09/20 17:15	208-96-8	
Anthracene	ND	mg/kg	0.011	1	07/06/20 11:25	07/09/20 17:15	120-12-7	
Benzo(a)anthracene	**0.017**	mg/kg	0.011	1	07/06/20 11:25	07/09/20 17:15	56-55-3	
Benzo(a)pyrene	**0.020**	mg/kg	0.011	1	07/06/20 11:25	07/09/20 17:15	50-32-8	
Benzo(b)fluoranthene	**0.022**	mg/kg	0.011	1	07/06/20 11:25	07/09/20 17:15	205-99-2	
Benzo(g,h,i)perylene	**0.013**	mg/kg	0.011	1	07/06/20 11:25	07/09/20 17:15	191-24-2	
Benzo(k)fluoranthene	**0.012**	mg/kg	0.011	1	07/06/20 11:25	07/09/20 17:15	207-08-9	
Chrysene	**0.022**	mg/kg	0.011	1	07/06/20 11:25	07/09/20 17:15	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.011	1	07/06/20 11:25	07/09/20 17:15	53-70-3	
Fluoranthene	**0.048**	mg/kg	0.011	1	07/06/20 11:25	07/09/20 17:15	206-44-0	
Fluorene	ND	mg/kg	0.011	1	07/06/20 11:25	07/09/20 17:15	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.011	1	07/06/20 11:25	07/09/20 17:15	193-39-5	
Naphthalene	ND	mg/kg	0.011	1	07/06/20 11:25	07/09/20 17:15	91-20-3	
Phenanthrene	**0.027**	mg/kg	0.011	1	07/06/20 11:25	07/09/20 17:15	85-01-8	
Pyrene	**0.033**	mg/kg	0.011	1	07/06/20 11:25	07/09/20 17:15	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	**0.025**	mg/kg	0.011	1	07/06/20 11:25	07/09/20 17:15		N2
Surrogates								
2-Fluorobiphenyl (S)	76	%.	30-138	1	07/06/20 11:25	07/09/20 17:15	321-60-8	
p-Terphenyl-d14 (S)	74	%.	30-143	1	07/06/20 11:25	07/09/20 17:15	1718-51-0	

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ANALYTICAL RESULTS

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Sample: DSS-15 (1-1.5') **Lab ID: 10523696030** Collected: 07/02/20 08:27 Received: 07/02/20 16:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**2.4**	mg/kg	1.1	1	07/06/20 10:37	07/06/20 18:54	7440-38-2	
Barium	**47.3**	mg/kg	0.54	1	07/06/20 10:37	07/06/20 18:54	7440-39-3	
Cadmium	ND	mg/kg	0.16	1	07/06/20 10:37	07/06/20 18:54	7440-43-9	
Chromium	**17.9**	mg/kg	0.54	1	07/06/20 10:37	07/06/20 18:54	7440-47-3	
Lead	**6.2**	mg/kg	0.54	1	07/06/20 10:37	07/06/20 18:54	7439-92-1	
Selenium	ND	mg/kg	1.1	1	07/06/20 10:37	07/06/20 18:54	7782-49-2	
Silver	ND	mg/kg	0.54	1	07/06/20 10:37	07/06/20 18:54	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.24**	mg/kg	0.021	1	07/06/20 10:59	07/08/20 03:25	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**11.6**	%	0.10	1		07/07/20 15:07		N2
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3550C Pace Analytical Services - Minneapolis							
Acenaphthene	ND	mg/kg	0.011	1	07/06/20 11:25	07/09/20 17:37	83-32-9	
Acenaphthylene	ND	mg/kg	0.011	1	07/06/20 11:25	07/09/20 17:37	208-96-8	
Anthracene	ND	mg/kg	0.011	1	07/06/20 11:25	07/09/20 17:37	120-12-7	
Benzo(a)anthracene	**0.013**	mg/kg	0.011	1	07/06/20 11:25	07/09/20 17:37	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.011	1	07/06/20 11:25	07/09/20 17:37	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.011	1	07/06/20 11:25	07/09/20 17:37	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.011	1	07/06/20 11:25	07/09/20 17:37	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.011	1	07/06/20 11:25	07/09/20 17:37	207-08-9	
Chrysene	ND	mg/kg	0.011	1	07/06/20 11:25	07/09/20 17:37	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.011	1	07/06/20 11:25	07/09/20 17:37	53-70-3	
Fluoranthene	**0.022**	mg/kg	0.011	1	07/06/20 11:25	07/09/20 17:37	206-44-0	
Fluorene	ND	mg/kg	0.011	1	07/06/20 11:25	07/09/20 17:37	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.011	1	07/06/20 11:25	07/09/20 17:37	193-39-5	
Naphthalene	ND	mg/kg	0.011	1	07/06/20 11:25	07/09/20 17:37	91-20-3	
Phenanthrene	**0.016**	mg/kg	0.011	1	07/06/20 11:25	07/09/20 17:37	85-01-8	
Pyrene	**0.019**	mg/kg	0.011	1	07/06/20 11:25	07/09/20 17:37	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	ND	mg/kg	0.011	1	07/06/20 11:25	07/09/20 17:37		N2
Surrogates								
2-Fluorobiphenyl (S)	74	%.	30-138	1	07/06/20 11:25	07/09/20 17:37	321-60-8	
p-Terphenyl-d14 (S)	88	%.	30-143	1	07/06/20 11:25	07/09/20 17:37	1718-51-0	

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ANALYTICAL RESULTS

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Sample: DSS-16 (0-6") **Lab ID: 10523696031** Collected: 07/02/20 08:15 Received: 07/02/20 16:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**1.6**	mg/kg	0.043	2	07/06/20 12:35	07/08/20 08:36	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**18.2**	%	0.10	1		07/08/20 12:48		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Sample: DSS-16 (1-1.5') **Lab ID: 10523696032** Collected: 07/02/20 08:17 Received: 07/02/20 16:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.11**	mg/kg	0.025	1	07/23/20 10:48	07/27/20 18:37	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**18.6**	%	0.10	1		07/24/20 11:27		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Sample: DSS-17 (0-6') **Lab ID: 10523696033** Collected: 07/02/20 08:10 Received: 07/02/20 16:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**3.6**	mg/kg	1.2	1	07/06/20 10:37	07/06/20 18:57	7440-38-2	
Barium	**67.6**	mg/kg	0.58	1	07/06/20 10:37	07/06/20 18:57	7440-39-3	
Cadmium	**0.32**	mg/kg	0.17	1	07/06/20 10:37	07/06/20 18:57	7440-43-9	
Chromium	**18.0**	mg/kg	0.58	1	07/06/20 10:37	07/06/20 18:57	7440-47-3	
Lead	**13.7**	mg/kg	0.58	1	07/06/20 10:37	07/06/20 18:57	7439-92-1	
Selenium	ND	mg/kg	1.2	1	07/06/20 10:37	07/06/20 18:57	7782-49-2	
Silver	ND	mg/kg	0.58	1	07/06/20 10:37	07/06/20 18:57	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.79**	mg/kg	0.023	1	07/06/20 10:59	07/08/20 03:27	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**16.6**	%	0.10	1		07/08/20 12:49		N2
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3550C Pace Analytical Services - Minneapolis							
Acenaphthene	ND	mg/kg	0.012	1	07/06/20 11:25	07/09/20 17:58	83-32-9	
Acenaphthylene	**0.014**	mg/kg	0.012	1	07/06/20 11:25	07/09/20 17:58	208-96-8	
Anthracene	**0.033**	mg/kg	0.012	1	07/06/20 11:25	07/09/20 17:58	120-12-7	
Benzo(a)anthracene	**0.17**	mg/kg	0.012	1	07/06/20 11:25	07/09/20 17:58	56-55-3	
Benzo(a)pyrene	**0.15**	mg/kg	0.012	1	07/06/20 11:25	07/09/20 17:58	50-32-8	
Benzo(b)fluoranthene	**0.21**	mg/kg	0.012	1	07/06/20 11:25	07/09/20 17:58	205-99-2	
Benzo(g,h,i)perylene	**0.11**	mg/kg	0.012	1	07/06/20 11:25	07/09/20 17:58	191-24-2	
Benzo(k)fluoranthene	**0.099**	mg/kg	0.012	1	07/06/20 11:25	07/09/20 17:58	207-08-9	
Chrysene	**0.13**	mg/kg	0.012	1	07/06/20 11:25	07/09/20 17:58	218-01-9	
Dibenz(a,h)anthracene	**0.028**	mg/kg	0.012	1	07/06/20 11:25	07/09/20 17:58	53-70-3	
Fluoranthene	**0.35**	mg/kg	0.012	1	07/06/20 11:25	07/09/20 17:58	206-44-0	
Fluorene	ND	mg/kg	0.012	1	07/06/20 11:25	07/09/20 17:58	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.090**	mg/kg	0.012	1	07/06/20 11:25	07/09/20 17:58	193-39-5	
Naphthalene	ND	mg/kg	0.012	1	07/06/20 11:25	07/09/20 17:58	91-20-3	
Phenanthrene	**0.092**	mg/kg	0.012	1	07/06/20 11:25	07/09/20 17:58	85-01-8	
Pyrene	**0.26**	mg/kg	0.012	1	07/06/20 11:25	07/09/20 17:58	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	**0.23**	mg/kg	0.012	1	07/06/20 11:25	07/09/20 17:58		N2
Surrogates								
2-Fluorobiphenyl (S)	73	%.	30-138	1	07/06/20 11:25	07/09/20 17:58	321-60-8	
p-Terphenyl-d14 (S)	83	%.	30-143	1	07/06/20 11:25	07/09/20 17:58	1718-51-0	

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ANALYTICAL RESULTS

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Sample: DSS-17 (1-1.5') **Lab ID: 10523696034** Collected: 07/02/20 08:12 Received: 07/02/20 16:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**2.3**	mg/kg	1.1	1	07/06/20 10:37	07/06/20 19:00	7440-38-2	
Barium	**46.9**	mg/kg	0.54	1	07/06/20 10:37	07/06/20 19:00	7440-39-3	
Cadmium	**0.38**	mg/kg	0.16	1	07/06/20 10:37	07/06/20 19:00	7440-43-9	
Chromium	**17.6**	mg/kg	0.54	1	07/06/20 10:37	07/06/20 19:00	7440-47-3	
Lead	**4.9**	mg/kg	0.54	1	07/06/20 10:37	07/06/20 19:00	7439-92-1	
Selenium	ND	mg/kg	1.1	1	07/06/20 10:37	07/06/20 19:00	7782-49-2	
Silver	ND	mg/kg	0.54	1	07/06/20 10:37	07/06/20 19:00	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.062**	mg/kg	0.020	1	07/06/20 10:59	07/08/20 03:30	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**12.5**	%	0.10	1		07/08/20 12:49		N2
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3550C Pace Analytical Services - Minneapolis							
Acenaphthene	ND	mg/kg	0.011	1	07/06/20 13:18	07/09/20 05:13	83-32-9	
Acenaphthylene	ND	mg/kg	0.011	1	07/06/20 13:18	07/09/20 05:13	208-96-8	
Anthracene	ND	mg/kg	0.011	1	07/06/20 13:18	07/09/20 05:13	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.011	1	07/06/20 13:18	07/09/20 05:13	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.011	1	07/06/20 13:18	07/09/20 05:13	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.011	1	07/06/20 13:18	07/09/20 05:13	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.011	1	07/06/20 13:18	07/09/20 05:13	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.011	1	07/06/20 13:18	07/09/20 05:13	207-08-9	
Chrysene	ND	mg/kg	0.011	1	07/06/20 13:18	07/09/20 05:13	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.011	1	07/06/20 13:18	07/09/20 05:13	53-70-3	
Fluoranthene	ND	mg/kg	0.011	1	07/06/20 13:18	07/09/20 05:13	206-44-0	
Fluorene	ND	mg/kg	0.011	1	07/06/20 13:18	07/09/20 05:13	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.011	1	07/06/20 13:18	07/09/20 05:13	193-39-5	
Naphthalene	ND	mg/kg	0.011	1	07/06/20 13:18	07/09/20 05:13	91-20-3	
Phenanthrene	ND	mg/kg	0.011	1	07/06/20 13:18	07/09/20 05:13	85-01-8	
Pyrene	ND	mg/kg	0.011	1	07/06/20 13:18	07/09/20 05:13	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	ND	mg/kg	0.011	1	07/06/20 13:18	07/09/20 05:13		N2
Surrogates								
2-Fluorobiphenyl (S)	77	%.	30-138	1	07/06/20 13:18	07/09/20 05:13	321-60-8	
p-Terphenyl-d14 (S)	87	%.	30-143	1	07/06/20 13:18	07/09/20 05:13	1718-51-0	

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ANALYTICAL RESULTS

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Sample: DSS-18 (0-6") **Lab ID: 10523696035** Collected: 07/02/20 08:00 Received: 07/02/20 16:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.62**	mg/kg	0.023	1	07/06/20 12:35	07/08/20 05:59	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**17.8**	%	0.10	1		07/08/20 12:49		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Sample: DSS-18 (1-1.5') **Lab ID: 10523696036** Collected: 07/02/20 08:02 Received: 07/02/20 16:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.89**	mg/kg	0.021	1	07/23/20 10:48	07/27/20 18:39	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**9.2**	%	0.10	1		07/24/20 11:28		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Sample: DSS-101 **Lab ID: 10523696037** Collected: 07/02/20 00:00 Received: 07/02/20 16:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**1.1**	mg/kg	0.024	1	07/06/20 12:35	07/08/20 06:01	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**19.5**	%	0.10	1		07/08/20 12:49		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Sample: DSS-102 **Lab ID: 10523696038** Collected: 07/02/20 00:00 Received: 07/02/20 16:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis							
Arsenic	**3.3**	mg/kg	1.1	1	07/06/20 10:37	07/06/20 19:03	7440-38-2	
Barium	**84.4**	mg/kg	0.57	1	07/06/20 10:37	07/06/20 19:03	7440-39-3	
Cadmium	**0.18**	mg/kg	0.17	1	07/06/20 10:37	07/06/20 19:03	7440-43-9	
Chromium	**13.6**	mg/kg	0.57	1	07/06/20 10:37	07/06/20 19:03	7440-47-3	
Lead	**11.8**	mg/kg	0.57	1	07/06/20 10:37	07/06/20 19:03	7439-92-1	
Selenium	ND	mg/kg	1.1	1	07/06/20 10:37	07/06/20 19:03	7782-49-2	
Silver	ND	mg/kg	0.57	1	07/06/20 10:37	07/06/20 19:03	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.38**	mg/kg	0.023	1	07/06/20 10:59	07/08/20 03:32	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**17.0**	%	0.10	1		07/08/20 12:49		N2
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3550C Pace Analytical Services - Minneapolis							
Acenaphthene	**0.016**	mg/kg	0.012	1	07/06/20 13:18	07/09/20 06:16	83-32-9	
Acenaphthylene	**0.029**	mg/kg	0.012	1	07/06/20 13:18	07/09/20 06:16	208-96-8	
Anthracene	**0.054**	mg/kg	0.012	1	07/06/20 13:18	07/09/20 06:16	120-12-7	
Benzo(a)anthracene	**0.19**	mg/kg	0.012	1	07/06/20 13:18	07/09/20 06:16	56-55-3	
Benzo(a)pyrene	**0.21**	mg/kg	0.012	1	07/06/20 13:18	07/09/20 06:16	50-32-8	
Benzo(b)fluoranthene	**0.31**	mg/kg	0.012	1	07/06/20 13:18	07/09/20 06:16	205-99-2	
Benzo(g,h,i)perylene	**0.16**	mg/kg	0.012	1	07/06/20 13:18	07/09/20 06:16	191-24-2	
Benzo(k)fluoranthene	**0.10**	mg/kg	0.012	1	07/06/20 13:18	07/09/20 06:16	207-08-9	
Chrysene	**0.22**	mg/kg	0.012	1	07/06/20 13:18	07/09/20 06:16	218-01-9	
Dibenz(a,h)anthracene	**0.041**	mg/kg	0.012	1	07/06/20 13:18	07/09/20 06:16	53-70-3	
Fluoranthene	**0.39**	mg/kg	0.012	1	07/06/20 13:18	07/09/20 06:16	206-44-0	
Fluorene	**0.016**	mg/kg	0.012	1	07/06/20 13:18	07/09/20 06:16	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.14**	mg/kg	0.012	1	07/06/20 13:18	07/09/20 06:16	193-39-5	
Naphthalene	ND	mg/kg	0.012	1	07/06/20 13:18	07/09/20 06:16	91-20-3	
Phenanthrene	**0.23**	mg/kg	0.012	1	07/06/20 13:18	07/09/20 06:16	85-01-8	
Pyrene	**0.34**	mg/kg	0.012	1	07/06/20 13:18	07/09/20 06:16	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	**0.31**	mg/kg	0.012	1	07/06/20 13:18	07/09/20 06:16		N2
Surrogates								
2-Fluorobiphenyl (S)	78	%.	30-138	1	07/06/20 13:18	07/09/20 06:16	321-60-8	
p-Terphenyl-d14 (S)	88	%.	30-143	1	07/06/20 13:18	07/09/20 06:16	1718-51-0	

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ANALYTICAL RESULTS

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Sample: Equipment Blank **Lab ID: 10523696039** Collected: 07/02/20 00:00 Received: 07/02/20 16:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470A Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Minneapolis							
Mercury	ND	ug/L	0.20	1	07/06/20 11:12	07/06/20 13:46	7439-97-6	

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QUALITY CONTROL DATA

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

QC Batch: 684877
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470A Mercury Water
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10523696039

METHOD BLANK: 3663704 Matrix: Water
Associated Lab Samples: 10523696039

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	07/06/20 13:41	

LABORATORY CONTROL SAMPLE: 3663705

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3663706 3663707

Parameter	Units	10523967001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.4	5.9	106	116	80-120	9	20	

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QUALITY CONTROL DATA

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

QC Batch: 684887
QC Batch Method: EPA 7471B
Analysis Method: EPA 7471B
Analysis Description: 7471B Mercury Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10523696003, 10523696004, 10523696007, 10523696008, 10523696015, 10523696016, 10523696021, 10523696022, 10523696029, 10523696030, 10523696033, 10523696034, 10523696038

METHOD BLANK: 3663747 Matrix: Solid
Associated Lab Samples: 10523696003, 10523696004, 10523696007, 10523696008, 10523696015, 10523696016, 10523696021, 10523696022, 10523696029, 10523696030, 10523696033, 10523696034, 10523696038

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.018	07/08/20 02:45	

LABORATORY CONTROL SAMPLE: 3663748

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.45	0.47	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3663749 3663750

Parameter	Units	10523655001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.023	0.51	0.54	0.53	0.56	97	98	80-120	7	20	

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QUALITY CONTROL DATA

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

QC Batch: 684900
QC Batch Method: EPA 7471B
Analysis Method: EPA 7471B
Analysis Description: 7471B Mercury Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10523696001, 10523696005, 10523696009, 10523696011, 10523696012, 10523696013, 10523696017, 10523696019, 10523696023, 10523696025, 10523696027, 10523696031, 10523696035, 10523696037

METHOD BLANK: 3663791 Matrix: Solid
Associated Lab Samples: 10523696001, 10523696005, 10523696009, 10523696011, 10523696012, 10523696013, 10523696017, 10523696019, 10523696023, 10523696025, 10523696027, 10523696031, 10523696035, 10523696037

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.019	07/08/20 04:54	

LABORATORY CONTROL SAMPLE: 3663792

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.45	0.45	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3663793 3663794

Parameter	Units	10523696012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.11	0.56	0.52	0.62	0.57	90	87	80-120	7	20	

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QUALITY CONTROL DATA

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

QC Batch: 688597
QC Batch Method: EPA 7471B
Analysis Method: EPA 7471B
Analysis Description: 7471B Mercury Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10523696002, 10523696010, 10523696014, 10523696018, 10523696026, 10523696028, 10523696032, 10523696036

METHOD BLANK: 3683012 Matrix: Solid
Associated Lab Samples: 10523696002, 10523696010, 10523696014, 10523696018, 10523696026, 10523696028, 10523696032, 10523696036

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.019	07/27/20 17:50	

LABORATORY CONTROL SAMPLE: 3683013

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.47	0.47	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3683014 3683015

Parameter	Units	10522569004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.042	0.44	0.45	0.49	0.57	101	116	80-120	16	20	H1

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QUALITY CONTROL DATA

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

QC Batch: 684884
QC Batch Method: EPA 3050B
Analysis Method: EPA 6010D
Analysis Description: 6010D Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10523696003, 10523696004, 10523696007, 10523696008, 10523696015, 10523696016, 10523696021, 10523696022, 10523696029, 10523696030, 10523696033, 10523696034, 10523696038

METHOD BLANK: 3663733 Matrix: Solid
Associated Lab Samples: 10523696003, 10523696004, 10523696007, 10523696008, 10523696015, 10523696016, 10523696021, 10523696022, 10523696029, 10523696030, 10523696033, 10523696034, 10523696038

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	0.94	07/06/20 17:55	
Barium	mg/kg	ND	0.47	07/06/20 17:55	
Cadmium	mg/kg	ND	0.14	07/06/20 17:55	
Chromium	mg/kg	ND	0.47	07/06/20 17:55	
Lead	mg/kg	ND	0.47	07/06/20 17:55	
Selenium	mg/kg	ND	0.94	07/06/20 17:55	
Silver	mg/kg	ND	0.47	07/06/20 17:55	

LABORATORY CONTROL SAMPLE: 3663734

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	48.1	46.1	96	80-120	
Barium	mg/kg	48.1	47.8	99	80-120	
Cadmium	mg/kg	48.1	46.6	97	80-120	
Chromium	mg/kg	48.1	47.6	99	80-120	
Lead	mg/kg	48.1	46.7	97	80-120	
Selenium	mg/kg	48.1	46.4	97	80-120	
Silver	mg/kg	24	22.5	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3663735 3663736

Parameter	Units	10523655001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	4.0	54	53	50.6	49.9	86	87	75-125	1	20	
Barium	mg/kg	66.4	54	53	116	130	91	119	75-125	12	20	
Cadmium	mg/kg	ND	54	53	44.8	44.1	83	83	75-125	1	20	
Chromium	mg/kg	10	54	53	56.7	55.1	86	85	75-125	3	20	
Lead	mg/kg	5.3	54	53	49.0	48.8	81	82	75-125	0	20	
Selenium	mg/kg	ND	54	53	47.1	46.2	87	87	75-125	2	20	
Silver	mg/kg	ND	27	26.5	23.4	22.9	87	86	75-125	3	20	

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QUALITY CONTROL DATA

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

QC Batch: 685245
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10523696001

SAMPLE DUPLICATE: 3664970

Parameter	Units	10523513010 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.7	8.7	0	30	N2

SAMPLE DUPLICATE: 3665361

Parameter	Units	10523695008 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	51.6	52.0	1	30	N2

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QUALITY CONTROL DATA

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

QC Batch: 685246
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10523696003, 10523696004, 10523696005, 10523696007, 10523696008, 10523696009, 10523696011, 10523696012, 10523696013, 10523696015, 10523696016, 10523696017, 10523696019, 10523696021, 10523696022, 10523696023, 10523696025, 10523696027, 10523696029, 10523696030

SAMPLE DUPLICATE: 3664976

Parameter	Units	10523696012 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.2	14.5	2	30	N2

SAMPLE DUPLICATE: 3665444

Parameter	Units	10523696023 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.2	16.4	1	30	N2

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QUALITY CONTROL DATA

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

QC Batch: 685425
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10523696031, 10523696033, 10523696034, 10523696035, 10523696037, 10523696038

SAMPLE DUPLICATE: 3665961

Parameter	Units	10523696031 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	18.2	18.5	2	30	N2

SAMPLE DUPLICATE: 3665962

Parameter	Units	10523637001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	28.2	31.5	11	30	N2

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QUALITY CONTROL DATA

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

QC Batch: 688938
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10523696002

SAMPLE DUPLICATE: 3684398

Parameter	Units	10524671003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	26.7	26.8	0	30	N2

SAMPLE DUPLICATE: 3684595

Parameter	Units	10524920003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	3.9	4.0	3	30	N2

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QUALITY CONTROL DATA

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

QC Batch: 688940
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10523696010, 10523696014, 10523696018, 10523696026, 10523696028, 10523696032, 10523696036

SAMPLE DUPLICATE: 3684400

Parameter	Units	10523696010 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	15.9	15.1	5	30	N2

SAMPLE DUPLICATE: 3684401

Parameter	Units	10525378004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	3.5	3.7	5	30	N2

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QUALITY CONTROL DATA

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

QC Batch: 684933
QC Batch Method: EPA 3550C
Analysis Method: EPA 8270E by SIM
Analysis Description: 8270E Solid PAH by SIM MSSV
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10523696003, 10523696004, 10523696007, 10523696008, 10523696015, 10523696016, 10523696021, 10523696022, 10523696029, 10523696030, 10523696033

METHOD BLANK: 3663881 Matrix: Solid
Associated Lab Samples: 10523696003, 10523696004, 10523696007, 10523696008, 10523696015, 10523696016, 10523696021, 10523696022, 10523696029, 10523696030, 10523696033

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	mg/kg	ND	0.010	07/08/20 23:16	
Acenaphthylene	mg/kg	ND	0.010	07/08/20 23:16	
Anthracene	mg/kg	ND	0.010	07/08/20 23:16	
Benzo(a)anthracene	mg/kg	ND	0.010	07/08/20 23:16	
Benzo(a)pyrene	mg/kg	ND	0.010	07/08/20 23:16	
Benzo(b)fluoranthene	mg/kg	ND	0.010	07/08/20 23:16	
Benzo(g,h,i)perylene	mg/kg	ND	0.010	07/08/20 23:16	
Benzo(k)fluoranthene	mg/kg	ND	0.010	07/08/20 23:16	
Chrysene	mg/kg	ND	0.010	07/08/20 23:16	
Dibenz(a,h)anthracene	mg/kg	ND	0.010	07/08/20 23:16	
Fluoranthene	mg/kg	ND	0.010	07/08/20 23:16	
Fluorene	mg/kg	ND	0.010	07/08/20 23:16	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.010	07/08/20 23:16	
Naphthalene	mg/kg	ND	0.010	07/08/20 23:16	
Phenanthrene	mg/kg	ND	0.010	07/08/20 23:16	
Pyrene	mg/kg	ND	0.010	07/08/20 23:16	
2-Fluorobiphenyl (S)	%.	82	30-138	07/08/20 23:16	
p-Terphenyl-d14 (S)	%.	108	30-143	07/08/20 23:16	

LABORATORY CONTROL SAMPLE: 3663882

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	mg/kg	0.033	0.023	70	49-125	
Acenaphthylene	mg/kg	0.033	0.023	69	53-125	
Anthracene	mg/kg	0.033	0.036	107	59-125	
Benzo(a)anthracene	mg/kg	0.033	0.026	79	58-125	
Benzo(a)pyrene	mg/kg	0.033	0.029	87	64-125	
Benzo(b)fluoranthene	mg/kg	0.033	0.029	86	61-125	
Benzo(g,h,i)perylene	mg/kg	0.033	0.035	106	64-125	
Benzo(k)fluoranthene	mg/kg	0.033	0.036	107	62-125	
Chrysene	mg/kg	0.033	0.032	96	65-125	
Dibenz(a,h)anthracene	mg/kg	0.033	0.033	99	63-125	
Fluoranthene	mg/kg	0.033	0.035	105	68-125	
Fluorene	mg/kg	0.033	0.029	86	54-125	
Indeno(1,2,3-cd)pyrene	mg/kg	0.033	0.033	98	63-125	
Naphthalene	mg/kg	0.033	0.020	60	45-125	
Phenanthrene	mg/kg	0.033	0.029	88	63-125	

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QUALITY CONTROL DATA

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

LABORATORY CONTROL SAMPLE: 3663882

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	mg/kg	0.033	0.037	110	65-125	
2-Fluorobiphenyl (S)	%.			62	30-138	
p-Terphenyl-d14 (S)	%.			104	30-143	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3663883 3663884

Parameter	Units	10523687012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	mg/kg	ND	0.034	0.034	0.029	0.026	83	75	30-125	10	30	
Acenaphthylene	mg/kg	ND	0.034	0.034	0.029	0.026	83	74	30-150	10	30	
Anthracene	mg/kg	ND	0.034	0.034	0.036	0.032	105	92	30-150	12	30	
Benzo(a)anthracene	mg/kg	ND	0.034	0.034	0.028	0.026	81	76	30-150	7	30	
Benzo(a)pyrene	mg/kg	ND	0.034	0.034	0.033	0.028	94	82	30-150	14	30	
Benzo(b)fluoranthene	mg/kg	ND	0.034	0.034	0.028	0.024	82	70	30-150	16	30	
Benzo(g,h,i)perylene	mg/kg	ND	0.034	0.034	0.037	0.035	107	102	30-150	4	30	
Benzo(k)fluoranthene	mg/kg	ND	0.034	0.034	0.033	0.032	94	93	30-150	1	30	
Chrysene	mg/kg	ND	0.034	0.034	0.032	0.030	91	87	30-150	5	30	
Dibenz(a,h)anthracene	mg/kg	ND	0.034	0.034	0.031	0.030	91	86	30-147	5	30	
Fluoranthene	mg/kg	ND	0.034	0.034	0.035	0.031	100	88	30-150	12	30	
Fluorene	mg/kg	ND	0.034	0.034	0.032	0.029	91	83	30-150	9	30	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.034	0.034	0.033	0.030	94	87	30-150	8	30	
Naphthalene	mg/kg	ND	0.034	0.034	0.027	0.022	77	65	30-141	18	30	
Phenanthrene	mg/kg	ND	0.034	0.034	0.032	0.029	92	82	30-150	11	30	
Pyrene	mg/kg	ND	0.034	0.034	0.037	0.035	105	101	30-150	4	30	
2-Fluorobiphenyl (S)	%.						80	69	30-138			
p-Terphenyl-d14 (S)	%.						101	96	30-143			

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QUALITY CONTROL DATA

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

QC Batch: 684935
QC Batch Method: EPA 3550C
Analysis Method: EPA 8270E by SIM
Analysis Description: 8270E Solid PAH by SIM MSSV
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10523696034, 10523696038

METHOD BLANK: 3663894 Matrix: Solid
Associated Lab Samples: 10523696034, 10523696038

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	mg/kg	ND	0.010	07/08/20 15:45	
Acenaphthylene	mg/kg	ND	0.010	07/08/20 15:45	
Anthracene	mg/kg	ND	0.010	07/08/20 15:45	
Benzo(a)anthracene	mg/kg	ND	0.010	07/08/20 15:45	
Benzo(a)pyrene	mg/kg	ND	0.010	07/08/20 15:45	
Benzo(b)fluoranthene	mg/kg	ND	0.010	07/08/20 15:45	
Benzo(g,h,i)perylene	mg/kg	ND	0.010	07/08/20 15:45	
Benzo(k)fluoranthene	mg/kg	ND	0.010	07/08/20 15:45	
Chrysene	mg/kg	ND	0.010	07/08/20 15:45	
Dibenz(a,h)anthracene	mg/kg	ND	0.010	07/08/20 15:45	
Fluoranthene	mg/kg	ND	0.010	07/08/20 15:45	
Fluorene	mg/kg	ND	0.010	07/08/20 15:45	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.010	07/08/20 15:45	
Naphthalene	mg/kg	ND	0.010	07/08/20 15:45	
Phenanthrene	mg/kg	ND	0.010	07/08/20 15:45	
Pyrene	mg/kg	ND	0.010	07/08/20 15:45	
2-Fluorobiphenyl (S)	%.	80	30-138	07/08/20 15:45	
p-Terphenyl-d14 (S)	%.	94	30-143	07/08/20 15:45	

LABORATORY CONTROL SAMPLE: 3663895

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	mg/kg	0.033	0.024	73	49-125	
Acenaphthylene	mg/kg	0.033	0.025	74	53-125	
Anthracene	mg/kg	0.033	0.027	81	59-125	
Benzo(a)anthracene	mg/kg	0.033	0.030	91	58-125	
Benzo(a)pyrene	mg/kg	0.033	0.029	87	64-125	
Benzo(b)fluoranthene	mg/kg	0.033	0.028	85	61-125	
Benzo(g,h,i)perylene	mg/kg	0.033	0.028	85	64-125	
Benzo(k)fluoranthene	mg/kg	0.033	0.031	92	62-125	
Chrysene	mg/kg	0.033	0.028	85	65-125	
Dibenz(a,h)anthracene	mg/kg	0.033	0.029	86	63-125	
Fluoranthene	mg/kg	0.033	0.030	89	68-125	
Fluorene	mg/kg	0.033	0.027	80	54-125	
Indeno(1,2,3-cd)pyrene	mg/kg	0.033	0.028	85	63-125	
Naphthalene	mg/kg	0.033	0.024	72	45-125	
Phenanthrene	mg/kg	0.033	0.028	84	63-125	
Pyrene	mg/kg	0.033	0.030	90	65-125	
2-Fluorobiphenyl (S)	%.			71	30-138	

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QUALITY CONTROL DATA

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

LABORATORY CONTROL SAMPLE: 3663895

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
p-Terphenyl-d14 (S)	%.			88	30-143	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3663896 3663897

Parameter	Units	10523696034 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	mg/kg	ND	0.038	0.038	0.031	0.029	80	76	30-125	6	30	
Acenaphthylene	mg/kg	ND	0.038	0.038	0.033	0.031	86	82	30-150	4	30	
Anthracene	mg/kg	ND	0.038	0.038	0.034	0.032	89	84	30-150	6	30	
Benzo(a)anthracene	mg/kg	ND	0.038	0.038	0.038	0.037	99	97	30-150	2	30	
Benzo(a)pyrene	mg/kg	ND	0.038	0.038	0.037	0.037	96	97	30-150	1	30	
Benzo(b)fluoranthene	mg/kg	ND	0.038	0.038	0.041	0.043	109	112	30-150	3	30	
Benzo(g,h,i)perylene	mg/kg	ND	0.038	0.038	0.036	0.036	94	95	30-150	0	30	
Benzo(k)fluoranthene	mg/kg	ND	0.038	0.038	0.034	0.033	90	87	30-150	4	30	
Chrysene	mg/kg	ND	0.038	0.038	0.038	0.037	99	98	30-150	1	30	
Dibenz(a,h)anthracene	mg/kg	ND	0.038	0.038	0.034	0.034	89	90	30-147	0	30	
Fluoranthene	mg/kg	ND	0.038	0.038	0.041	0.039	106	103	30-150	3	30	
Fluorene	mg/kg	ND	0.038	0.038	0.034	0.031	88	81	30-150	9	30	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.038	0.038	0.036	0.036	94	94	30-150	1	30	
Naphthalene	mg/kg	ND	0.038	0.038	0.032	0.030	84	78	30-141	8	30	
Phenanthrene	mg/kg	ND	0.038	0.038	0.036	0.035	95	92	30-150	4	30	
Pyrene	mg/kg	ND	0.038	0.038	0.041	0.039	109	103	30-150	5	30	
2-Fluorobiphenyl (S)	%.						75	72	30-138			
p-Terphenyl-d14 (S)	%.						88	87	30-143			

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QUALIFIERS

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
H1	Analysis conducted outside the recognized method holding time.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10523696003	**DSS-2 (0-6")**	EPA 3050B	684884	EPA 6010D	685047
10523696004	**DSS-2 (1-1.5')**	EPA 3050B	684884	EPA 6010D	685047
10523696007	**DSS-4 (0-6")**	EPA 3050B	684884	EPA 6010D	685047
10523696008	**DSS-4 (1-1.5')**	EPA 3050B	684884	EPA 6010D	685047
10523696015	**DSS-8 (0-6")**	EPA 3050B	684884	EPA 6010D	685047
10523696016	**DSS-8 (1-1.5')**	EPA 3050B	684884	EPA 6010D	685047
10523696021	**DSS-11 (0-6")**	EPA 3050B	684884	EPA 6010D	685047
10523696022	**DSS-11 (1-1.5')**	EPA 3050B	684884	EPA 6010D	685047
10523696029	**DSS-15 (0-6")**	EPA 3050B	684884	EPA 6010D	685047
10523696030	**DSS-15 (1-1.5')**	EPA 3050B	684884	EPA 6010D	685047
10523696033	**DSS-17 (0-6')**	EPA 3050B	684884	EPA 6010D	685047
10523696034	**DSS-17 (1-1.5')**	EPA 3050B	684884	EPA 6010D	685047
10523696038	**DSS-102**	EPA 3050B	684884	EPA 6010D	685047
10523696039	**Equipment Blank**	EPA 7470A	684877	EPA 7470A	684998
10523696001	**DSS-1 (0-6")**	EPA 7471B	684900	EPA 7471B	685085
10523696002	**DSS-1 (1-1.5')**	EPA 7471B	688597	EPA 7471B	689013
10523696003	**DSS-2 (0-6")**	EPA 7471B	684887	EPA 7471B	685072
10523696004	**DSS-2 (1-1.5')**	EPA 7471B	684887	EPA 7471B	685072
10523696005	**DSS-3 (0-6")**	EPA 7471B	684900	EPA 7471B	685085
10523696007	**DSS-4 (0-6")**	EPA 7471B	684887	EPA 7471B	685072
10523696008	**DSS-4 (1-1.5')**	EPA 7471B	684887	EPA 7471B	685072
10523696009	**DSS-5 (0-6")**	EPA 7471B	684900	EPA 7471B	685085
10523696010	**DSS-5 (1-1.5')**	EPA 7471B	688597	EPA 7471B	689013
10523696011	**DSS-6 (0-6")**	EPA 7471B	684900	EPA 7471B	685085
10523696012	**DSS-6 (1-1.5')**	EPA 7471B	684900	EPA 7471B	685085
10523696013	**DSS-7 (0-6")**	EPA 7471B	684900	EPA 7471B	685085
10523696014	**DSS-7 (1-1.5')**	EPA 7471B	688597	EPA 7471B	689013
10523696015	**DSS-8 (0-6")**	EPA 7471B	684887	EPA 7471B	685072
10523696016	**DSS-8 (1-1.5')**	EPA 7471B	684887	EPA 7471B	685072
10523696017	**DSS-9 (0-6")**	EPA 7471B	684900	EPA 7471B	685085
10523696018	**DSS-9 (1-1.5')**	EPA 7471B	688597	EPA 7471B	689013
10523696019	**DSS-10 (0-6")**	EPA 7471B	684900	EPA 7471B	685085
10523696021	**DSS-11 (0-6")**	EPA 7471B	684887	EPA 7471B	685072
10523696022	**DSS-11 (1-1.5')**	EPA 7471B	684887	EPA 7471B	685072
10523696023	**DSS-12 (0-6")**	EPA 7471B	684900	EPA 7471B	685085
10523696025	**DSS-13 (0-6")**	EPA 7471B	684900	EPA 7471B	685085
10523696026	**DSS-13 (1-1.5')**	EPA 7471B	688597	EPA 7471B	689013
10523696027	**DSS-14 (0-6")**	EPA 7471B	684900	EPA 7471B	685085
10523696028	**DSS-14 (1-1.5')**	EPA 7471B	688597	EPA 7471B	689013

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10523696029	DSS-15 (0-6")	EPA 7471B	684887	EPA 7471B	685072
10523696030	DSS-15 (1-1.5')	EPA 7471B	684887	EPA 7471B	685072
10523696031	DSS-16 (0-6")	EPA 7471B	684900	EPA 7471B	685085
10523696032	DSS-16 (1-1.5')	EPA 7471B	688597	EPA 7471B	689013
10523696033	DSS-17 (0-6')	EPA 7471B	684887	EPA 7471B	685072
10523696034	DSS-17 (1-1.5')	EPA 7471B	684887	EPA 7471B	685072
10523696035	DSS-18 (0-6")	EPA 7471B	684900	EPA 7471B	685085
10523696036	DSS-18 (1-1.5')	EPA 7471B	688597	EPA 7471B	689013
10523696037	DSS-101	EPA 7471B	684900	EPA 7471B	685085
10523696038	DSS-102	EPA 7471B	684887	EPA 7471B	685072
10523696001	DSS-1 (0-6")	ASTM D2974	685245		
10523696002	DSS-1 (1-1.5')	ASTM D2974	688938		
10523696003	DSS-2 (0-6")	ASTM D2974	685246		
10523696004	DSS-2 (1-1.5')	ASTM D2974	685246		
10523696005	DSS-3 (0-6")	ASTM D2974	685246		
10523696007	DSS-4 (0-6")	ASTM D2974	685246		
10523696008	DSS-4 (1-1.5')	ASTM D2974	685246		
10523696009	DSS-5 (0-6")	ASTM D2974	685246		
10523696010	DSS-5 (1-1.5')	ASTM D2974	688940		
10523696011	DSS-6 (0-6")	ASTM D2974	685246		
10523696012	DSS-6 (1-1.5')	ASTM D2974	685246		
10523696013	DSS-7 (0-6")	ASTM D2974	685246		
10523696014	DSS-7 (1-1.5')	ASTM D2974	688940		
10523696015	DSS-8 (0-6")	ASTM D2974	685246		
10523696016	DSS-8 (1-1.5')	ASTM D2974	685246		
10523696017	DSS-9 (0-6")	ASTM D2974	685246		
10523696018	DSS-9 (1-1.5')	ASTM D2974	688940		
10523696019	DSS-10 (0-6")	ASTM D2974	685246		
10523696021	DSS-11 (0-6")	ASTM D2974	685246		
10523696022	DSS-11 (1-1.5')	ASTM D2974	685246		
10523696023	DSS-12 (0-6")	ASTM D2974	685246		
10523696025	DSS-13 (0-6")	ASTM D2974	685246		
10523696026	DSS-13 (1-1.5')	ASTM D2974	688940		
10523696027	DSS-14 (0-6")	ASTM D2974	685246		
10523696028	DSS-14 (1-1.5')	ASTM D2974	688940		
10523696029	DSS-15 (0-6")	ASTM D2974	685246		
10523696030	DSS-15 (1-1.5')	ASTM D2974	685246		
10523696031	DSS-16 (0-6")	ASTM D2974	685425		

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B1903316.00 Fmr. Hillcrest Gol-Revised Report
Pace Project No.: 10523696

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10523696032	**DSS-16 (1-1.5')**	ASTM D2974	688940		
10523696033	**DSS-17 (0-6')**	ASTM D2974	685425		
10523696034	**DSS-17 (1-1.5')**	ASTM D2974	685425		
10523696035	**DSS-18 (0-6'')**	ASTM D2974	685425		
10523696036	**DSS-18 (1-1.5')**	ASTM D2974	688940		
10523696037	**DSS-101**	ASTM D2974	685425		
10523696038	**DSS-102**	ASTM D2974	685425		
10523696003	**DSS-2 (0-6'')**	EPA 3550C	684933	EPA 8270E by SIM	685659
10523696004	**DSS-2 (1-1.5')**	EPA 3550C	684933	EPA 8270E by SIM	685659
10523696007	**DSS-4 (0-6'')**	EPA 3550C	684933	EPA 8270E by SIM	685659
10523696008	**DSS-4 (1-1.5')**	EPA 3550C	684933	EPA 8270E by SIM	685659
10523696015	**DSS-8 (0-6'')**	EPA 3550C	684933	EPA 8270E by SIM	685659
10523696016	**DSS-8 (1-1.5')**	EPA 3550C	684933	EPA 8270E by SIM	685659
10523696021	**DSS-11 (0-6'')**	EPA 3550C	684933	EPA 8270E by SIM	685659
10523696022	**DSS-11 (1-1.5')**	EPA 3550C	684933	EPA 8270E by SIM	685659
10523696029	**DSS-15 (0-6'')**	EPA 3550C	684933	EPA 8270E by SIM	685659
10523696030	**DSS-15 (1-1.5')**	EPA 3550C	684933	EPA 8270E by SIM	685659
10523696033	**DSS-17 (0-6')**	EPA 3550C	684933	EPA 8270E by SIM	685659
10523696034	**DSS-17 (1-1.5')**	EPA 3550C	684935	EPA 8270E by SIM	685592
10523696038	**DSS-102**	EPA 3550C	684935	EPA 8270E by SIM	685592

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CHAIN-OF-CUSTODY / Analytical Request Document

REVISED COC

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Page: 1 of 4

2295219

Section A Required Client Information:

Company: Braun Intertec
Address: 11001 Hampshire Ave S
Minneapolis
Email To:
Phone: Fax:
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: Ken Larsen
Copy To:
Purchase Order No.:
Project Name: Fmr. Hillcrest Golf Course
Project Number: B1903316.00

Section C Invoice Information:

Attention: Same
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 35100

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MN

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

Requested Analysis Filtered (Y/N)

WO#: 10523696

10523696

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: Total Hg	RCRA metals	PAHs	Hold for Total Hg	Res	Pace Project No./ Lab I.D.	
1	DSS-1 (0-6")	SL	G			7-2-20	10:07		1	1								X					W1	
2	DSS-1 (1-1.5')						10:09		1	1								X			X		W2	
3	DSS-2 (0-6")						10:12		2	2									X	X			W3	
4	DSS-2 (1-1.5')						10:15		2	2									X	X			W4	
5	DSS-3 (0-6")						10:19		1	1								X					W5	
6	DSS-3 (1-1.5')						10:21		1	1											X		W6	
7	DSS-4 (0-6")						9:32		2	2									X	X			W7	Temp
8	DSS-4 (1-1.5')						9:34		2	2									X	X			W8	
9	DSS-5 (0-6")						9:25		1	1								X					W9	2.3
10	DSS-5 (1-1.5')						9:27		1	1											X		W10	
11	DSS-6 (0-6")						8:57		1	1								X					W11	2.0
12	DSS-6 (1-1.5)						9:00		3									X					MS/MSD sample	0.2

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Andrew Davis / BTE	7-2-20	14:52	Pace	7/2/2020	14:52	10.8 5.2	Y	N	Y
	Pace	7/2/2020	14:52	Clarke S / Pace	7/2/20	1520				
	Clarke S / Pace	7/2/20	1610	Pace	7/2/20	1610	2.3	Y	N	Y
							2.0			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Andrew Davis

SIGNATURE of SAMPLER: Andrew Davis

DATE Signed (MM/DD/YY): 7-2-20

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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CHAIN-OF-CUSTODY / Analytical Request Document

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REVISED COC

Page: 2 of 4

2295220

Section A Required Client Information:

Company: same as page 1

Address:

Email To:

Phone: Fax:

Requested Due Date/TAT:

Section B Required Project Information:

Report To:

Copy To:

Purchase Order No.:

Project Name:

Project Number:

Section C Invoice Information:

Attention:

Company Name:

Address:

Pace Quote Reference:

Pace Project Manager:

Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MN

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Total Hg	RCRA Metals	PAHs	Hold For Total Hg	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	DSS-7 (0-6")	SL	G			7-2-20	9:05		1	1									X					013
2	DSS-7 (1-1.5')						9:07		1	1												X		014
3	DSS-8 (0-6")						9:10		2	2										X	X			015
4	DSS-8 (1-1.5)						9:12		2	2										X	X			016
5	DSS-9 (0-6")						9:42		1	1									X					017
6	DSS-9 (1-1.5)						9:45		1	1												X		018
7	DSS-10 (0-6")						9:50		1	1									X					019
8	DSS-10 (1-1.5)						9:52		1	1												X		020
9	DSS-11 (0-6")						9:56		2	2										X	X			021
10	DSS-11 (1-1.5')						9:58		2	2										X	X			022
11	DSS-12 (0-6")						10:28		1	1									X					023
12	DSS-12 (1-1.5')						10:30		1	1												X		024

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Andrew Davis / BIC	7-2-20	14:52	[illegible] Pace	7/2/2020	14:52	10.0 5.2	Y	N	Y
	[illegible] Pace	7/2/2020	14:52	[illegible] / Pace	7/2/	1520				
	[illegible] / Pace	7/2/20	1610	[illegible] Pace	7/2/20	1610	2.3	Y	N	Y
							2.0			

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Andrew Davis

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 7-2-20

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-C-010-rev.00, 09Nov2017

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CHAIN-OF-CUSTODY / Analytical Request Document

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REVISED COC

2295221

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company:	Report To:	Attention:
Address: Same as	Copy To: page 1	Company Name:
		Address:
Email To:	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name:	Pace Project Manager:
Requested Due Date/TAT:	Project Number:	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MN

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE)

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: Total Hg	RCRA Metals	PAHs	Hold for Total Hg	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	DSS-13 (0-6")	SL	G			7-2-20	8:41		1	1									X					025
2	DSS-13 (1-1.5')						8:43		1	1												X		026
3	DSS-14 (0-6")						8:30		1	1									X					027
4	DSS-14 (1-1.5')						8:32		1	1												X		028
5	DSS-15 (0-6")						8:25		2	2										X	X			029
6	DSS-15 (1-1.5')						8:27		2	2										X	X			030
7	DSS-16 (0-6")						8:15		1	1									X					031
8	DSS-16 (1-1.5')						8:17		1	1												X		032
9	DSS-17 (0-6")						8:10		2	2										X	X			033
10	DSS-17 (1-1.5')						8:12		2	2										X	X			034
11	DSS-18 (0-6")						8:00		1	1									X					035
12	DSS-18 (1-1.5')						8:02		1	1												X		036

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Andrew Davis / BTC	7-2-20	14:52	[illegible] Pace	7/2/2020	14:52	0.3 5-2	Y	N	Y
	[illegible] Pace	7/2/2020	14:52	Clayton S / Pace	7/2/20	1520				
	Clayton S / Pace	7/2/20		Michelle Pace	7/2/20	1610	2.3			
							2.0			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Andrew Davis

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 7-2-20

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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REVISED COC

Page: 4 of 4

2295222

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company:	Report To:	Attention:
Address: Same as page 1	Copy To:	Company Name:
		Address:
Email To:	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name:	Pace Project Manager:
Requested Due Date/TAT:	Project Number:	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MN

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Total Hg	RCRA Metals	PAHs	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	DSS-101	SL	G			7.2			1	X									X				037
2	DSS-102	SL	G			7-2			2	X										X	X		038
3	Equipment Blank	WT	G						1										X				039
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Andrew Davis / BIC	7.2-20	14:52	[signature] Pace	7/2/2020	14:52	10.8 5.2	Y	N	Y
	[signature] Pace	7/2/2020	14:52	Charles G / Pace	7/2/20	1520				
	Charles G / Pace	7/2/20	1610	[signature] Pace	7/2/20	1610	2.3 2.0	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Andrew Davis

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 7-2-20

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-C-010-rev.00, 09Nov2017

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2295219

Section A Required Client Information:

Company:	Braun Intertec
Address:	11001 Hampshire Ave S Minneapolis
Email To:	
Phone: / Fax:	
Requested Due Date/TAT:	Standard

Section B Required Project Information:

Report To:	Ken Larsen
Copy To:	
Purchase Order No.:	
Project Name:	Fmr. Hillcrest Golf Course
Project Number:	B1903316.00

Section C Invoice Information:

Attention:	Same
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	35100

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MN

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

WO# : 10523696

10523696

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: Total Hg	RCRA metals	PAHs	Hold for Total Hg	Res	Pace Project No./ Lab I.D.
1	DSS-1 (0-6")	SL	G			7-2-20	10:07		1	1								X					W1
2	DSS-1 (1-1.5')						10:09		1	1								X			X		W2
3	DSS-2 (0-6")						10:12		2	2									X	X			W3
4	DSS-2 (1-1.5')						10:15		2	2									X	X			W4
5	DSS-3 (0-6")						10:19		1	1								X					W5
6	DSS-3 (1-1.5')						10:21		1	1											X		W6
7	DSS-4 (0-6")						9:32		2	2									X	X			W7
8	DSS-4 (1-1.5')						9:34		2	2									X	X			W8
9	DSS-5 (0-6")						9:25		1	1								X					W9
10	DSS-5 (1-1.5')						9:27		1	1											X		W10
11	DSS-6 (0-6")						8:57		1	1								X					W11
12	DSS-6 (1-1.5)						9:00		3									X					MS/MSD sample

Temp: W7 2.3; W9 2.3; W10 2.0; MS/MSD sample 0.2

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Andrew Davis / BTE	7-2-20	14:52	Pace	7/2/2020	14:52	10.8 5.2	Y	N	Y
	Pace	7/2/2020	14:52	Chase S / Pace	7/2/20	1520				
	Chase S / Pace	7/2/20	1610	Pace	7/2/20	1610	2.3	Y	N	Y
							2.0			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Andrew Davis

SIGNATURE of SAMPLER: Andrew Davis DATE Signed (MM/DD/YY): 7-2-20

ORIGINAL

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 2 of 4

2295220

Section A Required Client Information:

Company:	same as Page 1
Address:	
Email To:	
Phone:	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	
Copy To:	
Purchase Order No.:	
Project Name:	
Project Number:	

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MN

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Total Hg	RCRA Metals	PAHs	Hold For Total Hg	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	DSS-7 (0-6")	SL	G			7-2-20	9:05		1	1									X					013
2	DSS-7 (1-1.5')						9:07		1	1												X		014
3	DSS-8 (0-6")						9:10		2	2										X	X			015
4	DSS-8 (1-1.5)						9:12		2	2										X	X			016
5	DSS-9 (0-6")						9:42		1	1									X					017
6	DSS-9 (1-1.5)						9:45		1	1												X		018
7	DSS-10 (0-6")						9:50		1	1									X					019
8	DSS-10 (1-1.5)						9:52		1	1												X		020
9	DSS-11 (0-6")						9:56		2	2										X	X			021
10	DSS-11 (1-1.5')						9:58		2	2										X	X			022
11	DSS-12 (0-6")						10:28		1	1									X					023
12	DSS-12 (1-1.5')						10:30		1	1												X		024

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Andrew Davis / BIC	7-2-20	14:52	[signature] Pace	7/2/2020	14:52	10.0 5.2	Y	N	Y
	[signature] Pace	7/2/2020	14:52	[signature] / Pace	7/2/	1520				
	[signature] / Pace	7/2/20	1610	[signature] Pace	7/2/20	1610	2.3	Y	N	Y
							2.0			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Andrew Davis

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 7-2-20

ORIGINAL

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F-ALL-C-010-rev.00, 09Nov2017

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Page: 3 of 4

2295221

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company:	Report To:	Attention:
Address: Same as	Copy To: page 1	Company Name:
		Address:
Email To:	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name:	Pace Project Manager:
Requested Due Date/TAT:	Project Number:	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MN

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Total Hg	RCRA Metals	PAHs	Hold for Total Hg	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	DSS-13 (0-6")	SL	G			7-2-20	8:41		1	1									X					025
2	DSS-13 (1-1.5')						8:43		1	1												X		026
3	DSS-14 (0-6")						8:30		1	1									X					027
4	DSS-14 (1-1.5')						8:32		1	1												X		028
5	DSS-15 (0-6")						8:25		2	2										X	X			029
6	DSS-15 (1-1.5')						8:27		2	2										X	X			030
7	DSS-16 (0-6")						8:15		1	1									X					031
8	DSS-16 (1-1.5')						8:17		1	1												X		032
9	DSS-17 (0-6")						8:10		2	2										X	X			033
10	DSS-17 (1-1.5')						8:12		2	2										X	X			034
11	DSS-18 (0-6")						8:00		1	1									X					035
12	DSS-18 (1-1.5')						8:02		1	1												X		036

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Andrew Davis / BIC	7-2-20	14:52	[illegible] Pace	7/2/2020	14:52	10.8 5.2	Y	N	Y
	[illegible] Pace	7/2/2020	14:52	[illegible] / Pace	7/2/20	1520				
	[illegible] / Pace	7/2/20		[illegible] Pace	7/2/20	1610	2.3			
							2.0			

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Andrew Davis

SIGNATURE of SAMPLER: [illegible]

DATE Signed (MM/DD/YY): 7-2-20

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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CHAIN-OF-CUSTODY / Analytical Request Document

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2295222

Section A Required Client Information:

Company:	
Address:	Same as page 1
Email To:	
Phone: / Fax:	
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	
Copy To:	
Purchase Order No.:	
Project Name:	
Project Number:	

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MN

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Total Hg	RCRA Metals	PAHs	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	DSS-101	SL	G			7.2			1	X									X				037
2	DSS-102	SL	G			7.2			2	X										X	X		038
3	Equipment Blank	WT	G						1										X				039
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Andrew Davis / BIC	7-2-20	14:52	[illegible] Pace	7/2/2020	14:52	0.8 5.2	Y	N	Y
	[illegible] Pace	7/2/2020	14:52	Clark G / Pace	7/2/20	0522				
	Clark G / Pace	7/2/20	1610	[illegible]	7/2/20	1610	2.3	Y	N	Y
							2.0			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Andrew Davis

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 7-2-20

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

ORIGINAL

Pace Analytical®	Document Name: **Sample Condition Upon Receipt (SCUR) - MN**	Document Revised: 27Mar2020 **Page 1 of 1**
	Document No.: **ENV-FRM-MIN4-0150 Rev.00**	Pace Analytical Services - **Minneapolis**

Sample Condition Upon Receipt

Client Name: Braun Intertec

Project #: **WO# : 10523696**

PM: BM2 **Due Date: 07/10/20**

CLIENT: Braun-BLM

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☒ Pace ☐ SpeeDee ☐ Commercial **See Exceptions** ☐

Tracking Number:

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No **Biological Tissue Frozen?** ☐ Yes ☐ No ☒ N/A

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other: **Temp Blank?** ☒ Yes ☐ No

Thermometer: ☐ T1(0461) ☐ T2(1336) ☐ T3(0459) ☐ T4(0254) ☒ T5(0489) **Type of Ice:** ☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted

Did Samples Originate in West Virginia? ☐ Yes ☒ No **Were All Container Temps Taken?** ☐ Yes ☐ No ☒ N/A

Temp should be above freezing to 6°C **Cooler Temp Read w/temp blank:** 2.3, 2.0 °C

Average Corrected Temp (no temp blank only): ☐ See Exceptions ☐ 1 Container °C

Correction Factor: TNC **Cooler Temp Corrected w/temp blank :** 2.3, 2.0 °C

USDA Regulated Soil: (☐ N/A, water sample/Other:)

Date/Initials of Person Examining Contents: MK2 7-2-20

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☒ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present and Filled Out?	☒ Yes	☐ No		1.
Chain of Custody Relinquished?	☒ Yes	☐ No		2.
Sampler Name and/or Signature on COC?	☒ Yes	☐ No	☐ N/A	3.
Samples Arrived within Hold Time?	☒ Yes	☐ No		4.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No		5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other
Rush Turn Around Time Requested?	☐ Yes	☒ No		6.
Sufficient Volume?	☒ Yes	☐ No		7.
Correct Containers Used?	☒ Yes	☐ No		8.
-Pace Containers Used?	☒ Yes	☐ No		
Containers Intact?	☒ Yes	☐ No		9.
Field Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☒ N/A	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Is sufficient information available to reconcile the samples to the COC?	☒ Yes	☐ No		11. **If no, write ID/ Date/Time on Container Below:** one empty 16fl included in cooler **See Exception** ☐
Matrix: ☒ Water ☒ Soil ☐ Oil ☐ Other				
All containers needing acid/base preservation have been checked?	☒ Yes	☐ No	☐ N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide)	☒ Yes	☐ No	☐ N/A	☐ NaOH ☒ HNO_3 ☐ H_2SO_4 ☐ Zinc Acetate 1½
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☐ Yes	☐ No	☒ N/A	Positive for Res. Chlorine? ☐ Yes ☐ No **pH Paper Lot#** **See Exception** ☐
				Res. Chlorine: 0-6 Roll 203819; 0-6 Strip; 0-14 Strip
Extra labels present on soil VOA or WIDRO containers?	☐ Yes	☐ No	☒ N/A	13. **See Exception** ☐
Headspace in VOA Vials (greater than 6mm)?	☐ Yes	☐ No	☒ N/A	
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	14.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	Pace Trip Blank Lot # (if purchased):

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: BA Date: 7/6/2020

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: CEG (2)

Service Center Transfer Checklist

Service Center: MPLS ☐ BLM ☒ AZ ☐

Client: Braun Intertec

Destination Lab: MPLS ☒ VM ☐ Duluth ☐

National ☐ Other _____

Received w/ Custody Seal ? Yes ☐ No ☒

Custody Seal Intact ? Yes ☐ No ☒

	Temp Read	Corr. Factor	Corr. Temp
Temperature °C	10.7/5.1	+0.1	10.8/5.2

IR Gun: B88A0143310092 ☐ Samples on ice, in cool down

Rush ☐ **Short Hold** ☐ **N/A** ☒

Containers Intact ? Yes ☒ No ☐

Repacked and Re-Iced ? Yes ☒ No ☐

Notes: _____

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

July 27, 2020

Mark Keefer
Braun Intertec
11001 Hampshire Ave S
Bloomington, MN 55438

RE: Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524483

Dear Mark Keefer:

Enclosed are the analytical results for sample(s) received by the laboratory on July 10, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses were subcontracted outside of the Pace Network. The test report from the external subcontractor is attached to this report in its entirety.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis
- Pace Analytical Services - Virginia

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bob Michels
bob.michels@pacelabs.com
(612)709-5046
Project Manager

Enclosures

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without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524483

Pace Analytical Services - Minneapolis MN

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

Pace Analytical Services Virginia Minnesota

315 Chestnut Street, Virginia, MN 55792
Montana Certificate #CERT0103
Alaska Certification UST-107
Minnesota Dept of Health Certification #: 027-137-445
North Dakota Certification: # R-203
Wisconsin DNR Certification # : 998027470
WA Department of Ecology Lab ID# C1007

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524483

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10524483001	**Irrigation Well**	Water	07/09/20 13:15	07/10/20 16:30
10524483002	**Maintenance Well**	Water	07/09/20 16:30	07/10/20 16:30
10524483003	**Equipment Blank**	Water	07/09/20 10:30	07/10/20 16:30
10524483004	**Trip Blank**	Water	07/09/20 00:00	07/10/20 16:30

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SAMPLE ANALYTE COUNT

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524483

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10524483001	**Irrigation Well**	EPA 8260D	AEZ	72	PASI-M
		EPA 351.2	DMB	1	PASI-V
		EPA 353.2	JFP	1	PASI-M
10524483002	**Maintenance Well**	EPA 8260D	AEZ	72	PASI-M
		EPA 351.2	DMB	1	PASI-V
		EPA 353.2	JFP	1	PASI-M
10524483003	**Equipment Blank**	EPA 6010D	DM	7	PASI-M
		EPA 7470A	LMW	1	PASI-M
		EPA 8270E by SIM	JZ	18	PASI-M
		EPA 8260D	AEZ	72	PASI-M
		EPA 351.2	DMB	1	PASI-V
		EPA 353.2	JFP	1	PASI-M
10524483004	**Trip Blank**	EPA 8260D	AEZ	72	PASI-M

PASI-M = Pace Analytical Services - Minneapolis
PASI-V = Pace Analytical Services - Virginia

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SUMMARY OF DETECTION

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524483

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10524483001	**Irrigation Well**					
EPA 351.2	Nitrogen, Kjeldahl, Total	0.84	mg/L	0.80	07/21/20 09:48	

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PROJECT NARRATIVE

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524483

Method: **EPA 6010D**
Description: 6010D MET ICP, Dissolved
Client: Braun Intertec Corporation
Date: July 27, 2020

General Information:
1 sample was analyzed for EPA 6010D by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524483

Method: **EPA 7470A**
Description: 7470A Mercury, Dissolved
Client: Braun Intertec Corporation
Date: July 27, 2020

General Information:
1 sample was analyzed for EPA 7470A by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 686322

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10524123006

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3670500)
  - Mercury, Dissolved

R1: RPD value was outside control limits.

- MSD (Lab ID: 3670501)
  - Mercury, Dissolved

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524483

Method: **EPA 8270E by SIM**
Description: 8270E MSSV PAH by SIM
Client: Braun Intertec Corporation
Date: July 27, 2020

General Information:
1 sample was analyzed for EPA 8270E by SIM by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA Mod. 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 686283

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524483

Method: **EPA 8260D**
Description: 8260D VOC
Client: Braun Intertec Corporation
Date: July 27, 2020

General Information:
4 samples were analyzed for EPA 8260D by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 686984

1M: The continuing calibration for this analyte exceeded 20% difference acceptance criteria for EPA method. Analyte presence below reporting limits in associated samples. No impact to data.

- BLANK (Lab ID: 3673547)
  - Acetone
- Equipment Blank (Lab ID: 10524483003)
  - Acetone
- Irrigation Well (Lab ID: 10524483001)
  - Acetone
- Maintenance Well (Lab ID: 10524483002)
  - Acetone

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PROJECT NARRATIVE

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524483

Method: **EPA 8260D**
Description: 8260D VOC
Client: Braun Intertec Corporation
Date: July 27, 2020

Analyte Comments:

QC Batch: 686984

1M: The continuing calibration for this analyte exceeded 20% difference acceptance criteria for EPA method. Analyte presence below reporting limits in associated samples. No impact to data.

- Trip Blank (Lab ID: 10524483004)
  - Acetone

2M: The continuing calibration for this analyte exceeded 20% difference acceptance criteria for EPA method. The result may be biased high.

- LCS (Lab ID: 3673548)
  - Acetone
- MS (Lab ID: 3673742)
  - Acetone
- MSD (Lab ID: 3673743)
  - Acetone

3M: The continuing calibration for this analyte is below 20% difference acceptance criteria for EPA method 8260D but within 50% of the true value. Instrument sensitivity verified with reporting limit check.

- BLANK (Lab ID: 3673547)
  - Bromomethane
- Equipment Blank (Lab ID: 10524483003)
  - Bromomethane
- Irrigation Well (Lab ID: 10524483001)
  - Bromomethane
- Maintenance Well (Lab ID: 10524483002)
  - Bromomethane
- Trip Blank (Lab ID: 10524483004)
  - Bromomethane

4M: The continuing calibration for this analyte is below 20% difference acceptance criteria for EPA method 8260D but within 50% of the true value. The result may be biased low.

- LCS (Lab ID: 3673548)
  - Bromomethane
- MS (Lab ID: 3673742)
  - Bromomethane
- MSD (Lab ID: 3673743)
  - Bromomethane

- BLANK (Lab ID: 3673547)
  - Dichlorofluoromethane
- Equipment Blank (Lab ID: 10524483003)
  - Dichlorofluoromethane
- Irrigation Well (Lab ID: 10524483001)
  - Dichlorofluoromethane
- LCS (Lab ID: 3673548)
  - Dichlorofluoromethane
- MS (Lab ID: 3673742)
  - Dichlorofluoromethane

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PROJECT NARRATIVE

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524483

Method: **EPA 8260D**
Description: 8260D VOC
Client: Braun Intertec Corporation
Date: July 27, 2020

Analyte Comments:

QC Batch: 686984

- MSD (Lab ID: 3673743)
  - Dichlorofluoromethane
- Maintenance Well (Lab ID: 10524483002)
  - Dichlorofluoromethane
- Trip Blank (Lab ID: 10524483004)
  - Dichlorofluoromethane

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PROJECT NARRATIVE

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524483

Method: **EPA 351.2**
Description: 351.2 Total Kjeldahl Nitrogen
Client: Braun Intertec Corporation
Date: July 27, 2020

General Information:
3 samples were analyzed for EPA 351.2 by Pace Analytical Services Virginia. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 351.2 with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 193954

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 12147079001,12147388001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 765301)
  - Nitrogen, Kjeldahl, Total
- MSD (Lab ID: 765302)
  - Nitrogen, Kjeldahl, Total

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524483

Method: **EPA 353.2**
Description: 353.2 Nitrate + Nitrite
Client: Braun Intertec Corporation
Date: July 27, 2020

General Information:
3 samples were analyzed for EPA 353.2 by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 688328

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10525306004,10525306005

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3681681)
  - Nitrogen, NO2 plus NO3

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524483

Sample: Irrigation Well **Lab ID: 10524483001** Collected: 07/09/20 13:15 Received: 07/10/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Acetone	ND	ug/L	20.0	1		07/15/20 17:37	67-64-1	1M
Allyl chloride	ND	ug/L	4.0	1		07/15/20 17:37	107-05-1	
Benzene	ND	ug/L	1.0	1		07/15/20 17:37	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/15/20 17:37	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/15/20 17:37	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/15/20 17:37	75-27-4	
Bromoform	ND	ug/L	4.0	1		07/15/20 17:37	75-25-2	
Bromomethane	ND	ug/L	4.0	1		07/15/20 17:37	74-83-9	3M
2-Butanone (MEK)	ND	ug/L	20.0	1		07/15/20 17:37	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		07/15/20 17:37	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		07/15/20 17:37	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		07/15/20 17:37	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		07/15/20 17:37	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/15/20 17:37	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/15/20 17:37	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/15/20 17:37	67-66-3	
Chloromethane	ND	ug/L	4.0	1		07/15/20 17:37	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/15/20 17:37	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/15/20 17:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		07/15/20 17:37	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/15/20 17:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/15/20 17:37	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		07/15/20 17:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/15/20 17:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/15/20 17:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/15/20 17:37	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/15/20 17:37	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/15/20 17:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/15/20 17:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/15/20 17:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/15/20 17:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/15/20 17:37	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		07/15/20 17:37	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		07/15/20 17:37	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/15/20 17:37	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		07/15/20 17:37	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/15/20 17:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		07/15/20 17:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		07/15/20 17:37	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		07/15/20 17:37	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		07/15/20 17:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		07/15/20 17:37	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		07/15/20 17:37	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/15/20 17:37	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		07/15/20 17:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/15/20 17:37	108-10-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524483

Sample: Irrigation Well **Lab ID: 10524483001** Collected: 07/09/20 13:15 Received: 07/10/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/15/20 17:37	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		07/15/20 17:37	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		07/15/20 17:37	103-65-1	
Styrene	ND	ug/L	1.0	1		07/15/20 17:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/15/20 17:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/15/20 17:37	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/15/20 17:37	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		07/15/20 17:37	109-99-9	
Toluene	ND	ug/L	1.0	1		07/15/20 17:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/15/20 17:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/15/20 17:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/15/20 17:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/15/20 17:37	79-00-5	
Trichloroethene	ND	ug/L	0.40	1		07/15/20 17:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/15/20 17:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		07/15/20 17:37	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		07/15/20 17:37	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		07/15/20 17:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		07/15/20 17:37	108-67-8	
Vinyl chloride	ND	ug/L	0.20	1		07/15/20 17:37	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		07/15/20 17:37	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/15/20 17:37	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/15/20 17:37	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%.	75-125	1		07/15/20 17:37	17060-07-0	
Toluene-d8 (S)	97	%.	75-125	1		07/15/20 17:37	2037-26-5	
4-Bromofluorobenzene (S)	104	%.	75-125	1		07/15/20 17:37	460-00-4	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Virginia							
Nitrogen, Kjeldahl, Total	**0.84**	mg/L	0.80	1	07/20/20 09:09	07/21/20 09:48	7727-37-9	
353.2 Nitrate + Nitrite	Analytical Method: EPA 353.2 Pace Analytical Services - Minneapolis							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		07/23/20 12:26		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524483

Sample: Maintenance Well **Lab ID: 10524483002** Collected: 07/09/20 16:30 Received: 07/10/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Acetone	ND	ug/L	20.0	1		07/15/20 17:54	67-64-1	1M
Allyl chloride	ND	ug/L	4.0	1		07/15/20 17:54	107-05-1	
Benzene	ND	ug/L	1.0	1		07/15/20 17:54	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/15/20 17:54	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/15/20 17:54	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/15/20 17:54	75-27-4	
Bromoform	ND	ug/L	4.0	1		07/15/20 17:54	75-25-2	
Bromomethane	ND	ug/L	4.0	1		07/15/20 17:54	74-83-9	3M
2-Butanone (MEK)	ND	ug/L	20.0	1		07/15/20 17:54	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		07/15/20 17:54	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		07/15/20 17:54	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		07/15/20 17:54	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		07/15/20 17:54	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/15/20 17:54	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/15/20 17:54	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/15/20 17:54	67-66-3	
Chloromethane	ND	ug/L	4.0	1		07/15/20 17:54	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/15/20 17:54	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/15/20 17:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		07/15/20 17:54	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/15/20 17:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/15/20 17:54	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		07/15/20 17:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/15/20 17:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/15/20 17:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/15/20 17:54	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/15/20 17:54	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/15/20 17:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/15/20 17:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/15/20 17:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/15/20 17:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/15/20 17:54	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		07/15/20 17:54	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		07/15/20 17:54	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/15/20 17:54	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		07/15/20 17:54	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/15/20 17:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		07/15/20 17:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		07/15/20 17:54	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		07/15/20 17:54	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		07/15/20 17:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		07/15/20 17:54	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		07/15/20 17:54	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/15/20 17:54	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		07/15/20 17:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/15/20 17:54	108-10-1	

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Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524483

Sample: Maintenance Well **Lab ID: 10524483002** Collected: 07/09/20 16:30 Received: 07/10/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/15/20 17:54	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		07/15/20 17:54	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		07/15/20 17:54	103-65-1	
Styrene	ND	ug/L	1.0	1		07/15/20 17:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/15/20 17:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/15/20 17:54	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/15/20 17:54	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		07/15/20 17:54	109-99-9	
Toluene	ND	ug/L	1.0	1		07/15/20 17:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/15/20 17:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/15/20 17:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/15/20 17:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/15/20 17:54	79-00-5	
Trichloroethene	ND	ug/L	0.40	1		07/15/20 17:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/15/20 17:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		07/15/20 17:54	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		07/15/20 17:54	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		07/15/20 17:54	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		07/15/20 17:54	108-67-8	
Vinyl chloride	ND	ug/L	0.20	1		07/15/20 17:54	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		07/15/20 17:54	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/15/20 17:54	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/15/20 17:54	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%.	75-125	1		07/15/20 17:54	17060-07-0	
Toluene-d8 (S)	96	%.	75-125	1		07/15/20 17:54	2037-26-5	
4-Bromofluorobenzene (S)	104	%.	75-125	1		07/15/20 17:54	460-00-4	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Virginia							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.80	1	07/20/20 09:09	07/21/20 09:53	7727-37-9	
353.2 Nitrate + Nitrite	Analytical Method: EPA 353.2 Pace Analytical Services - Minneapolis							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		07/23/20 12:28		

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(612)607-1700

ANALYTICAL RESULTS

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524483

Sample: Equipment Blank **Lab ID: 10524483003** Collected: 07/09/20 10:30 Received: 07/10/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis							
Arsenic, Dissolved	ND	ug/L	20.0	1	07/13/20 06:14	07/14/20 11:49	7440-38-2	
Barium, Dissolved	ND	ug/L	10.0	1	07/13/20 06:14	07/14/20 11:49	7440-39-3	
Cadmium, Dissolved	ND	ug/L	3.0	1	07/13/20 06:14	07/14/20 11:49	7440-43-9	
Chromium, Dissolved	ND	ug/L	10.0	1	07/13/20 06:14	07/14/20 11:49	7440-47-3	
Lead, Dissolved	ND	ug/L	10.0	1	07/13/20 06:14	07/14/20 11:49	7439-92-1	
Selenium, Dissolved	ND	ug/L	20.0	1	07/13/20 06:14	07/14/20 11:49	7782-49-2	
Silver, Dissolved	ND	ug/L	10.0	1	07/13/20 06:14	07/14/20 11:49	7440-22-4	
7470A Mercury, Dissolved	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Minneapolis							
Mercury, Dissolved	ND	ug/L	0.20	1	07/13/20 09:44	07/14/20 13:53	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA Mod. 3510C Pace Analytical Services - Minneapolis							
Acenaphthene	ND	ug/L	0.038	1	07/12/20 13:17	07/15/20 15:36	83-32-9	
Acenaphthylene	ND	ug/L	0.038	1	07/12/20 13:17	07/15/20 15:36	208-96-8	
Anthracene	ND	ug/L	0.038	1	07/12/20 13:17	07/15/20 15:36	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.038	1	07/12/20 13:17	07/15/20 15:36	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.038	1	07/12/20 13:17	07/15/20 15:36	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.038	1	07/12/20 13:17	07/15/20 15:36	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.038	1	07/12/20 13:17	07/15/20 15:36	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.038	1	07/12/20 13:17	07/15/20 15:36	207-08-9	
Chrysene	ND	ug/L	0.038	1	07/12/20 13:17	07/15/20 15:36	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.038	1	07/12/20 13:17	07/15/20 15:36	53-70-3	
Fluoranthene	ND	ug/L	0.038	1	07/12/20 13:17	07/15/20 15:36	206-44-0	
Fluorene	ND	ug/L	0.038	1	07/12/20 13:17	07/15/20 15:36	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.038	1	07/12/20 13:17	07/15/20 15:36	193-39-5	
Naphthalene	ND	ug/L	0.038	1	07/12/20 13:17	07/15/20 15:36	91-20-3	
Phenanthrene	ND	ug/L	0.038	1	07/12/20 13:17	07/15/20 15:36	85-01-8	
Pyrene	ND	ug/L	0.038	1	07/12/20 13:17	07/15/20 15:36	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	89	%.	50-125	1	07/12/20 13:17	07/15/20 15:36	321-60-8	
p-Terphenyl-d14 (S)	95	%.	58-125	1	07/12/20 13:17	07/15/20 15:36	1718-51-0	
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Acetone	ND	ug/L	20.0	1		07/15/20 15:53	67-64-1	1M
Allyl chloride	ND	ug/L	4.0	1		07/15/20 15:53	107-05-1	
Benzene	ND	ug/L	1.0	1		07/15/20 15:53	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/15/20 15:53	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/15/20 15:53	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/15/20 15:53	75-27-4	
Bromoform	ND	ug/L	4.0	1		07/15/20 15:53	75-25-2	
Bromomethane	ND	ug/L	4.0	1		07/15/20 15:53	74-83-9	3M
2-Butanone (MEK)	ND	ug/L	20.0	1		07/15/20 15:53	78-93-3	

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(612)607-1700

ANALYTICAL RESULTS

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524483

Sample: Equipment Blank **Lab ID: 10524483003** Collected: 07/09/20 10:30 Received: 07/10/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
n-Butylbenzene	ND	ug/L	1.0	1		07/15/20 15:53	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		07/15/20 15:53	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		07/15/20 15:53	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		07/15/20 15:53	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/15/20 15:53	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/15/20 15:53	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/15/20 15:53	67-66-3	
Chloromethane	ND	ug/L	4.0	1		07/15/20 15:53	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/15/20 15:53	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/15/20 15:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		07/15/20 15:53	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/15/20 15:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/15/20 15:53	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		07/15/20 15:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/15/20 15:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/15/20 15:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/15/20 15:53	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/15/20 15:53	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/15/20 15:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/15/20 15:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/15/20 15:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/15/20 15:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/15/20 15:53	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		07/15/20 15:53	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		07/15/20 15:53	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/15/20 15:53	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		07/15/20 15:53	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/15/20 15:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		07/15/20 15:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		07/15/20 15:53	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		07/15/20 15:53	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		07/15/20 15:53	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		07/15/20 15:53	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		07/15/20 15:53	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/15/20 15:53	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		07/15/20 15:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/15/20 15:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/15/20 15:53	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		07/15/20 15:53	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		07/15/20 15:53	103-65-1	
Styrene	ND	ug/L	1.0	1		07/15/20 15:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/15/20 15:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/15/20 15:53	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/15/20 15:53	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		07/15/20 15:53	109-99-9	
Toluene	ND	ug/L	1.0	1		07/15/20 15:53	108-88-3	

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ANALYTICAL RESULTS

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524483

Sample: Equipment Blank **Lab ID: 10524483003** Collected: 07/09/20 10:30 Received: 07/10/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/15/20 15:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/15/20 15:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/15/20 15:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/15/20 15:53	79-00-5	
Trichloroethene	ND	ug/L	0.40	1		07/15/20 15:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/15/20 15:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		07/15/20 15:53	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		07/15/20 15:53	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		07/15/20 15:53	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		07/15/20 15:53	108-67-8	
Vinyl chloride	ND	ug/L	0.20	1		07/15/20 15:53	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		07/15/20 15:53	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/15/20 15:53	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/15/20 15:53	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%.	75-125	1		07/15/20 15:53	17060-07-0	
Toluene-d8 (S)	97	%.	75-125	1		07/15/20 15:53	2037-26-5	
4-Bromofluorobenzene (S)	104	%.	75-125	1		07/15/20 15:53	460-00-4	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Virginia							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.80	1	07/20/20 09:09	07/21/20 09:54	7727-37-9	
353.2 Nitrate + Nitrite	Analytical Method: EPA 353.2 Pace Analytical Services - Minneapolis							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		07/23/20 12:29		

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ANALYTICAL RESULTS

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524483

Sample: Trip Blank **Lab ID: 10524483004** Collected: 07/09/20 00:00 Received: 07/10/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Acetone	ND	ug/L	20.0	1		07/15/20 14:45	67-64-1	1M
Allyl chloride	ND	ug/L	4.0	1		07/15/20 14:45	107-05-1	
Benzene	ND	ug/L	1.0	1		07/15/20 14:45	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/15/20 14:45	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/15/20 14:45	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/15/20 14:45	75-27-4	
Bromoform	ND	ug/L	4.0	1		07/15/20 14:45	75-25-2	
Bromomethane	ND	ug/L	4.0	1		07/15/20 14:45	74-83-9	3M
2-Butanone (MEK)	ND	ug/L	20.0	1		07/15/20 14:45	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		07/15/20 14:45	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		07/15/20 14:45	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		07/15/20 14:45	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		07/15/20 14:45	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/15/20 14:45	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/15/20 14:45	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/15/20 14:45	67-66-3	
Chloromethane	ND	ug/L	4.0	1		07/15/20 14:45	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/15/20 14:45	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/15/20 14:45	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		07/15/20 14:45	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/15/20 14:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/15/20 14:45	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		07/15/20 14:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/15/20 14:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/15/20 14:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/15/20 14:45	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/15/20 14:45	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/15/20 14:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/15/20 14:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/15/20 14:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/15/20 14:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/15/20 14:45	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		07/15/20 14:45	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		07/15/20 14:45	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/15/20 14:45	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		07/15/20 14:45	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/15/20 14:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		07/15/20 14:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		07/15/20 14:45	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		07/15/20 14:45	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		07/15/20 14:45	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		07/15/20 14:45	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		07/15/20 14:45	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/15/20 14:45	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		07/15/20 14:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/15/20 14:45	108-10-1	

REPORT OF LABORATORY ANALYSIS

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(612)607-1700

ANALYTICAL RESULTS

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524483

Sample: Trip Blank **Lab ID: 10524483004** Collected: 07/09/20 00:00 Received: 07/10/20 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/15/20 14:45	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		07/15/20 14:45	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		07/15/20 14:45	103-65-1	
Styrene	ND	ug/L	1.0	1		07/15/20 14:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/15/20 14:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/15/20 14:45	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/15/20 14:45	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		07/15/20 14:45	109-99-9	
Toluene	ND	ug/L	1.0	1		07/15/20 14:45	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/15/20 14:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/15/20 14:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/15/20 14:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/15/20 14:45	79-00-5	
Trichloroethene	ND	ug/L	0.40	1		07/15/20 14:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/15/20 14:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		07/15/20 14:45	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		07/15/20 14:45	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		07/15/20 14:45	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		07/15/20 14:45	108-67-8	
Vinyl chloride	ND	ug/L	0.20	1		07/15/20 14:45	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		07/15/20 14:45	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/15/20 14:45	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/15/20 14:45	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%.	75-125	1		07/15/20 14:45	17060-07-0	
Toluene-d8 (S)	97	%.	75-125	1		07/15/20 14:45	2037-26-5	
4-Bromofluorobenzene (S)	104	%.	75-125	1		07/15/20 14:45	460-00-4	

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QUALITY CONTROL DATA

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524483

QC Batch: 686322
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470A Mercury Water Dissolved
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10524483003

METHOD BLANK: 3670498 Matrix: Water
Associated Lab Samples: 10524483003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	07/14/20 13:22	

LABORATORY CONTROL SAMPLE: 3670499

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.8	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3670500 3670501

Parameter	Units	10524123006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	6.2	4.6	124	92	80-120	29	20	M1,R1

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QUALITY CONTROL DATA

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524483

QC Batch: 686317
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D Water Dissolved
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10524483003

METHOD BLANK: 3670478 Matrix: Water
Associated Lab Samples: 10524483003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	ND	20.0	07/14/20 11:16	
Barium, Dissolved	ug/L	ND	10.0	07/14/20 11:16	
Cadmium, Dissolved	ug/L	ND	3.0	07/14/20 11:16	
Chromium, Dissolved	ug/L	ND	10.0	07/14/20 11:16	
Lead, Dissolved	ug/L	ND	10.0	07/14/20 11:16	
Selenium, Dissolved	ug/L	ND	20.0	07/14/20 11:16	
Silver, Dissolved	ug/L	ND	10.0	07/14/20 11:16	

LABORATORY CONTROL SAMPLE: 3670479

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	1000	949	95	80-120	
Barium, Dissolved	ug/L	1000	951	95	80-120	
Cadmium, Dissolved	ug/L	1000	970	97	80-120	
Chromium, Dissolved	ug/L	1000	948	95	80-120	
Lead, Dissolved	ug/L	1000	958	96	80-120	
Selenium, Dissolved	ug/L	1000	976	98	80-120	
Silver, Dissolved	ug/L	500	474	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3670480 3670481

Parameter	Units	10524123005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	ug/L	ND	1000	1000	1030	1000	103	100	75-125	3	20	
Barium, Dissolved	ug/L	536	1000	1000	1520	1470	98	93	75-125	3	20	
Cadmium, Dissolved	ug/L	ND	1000	1000	936	910	94	91	75-125	3	20	
Chromium, Dissolved	ug/L	ND	1000	1000	962	933	96	93	75-125	3	20	
Lead, Dissolved	ug/L	ND	1000	1000	932	901	93	90	75-125	3	20	
Selenium, Dissolved	ug/L	ND	1000	1000	1020	982	102	98	75-125	3	20	
Silver, Dissolved	ug/L	ND	500	500	537	520	107	104	75-125	3	20	

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QUALITY CONTROL DATA

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524483

QC Batch: 686984
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260D MSV 465 W
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10524483001, 10524483002, 10524483003, 10524483004

METHOD BLANK: 3673547 Matrix: Water
Associated Lab Samples: 10524483001, 10524483002, 10524483003, 10524483004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	07/15/20 13:36	
1,1,1-Trichloroethane	ug/L	ND	1.0	07/15/20 13:36	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	07/15/20 13:36	
1,1,2-Trichloroethane	ug/L	ND	1.0	07/15/20 13:36	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	07/15/20 13:36	
1,1-Dichloroethane	ug/L	ND	1.0	07/15/20 13:36	
1,1-Dichloroethene	ug/L	ND	1.0	07/15/20 13:36	
1,1-Dichloropropene	ug/L	ND	1.0	07/15/20 13:36	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	07/15/20 13:36	
1,2,3-Trichloropropane	ug/L	ND	4.0	07/15/20 13:36	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	07/15/20 13:36	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	07/15/20 13:36	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	07/15/20 13:36	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	07/15/20 13:36	
1,2-Dichlorobenzene	ug/L	ND	1.0	07/15/20 13:36	
1,2-Dichloroethane	ug/L	ND	1.0	07/15/20 13:36	
1,2-Dichloropropane	ug/L	ND	4.0	07/15/20 13:36	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	07/15/20 13:36	
1,3-Dichlorobenzene	ug/L	ND	1.0	07/15/20 13:36	
1,3-Dichloropropane	ug/L	ND	1.0	07/15/20 13:36	
1,4-Dichlorobenzene	ug/L	ND	1.0	07/15/20 13:36	
2,2-Dichloropropane	ug/L	ND	4.0	07/15/20 13:36	
2-Butanone (MEK)	ug/L	ND	20.0	07/15/20 13:36	MN
2-Chlorotoluene	ug/L	ND	1.0	07/15/20 13:36	
4-Chlorotoluene	ug/L	ND	1.0	07/15/20 13:36	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	07/15/20 13:36	
Acetone	ug/L	ND	20.0	07/15/20 13:36	1M
Allyl chloride	ug/L	ND	4.0	07/15/20 13:36	
Benzene	ug/L	ND	1.0	07/15/20 13:36	
Bromobenzene	ug/L	ND	1.0	07/15/20 13:36	
Bromochloromethane	ug/L	ND	1.0	07/15/20 13:36	
Bromodichloromethane	ug/L	ND	1.0	07/15/20 13:36	
Bromoform	ug/L	ND	4.0	07/15/20 13:36	
Bromomethane	ug/L	ND	4.0	07/15/20 13:36	3M
Carbon tetrachloride	ug/L	ND	1.0	07/15/20 13:36	
Chlorobenzene	ug/L	ND	1.0	07/15/20 13:36	
Chloroethane	ug/L	ND	1.0	07/15/20 13:36	
Chloroform	ug/L	ND	1.0	07/15/20 13:36	
Chloromethane	ug/L	ND	4.0	07/15/20 13:36	
cis-1,2-Dichloroethene	ug/L	ND	1.0	07/15/20 13:36	

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QUALITY CONTROL DATA

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524483

METHOD BLANK: 3673547 Matrix: Water
Associated Lab Samples: 10524483001, 10524483002, 10524483003, 10524483004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	4.0	07/15/20 13:36	
Dibromochloromethane	ug/L	ND	1.0	07/15/20 13:36	
Dibromomethane	ug/L	ND	4.0	07/15/20 13:36	
Dichlorodifluoromethane	ug/L	ND	1.0	07/15/20 13:36	
Dichlorofluoromethane	ug/L	ND	1.0	07/15/20 13:36	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	07/15/20 13:36	
Ethylbenzene	ug/L	ND	1.0	07/15/20 13:36	
Hexachloro-1,3-butadiene	ug/L	ND	4.0	07/15/20 13:36	MN
Isopropylbenzene (Cumene)	ug/L	ND	1.0	07/15/20 13:36	
m&p-Xylene	ug/L	ND	2.0	07/15/20 13:36	
Methyl-tert-butyl ether	ug/L	ND	1.0	07/15/20 13:36	
Methylene Chloride	ug/L	ND	4.0	07/15/20 13:36	
n-Butylbenzene	ug/L	ND	1.0	07/15/20 13:36	
n-Propylbenzene	ug/L	ND	1.0	07/15/20 13:36	
Naphthalene	ug/L	ND	4.0	07/15/20 13:36	
o-Xylene	ug/L	ND	1.0	07/15/20 13:36	
p-Isopropyltoluene	ug/L	ND	1.0	07/15/20 13:36	
sec-Butylbenzene	ug/L	ND	1.0	07/15/20 13:36	
Styrene	ug/L	ND	1.0	07/15/20 13:36	
tert-Butylbenzene	ug/L	ND	1.0	07/15/20 13:36	
Tetrachloroethene	ug/L	ND	1.0	07/15/20 13:36	
Tetrahydrofuran	ug/L	ND	10.0	07/15/20 13:36	
Toluene	ug/L	ND	1.0	07/15/20 13:36	
trans-1,2-Dichloroethene	ug/L	ND	1.0	07/15/20 13:36	
trans-1,3-Dichloropropene	ug/L	ND	4.0	07/15/20 13:36	
Trichloroethene	ug/L	ND	0.40	07/15/20 13:36	
Trichlorofluoromethane	ug/L	ND	1.0	07/15/20 13:36	
Vinyl chloride	ug/L	ND	0.20	07/15/20 13:36	
Xylene (Total)	ug/L	ND	3.0	07/15/20 13:36	
1,2-Dichloroethane-d4 (S)	%.	95	75-125	07/15/20 13:36	
4-Bromofluorobenzene (S)	%.	102	75-125	07/15/20 13:36	
Toluene-d8 (S)	%.	96	75-125	07/15/20 13:36	

LABORATORY CONTROL SAMPLE: 3673548

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.1	105	75-128	
1,1,1-Trichloroethane	ug/L	20	20.8	104	75-128	
1,1,2,2-Tetrachloroethane	ug/L	20	19.6	98	69-129	
1,1,2-Trichloroethane	ug/L	20	20.8	104	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	20.5	103	74-125	
1,1-Dichloroethane	ug/L	20	19.6	98	75-125	
1,1-Dichloroethene	ug/L	20	18.8	94	65-125	
1,1-Dichloropropene	ug/L	20	19.4	97	69-131	

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QUALITY CONTROL DATA

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524483

LABORATORY CONTROL SAMPLE: 3673548

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichlorobenzene	ug/L	20	19.7	99	75-125	
1,2,3-Trichloropropane	ug/L	20	20.0	100	75-125	
1,2,4-Trichlorobenzene	ug/L	20	19.8	99	67-131	
1,2,4-Trimethylbenzene	ug/L	20	19.7	99	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	48.6	97	65-128	
1,2-Dibromoethane (EDB)	ug/L	20	20.1	101	75-125	
1,2-Dichlorobenzene	ug/L	20	20.8	104	75-125	
1,2-Dichloroethane	ug/L	20	18.2	91	74-125	
1,2-Dichloropropane	ug/L	20	21.0	105	68-125	
1,3,5-Trimethylbenzene	ug/L	20	19.7	99	75-125	
1,3-Dichlorobenzene	ug/L	20	20.9	104	75-125	
1,3-Dichloropropane	ug/L	20	20.3	102	75-125	
1,4-Dichlorobenzene	ug/L	20	19.3	97	75-125	
2,2-Dichloropropane	ug/L	20	21.6	108	70-133	
2-Butanone (MEK)	ug/L	100	116	116	62-142	
2-Chlorotoluene	ug/L	20	20.3	101	75-125	
4-Chlorotoluene	ug/L	20	20.3	101	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	106	106	75-125	
Acetone	ug/L	100	128	128	47-150	2M
Allyl chloride	ug/L	20	19.9	100	65-125	
Benzene	ug/L	20	20.1	100	75-125	
Bromobenzene	ug/L	20	19.5	98	75-125	
Bromochloromethane	ug/L	20	20.0	100	75-125	
Bromodichloromethane	ug/L	20	19.2	96	75-128	
Bromoform	ug/L	20	18.2	91	75-125	
Bromomethane	ug/L	20	13.1	65	43-150	4M
Carbon tetrachloride	ug/L	20	19.1	96	75-127	
Chlorobenzene	ug/L	20	20.9	104	75-125	
Chloroethane	ug/L	20	22.9	114	72-130	
Chloroform	ug/L	20	18.6	93	75-125	
Chloromethane	ug/L	20	19.7	98	55-128	
cis-1,2-Dichloroethene	ug/L	20	20.5	102	75-125	
cis-1,3-Dichloropropene	ug/L	20	20.9	104	74-132	
Dibromochloromethane	ug/L	20	19.9	99	75-125	
Dibromomethane	ug/L	20	20.3	102	71-137	
Dichlorodifluoromethane	ug/L	20	20.5	102	69-126	
Dichlorofluoromethane	ug/L	20	19.2	96	75-125	
Diethyl ether (Ethyl ether)	ug/L	20	19.7	98	72-125	
Ethylbenzene	ug/L	20	20.3	101	75-125	
Hexachloro-1,3-butadiene	ug/L	20	19.5	98	74-129	
Isopropylbenzene (Cumene)	ug/L	20	20.9	104	75-125	
m&p-Xylene	ug/L	40	40.2	100	74-125	
Methyl-tert-butyl ether	ug/L	20	19.7	99	69-125	
Methylene Chloride	ug/L	20	19.2	96	72-125	
n-Butylbenzene	ug/L	20	20.3	101	75-128	
n-Propylbenzene	ug/L	20	19.8	99	75-125	
Naphthalene	ug/L	20	22.3	112	70-125	

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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524483

LABORATORY CONTROL SAMPLE: 3673548

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
o-Xylene	ug/L	20	20.2	101	75-125	
p-Isopropyltoluene	ug/L	20	20.8	104	75-125	
sec-Butylbenzene	ug/L	20	20.1	101	75-127	
Styrene	ug/L	20	20.9	104	75-125	
tert-Butylbenzene	ug/L	20	20.4	102	75-125	
Tetrachloroethene	ug/L	20	22.0	110	74-125	
Tetrahydrofuran	ug/L	200	212	106	73-132	
Toluene	ug/L	20	20.4	102	75-125	
trans-1,2-Dichloroethene	ug/L	20	21.3	107	69-125	
trans-1,3-Dichloropropene	ug/L	20	20.8	104	69-130	
Trichloroethene	ug/L	20	20.8	104	75-127	
Trichlorofluoromethane	ug/L	20	22.4	112	71-132	
Vinyl chloride	ug/L	20	20.7	103	65-128	
Xylene (Total)	ug/L	60	60.4	101	75-125	
1,2-Dichloroethane-d4 (S)	%.			96	75-125	
4-Bromofluorobenzene (S)	%.			99	75-125	
Toluene-d8 (S)	%.			102	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3673742 3673743

Parameter	Units	10524487003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.6	20.7	108	104	71-128	4	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	22.5	21.3	113	107	75-144	5	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	19.9	20.6	100	103	63-125	3	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	21.5	20.2	108	101	75-125	6	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	20	22.1	21.0	111	105	69-141	5	30	
1,1-Dichloroethane	ug/L	ND	20	20	20.7	19.7	104	99	68-125	5	30	
1,1-Dichloroethene	ug/L	ND	20	20	20.3	19.6	101	98	62-135	3	30	
1,1-Dichloropropene	ug/L	ND	20	20	20.8	20.2	104	101	61-147	3	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	21.3	21.1	106	106	59-145	1	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	20.0	20.4	100	102	69-125	2	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	21.4	21.5	107	107	59-144	1	30	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	20.9	20.7	105	104	56-139	1	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	49.2	51.0	98	102	64-125	4	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.8	20.0	104	100	71-125	4	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	21.8	21.6	109	108	74-125	1	30	
1,2-Dichloroethane	ug/L	ND	20	20	19.2	17.9	96	90	64-125	7	30	
1,2-Dichloropropane	ug/L	ND	20	20	21.8	21.2	109	106	63-125	3	30	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	21.3	21.1	106	105	63-132	1	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	22.8	22.2	114	111	74-125	3	30	
1,3-Dichloropropane	ug/L	ND	20	20	21.4	20.3	107	101	75-125	6	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	20.0	20.0	100	100	73-125	0	30	
2,2-Dichloropropane	ug/L	ND	20	20	21.2	20.1	106	101	64-145	5	30	

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(612)607-1700

QUALITY CONTROL DATA

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524483

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3673742 3673743

Parameter	Units	10524487003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Butanone (MEK)	ug/L	ND	100	100	79.1	80.0	79	80	39-125	1	30	
2-Chlorotoluene	ug/L	ND	20	20	21.6	21.1	108	105	68-128	3	30	
4-Chlorotoluene	ug/L	ND	20	20	21.3	20.9	106	104	71-128	2	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	105	106	105	106	65-125	2	30	
Acetone	ug/L	ND	100	100	58.7	55.3	59	55	32-133	6	30	2M
Allyl chloride	ug/L	ND	20	20	20.9	20.0	105	100	61-125	5	30	
Benzene	ug/L	ND	20	20	20.8	19.9	104	100	63-125	4	30	
Bromobenzene	ug/L	ND	20	20	20.5	20.5	103	102	75-125	0	30	
Bromochloromethane	ug/L	ND	20	20	21.0	19.7	105	99	67-125	6	30	
Bromodichloromethane	ug/L	ND	20	20	19.7	19.4	98	97	67-139	1	30	
Bromoform	ug/L	ND	20	20	17.1	17.9	85	90	75-125	5	30	
Bromomethane	ug/L	ND	20	20	14.4	16.6	72	83	50-150	15	30	4M
Carbon tetrachloride	ug/L	ND	20	20	20.4	19.6	102	98	70-148	4	30	
Chlorobenzene	ug/L	ND	20	20	21.7	20.7	108	104	75-125	5	30	
Chloroethane	ug/L	ND	20	20	22.4	20.5	112	103	62-142	9	30	
Chloroform	ug/L	ND	20	20	19.3	18.5	97	93	67-125	4	30	
Chloromethane	ug/L	ND	20	20	20.9	19.7	104	99	43-140	6	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	21.3	20.5	107	103	64-134	4	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	20.6	20.2	103	101	68-129	2	30	
Dibromochloromethane	ug/L	ND	20	20	20.7	19.6	103	98	71-137	6	30	
Dibromomethane	ug/L	ND	20	20	20.3	19.7	102	98	66-130	3	30	
Dichlorodifluoromethane	ug/L	ND	20	20	22.6	20.7	113	103	61-144	9	30	
Dichlorofluoromethane	ug/L	ND	20	20	20.0	19.0	100	95	68-125	5	30	
Diethyl ether (Ethyl ether)	ug/L	ND	20	20	20.4	19.3	102	97	57-127	5	30	
Ethylbenzene	ug/L	ND	20	20	21.7	20.3	109	101	66-128	7	30	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	21.1	20.8	106	104	52-150	2	30	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	22.7	21.1	114	106	73-138	7	30	
m&p-Xylene	ug/L	ND	40	40	43.4	40.2	108	100	62-133	8	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	20.2	19.6	101	98	60-125	3	30	
Methylene Chloride	ug/L	ND	20	20	18.9	18.6	95	93	59-125	1	30	
n-Butylbenzene	ug/L	ND	20	20	21.6	21.6	108	108	68-146	0	30	
n-Propylbenzene	ug/L	ND	20	20	21.2	20.6	106	103	72-132	3	30	
Naphthalene	ug/L	ND	20	20	21.4	22.5	107	113	55-135	5	30	
o-Xylene	ug/L	ND	20	20	22.7	21.0	114	105	66-128	8	30	
p-Isopropyltoluene	ug/L	ND	20	20	21.8	21.9	109	109	69-139	0	30	
sec-Butylbenzene	ug/L	ND	20	20	22.1	21.9	110	109	69-149	1	30	
Styrene	ug/L	ND	20	20	22.1	20.7	110	103	75-126	7	30	
tert-Butylbenzene	ug/L	ND	20	20	22.2	21.6	111	108	67-147	3	30	
Tetrachloroethene	ug/L	ND	20	20	22.9	21.6	115	108	70-141	6	30	
Tetrahydrofuran	ug/L	ND	200	200	202	199	101	99	64-128	1	30	
Toluene	ug/L	ND	20	20	21.2	20.5	106	102	64-125	4	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	22.0	21.1	110	106	62-135	4	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	21.2	20.1	106	101	69-125	5	30	
Trichloroethene	ug/L	ND	20	20	21.6	20.9	108	105	69-141	3	30	

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REPORT OF LABORATORY ANALYSIS

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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524483

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3673742 3673743

Parameter	Units	10524487003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Trichlorofluoromethane	ug/L	ND	20	20	24.6	22.2	123	111	61-148	10	30	
Vinyl chloride	ug/L	ND	20	20	22.2	20.8	111	104	56-144	6	30	
Xylene (Total)	ug/L	ND	60	60	66.1	61.2	110	102	64-131	8	30	
1,2-Dichloroethane-d4 (S)	%.						100	99	75-125			
4-Bromofluorobenzene (S)	%.						100	99	75-125			
Toluene-d8 (S)	%.						103	103	75-125			

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QUALITY CONTROL DATA

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524483

QC Batch: 686283
QC Batch Method: EPA Mod. 3510C
Analysis Method: EPA 8270E by SIM
Analysis Description: 8270E Water PAH by SIM MSSV
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10524483003

METHOD BLANK: 3670361 Matrix: Water
Associated Lab Samples: 10524483003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	0.040	07/15/20 13:31	
Acenaphthylene	ug/L	ND	0.040	07/15/20 13:31	
Anthracene	ug/L	ND	0.040	07/15/20 13:31	
Benzo(a)anthracene	ug/L	ND	0.040	07/15/20 13:31	
Benzo(a)pyrene	ug/L	ND	0.040	07/15/20 13:31	
Benzo(b)fluoranthene	ug/L	ND	0.040	07/15/20 13:31	
Benzo(g,h,i)perylene	ug/L	ND	0.040	07/15/20 13:31	
Benzo(k)fluoranthene	ug/L	ND	0.040	07/15/20 13:31	
Chrysene	ug/L	ND	0.040	07/15/20 13:31	
Dibenz(a,h)anthracene	ug/L	ND	0.040	07/15/20 13:31	
Fluoranthene	ug/L	ND	0.040	07/15/20 13:31	
Fluorene	ug/L	ND	0.040	07/15/20 13:31	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.040	07/15/20 13:31	
Naphthalene	ug/L	ND	0.040	07/15/20 13:31	
Phenanthrene	ug/L	ND	0.040	07/15/20 13:31	
Pyrene	ug/L	ND	0.040	07/15/20 13:31	
2-Fluorobiphenyl (S)	%.	83	50-125	07/15/20 13:31	
p-Terphenyl-d14 (S)	%.	107	58-125	07/15/20 13:31	

LABORATORY CONTROL SAMPLE & LCSD: 3670362 3670363

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Acenaphthene	ug/L	1	0.81	0.81	81	81	55-125	0	20	
Acenaphthylene	ug/L	1	0.81	0.80	81	80	54-125	1	20	
Anthracene	ug/L	1	0.89	0.90	89	90	60-125	1	20	
Benzo(a)anthracene	ug/L	1	0.97	0.99	97	99	61-125	2	20	
Benzo(a)pyrene	ug/L	1	0.98	0.99	98	99	64-125	2	20	
Benzo(b)fluoranthene	ug/L	1	0.95	0.98	95	98	64-125	3	20	
Benzo(g,h,i)perylene	ug/L	1	0.92	0.95	92	95	54-125	4	20	
Benzo(k)fluoranthene	ug/L	1	1.0	1.0	102	104	62-125	2	20	
Chrysene	ug/L	1	0.98	0.92	98	92	63-125	6	20	
Dibenz(a,h)anthracene	ug/L	1	0.87	0.89	87	89	45-125	2	20	
Fluoranthene	ug/L	1	1.0	1.0	102	102	66-125	0	20	
Fluorene	ug/L	1	0.84	0.87	84	87	59-125	3	20	
Indeno(1,2,3-cd)pyrene	ug/L	1	0.91	0.95	91	95	63-125	4	20	
Naphthalene	ug/L	1	0.66	0.69	66	69	53-125	3	20	
Phenanthrene	ug/L	1	0.93	0.94	93	94	64-125	1	20	
Pyrene	ug/L	1	0.97	0.96	97	96	67-125	1	20	
2-Fluorobiphenyl (S)	%.				80	81	50-125			

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(612)607-1700

QUALITY CONTROL DATA

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524483

LABORATORY CONTROL SAMPLE & LCSD: 3670362 3670363

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
p-Terphenyl-d14 (S)	%.				100	97	58-125			

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QUALITY CONTROL DATA

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524483

QC Batch: 193954
QC Batch Method: EPA 351.2
Analysis Method: EPA 351.2
Analysis Description: 351.2 TKN
Laboratory: Pace Analytical Services - Virginia
Associated Lab Samples: 10524483001, 10524483002, 10524483003

METHOD BLANK: 765296 Matrix: Water
Associated Lab Samples: 10524483001, 10524483002, 10524483003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	ND	0.80	07/21/20 09:17	

LABORATORY CONTROL SAMPLE: 765297

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	10	10.2	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 765298 765299

Parameter	Units	12147079001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	ND	10	10	10.5	10.6	101	102	90-110	1	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 765301 765302

Parameter	Units	12147388001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	ND	10	10	8.8	8.8	82	82	90-110	0	15	M1

SAMPLE DUPLICATE: 765300

Parameter	Units	12146910001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	52.0	52.0	0	15	

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QUALITY CONTROL DATA

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524483

QC Batch: 688328
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10524483001, 10524483002, 10524483003

METHOD BLANK: 3681677 Matrix: Water
Associated Lab Samples: 10524483001, 10524483002, 10524483003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	07/23/20 12:47	FS

LABORATORY CONTROL SAMPLE: 3681678

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	1	1.0	105	90-110	FS

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3681679 3681680

Parameter	Units	10525306004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	ND	1	1	1.1	1.1	107	106	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3681681 3681682

Parameter	Units	10525306005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	ND	1	1	1.1	1.1	111	110	90-110	1	20	M1

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QUALIFIERS

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524483

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 686556

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1M	The continuing calibration for this analyte exceeded 20% difference acceptance criteria for EPA method. Analyte presence below reporting limits in associated samples. No impact to data.
2M	The continuing calibration for this analyte exceeded 20% difference acceptance criteria for EPA method. The result may be biased high.
3M	The continuing calibration for this analyte is below 20% difference acceptance criteria for EPA method 8260D but within 50% of the true value. Instrument sensitivity verified with reporting limit check.
4M	The continuing calibration for this analyte is below 20% difference acceptance criteria for EPA method 8260D but within 50% of the true value. The result may be biased low.
FS	The sample was filtered in the laboratory prior to analysis.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MN	The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.
R1	RPD value was outside control limits.

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524483

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10524483003	**Equipment Blank**	EPA 3010A	686317	EPA 6010D	686464
10524483003	**Equipment Blank**	EPA 7470A	686322	EPA 7470A	686448
10524483003	**Equipment Blank**	EPA Mod. 3510C	686283	EPA 8270E by SIM	686556
10524483001	**Irrigation Well**	EPA 8260D	686984		
10524483002	**Maintenance Well**	EPA 8260D	686984		
10524483003	**Equipment Blank**	EPA 8260D	686984		
10524483004	**Trip Blank**	EPA 8260D	686984		
10524483001	**Irrigation Well**	EPA 351.2	193954	EPA 351.2	193966
10524483002	**Maintenance Well**	EPA 351.2	193954	EPA 351.2	193966
10524483003	**Equipment Blank**	EPA 351.2	193954	EPA 351.2	193966
10524483001	**Irrigation Well**	EPA 353.2	688328		
10524483002	**Maintenance Well**	EPA 353.2	688328		
10524483003	**Equipment Blank**	EPA 353.2	688328		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Pace Analytical®
www.pacelabs.com

Page: 1 of 1

2295249

Section A — Required Client Information:

Company: Braun Intertec
Address: 11001 Hampshire Ave S, Bloomington, MN 55438
Email To: mkeefer@braunintertec.com
Phone: Fax:
Requested Due Date/TAT: STD

Section B — Required Project Information:

Report To: Mark Keefer
Copy To:
Purchase Order No.:
Project Name: Former Hillcrest Golf Course
Project Number: B1903316.00

Section C — Invoice Information:

Attention:
Company Name: Same
Address:
Pace Quote Reference:
Pace Project Manager: Bob Michels
Pace Profile #: 34125

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MN

Section D — Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other Glass Amber	Analysis Test: VOCs	Nitrate + Nitrite	TKN	Chlorothalonil	Propiconazole	Iprodione	MDA List 2 Pesticides	PAHs	Dissolved RCRA Metals	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Irrigation Well	WT	G			7/9/20	1315		5		2		3					X	X	X								001
2	Maintenance Well	↓	↓			7/9/20	1630		9		2		3				4	X	X	X	X	X	X	X				002
3	Equipment Blank	↓	↓			7/9/20	1030		11		1	1	3				6	X	X	X	X	X	X	X	X	X			003
4	Trip Blank								4				4					X											004
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

WO#: 10524483

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
NO_2+NO_3 - Field Filtered	Grant Audette	7/10/20	1540	Pace	7/10/2020	1545	5.1 3.4	Y	N	Y
TKN - Field Filtered	Pace	7/10/2020	1545	Chase D/ Pace	7/10/20	1545				
	Chase D/ Pace	7/10/20	1630	Pace	7/10/20	1630	0.2 0.8	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Grant Audette

SIGNATURE of SAMPLER: Grant Audette DATE Signed (MM/DD/YY): 7/10/20

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-C-010-rev.00, 09Nov2017

Pace Analytical®	Document Name: **Sample Condition Upon Receipt (SCUR) - MN**	Document Revised: 27Mar2020 **Page 1 of 1**
	Document No.: **ENV-FRM-MIN4-0150 Rev.00**	Pace Analytical Services - **Minneapolis**

Sample Condition Upon Receipt

Client Name: Braun

Project #: WO#: 10524483

PM: BM2 Due Date: 07/17/20

CLIENT: Braun-BLM

Courier: ☐Fed Ex ☐UPS ☐USPS ☐Client ☑Pace ☐SpeeDee ☐Commercial **See Exceptions** ☐

Tracking Number:

Custody Seal on Cooler/Box Present? ☐Yes ☑No **Seals Intact?** ☐Yes ☑No **Biological Tissue Frozen?** ☐Yes ☐No ☑N/A

Packing Material: ☑Bubble Wrap ☑Bubble Bags ☐None ☐Other:_____ **Temp Blank?** ☑Yes ☐No

Thermometer: ☐T1(0461) ☐T2(1336) ☐T3(0459) ☐T4(0254) ☑T5(0489) **Type of Ice:** ☑Wet ☐Blue ☐None ☐Dry ☐Melted

Did Samples Originate in West Virginia? ☐Yes ☑No **Were All Container Temps Taken?** ☐Yes ☐No ☑N/A

Temp should be above freezing to 6°C **Cooler Temp Read w/temp blank:** 4.8 0.2,0.8 °C CKG 7/10/20

Correction Factor: 0 **Cooler Temp Corrected w/temp blank:** 4.8 0.2,0.8 °C

Average Corrected Temp (no temp blank only): ☐See Exceptions ☐1 Container _____ °C

USDA Regulated Soil: (☑ N/A, water sample/Other:_____) **Date/Initials of Person Examining Contents:** TK 7/10/20

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐Yes ☐No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐Yes ☐No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present and Filled Out?	☑Yes	☐No		1.
Chain of Custody Relinquished?	☑Yes	☐No		2.
Sampler Name and/or Signature on COC?	☑Yes	☐No	☐N/A	3.
Samples Arrived within Hold Time?	☑Yes	☐No		4.
Short Hold Time Analysis (<72 hr)?	☐Yes	☑No		5. ☐Fecal Coliform ☐HPC ☐Total Coliform/E coli ☐BOD/cBOD ☐Hex Chrome ☐Turbidity ☐Nitrate ☐Nitrite ☐Orthophos ☐Other_____
Rush Turn Around Time Requested?	☐Yes	☑No		6.
Sufficient Volume?	☑Yes	☐No		7.
Correct Containers Used?	☑Yes	☐No		8.
-Pace Containers Used?	☑Yes	☐No		
Containers Intact?	☑Yes	☐No		9.
Field Filtered Volume Received for Dissolved Tests?	☐Yes	☐No	☑N/A	10. Is sediment visible in the dissolved container? ☐Yes ☐No
Is sufficient information available to reconcile the samples to the COC?	☑Yes	☐No		11. **If no, write ID/ Date/Time on Container Below:** **See Exception** ☐
Matrix: ☑Water ☐Soil ☐Oil ☐Other_____				
All containers needing acid/base preservation have been checked?	☑Yes	☐No	☐N/A	12. Sample # 1-3
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide)	☑Yes	☐No	☐N/A	☐NaOH ☐HNO_3 ☑H_2SO_4 (2) ☐Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☑Yes	☐No	☐N/A	Positive for Res. Chlorine? ☐Yes ☐No **pH Paper Lot#** **See Exception** ☐
				Res. Chlorine: 0-6 Roll 203619 / 0-6 Strip: / 0-14 Strip:
Extra labels present on soil VOA or WIDRO containers?	☐Yes	☐No	☑N/A	13. **See Exception** ☐
Headspace in VOA Vials (greater than 6mm)?	☐Yes	☑No	☐N/A	
Trip Blank Present?	☑Yes	☐No	☐N/A	14.
Trip Blank Custody Seals Present?	☑Yes	☐No	☐N/A	Pace Trip Blank Lot # (if purchased): 257175, 259055

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐Yes ☐No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: BLM **Date:** 7/13/2020

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: TK

Pace Analytical®

Document Name:
Service Center Transfer Checklist
Document Number:
ENV-FRM-MIN4-0135 Rev.00

Document Revised: 26Mar2020
Page 1 of 1
Pace Analytical Services -
Minneapolis

Service Center Transfer Checklist

Service Center: MPLS ☐ BLM ☒ AZ ☐

Client: Braun Intertec

Destination Lab: MPLS ☒ VM ☐ Duluth ☐

National ☐ Other _____

Received w/ Custody Seal ? Yes ☐ No ☒

Custody Seal Intact ? Yes ☐ No ☒

	Temp Read	Corr. Factor	Corr. Temp
Temperature °C	5.0/3.5	+0.1	5.1/3.6

IR Gun: B88A0143310092 ☐ Samples on ice, in cool down

Rush ☐ **Short Hold** ☐ **N/A** ☒

Containers Intact ? Yes ☒ No ☐

Repacked and Re-Iced ? Yes ☒ No ☐

Notes: _____

Internal Transfer Chain of Custody

A202903

☐ Samples Pre-Logged into eCOC.

Pace Analytical® www.pacelabs.com

State Of Origin: MN
Cert. Needed: [X] Yes [ ] No
Owner Received Date: 7/10/2020 Results Requested By: 7/24/2020

Workorder: 10524483 **Workorder Name:** B1903316.00 Former Hillcrest

Report To	Subcontract To
Bob Michels Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)709-5046	Pace Analytical Madison 2525 Advance Road Madison, WI 53718 Phone (608)221-8700

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved						Requested Analysis: MDA List 2 Pesticides												LAB USE ONLY
						AG1U																		
1	Maintenance Well	PS	7/9/2020 16:30	10524483002	Water	2						X												01
2	Equipment Blank	PS	7/9/2020 10:30	10524483003	Water	2						X												02
3																								
4																								
5																								

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	7/13/20 1530	[signature]	7/14/20 10:30
2				
3				

Comments

Cooler Temperature on Receipt 1.9 °C **Custody Seal** Y or N **Received on Ice** Y or N **Samples Intact** Y or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.*

This chain of custody is considered complete as is since this information is available in the owner laboratory.

S/N 160142274
Exp 12/19/20

20 043

Chain of Custody

PASI Minnesota Laboratory

Pace Analytical®
www.pacelabs.com

Workorder: 10524483 **Workorder Name:** B1903316.00 Former Hillcrest **Results Requested By:** 7/24/2020

Report / Invoice To	Subcontract To
Bob Michels Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)709-5046 Email: bob.michels@pacelabs.com **State of Sample Origin:** MN	P.O. 10524483 Synergistic Pesticide Laboratory, LLC 2700 N Hayden Island Dr Portland, OR 97217 503-641-0500

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: AG1U Unpreserved	**Fungicides	LAB USE ONLY
1	Maintenance Well	7/9/2020 16:30	10524483002	Water	2	X	20 043 01
2	Equipment Blank	7/9/2020 10:30	10524483003	Water	2	X	02
3							
4							
5							

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	7/13/20 16:26	[signature] SPL	7/14/2020 9:32
2				
3				

Comments

**Analyze for chlorothalonil, propiconazole, iprodione.

Cooler Temperature on Receipt -0.9 °C **Custody Seal** (Y) or N **Received on Ice** (Y) or N **Samples Intact** Y or (N)

Synergistic Pesticide Laboratory, LLC
Sample Receipt Checklist

Project # 20 043
Date 7/14/20
Initials CH

Client Pace Minnesota
Method of Arrival: UPS (FedEx) USPS client delivered courier lab other
Tracking # 1320 7523 0689

Custody Seals Present: (Y) N
If yes: transport container / sample container
Signed: see back
Date: 7/13

Temperature (°C): -0.9 (IR) digital
Type of coolant: (ice) blue/gel ice other none

Are all samples present?	(Y)	N
Are samples intact?	Y	(N) see below
Documentation provided?	(COC)	SS Form Email Letter PO None Other:_____
Does sample information match documentation?	(Y)	N NA
Is the documentation signed?	(Y)	N NA
Are the samples within hold time?	(Y)	N NA
Is the sampling date provided?	(Y)	N
Is there sufficient sample volume?	(Y)	N
Are the samples in appropriate containers?	(Y)	N
Do the containers originate from SPL?	Y	(N)

Sample Description:

#	Matrix	#	Container
1 (20043 01)	BB CHRY FRESH EXT PREP OTHER:_____ RBB BLK IQF FLR (H2O) SOIL STRW RSP CANNED OIL FOLIAGE/TISSUE:_____	2	ZL-GAL WP-LG MY-LG POLY VIAL (1L AMB) 8OZ JAR ZL-SM WP-SM MY-SM GL VIAL 1 GAL POLY 4OZ JAR OTHER:_____ SYR WAX CENT TUBE SOIL BAG
1 (20043 02)	BB CHRY FRESH EXT PREP OTHER:_____ RBB BLK IQF FLR (H2O) SOIL STRW RSP CANNED OIL FOLIAGE/TISSUE:_____	1	ZL-GAL WP-LG MY-LG POLY VIAL (1L AMB) 8OZ JAR ZL-SM WP-SM MY-SM GL VIAL 1 GAL POLY 4OZ JAR OTHER:_____ SYR WAX CENT TUBE SOIL BAG
	BB CHRY FRESH EXT PREP OTHER:_____ RBB BLK IQF FLR H2O SOIL STRW RSP CANNED OIL FOLIAGE/TISSUE:_____		ZL-GAL WP-LG MY-LG POLY VIAL 1L AMB 8OZ JAR ZL-SM WP-SM MY-SM GL VIAL 1 GAL POLY 4OZ JAR OTHER:_____ SYR WAX CENT TUBE SOIL BAG

Comments: 20 043 02 (1052445 3003 (Equipment Blank)) arrived with 1 of 2 1L ambers broken. Sufficient sample remains intact for analysis.

WO# : 12147234

12147234

Internal Transfer Chain of Custody

☐ Samples Pre-Logged into eCOC.

State Of Origin: MN

Cert. Needed: ☒ Yes ☐ No

Workorder: 10524483 **Workorder Name:** B1903316.00 Former Hillcrest **Owner Received Date:** 7/10/2020 **Results Requested By:** 7/24/2020

Report To	Subcontract To
Bob Michels Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)709-5046	Pace Analytical Virginia MN 315 Chestnut Street Virginia, MN 55792 Phone (218)742-1042

BP3S

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: H2SO4						Requested Analysis: Total Kjeldahl Nitrogen 351.2												LAB USE ONLY
1	Irrigation Well	PS	7/9/2020 13:15	10524483001	Water	1						X												
2	Maintenance Well	PS	7/9/2020 16:30	10524483002	Water	1						X												
3	Equipment Blank	PS	7/9/2020 10:30	10524483003	Water	1						X												
4																								
5																								

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature] Pace	7/13/20 1535	B. Mathews	7/14/20 1145
2				
3				

Comments

Cooler Temperature on Receipt 2.3 °C **Custody Seal** (Y) or N **Received on Ice** (Y) or N **Samples Intact** (Y) or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.*

Pace Analytical	Document Name: Sample Condition Upon Receipt Form	Document Revised: 25Feb2020 Page 1 of 1
	Document No.: F-VM-C-001-rev.14	Issuing Authority: Pace Virginia Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Pace Mpls

Project #: **WO#: 12147234**

PM: LM2 Due Date: 07/27/20

CLIENT: PACE MPLS

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number:

Custody Seal on Cooler/Box Present? ☐ Yes ☐ No Seals Intact? ☑ Yes ☐ No Optional: Proj. Due Date: Proj. Name:

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other: Temp Blank? ☑ Yes ☐ No

Thermometer Used: ☑ 140792808 Type of Ice: ☑ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read °C: 2.0 Cooler Temp Corrected °C: 2.3 Biological Tissue Frozen? ☐ Yes ☐ No ☑ NA

Temp should be above freezing to 6 °C Correction Factor: +0.3 Date and Initials of Person Examining Contents: BM 7/14/20

				Comments:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and Signature on COC?	☐ Yes	☑ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5. If Fecal: ☐ <8 hours ☐ >8, <24 hours ☐ >24 hours
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved containers.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	12.
-Includes Date/Time/ID/Analysis Matrix: WT				
All containers needing acid/base preservation properly preserved?	☑ Yes	☐ No	☐ N/A	13. Note samples needing adjustment:
Headspace in Methyl Mercury Container	☐ Yes	☐ No	☑ N/A	14.
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☑ N/A	15.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	16.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION Field Data Required? ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

SEE EXCEPTION FORM Y N

FECAL WAIVER ON FILE Y N TEMPERATURE WAIVER ON FILE Y N

Project Manager Review: Nikki Jarve Date: 7/14/20

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

July 20, 2020

Bob Michels
Pace Analytical
1700 Elm Street, Suite 200
Minneapolis, MN 55414

RE: B1903316.00 Hillcrest

Enclosed are the analytical results for the samples received by the laboratory on 07/14/2020.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. These results are in compliance with the 2009 NELAC Standards and the appropriate agencies listed below, unless otherwise noted in the case narrative. This analytical report should be reproduced in its entirety.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Molly Palzkill
Project Manager

Certification List			Expires
DODELAP	DOD ELAP Accreditation (A2LA)	3269.01	03/31/2021
ILEPA	Illinois Secondary NELAP Accreditation	004366	04/30/2021
KDHE	Kansas Secondary NELAP Accreditation	E-10384	04/30/2021
LELAP	Louisiana Primary NELAP Accreditation	04165	06/30/2021
NJDEP	New Jersey Secondary NELAP Accreditation	WI004	06/30/2021
TCEQ	Texas Secondary NELAP Accreditation	T104704504-16-7	11/30/2020
WDNR	Wisconsin Certification under NR 149	113289110	08/31/2020

Pace Analytical
ENVIRONMENTAL SCIENCES
MOBILE LAB SERVICES

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

Pace Analytical	Project: B1903316.00 Hillcrest
1700 Elm Street, Suite 200	Project Number: 10524483
Minneapolis MN, 55414	Project Manager: Bob Michels

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Maintenance Well (10524483002)	A202903-01	Water	07/09/2020	07/14/2020
Equipment Blank(10524483003)	A202903-02	Water	07/09/2020	07/14/2020

CASE NARRATIVE

Sample Receipt Information:
Two samples were received on 07/14/2020. Samples were received in acceptable condition.

Please see the chain of custody (COC) document at the end of this report for additional information.

Pace Analytical
ENVIRONMENTAL SCIENCES
MOBILE LAB SERVICES

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

Pace Analytical	Project: B1903316.00 Hillcrest
1700 Elm Street, Suite 200	Project Number: 10524483
Minneapolis MN, 55414	Project Manager: Bob Michels

Maintenance Well (10524483002)

A202903-01 (Water)

Date Sampled
07/09/2020 16:30

Pace Analytical - Madison

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pesticides by LCMSMS						**Preparation Batch: A007153**			
2,4-D	ND	0.024	0.10	ug/L	1	07/16/2020	07/16/2020 19:31	EPA 8321B	
2,4-DB	ND	0.032	0.10	ug/L	1	07/16/2020	07/16/2020 19:31	EPA 8321B	
2,4,5-T	ND	0.030	0.10	ug/L	1	07/16/2020	07/16/2020 19:31	EPA 8321B	
2,4,5-TP (Silvex)	ND	0.016	0.10	ug/L	1	07/16/2020	07/16/2020 19:31	EPA 8321B	
Bentazon	ND	0.012	0.10	ug/L	1	07/16/2020	07/16/2020 19:31	EPA 8321B	
Dicamba	ND	0.058	0.20	ug/L	1	07/16/2020	07/16/2020 19:31	EPA 8321B	
MCPA	ND	0.022	0.10	ug/L	1	07/16/2020	07/16/2020 19:31	EPA 8321B	
Picloram	ND	0.048	0.20	ug/L	1	07/16/2020	07/16/2020 19:31	EPA 8321B	
Triclopyr	ND	0.031	0.10	ug/L	1	07/16/2020	07/16/2020 19:31	EPA 8321B	
Surrogate: 2,4-D-d5			*127 %*	*60-140*		*07/16/2020*	*07/16/2020 19:31*	*EPA 8321B*	
Surrogate: DCAA			*137 %*	*60-140*		*07/16/2020*	*07/16/2020 19:31*	*EPA 8321B*	

Pace Analytical
ENVIRONMENTAL SCIENCES
MOBILE LAB SERVICES

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

Pace Analytical	Project: B1903316.00 Hillcrest
1700 Elm Street, Suite 200	Project Number: 10524483
Minneapolis MN, 55414	Project Manager: Bob Michels

Equipment Blank(10524483003)

A202903-02 (Water)

Date Sampled
07/09/2020 10:30

Pace Analytical - Madison

Pesticides by LCMSMS — **Preparation Batch: A007153**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
2,4-D	ND	0.024	0.10	ug/L	1	07/16/2020	07/16/2020 19:49	EPA 8321B	
2,4-DB	ND	0.032	0.10	ug/L	1	07/16/2020	07/16/2020 19:49	EPA 8321B	
2,4,5-T	ND	0.030	0.10	ug/L	1	07/16/2020	07/16/2020 19:49	EPA 8321B	
2,4,5-TP (Silvex)	ND	0.016	0.10	ug/L	1	07/16/2020	07/16/2020 19:49	EPA 8321B	
Bentazon	ND	0.012	0.10	ug/L	1	07/16/2020	07/16/2020 19:49	EPA 8321B	
Dicamba	ND	0.058	0.20	ug/L	1	07/16/2020	07/16/2020 19:49	EPA 8321B	
MCPA	ND	0.022	0.10	ug/L	1	07/16/2020	07/16/2020 19:49	EPA 8321B	
Picloram	ND	0.048	0.20	ug/L	1	07/16/2020	07/16/2020 19:49	EPA 8321B	
Triclopyr	ND	0.031	0.10	ug/L	1	07/16/2020	07/16/2020 19:49	EPA 8321B	
Surrogate: 2,4-D-d5			*98.2 %*	*60-140*		*07/16/2020*	*07/16/2020 19:49*	*EPA 8321B*	
Surrogate: DCAA			*93.8 %*	*60-140*		*07/16/2020*	*07/16/2020 19:49*	*EPA 8321B*	

Pace Analytical
ENVIRONMENTAL SCIENCES
MOBILE LAB SERVICES

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

Pace Analytical	Project: B1903316.00 Hillcrest
1700 Elm Street, Suite 200	Project Number: 10524483
Minneapolis MN, 55414	Project Manager: Bob Michels

Pesticides by LCMSMS - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A007153 - EPA 3535 (SPE)										
Blank (A007153-BLK1)				Prepared: 07/16/2020 Analyzed: 07/16/2020 17:25						
2,4-D	ND	0.10	ug/L							
2,4-DB	ND	0.10	ug/L							
2,4,5-T	ND	0.10	ug/L							
2,4,5-TP (Silvex)	ND	0.10	ug/L							
Bentazon	ND	0.10	ug/L							
Dicamba	ND	0.20	ug/L							
MCPA	ND	0.10	ug/L							
Picloram	ND	0.20	ug/L							
Triclopyr	ND	0.10	ug/L							
Surrogate: 2,4-D-d5	*3.78*		*ug/L*	*3.378*		*112*	*60-140*			
Surrogate: DCAA	*6.73*		*ug/L*	*6.750*		*99.7*	*60-140*			
LCS (A007153-BS1)				Prepared: 07/16/2020 Analyzed: 07/16/2020 17:43						
2,4-D	3.60	0.10	ug/L	3.375		107	60-140			
2,4-DB	3.65	0.10	ug/L	3.375		108	60-140			
2,4,5-T	3.80	0.10	ug/L	3.375		113	60-140			
2,4,5-TP (Silvex)	3.82	0.10	ug/L	3.375		113	60-140			
Bentazon	1.77	0.10	ug/L	1.688		105	60-140			E
Dicamba	7.42	0.20	ug/L	6.750		110	60-140			
MCPA	3.71	0.10	ug/L	3.375		110	60-140			
Picloram	7.27	0.20	ug/L	6.750		108	60-140			
Triclopyr	3.89	0.10	ug/L	3.375		115	60-140			
Surrogate: 2,4-D-d5	*3.57*		*ug/L*	*3.378*		*106*	*60-140*			
Surrogate: DCAA	*6.92*		*ug/L*	*6.750*		*102*	*60-140*			
Matrix Spike (A007153-MS1)	**Source: A202902-01**			Prepared: 07/16/2020 Analyzed: 07/16/2020 18:01						
2,4-D	3.20	0.10	ug/L	3.375	ND	94.7	60-140			
2,4-DB	3.63	0.10	ug/L	3.375	ND	108	60-140			
2,4,5-T	3.21	0.10	ug/L	3.375	ND	95.3	60-140			
2,4,5-TP (Silvex)	3.90	0.10	ug/L	3.375	ND	116	60-140			
Bentazon	0.846	0.10	ug/L	1.688	ND	50.1	60-140			M
Dicamba	3.54	0.20	ug/L	6.750	ND	52.4	60-140			M
MCPA	3.68	0.10	ug/L	3.375	ND	109	60-140			
Picloram	4.93	0.20	ug/L	6.750	ND	73.1	60-140			
Triclopyr	3.36	0.10	ug/L	3.375	ND	99.6	60-140			
Surrogate: 2,4-D-d5	*3.52*		*ug/L*	*3.378*		*104*	*60-140*			
Surrogate: DCAA	*8.24*		*ug/L*	*6.750*		*122*	*60-140*			

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Pace Analytical	Project: B1903316.00 Hillcrest
1700 Elm Street, Suite 200	Project Number: 10524483
Minneapolis MN, 55414	Project Manager: Bob Michels

Pesticides by LCMSMS - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A007153 - EPA 3535 (SPE)										
Matrix Spike Dup (A007153-MSD1)	**Source: A202902-01**			Prepared: 07/16/2020 Analyzed: 07/16/2020 18:19						
2,4-D	3.08	0.10	ug/L	3.375	ND	91.4	60-140	3.56	20	
2,4-DB	3.49	0.10	ug/L	3.375	ND	104	60-140	3.83	20	
2,4,5-T	2.87	0.10	ug/L	3.375	ND	85.0	60-140	11.4	20	
2,4,5-TP (Silvex)	3.97	0.10	ug/L	3.375	ND	118	60-140	1.67	20	
Bentazon	1.01	0.10	ug/L	1.688	ND	59.9	60-140	17.8	20	M
Dicamba	2.53	0.20	ug/L	6.750	ND	37.5	60-140	33.0	20	M, X
MCPA	3.43	0.10	ug/L	3.375	ND	102	60-140	7.10	20	
Picloram	4.17	0.20	ug/L	6.750	ND	61.7	60-140	16.8	20	
Triclopyr	3.16	0.10	ug/L	3.375	ND	93.6	60-140	6.20	20	
Surrogate: 2,4-D-d5	*3.07*		*ug/L*	*3.378*		*91.0*	*60-140*			
Surrogate: DCAA	*7.42*		*ug/L*	*6.750*		*110*	*60-140*			

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Pace Analytical	Project: B1903316.00 Hillcrest
1700 Elm Street, Suite 200	Project Number: 10524483
Minneapolis MN, 55414	Project Manager: Bob Michels

Notes and Definitions

X	Precision for the matrix spike duplicate, laboratory control sample duplicate or lab duplicate was outside of control limits.
M	The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory control limits.
E	The concentration indicated is above the instrument calibration range. This value is an estimated concentration.
ND	Analyte NOT DETECTED at or above the reporting limit or limit of detection (if listed).
NR	Not Reported
dry	Sample results reported on a dry weight basis. Detection limits (if listed) and reporting limits have been adjusted for the solids content. If the word 'dry' does not appear after the units, results are reported on an as-is basis.
RPD	Relative Percent Difference

Detection limits (if listed) and reporting limits have been adjusted for dilutions, if reported.

Internal Transfer Chain of Custody

A202903

☐ Samples Pre-Logged into eCOC.

Pace Analytical®
www.pacelabs.com

State Of Origin: MN
Cert. Needed: [X] Yes [ ] No
Owner Received Date: 7/10/2020 **Results Requested By:** 7/24/2020

Workorder: 10524483 **Workorder Name:** B1903316.00 Former Hillcrest

Report To	Subcontract To
Bob Michels Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)709-5046	Pace Analytical Madison 2525 Advance Road Madison, WI 53718 Phone (608)221-8700

						Requested Analysis												

Synergistic Pesticide Laboratory LLC
2700B N. Hayden Island Dr.
Portland, OR 97217
Lab: 503-641-0500
Fax: 503-954-3073
info@synpestlab.com

Client Name: Pace Analytical Minnesota
Client Address: 1700 Elm Street, Ste 200
Minneapolis, MN 55414
Client Phone: 612-709-5046

Date: 7/24/20
SPL Project #: 20 043
Client Project #: 10524483

SAMPLE RESULTS:

SPL ID: **20 043-01**
Sample ID: 10524483002 (Maintenance Well)
Matrix: WATER
Method: **Chlorothalonil, Iprodione & Propiconazole Analysis (QuEChERS 15662, EPA 8321B, EPA 8270E)**
Units: ppb (µg/L)

Date Sampled: 7/9/20
Date Received: 7/14/20
Date Extracted: 7/15/20
Date Analyzed: 7/22-7/23/20

Analyte	Class	Result	RL
Chlorothalonil	F	nd	0.05
Iprodione	F	nd	0.10
Propiconazole	F	nd	0.05
Decachlorobiphenyl (Surrogate)	---	109%	---
Fenbuconazole (Surrogate)	---	92%	---

SPL ID: **20 043-02**
Sample ID: 10524483003 (Equipment Blank)
Matrix: WATER
Method: **Chlorothalonil, Iprodione & Propiconazole Analysis (QuEChERS 15662, EPA 8321B, EPA 8270E)**
Units: ppb (µg/L)

Date Sampled: 7/9/20
Date Received: 7/14/20
Date Extracted: 7/15/20
Date Analyzed: 7/22-7/23/20

Analyte	Class	Result	RL
Chlorothalonil	F	nd	0.05
Iprodione	F	nd	0.10
Propiconazole	F	nd	0.05
Decachlorobiphenyl (Surrogate)	---	88%	---
Fenbuconazole (Surrogate)	---	84%	---

Synergistic Pesticide Laboratory LLC
2700B N. Hayden Island Dr.
Portland, OR 97217
Lab: 503-641-0500
Fax: 503-954-3073
info@synpestlab.com

Client Name: Pace Analytical Minnesota
Client Address: 1700 Elm Street, Ste 200
Minneapolis, MN 55414
Client Phone: 612-709-5046

Date: 7/24/20
SPL Project #: 20 043
Client Project #: 10524483

QUALITY CONTROL RESULTS:

Method: **Chlorothalonil, Iprodione & Propiconazole Analysis (EPA 3510C, EPA 8321B, EPA 8270E)**
Units: ppb (µg/L)
Matrix: WATER

Date Extracted: 7/15/20
Date Analyzed: 7/22-7/23/20

20 049 MB

Analyte	Amt Spiked	Result	Percent Recovery
Chlorothalonil	---	nd	---
Iprodione	---	nd	---
Propiconazole	---	nd	---
Decachlorobiphenyl (Surrogate)	0.1	0.147	74%
Fenbuconazole (Surrogate)	0.1	0.181	91%

20 049 LCS

Analyte	Amt Spiked	Result	Percent Recovery
Chlorothalonil	1.0	1.38	138%
Iprodione	2.0	2.00	100%
Propiconazole	1.0	0.987	99%
Decachlorobiphenyl (Surrogate)	0.1	0.190	95%
Fenbuconazole (Surrogate)	0.1	0.186	93%

20 049 LCSD

Analyte	Amt Spiked	Result	Percent Recovery
Chlorothalonil	1.0	1.51	151%
Iprodione	2.0	1.94	97%
Propiconazole	1.0	0.950	95%
Decachlorobiphenyl (Surrogate)	0.1	0.194	97%
Fenbuconazole (Surrogate)	0.1	0.183	91%

Synergistic Pesticide Laboratory LLC
2700B N. Hayden Island Dr.
Portland, OR 97217
Lab: 503-641-0500
Fax: 503-954-3073
info@synpestlab.com

Client Name:	Pace Analytical Minnesota	**Date:**	7/24/20
Client Address:	1700 Elm Street, Ste 200	**SPL Project #:**	20 043
	Minneapolis, MN 55414	**Client Project #:**	10524483
Client Phone:	612-709-5046		

Laboratory Report Definitions

F – Fungicide
LCL – Lower Control Limit – acceptance criteria based on the mean minus three times the standard deviation of a data set
LCS – Laboratory Control Sample – prepared from analyte free water or sand and spiked with known amount of analytes for the purpose of measuring the effect of the reagents used in extraction or analysis
LCSD – Laboratory Control Sample Duplicate
MS – Matrix Spike – prepared from additional sample and spiked with known amount of analytes for the purpose of measuring the effect of the sample matrix on analysis
MSD – Matrix Spike Duplicate
MB – Method Blank – shows any interference in extraction method
nd – non detect – substance not found above the reporting limit
ppb – parts per billion
ppm – parts per million
RL – Reporting Limit – the minimum amount of a substance that can be reported with confidence
UCL – Upper Control Limit – acceptance criteria based on the mean plus three times the standard deviation of a data set

Results provided relate to submitted samples only. Unless otherwise noted, samples were received in good condition and all Quality Control samples met acceptance criteria. Quality Control data is available upon request. This report shall not be reproduced, except in full, without the permission of Synergistic Pesticide Laboratory, LLC.

Authorized by:_____ Date: 7/24/2020

Camille Holladay
Lab Director

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

July 27, 2020

Mark Keefer
Braun Intertec
11001 Hampshire Ave S
Bloomington, MN 55438

RE: Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

Dear Mark Keefer:

Enclosed are the analytical results for sample(s) received by the laboratory on July 10, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses were subcontracted outside of the Pace Network. The test report from the external subcontractor is attached to this report in its entirety.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Duluth
- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bob Michels
bob.michels@pacelabs.com
(612)709-5046
Project Manager

Enclosures

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CERTIFICATIONS

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

Pace Analytical Services - Minneapolis MN

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

Pace Analytical Services Duluth Minnesota

4730 Oneota St., Duluth, MN 55807
Minnesota Dept of Ag Certification #: Via MN Dept of Health 027-137-152
Montana DHHS Certification #: CERT0102
Minnesota Dept of Health Certification #: 1733125
Wisconsin Dept of Agriculture Certification #: 480341
Wisconsin DNR Certification # : 999446800
North Dakota Certification #: R-105
Nevada DCNR Certification #: MN000372019-1

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10524487001	**SW-1**	Water	07/10/20 16:00	07/10/20 16:57
10524487002	**MW-1**	Water	07/10/20 12:30	07/10/20 16:57
10524487003	**MW-2**	Water	07/10/20 13:45	07/10/20 16:57
10524487004	**MW-3**	Water	07/10/20 11:00	07/10/20 16:57
10524487005	**DUP**	Water	07/10/20 12:00	07/10/20 16:57
10524487006	**Trip Blank**	Water	07/10/20 12:00	07/10/20 16:57

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SAMPLE ANALYTE COUNT

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10524487001	**SW-1**	EPA 351.2	BT1	1	PASI-DUL
		EPA 353.2	JFP	1	PASI-M
10524487002	**MW-1**	EPA 6010D	IP	7	PASI-M
		EPA 7470A	LMW	1	PASI-M
		EPA 8270E by SIM	JNG	18	PASI-M
		EPA 8260D	AEZ	72	PASI-M
10524487003	**MW-2**	EPA 351.2	BT1	1	PASI-DUL
		WI MOD DRO	TT2	2	PASI-M
		WI MOD GRO	AH2	2	PASI-M
		EPA 8260D	AEZ	72	PASI-M
		EPA 353.2	JFP	1	PASI-M
10524487004	**MW-3**	EPA 8260D	AEZ	72	PASI-M
10524487005	**DUP**	EPA 351.2	BT1	1	PASI-DUL
		WI MOD DRO	TT2	2	PASI-M
		WI MOD GRO	AH2	2	PASI-M
		EPA 8260D	AEZ	72	PASI-M
		EPA 353.2	JFP	1	PASI-M
10524487006	**Trip Blank**	WI MOD GRO	AH2	2	PASI-M
		EPA 8260D	AEZ	72	PASI-M

PASI-DUL = Pace Analytical Services - Duluth
PASI-M = Pace Analytical Services - Minneapolis

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SUMMARY OF DETECTION

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10524487001	**SW-1**					
EPA 351.2	Nitrogen, Kjeldahl, Total	2.9	mg/L	0.50	07/16/20 21:03	
EPA 353.2	Nitrogen, NO2 plus NO3	0.12	mg/L	0.10	07/23/20 12:30	
10524487002	**MW-1**					
EPA 6010D	Barium, Dissolved	156	ug/L	10.0	07/20/20 13:14	
10524487003	**MW-2**					
EPA 353.2	Nitrogen, NO2 plus NO3	0.41	mg/L	0.10	07/23/20 12:31	
10524487005	**DUP**					
EPA 351.2	Nitrogen, Kjeldahl, Total	0.80	mg/L	0.50	07/16/20 20:59	
EPA 353.2	Nitrogen, NO2 plus NO3	0.49	mg/L	0.10	07/23/20 12:32	

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Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

Method: **EPA 351.2**
Description: 351.2 Total Kjeldahl Nitrogen
Client: Braun Intertec Corporation
Date: July 27, 2020

General Information:
3 samples were analyzed for EPA 351.2 by Pace Analytical Services Duluth. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 351.2 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 193646

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10524073001,12147220009

M6: Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

- MS (Lab ID: 763909)
  - Nitrogen, Kjeldahl, Total
- MSD (Lab ID: 763910)
  - Nitrogen, Kjeldahl, Total

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

Method: **WI MOD DRO**
Description: WIDRO LV GCS
Client: Braun Intertec Corporation
Date: July 27, 2020

General Information:
2 samples were analyzed for WI MOD DRO by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with WI MOD DRO with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 686281

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10524472009

M3: Matrix spike recovery was outside laboratory control limits due to matrix interferences.

- MS (Lab ID: 3670353)
  - WDRO C10-C28
- MSD (Lab ID: 3670354)
  - WDRO C10-C28

Additional Comments:

Analyte Comments:

QC Batch: 686281

T7: Low boiling point hydrocarbons are present in the sample.

- MS (Lab ID: 3670353)
  - WDRO C10-C28

REPORT OF LABORATORY ANALYSIS

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(612)607-1700

PROJECT NARRATIVE

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

Method: **WI MOD DRO**
Description: WIDRO LV GCS
Client: Braun Intertec Corporation
Date: July 27, 2020

Analyte Comments:

QC Batch: 686281

T7: Low boiling point hydrocarbons are present in the sample.

- MSD (Lab ID: 3670354)
  - WDRO C10-C28

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PROJECT NARRATIVE

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

Method: **WI MOD GRO**
Description: WIGRO GCV
Client: Braun Intertec Corporation
Date: July 27, 2020

General Information:
3 samples were analyzed for WI MOD GRO by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

Method: **EPA 6010D**
Description: 6010D MET ICP, Dissolved
Client: Braun Intertec Corporation
Date: July 27, 2020

General Information:
1 sample was analyzed for EPA 6010D by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

Method: **EPA 7470A**
Description: 7470A Mercury, Dissolved
Client: Braun Intertec Corporation
Date: July 27, 2020

General Information:
1 sample was analyzed for EPA 7470A by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

Method: **EPA 8270E by SIM**
Description: 8270E MSSV PAH by SIM
Client: Braun Intertec Corporation
Date: July 27, 2020

General Information:
1 sample was analyzed for EPA 8270E by SIM by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA Mod. 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 686283

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

Method: **EPA 8260D**
Description: 8260D VOC
Client: Braun Intertec Corporation
Date: July 27, 2020

General Information:
5 samples were analyzed for EPA 8260D by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 686984

1M: The continuing calibration for this analyte exceeded 20% difference acceptance criteria for EPA method. Analyte presence below reporting limits in associated samples. No impact to data.

- BLANK (Lab ID: 3673547)
  - Acetone
- DUP (Lab ID: 10524487005)
  - Acetone
- MW-1 (Lab ID: 10524487002)
  - Acetone
- MW-2 (Lab ID: 10524487003)
  - Acetone

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PROJECT NARRATIVE

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

Method: **EPA 8260D**
Description: 8260D VOC
Client: Braun Intertec Corporation
Date: July 27, 2020

Analyte Comments:

QC Batch: 686984

1M: The continuing calibration for this analyte exceeded 20% difference acceptance criteria for EPA method. Analyte presence below reporting limits in associated samples. No impact to data.

- MW-3 (Lab ID: 10524487004)
  - Acetone
- Trip Blank (Lab ID: 10524487006)
  - Acetone

2M: The continuing calibration for this analyte exceeded 20% difference acceptance criteria for EPA method. The result may be biased high.

- LCS (Lab ID: 3673548)
  - Acetone
- MS (Lab ID: 3673742)
  - Acetone
- MSD (Lab ID: 3673743)
  - Acetone

3M: The continuing calibration for this analyte is below 20% difference acceptance criteria for EPA method 8260D but within 50% of the true value. Instrument sensitivity verified with reporting limit check.

- BLANK (Lab ID: 3673547)
  - Bromomethane
- DUP (Lab ID: 10524487005)
  - Bromomethane
- MW-1 (Lab ID: 10524487002)
  - Bromomethane
- MW-2 (Lab ID: 10524487003)
  - Bromomethane
- MW-3 (Lab ID: 10524487004)
  - Bromomethane
- Trip Blank (Lab ID: 10524487006)
  - Bromomethane

4M: The continuing calibration for this analyte is below 20% difference acceptance criteria for EPA method 8260D but within 50% of the true value. The result may be biased low.

- LCS (Lab ID: 3673548)
  - Bromomethane
- MS (Lab ID: 3673742)
  - Bromomethane
- MSD (Lab ID: 3673743)
  - Bromomethane

- BLANK (Lab ID: 3673547)
  - Dichlorofluoromethane
- DUP (Lab ID: 10524487005)
  - Dichlorofluoromethane
- LCS (Lab ID: 3673548)
  - Dichlorofluoromethane

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PROJECT NARRATIVE

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

Method: **EPA 8260D**
Description: 8260D VOC
Client: Braun Intertec Corporation
Date: July 27, 2020

Analyte Comments:

QC Batch: 686984

- MS (Lab ID: 3673742)
  - Dichlorofluoromethane
- MSD (Lab ID: 3673743)
  - Dichlorofluoromethane
- MW-1 (Lab ID: 10524487002)
  - Dichlorofluoromethane
- MW-2 (Lab ID: 10524487003)
  - Dichlorofluoromethane
- MW-3 (Lab ID: 10524487004)
  - Dichlorofluoromethane
- Trip Blank (Lab ID: 10524487006)
  - Dichlorofluoromethane

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PROJECT NARRATIVE

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

Method: **EPA 353.2**
Description: 353.2 Nitrate + Nitrite
Client: Braun Intertec Corporation
Date: July 27, 2020

General Information:
3 samples were analyzed for EPA 353.2 by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 688328

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10525306004,10525306005

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3681681)
  - Nitrogen, NO2 plus NO3

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

Sample: SW-1 **Lab ID: 10524487001** Collected: 07/10/20 16:00 Received: 07/10/20 16:57 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Duluth							
Nitrogen, Kjeldahl, Total	**2.9**	mg/L	0.50	1	07/15/20 16:15	07/16/20 21:03	7727-37-9	
353.2 Nitrate + Nitrite	Analytical Method: EPA 353.2 Pace Analytical Services - Minneapolis							
Nitrogen, NO2 plus NO3	**0.12**	mg/L	0.10	1		07/23/20 12:30		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

Sample: MW-1 **Lab ID: 10524487002** Collected: 07/10/20 12:30 Received: 07/10/20 16:57 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis							
Arsenic, Dissolved	ND	ug/L	20.0	1	07/14/20 06:27	07/20/20 13:14	7440-38-2	
Barium, Dissolved	**156**	ug/L	10.0	1	07/14/20 06:27	07/20/20 13:14	7440-39-3	
Cadmium, Dissolved	ND	ug/L	3.0	1	07/14/20 06:27	07/20/20 13:14	7440-43-9	
Chromium, Dissolved	ND	ug/L	10.0	1	07/14/20 06:27	07/20/20 13:14	7440-47-3	
Lead, Dissolved	ND	ug/L	10.0	1	07/14/20 06:27	07/20/20 13:14	7439-92-1	
Selenium, Dissolved	ND	ug/L	20.0	1	07/14/20 06:27	07/20/20 13:14	7782-49-2	
Silver, Dissolved	ND	ug/L	10.0	1	07/14/20 06:27	07/20/20 13:14	7440-22-4	
7470A Mercury, Dissolved	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Minneapolis							
Mercury, Dissolved	ND	ug/L	0.20	1	07/14/20 08:42	07/14/20 15:51	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA Mod. 3510C Pace Analytical Services - Minneapolis							
Acenaphthene	ND	ug/L	0.040	1	07/12/20 13:17	07/15/20 15:15	83-32-9	
Acenaphthylene	ND	ug/L	0.040	1	07/12/20 13:17	07/15/20 15:15	208-96-8	
Anthracene	ND	ug/L	0.040	1	07/12/20 13:17	07/15/20 15:15	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.040	1	07/12/20 13:17	07/15/20 15:15	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.040	1	07/12/20 13:17	07/15/20 15:15	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.040	1	07/12/20 13:17	07/15/20 15:15	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.040	1	07/12/20 13:17	07/15/20 15:15	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.040	1	07/12/20 13:17	07/15/20 15:15	207-08-9	
Chrysene	ND	ug/L	0.040	1	07/12/20 13:17	07/15/20 15:15	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.040	1	07/12/20 13:17	07/15/20 15:15	53-70-3	
Fluoranthene	ND	ug/L	0.040	1	07/12/20 13:17	07/15/20 15:15	206-44-0	
Fluorene	ND	ug/L	0.040	1	07/12/20 13:17	07/15/20 15:15	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.040	1	07/12/20 13:17	07/15/20 15:15	193-39-5	
Naphthalene	ND	ug/L	0.040	1	07/12/20 13:17	07/15/20 15:15	91-20-3	
Phenanthrene	ND	ug/L	0.040	1	07/12/20 13:17	07/15/20 15:15	85-01-8	
Pyrene	ND	ug/L	0.040	1	07/12/20 13:17	07/15/20 15:15	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	78	%.	50-125	1	07/12/20 13:17	07/15/20 15:15	321-60-8	
p-Terphenyl-d14 (S)	92	%.	58-125	1	07/12/20 13:17	07/15/20 15:15	1718-51-0	
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Acetone	ND	ug/L	20.0	1		07/15/20 16:45	67-64-1	1M
Allyl chloride	ND	ug/L	4.0	1		07/15/20 16:45	107-05-1	
Benzene	ND	ug/L	1.0	1		07/15/20 16:45	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/15/20 16:45	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/15/20 16:45	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/15/20 16:45	75-27-4	
Bromoform	ND	ug/L	4.0	1		07/15/20 16:45	75-25-2	
Bromomethane	ND	ug/L	4.0	1		07/15/20 16:45	74-83-9	3M
2-Butanone (MEK)	ND	ug/L	20.0	1		07/15/20 16:45	78-93-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

Sample: MW-1 **Lab ID: 10524487002** Collected: 07/10/20 12:30 Received: 07/10/20 16:57 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
n-Butylbenzene	ND	ug/L	1.0	1		07/15/20 16:45	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		07/15/20 16:45	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		07/15/20 16:45	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		07/15/20 16:45	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/15/20 16:45	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/15/20 16:45	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/15/20 16:45	67-66-3	
Chloromethane	ND	ug/L	4.0	1		07/15/20 16:45	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/15/20 16:45	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/15/20 16:45	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		07/15/20 16:45	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/15/20 16:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/15/20 16:45	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		07/15/20 16:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/15/20 16:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/15/20 16:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/15/20 16:45	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/15/20 16:45	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/15/20 16:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/15/20 16:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/15/20 16:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/15/20 16:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/15/20 16:45	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		07/15/20 16:45	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		07/15/20 16:45	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/15/20 16:45	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		07/15/20 16:45	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/15/20 16:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		07/15/20 16:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		07/15/20 16:45	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		07/15/20 16:45	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		07/15/20 16:45	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		07/15/20 16:45	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		07/15/20 16:45	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/15/20 16:45	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		07/15/20 16:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/15/20 16:45	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/15/20 16:45	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		07/15/20 16:45	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		07/15/20 16:45	103-65-1	
Styrene	ND	ug/L	1.0	1		07/15/20 16:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/15/20 16:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/15/20 16:45	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/15/20 16:45	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		07/15/20 16:45	109-99-9	
Toluene	ND	ug/L	1.0	1		07/15/20 16:45	108-88-3	

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ANALYTICAL RESULTS

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

Sample: MW-1 **Lab ID: 10524487002** Collected: 07/10/20 12:30 Received: 07/10/20 16:57 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/15/20 16:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/15/20 16:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/15/20 16:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/15/20 16:45	79-00-5	
Trichloroethene	ND	ug/L	0.40	1		07/15/20 16:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/15/20 16:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		07/15/20 16:45	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		07/15/20 16:45	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		07/15/20 16:45	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		07/15/20 16:45	108-67-8	
Vinyl chloride	ND	ug/L	0.20	1		07/15/20 16:45	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		07/15/20 16:45	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/15/20 16:45	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/15/20 16:45	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%.	75-125	1		07/15/20 16:45	17060-07-0	
Toluene-d8 (S)	97	%.	75-125	1		07/15/20 16:45	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	75-125	1		07/15/20 16:45	460-00-4	

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ANALYTICAL RESULTS

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

Sample: MW-2 **Lab ID: 10524487003** Collected: 07/10/20 13:45 Received: 07/10/20 16:57 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Duluth							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.50	1	07/15/20 16:15	07/16/20 21:00	7727-37-9	
WIDRO LV GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO Pace Analytical Services - Minneapolis							
WDRO C10-C28	ND	mg/L	0.10	1	07/12/20 10:27	07/14/20 08:00		
Surrogates								
n-Triacontane (S)	88	%.	50-150	1	07/12/20 10:27	07/14/20 08:00	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Pace Analytical Services - Minneapolis							
Gasoline Range Organics	ND	ug/L	100	1		07/18/20 07:17		
Surrogates								
a,a,a-Trifluorotoluene (S)	96	%.	80-150	1		07/18/20 07:17	98-08-8	
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Acetone	ND	ug/L	20.0	1		07/15/20 16:28	67-64-1	1M
Allyl chloride	ND	ug/L	4.0	1		07/15/20 16:28	107-05-1	
Benzene	ND	ug/L	1.0	1		07/15/20 16:28	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/15/20 16:28	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/15/20 16:28	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/15/20 16:28	75-27-4	
Bromoform	ND	ug/L	4.0	1		07/15/20 16:28	75-25-2	
Bromomethane	ND	ug/L	4.0	1		07/15/20 16:28	74-83-9	3M
2-Butanone (MEK)	ND	ug/L	20.0	1		07/15/20 16:28	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		07/15/20 16:28	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		07/15/20 16:28	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		07/15/20 16:28	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		07/15/20 16:28	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/15/20 16:28	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/15/20 16:28	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/15/20 16:28	67-66-3	
Chloromethane	ND	ug/L	4.0	1		07/15/20 16:28	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/15/20 16:28	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/15/20 16:28	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		07/15/20 16:28	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/15/20 16:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/15/20 16:28	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		07/15/20 16:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/15/20 16:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/15/20 16:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/15/20 16:28	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/15/20 16:28	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/15/20 16:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/15/20 16:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/15/20 16:28	75-35-4	

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ANALYTICAL RESULTS

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

Sample: MW-2 **Lab ID: 10524487003** Collected: 07/10/20 13:45 Received: 07/10/20 16:57 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/15/20 16:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/15/20 16:28	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		07/15/20 16:28	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		07/15/20 16:28	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/15/20 16:28	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		07/15/20 16:28	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/15/20 16:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		07/15/20 16:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		07/15/20 16:28	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		07/15/20 16:28	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		07/15/20 16:28	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		07/15/20 16:28	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		07/15/20 16:28	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/15/20 16:28	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		07/15/20 16:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/15/20 16:28	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/15/20 16:28	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		07/15/20 16:28	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		07/15/20 16:28	103-65-1	
Styrene	ND	ug/L	1.0	1		07/15/20 16:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/15/20 16:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/15/20 16:28	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/15/20 16:28	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		07/15/20 16:28	109-99-9	
Toluene	ND	ug/L	1.0	1		07/15/20 16:28	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/15/20 16:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/15/20 16:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/15/20 16:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/15/20 16:28	79-00-5	
Trichloroethene	ND	ug/L	0.40	1		07/15/20 16:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/15/20 16:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		07/15/20 16:28	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		07/15/20 16:28	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		07/15/20 16:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		07/15/20 16:28	108-67-8	
Vinyl chloride	ND	ug/L	0.20	1		07/15/20 16:28	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		07/15/20 16:28	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/15/20 16:28	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/15/20 16:28	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%.	75-125	1		07/15/20 16:28	17060-07-0	
Toluene-d8 (S)	95	%.	75-125	1		07/15/20 16:28	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	75-125	1		07/15/20 16:28	460-00-4	

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ANALYTICAL RESULTS

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

Sample: MW-2 **Lab ID: 10524487003** Collected: 07/10/20 13:45 Received: 07/10/20 16:57 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrate + Nitrite	Analytical Method: EPA 353.2 Pace Analytical Services - Minneapolis							
Nitrogen, NO2 plus NO3	**0.41**	mg/L	0.10	1		07/23/20 12:31		

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ANALYTICAL RESULTS

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

Sample: MW-3 **Lab ID: 10524487004** Collected: 07/10/20 11:00 Received: 07/10/20 16:57 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Acetone	ND	ug/L	20.0	1		07/15/20 17:02	67-64-1	1M
Allyl chloride	ND	ug/L	4.0	1		07/15/20 17:02	107-05-1	
Benzene	ND	ug/L	1.0	1		07/15/20 17:02	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/15/20 17:02	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/15/20 17:02	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/15/20 17:02	75-27-4	
Bromoform	ND	ug/L	4.0	1		07/15/20 17:02	75-25-2	
Bromomethane	ND	ug/L	4.0	1		07/15/20 17:02	74-83-9	3M
2-Butanone (MEK)	ND	ug/L	20.0	1		07/15/20 17:02	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		07/15/20 17:02	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		07/15/20 17:02	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		07/15/20 17:02	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		07/15/20 17:02	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/15/20 17:02	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/15/20 17:02	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/15/20 17:02	67-66-3	
Chloromethane	ND	ug/L	4.0	1		07/15/20 17:02	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/15/20 17:02	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/15/20 17:02	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		07/15/20 17:02	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/15/20 17:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/15/20 17:02	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		07/15/20 17:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/15/20 17:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/15/20 17:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/15/20 17:02	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/15/20 17:02	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/15/20 17:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/15/20 17:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/15/20 17:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/15/20 17:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/15/20 17:02	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		07/15/20 17:02	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		07/15/20 17:02	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/15/20 17:02	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		07/15/20 17:02	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/15/20 17:02	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		07/15/20 17:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		07/15/20 17:02	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		07/15/20 17:02	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		07/15/20 17:02	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		07/15/20 17:02	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		07/15/20 17:02	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/15/20 17:02	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		07/15/20 17:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/15/20 17:02	108-10-1	

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ANALYTICAL RESULTS

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

Sample: MW-3 **Lab ID: 10524487004** Collected: 07/10/20 11:00 Received: 07/10/20 16:57 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/15/20 17:02	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		07/15/20 17:02	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		07/15/20 17:02	103-65-1	
Styrene	ND	ug/L	1.0	1		07/15/20 17:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/15/20 17:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/15/20 17:02	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/15/20 17:02	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		07/15/20 17:02	109-99-9	
Toluene	ND	ug/L	1.0	1		07/15/20 17:02	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/15/20 17:02	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/15/20 17:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/15/20 17:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/15/20 17:02	79-00-5	
Trichloroethene	ND	ug/L	0.40	1		07/15/20 17:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/15/20 17:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		07/15/20 17:02	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		07/15/20 17:02	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		07/15/20 17:02	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		07/15/20 17:02	108-67-8	
Vinyl chloride	ND	ug/L	0.20	1		07/15/20 17:02	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		07/15/20 17:02	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/15/20 17:02	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/15/20 17:02	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%.	75-125	1		07/15/20 17:02	17060-07-0	
Toluene-d8 (S)	98	%.	75-125	1		07/15/20 17:02	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	75-125	1		07/15/20 17:02	460-00-4	

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ANALYTICAL RESULTS

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

Sample: DUP **Lab ID: 10524487005** Collected: 07/10/20 12:00 Received: 07/10/20 16:57 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Duluth							
Nitrogen, Kjeldahl, Total	**0.80**	mg/L	0.50	1	07/15/20 16:15	07/16/20 20:59	7727-37-9	
WIDRO LV GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO Pace Analytical Services - Minneapolis							
WDRO C10-C28	ND	mg/L	0.10	1	07/12/20 10:27	07/13/20 15:21		
Surrogates								
n-Triacontane (S)	71	%.	50-150	1	07/12/20 10:27	07/13/20 15:21	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Pace Analytical Services - Minneapolis							
Gasoline Range Organics	ND	ug/L	100	1		07/18/20 07:42		
Surrogates								
a,a,a-Trifluorotoluene (S)	96	%.	80-150	1		07/18/20 07:42	98-08-8	
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Acetone	ND	ug/L	20.0	1		07/15/20 17:20	67-64-1	1M
Allyl chloride	ND	ug/L	4.0	1		07/15/20 17:20	107-05-1	
Benzene	ND	ug/L	1.0	1		07/15/20 17:20	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/15/20 17:20	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/15/20 17:20	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/15/20 17:20	75-27-4	
Bromoform	ND	ug/L	4.0	1		07/15/20 17:20	75-25-2	
Bromomethane	ND	ug/L	4.0	1		07/15/20 17:20	74-83-9	3M
2-Butanone (MEK)	ND	ug/L	20.0	1		07/15/20 17:20	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		07/15/20 17:20	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		07/15/20 17:20	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		07/15/20 17:20	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		07/15/20 17:20	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/15/20 17:20	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/15/20 17:20	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/15/20 17:20	67-66-3	
Chloromethane	ND	ug/L	4.0	1		07/15/20 17:20	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/15/20 17:20	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/15/20 17:20	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		07/15/20 17:20	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/15/20 17:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/15/20 17:20	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		07/15/20 17:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/15/20 17:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/15/20 17:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/15/20 17:20	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/15/20 17:20	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/15/20 17:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/15/20 17:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/15/20 17:20	75-35-4	

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ANALYTICAL RESULTS

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

Sample: DUP **Lab ID: 10524487005** Collected: 07/10/20 12:00 Received: 07/10/20 16:57 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/15/20 17:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/15/20 17:20	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		07/15/20 17:20	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		07/15/20 17:20	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/15/20 17:20	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		07/15/20 17:20	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/15/20 17:20	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		07/15/20 17:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		07/15/20 17:20	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		07/15/20 17:20	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		07/15/20 17:20	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		07/15/20 17:20	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		07/15/20 17:20	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/15/20 17:20	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		07/15/20 17:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/15/20 17:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/15/20 17:20	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		07/15/20 17:20	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		07/15/20 17:20	103-65-1	
Styrene	ND	ug/L	1.0	1		07/15/20 17:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/15/20 17:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/15/20 17:20	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/15/20 17:20	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		07/15/20 17:20	109-99-9	
Toluene	ND	ug/L	1.0	1		07/15/20 17:20	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/15/20 17:20	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/15/20 17:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/15/20 17:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/15/20 17:20	79-00-5	
Trichloroethene	ND	ug/L	0.40	1		07/15/20 17:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/15/20 17:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		07/15/20 17:20	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		07/15/20 17:20	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		07/15/20 17:20	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		07/15/20 17:20	108-67-8	
Vinyl chloride	ND	ug/L	0.20	1		07/15/20 17:20	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		07/15/20 17:20	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/15/20 17:20	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/15/20 17:20	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%.	75-125	1		07/15/20 17:20	17060-07-0	
Toluene-d8 (S)	97	%.	75-125	1		07/15/20 17:20	2037-26-5	
4-Bromofluorobenzene (S)	104	%.	75-125	1		07/15/20 17:20	460-00-4	

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ANALYTICAL RESULTS

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

Sample: DUP **Lab ID: 10524487005** Collected: 07/10/20 12:00 Received: 07/10/20 16:57 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrate + Nitrite	Analytical Method: EPA 353.2 Pace Analytical Services - Minneapolis							
Nitrogen, NO2 plus NO3	**0.49**	mg/L	0.10	1		07/23/20 12:32		

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ANALYTICAL RESULTS

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

Sample: Trip Blank **Lab ID: 10524487006** Collected: 07/10/20 12:00 Received: 07/10/20 16:57 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO							
	Pace Analytical Services - Minneapolis							
Gasoline Range Organics	ND	ug/L	100	1		07/18/20 09:46		
Surrogates								
a,a,a-Trifluorotoluene (S)	97	%.	80-150	1		07/18/20 09:46	98-08-8	
8260D VOC	Analytical Method: EPA 8260D							
	Pace Analytical Services - Minneapolis							
Acetone	ND	ug/L	20.0	1		07/15/20 15:36	67-64-1	1M
Allyl chloride	ND	ug/L	4.0	1		07/15/20 15:36	107-05-1	
Benzene	ND	ug/L	1.0	1		07/15/20 15:36	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/15/20 15:36	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/15/20 15:36	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/15/20 15:36	75-27-4	
Bromoform	ND	ug/L	4.0	1		07/15/20 15:36	75-25-2	
Bromomethane	ND	ug/L	4.0	1		07/15/20 15:36	74-83-9	3M
2-Butanone (MEK)	ND	ug/L	20.0	1		07/15/20 15:36	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		07/15/20 15:36	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		07/15/20 15:36	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		07/15/20 15:36	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		07/15/20 15:36	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/15/20 15:36	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/15/20 15:36	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/15/20 15:36	67-66-3	
Chloromethane	ND	ug/L	4.0	1		07/15/20 15:36	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/15/20 15:36	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/15/20 15:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		07/15/20 15:36	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/15/20 15:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/15/20 15:36	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		07/15/20 15:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/15/20 15:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/15/20 15:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/15/20 15:36	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/15/20 15:36	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/15/20 15:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/15/20 15:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/15/20 15:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/15/20 15:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/15/20 15:36	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		07/15/20 15:36	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		07/15/20 15:36	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/15/20 15:36	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		07/15/20 15:36	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/15/20 15:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		07/15/20 15:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		07/15/20 15:36	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		07/15/20 15:36	60-29-7	

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ANALYTICAL RESULTS

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

Sample: Trip Blank **Lab ID: 10524487006** Collected: 07/10/20 12:00 Received: 07/10/20 16:57 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Ethylbenzene	ND	ug/L	1.0	1		07/15/20 15:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	1		07/15/20 15:36	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		07/15/20 15:36	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/15/20 15:36	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		07/15/20 15:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/15/20 15:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/15/20 15:36	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		07/15/20 15:36	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		07/15/20 15:36	103-65-1	
Styrene	ND	ug/L	1.0	1		07/15/20 15:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/15/20 15:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/15/20 15:36	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/15/20 15:36	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		07/15/20 15:36	109-99-9	
Toluene	ND	ug/L	1.0	1		07/15/20 15:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/15/20 15:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/15/20 15:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/15/20 15:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/15/20 15:36	79-00-5	
Trichloroethene	ND	ug/L	0.40	1		07/15/20 15:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/15/20 15:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		07/15/20 15:36	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		07/15/20 15:36	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		07/15/20 15:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		07/15/20 15:36	108-67-8	
Vinyl chloride	ND	ug/L	0.20	1		07/15/20 15:36	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		07/15/20 15:36	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/15/20 15:36	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/15/20 15:36	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%.	75-125	1		07/15/20 15:36	17060-07-0	
Toluene-d8 (S)	97	%.	75-125	1		07/15/20 15:36	2037-26-5	
4-Bromofluorobenzene (S)	104	%.	75-125	1		07/15/20 15:36	460-00-4	

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QUALITY CONTROL DATA

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

QC Batch: 193646
QC Batch Method: EPA 351.2
Analysis Method: EPA 351.2
Analysis Description: 351.2 TKN
Laboratory: Pace Analytical Services - Duluth
Associated Lab Samples: 10524487003, 10524487005

METHOD BLANK: 763908 Matrix: Water
Associated Lab Samples: 10524487003, 10524487005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	ND	0.50	07/16/20 20:35	

LABORATORY CONTROL SAMPLE: 763907

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	10	10.3	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 763909 763910

Parameter	Units	10524073001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	101	10	10	107	106	58	48	90-110	1	10	M6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 763911 763912

Parameter	Units	12147220009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	0.55	10	10	10.7	10.8	102	102	90-110	0	10	

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QUALITY CONTROL DATA

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

QC Batch: 193647
QC Batch Method: EPA 351.2
Analysis Method: EPA 351.2
Analysis Description: 351.2 TKN
Laboratory: Pace Analytical Services - Duluth
Associated Lab Samples: 10524487001

METHOD BLANK: 763914 Matrix: Water
Associated Lab Samples: 10524487001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	ND	0.50	07/16/20 21:02	

LABORATORY CONTROL SAMPLE: 763913

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	10	10.5	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 763915 763916

Parameter	Units	10524487001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	2.9	10	10	13.5	12.9	106	101	90-110	4	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 763917 763918

Parameter	Units	10524619004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	1.7	10	10	12.0	11.9	103	102	90-110	1	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

QC Batch: 687461
QC Batch Method: WI MOD GRO
Analysis Method: WI MOD GRO
Analysis Description: WIGRO GCV Water
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10524487003, 10524487005, 10524487006

METHOD BLANK: 3676466 Matrix: Water
Associated Lab Samples: 10524487003, 10524487005, 10524487006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	ug/L	ND	100	07/18/20 01:53	
a,a,a-Trifluorotoluene (S)	%.	94	80-150	07/18/20 01:53	

LABORATORY CONTROL SAMPLE & LCSD: 3676467 3676468

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Gasoline Range Organics	ug/L	1000	985	979	98	98	80-120	1	20	
a,a,a-Trifluorotoluene (S)	%.				98	99	80-150			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3676524 3676525

Parameter	Units	10524082001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Gasoline Range Organics	ug/L	ND	1000	1000	994	1000	97	97	80-120	1	20	
a,a,a-Trifluorotoluene (S)	%.						99	99	80-150			

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QUALITY CONTROL DATA

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

QC Batch: 686572
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470A Mercury Water Dissolved
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10524487002

METHOD BLANK: 3671412 Matrix: Water
Associated Lab Samples: 10524487002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	07/14/20 15:46	

LABORATORY CONTROL SAMPLE: 3671413

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.8	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3671414 3671415

Parameter	Units	10524487002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	4.6	4.7	92	94	80-120	3	20	

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QUALITY CONTROL DATA

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

QC Batch: 686565
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D Water Dissolved
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10524487002

METHOD BLANK: 3671384 Matrix: Water
Associated Lab Samples: 10524487002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	ND	20.0	07/20/20 13:11	
Barium, Dissolved	ug/L	ND	10.0	07/20/20 13:11	
Cadmium, Dissolved	ug/L	ND	3.0	07/20/20 13:11	
Chromium, Dissolved	ug/L	ND	10.0	07/20/20 13:11	
Lead, Dissolved	ug/L	ND	10.0	07/20/20 13:11	
Selenium, Dissolved	ug/L	ND	20.0	07/20/20 13:11	
Silver, Dissolved	ug/L	ND	10.0	07/20/20 13:11	

LABORATORY CONTROL SAMPLE: 3671385

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	1000	960	96	80-120	
Barium, Dissolved	ug/L	1000	982	98	80-120	
Cadmium, Dissolved	ug/L	1000	999	100	80-120	
Chromium, Dissolved	ug/L	1000	972	97	80-120	
Lead, Dissolved	ug/L	1000	981	98	80-120	
Selenium, Dissolved	ug/L	1000	996	100	80-120	
Silver, Dissolved	ug/L	500	487	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3671386 3671387

Parameter	Units	10524487002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	ug/L	ND	1000	1000	978	1030	98	103	75-125	6	20	
Barium, Dissolved	ug/L	156	1000	1000	1130	1170	97	102	75-125	4	20	
Cadmium, Dissolved	ug/L	ND	1000	1000	970	1020	97	102	75-125	5	20	
Chromium, Dissolved	ug/L	ND	1000	1000	965	1010	96	101	75-125	5	20	
Lead, Dissolved	ug/L	ND	1000	1000	965	1010	96	101	75-125	5	20	
Selenium, Dissolved	ug/L	ND	1000	1000	997	1040	100	104	75-125	5	20	
Silver, Dissolved	ug/L	ND	500	500	494	520	99	104	75-125	5	20	

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QUALITY CONTROL DATA

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

QC Batch: 686984 | Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D | Analysis Description: 8260D MSV 465 W
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10524487002, 10524487003, 10524487004, 10524487005, 10524487006

METHOD BLANK: 3673547 Matrix: Water
Associated Lab Samples: 10524487002, 10524487003, 10524487004, 10524487005, 10524487006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	07/15/20 13:36	
1,1,1-Trichloroethane	ug/L	ND	1.0	07/15/20 13:36	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	07/15/20 13:36	
1,1,2-Trichloroethane	ug/L	ND	1.0	07/15/20 13:36	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	07/15/20 13:36	
1,1-Dichloroethane	ug/L	ND	1.0	07/15/20 13:36	
1,1-Dichloroethene	ug/L	ND	1.0	07/15/20 13:36	
1,1-Dichloropropene	ug/L	ND	1.0	07/15/20 13:36	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	07/15/20 13:36	
1,2,3-Trichloropropane	ug/L	ND	4.0	07/15/20 13:36	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	07/15/20 13:36	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	07/15/20 13:36	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	07/15/20 13:36	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	07/15/20 13:36	
1,2-Dichlorobenzene	ug/L	ND	1.0	07/15/20 13:36	
1,2-Dichloroethane	ug/L	ND	1.0	07/15/20 13:36	
1,2-Dichloropropane	ug/L	ND	4.0	07/15/20 13:36	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	07/15/20 13:36	
1,3-Dichlorobenzene	ug/L	ND	1.0	07/15/20 13:36	
1,3-Dichloropropane	ug/L	ND	1.0	07/15/20 13:36	
1,4-Dichlorobenzene	ug/L	ND	1.0	07/15/20 13:36	
2,2-Dichloropropane	ug/L	ND	4.0	07/15/20 13:36	
2-Butanone (MEK)	ug/L	ND	20.0	07/15/20 13:36	MN
2-Chlorotoluene	ug/L	ND	1.0	07/15/20 13:36	
4-Chlorotoluene	ug/L	ND	1.0	07/15/20 13:36	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	07/15/20 13:36	
Acetone	ug/L	ND	20.0	07/15/20 13:36	1M
Allyl chloride	ug/L	ND	4.0	07/15/20 13:36	
Benzene	ug/L	ND	1.0	07/15/20 13:36	
Bromobenzene	ug/L	ND	1.0	07/15/20 13:36	
Bromochloromethane	ug/L	ND	1.0	07/15/20 13:36	
Bromodichloromethane	ug/L	ND	1.0	07/15/20 13:36	
Bromoform	ug/L	ND	4.0	07/15/20 13:36	
Bromomethane	ug/L	ND	4.0	07/15/20 13:36	3M
Carbon tetrachloride	ug/L	ND	1.0	07/15/20 13:36	
Chlorobenzene	ug/L	ND	1.0	07/15/20 13:36	
Chloroethane	ug/L	ND	1.0	07/15/20 13:36	
Chloroform	ug/L	ND	1.0	07/15/20 13:36	
Chloromethane	ug/L	ND	4.0	07/15/20 13:36	
cis-1,2-Dichloroethene	ug/L	ND	1.0	07/15/20 13:36	

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QUALITY CONTROL DATA

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

METHOD BLANK: 3673547 Matrix: Water
Associated Lab Samples: 10524487002, 10524487003, 10524487004, 10524487005, 10524487006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	4.0	07/15/20 13:36	
Dibromochloromethane	ug/L	ND	1.0	07/15/20 13:36	
Dibromomethane	ug/L	ND	4.0	07/15/20 13:36	
Dichlorodifluoromethane	ug/L	ND	1.0	07/15/20 13:36	
Dichlorofluoromethane	ug/L	ND	1.0	07/15/20 13:36	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	07/15/20 13:36	
Ethylbenzene	ug/L	ND	1.0	07/15/20 13:36	
Hexachloro-1,3-butadiene	ug/L	ND	4.0	07/15/20 13:36	MN
Isopropylbenzene (Cumene)	ug/L	ND	1.0	07/15/20 13:36	
m&p-Xylene	ug/L	ND	2.0	07/15/20 13:36	
Methyl-tert-butyl ether	ug/L	ND	1.0	07/15/20 13:36	
Methylene Chloride	ug/L	ND	4.0	07/15/20 13:36	
n-Butylbenzene	ug/L	ND	1.0	07/15/20 13:36	
n-Propylbenzene	ug/L	ND	1.0	07/15/20 13:36	
Naphthalene	ug/L	ND	4.0	07/15/20 13:36	
o-Xylene	ug/L	ND	1.0	07/15/20 13:36	
p-Isopropyltoluene	ug/L	ND	1.0	07/15/20 13:36	
sec-Butylbenzene	ug/L	ND	1.0	07/15/20 13:36	
Styrene	ug/L	ND	1.0	07/15/20 13:36	
tert-Butylbenzene	ug/L	ND	1.0	07/15/20 13:36	
Tetrachloroethene	ug/L	ND	1.0	07/15/20 13:36	
Tetrahydrofuran	ug/L	ND	10.0	07/15/20 13:36	
Toluene	ug/L	ND	1.0	07/15/20 13:36	
trans-1,2-Dichloroethene	ug/L	ND	1.0	07/15/20 13:36	
trans-1,3-Dichloropropene	ug/L	ND	4.0	07/15/20 13:36	
Trichloroethene	ug/L	ND	0.40	07/15/20 13:36	
Trichlorofluoromethane	ug/L	ND	1.0	07/15/20 13:36	
Vinyl chloride	ug/L	ND	0.20	07/15/20 13:36	
Xylene (Total)	ug/L	ND	3.0	07/15/20 13:36	
1,2-Dichloroethane-d4 (S)	%.	95	75-125	07/15/20 13:36	
4-Bromofluorobenzene (S)	%.	102	75-125	07/15/20 13:36	
Toluene-d8 (S)	%.	96	75-125	07/15/20 13:36	

LABORATORY CONTROL SAMPLE: 3673548

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.1	105	75-128	
1,1,1-Trichloroethane	ug/L	20	20.8	104	75-128	
1,1,2,2-Tetrachloroethane	ug/L	20	19.6	98	69-129	
1,1,2-Trichloroethane	ug/L	20	20.8	104	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	20.5	103	74-125	
1,1-Dichloroethane	ug/L	20	19.6	98	75-125	
1,1-Dichloroethene	ug/L	20	18.8	94	65-125	
1,1-Dichloropropene	ug/L	20	19.4	97	69-131	

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QUALITY CONTROL DATA

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

LABORATORY CONTROL SAMPLE: 3673548

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichlorobenzene	ug/L	20	19.7	99	75-125	
1,2,3-Trichloropropane	ug/L	20	20.0	100	75-125	
1,2,4-Trichlorobenzene	ug/L	20	19.8	99	67-131	
1,2,4-Trimethylbenzene	ug/L	20	19.7	99	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	48.6	97	65-128	
1,2-Dibromoethane (EDB)	ug/L	20	20.1	101	75-125	
1,2-Dichlorobenzene	ug/L	20	20.8	104	75-125	
1,2-Dichloroethane	ug/L	20	18.2	91	74-125	
1,2-Dichloropropane	ug/L	20	21.0	105	68-125	
1,3,5-Trimethylbenzene	ug/L	20	19.7	99	75-125	
1,3-Dichlorobenzene	ug/L	20	20.9	104	75-125	
1,3-Dichloropropane	ug/L	20	20.3	102	75-125	
1,4-Dichlorobenzene	ug/L	20	19.3	97	75-125	
2,2-Dichloropropane	ug/L	20	21.6	108	70-133	
2-Butanone (MEK)	ug/L	100	116	116	62-142	
2-Chlorotoluene	ug/L	20	20.3	101	75-125	
4-Chlorotoluene	ug/L	20	20.3	101	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	106	106	75-125	
Acetone	ug/L	100	128	128	47-150	2M
Allyl chloride	ug/L	20	19.9	100	65-125	
Benzene	ug/L	20	20.1	100	75-125	
Bromobenzene	ug/L	20	19.5	98	75-125	
Bromochloromethane	ug/L	20	20.0	100	75-125	
Bromodichloromethane	ug/L	20	19.2	96	75-128	
Bromoform	ug/L	20	18.2	91	75-125	
Bromomethane	ug/L	20	13.1	65	43-150	4M
Carbon tetrachloride	ug/L	20	19.1	96	75-127	
Chlorobenzene	ug/L	20	20.9	104	75-125	
Chloroethane	ug/L	20	22.9	114	72-130	
Chloroform	ug/L	20	18.6	93	75-125	
Chloromethane	ug/L	20	19.7	98	55-128	
cis-1,2-Dichloroethene	ug/L	20	20.5	102	75-125	
cis-1,3-Dichloropropene	ug/L	20	20.9	104	74-132	
Dibromochloromethane	ug/L	20	19.9	99	75-125	
Dibromomethane	ug/L	20	20.3	102	71-137	
Dichlorodifluoromethane	ug/L	20	20.5	102	69-126	
Dichlorofluoromethane	ug/L	20	19.2	96	75-125	
Diethyl ether (Ethyl ether)	ug/L	20	19.7	98	72-125	
Ethylbenzene	ug/L	20	20.3	101	75-125	
Hexachloro-1,3-butadiene	ug/L	20	19.5	98	74-129	
Isopropylbenzene (Cumene)	ug/L	20	20.9	104	75-125	
m&p-Xylene	ug/L	40	40.2	100	74-125	
Methyl-tert-butyl ether	ug/L	20	19.7	99	69-125	
Methylene Chloride	ug/L	20	19.2	96	72-125	
n-Butylbenzene	ug/L	20	20.3	101	75-128	
n-Propylbenzene	ug/L	20	19.8	99	75-125	
Naphthalene	ug/L	20	22.3	112	70-125	

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QUALITY CONTROL DATA

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

LABORATORY CONTROL SAMPLE: 3673548

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
o-Xylene	ug/L	20	20.2	101	75-125	
p-Isopropyltoluene	ug/L	20	20.8	104	75-125	
sec-Butylbenzene	ug/L	20	20.1	101	75-127	
Styrene	ug/L	20	20.9	104	75-125	
tert-Butylbenzene	ug/L	20	20.4	102	75-125	
Tetrachloroethene	ug/L	20	22.0	110	74-125	
Tetrahydrofuran	ug/L	200	212	106	73-132	
Toluene	ug/L	20	20.4	102	75-125	
trans-1,2-Dichloroethene	ug/L	20	21.3	107	69-125	
trans-1,3-Dichloropropene	ug/L	20	20.8	104	69-130	
Trichloroethene	ug/L	20	20.8	104	75-127	
Trichlorofluoromethane	ug/L	20	22.4	112	71-132	
Vinyl chloride	ug/L	20	20.7	103	65-128	
Xylene (Total)	ug/L	60	60.4	101	75-125	
1,2-Dichloroethane-d4 (S)	%.			96	75-125	
4-Bromofluorobenzene (S)	%.			99	75-125	
Toluene-d8 (S)	%.			102	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3673742 3673743

Parameter	Units	10524487003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.6	20.7	108	104	71-128	4	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	22.5	21.3	113	107	75-144	5	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	19.9	20.6	100	103	63-125	3	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	21.5	20.2	108	101	75-125	6	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	20	22.1	21.0	111	105	69-141	5	30	
1,1-Dichloroethane	ug/L	ND	20	20	20.7	19.7	104	99	68-125	5	30	
1,1-Dichloroethene	ug/L	ND	20	20	20.3	19.6	101	98	62-135	3	30	
1,1-Dichloropropene	ug/L	ND	20	20	20.8	20.2	104	101	61-147	3	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	21.3	21.1	106	106	59-145	1	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	20.0	20.4	100	102	69-125	2	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	21.4	21.5	107	107	59-144	1	30	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	20.9	20.7	105	104	56-139	1	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	49.2	51.0	98	102	64-125	4	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.8	20.0	104	100	71-125	4	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	21.8	21.6	109	108	74-125	1	30	
1,2-Dichloroethane	ug/L	ND	20	20	19.2	17.9	96	90	64-125	7	30	
1,2-Dichloropropane	ug/L	ND	20	20	21.8	21.2	109	106	63-125	3	30	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	21.3	21.1	106	105	63-132	1	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	22.8	22.2	114	111	74-125	3	30	
1,3-Dichloropropane	ug/L	ND	20	20	21.4	20.3	107	101	75-125	6	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	20.0	20.0	100	100	73-125	0	30	
2,2-Dichloropropane	ug/L	ND	20	20	21.2	20.1	106	101	64-145	5	30	

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QUALITY CONTROL DATA

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3673742 3673743

Parameter	Units	10524487003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Butanone (MEK)	ug/L	ND	100	100	79.1	80.0	79	80	39-125	1	30	
2-Chlorotoluene	ug/L	ND	20	20	21.6	21.1	108	105	68-128	3	30	
4-Chlorotoluene	ug/L	ND	20	20	21.3	20.9	106	104	71-128	2	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	105	106	105	106	65-125	2	30	
Acetone	ug/L	ND	100	100	58.7	55.3	59	55	32-133	6	30	2M
Allyl chloride	ug/L	ND	20	20	20.9	20.0	105	100	61-125	5	30	
Benzene	ug/L	ND	20	20	20.8	19.9	104	100	63-125	4	30	
Bromobenzene	ug/L	ND	20	20	20.5	20.5	103	102	75-125	0	30	
Bromochloromethane	ug/L	ND	20	20	21.0	19.7	105	99	67-125	6	30	
Bromodichloromethane	ug/L	ND	20	20	19.7	19.4	98	97	67-139	1	30	
Bromoform	ug/L	ND	20	20	17.1	17.9	85	90	75-125	5	30	
Bromomethane	ug/L	ND	20	20	14.4	16.6	72	83	50-150	15	30	4M
Carbon tetrachloride	ug/L	ND	20	20	20.4	19.6	102	98	70-148	4	30	
Chlorobenzene	ug/L	ND	20	20	21.7	20.7	108	104	75-125	5	30	
Chloroethane	ug/L	ND	20	20	22.4	20.5	112	103	62-142	9	30	
Chloroform	ug/L	ND	20	20	19.3	18.5	97	93	67-125	4	30	
Chloromethane	ug/L	ND	20	20	20.9	19.7	104	99	43-140	6	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	21.3	20.5	107	103	64-134	4	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	20.6	20.2	103	101	68-129	2	30	
Dibromochloromethane	ug/L	ND	20	20	20.7	19.6	103	98	71-137	6	30	
Dibromomethane	ug/L	ND	20	20	20.3	19.7	102	98	66-130	3	30	
Dichlorodifluoromethane	ug/L	ND	20	20	22.6	20.7	113	103	61-144	9	30	
Dichlorofluoromethane	ug/L	ND	20	20	20.0	19.0	100	95	68-125	5	30	
Diethyl ether (Ethyl ether)	ug/L	ND	20	20	20.4	19.3	102	97	57-127	5	30	
Ethylbenzene	ug/L	ND	20	20	21.7	20.3	109	101	66-128	7	30	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	21.1	20.8	106	104	52-150	2	30	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	22.7	21.1	114	106	73-138	7	30	
m&p-Xylene	ug/L	ND	40	40	43.4	40.2	108	100	62-133	8	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	20.2	19.6	101	98	60-125	3	30	
Methylene Chloride	ug/L	ND	20	20	18.9	18.6	95	93	59-125	1	30	
n-Butylbenzene	ug/L	ND	20	20	21.6	21.6	108	108	68-146	0	30	
n-Propylbenzene	ug/L	ND	20	20	21.2	20.6	106	103	72-132	3	30	
Naphthalene	ug/L	ND	20	20	21.4	22.5	107	113	55-135	5	30	
o-Xylene	ug/L	ND	20	20	22.7	21.0	114	105	66-128	8	30	
p-Isopropyltoluene	ug/L	ND	20	20	21.8	21.9	109	109	69-139	0	30	
sec-Butylbenzene	ug/L	ND	20	20	22.1	21.9	110	109	69-149	1	30	
Styrene	ug/L	ND	20	20	22.1	20.7	110	103	75-126	7	30	
tert-Butylbenzene	ug/L	ND	20	20	22.2	21.6	111	108	67-147	3	30	
Tetrachloroethene	ug/L	ND	20	20	22.9	21.6	115	108	70-141	6	30	
Tetrahydrofuran	ug/L	ND	200	200	202	199	101	99	64-128	1	30	
Toluene	ug/L	ND	20	20	21.2	20.5	106	102	64-125	4	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	22.0	21.1	110	106	62-135	4	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	21.2	20.1	106	101	69-125	5	30	
Trichloroethene	ug/L	ND	20	20	21.6	20.9	108	105	69-141	3	30	

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3673742 3673743

Parameter	Units	10524487003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Trichlorofluoromethane	ug/L	ND	20	20	24.6	22.2	123	111	61-148	10	30	
Vinyl chloride	ug/L	ND	20	20	22.2	20.8	111	104	56-144	6	30	
Xylene (Total)	ug/L	ND	60	60	66.1	61.2	110	102	64-131	8	30	
1,2-Dichloroethane-d4 (S)	%.						100	99	75-125			
4-Bromofluorobenzene (S)	%.						100	99	75-125			
Toluene-d8 (S)	%.						103	103	75-125			

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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

QC Batch: 686283
QC Batch Method: EPA Mod. 3510C
Analysis Method: EPA 8270E by SIM
Analysis Description: 8270E Water PAH by SIM MSSV
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10524487002

METHOD BLANK: 3670361 Matrix: Water
Associated Lab Samples: 10524487002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	0.040	07/15/20 13:31	
Acenaphthylene	ug/L	ND	0.040	07/15/20 13:31	
Anthracene	ug/L	ND	0.040	07/15/20 13:31	
Benzo(a)anthracene	ug/L	ND	0.040	07/15/20 13:31	
Benzo(a)pyrene	ug/L	ND	0.040	07/15/20 13:31	
Benzo(b)fluoranthene	ug/L	ND	0.040	07/15/20 13:31	
Benzo(g,h,i)perylene	ug/L	ND	0.040	07/15/20 13:31	
Benzo(k)fluoranthene	ug/L	ND	0.040	07/15/20 13:31	
Chrysene	ug/L	ND	0.040	07/15/20 13:31	
Dibenz(a,h)anthracene	ug/L	ND	0.040	07/15/20 13:31	
Fluoranthene	ug/L	ND	0.040	07/15/20 13:31	
Fluorene	ug/L	ND	0.040	07/15/20 13:31	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.040	07/15/20 13:31	
Naphthalene	ug/L	ND	0.040	07/15/20 13:31	
Phenanthrene	ug/L	ND	0.040	07/15/20 13:31	
Pyrene	ug/L	ND	0.040	07/15/20 13:31	
2-Fluorobiphenyl (S)	%.	83	50-125	07/15/20 13:31	
p-Terphenyl-d14 (S)	%.	107	58-125	07/15/20 13:31	

LABORATORY CONTROL SAMPLE & LCSD: 3670362 3670363

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Acenaphthene	ug/L	1	0.81	0.81	81	81	55-125	0	20	
Acenaphthylene	ug/L	1	0.81	0.80	81	80	54-125	1	20	
Anthracene	ug/L	1	0.89	0.90	89	90	60-125	1	20	
Benzo(a)anthracene	ug/L	1	0.97	0.99	97	99	61-125	2	20	
Benzo(a)pyrene	ug/L	1	0.98	0.99	98	99	64-125	2	20	
Benzo(b)fluoranthene	ug/L	1	0.95	0.98	95	98	64-125	3	20	
Benzo(g,h,i)perylene	ug/L	1	0.92	0.95	92	95	54-125	4	20	
Benzo(k)fluoranthene	ug/L	1	1.0	1.0	102	104	62-125	2	20	
Chrysene	ug/L	1	0.98	0.92	98	92	63-125	6	20	
Dibenz(a,h)anthracene	ug/L	1	0.87	0.89	87	89	45-125	2	20	
Fluoranthene	ug/L	1	1.0	1.0	102	102	66-125	0	20	
Fluorene	ug/L	1	0.84	0.87	84	87	59-125	3	20	
Indeno(1,2,3-cd)pyrene	ug/L	1	0.91	0.95	91	95	63-125	4	20	
Naphthalene	ug/L	1	0.66	0.69	66	69	53-125	3	20	
Phenanthrene	ug/L	1	0.93	0.94	93	94	64-125	1	20	
Pyrene	ug/L	1	0.97	0.96	97	96	67-125	1	20	
2-Fluorobiphenyl (S)	%.				80	81	50-125			

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

LABORATORY CONTROL SAMPLE & LCSD: 3670362 3670363

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
p-Terphenyl-d14 (S)	%.				100	97	58-125			

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(612)607-1700

QUALITY CONTROL DATA

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

QC Batch: 686281
QC Batch Method: WI MOD DRO
Analysis Method: WI MOD DRO
Analysis Description: WIDRO Low Volume GCS
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10524487003, 10524487005

METHOD BLANK: 3670350 Matrix: Water
Associated Lab Samples: 10524487003, 10524487005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
WDRO C10-C28	mg/L	ND	0.10	07/13/20 13:26	
n-Triacontane (S)	%.	71	50-150	07/13/20 13:26	

LABORATORY CONTROL SAMPLE & LCSD: 3670351 3670352

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
WDRO C10-C28	mg/L	0.8	0.60	0.70	75	88	75-115	16	20	
n-Triacontane (S)	%.				82	92	50-150			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3670353 3670354

Parameter	Units	10524472009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
WDRO C10-C28	mg/L	17.8	0.8	0.78	17.3	17.4	-62	-56	75-115	0	20	M3,T7
n-Triacontane (S)	%.						77	86	50-150			

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QUALITY CONTROL DATA

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

QC Batch: 688328
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10524487001, 10524487003, 10524487005

METHOD BLANK: 3681677 Matrix: Water
Associated Lab Samples: 10524487001, 10524487003, 10524487005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	07/23/20 12:47	FS

LABORATORY CONTROL SAMPLE: 3681678

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	1	1.0	105	90-110	FS

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3681679 3681680

Parameter	Units	10525306004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	ND	1	1	1.1	1.1	107	106	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3681681 3681682

Parameter	Units	10525306005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	ND	1	1	1.1	1.1	111	110	90-110	1	20	M1

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(612)607-1700

QUALIFIERS

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 686556

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1M	The continuing calibration for this analyte exceeded 20% difference acceptance criteria for EPA method. Analyte presence below reporting limits in associated samples. No impact to data.
2M	The continuing calibration for this analyte exceeded 20% difference acceptance criteria for EPA method. The result may be biased high.
3M	The continuing calibration for this analyte is below 20% difference acceptance criteria for EPA method 8260D but within 50% of the true value. Instrument sensitivity verified with reporting limit check.
4M	The continuing calibration for this analyte is below 20% difference acceptance criteria for EPA method 8260D but within 50% of the true value. The result may be biased low.
FS	The sample was filtered in the laboratory prior to analysis.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
MN	The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.
T7	Low boiling point hydrocarbons are present in the sample.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B1903316.00 Former Hillcrest
Pace Project No.: 10524487

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10524487001	**SW-1**	EPA 351.2	193647	EPA 351.2	193915
10524487003	**MW-2**	EPA 351.2	193646	EPA 351.2	193914
10524487005	**DUP**	EPA 351.2	193646	EPA 351.2	193914
10524487003	**MW-2**	WI MOD DRO	686281	WI MOD DRO	686586
10524487005	**DUP**	WI MOD DRO	686281	WI MOD DRO	686586
10524487003	**MW-2**	WI MOD GRO	687461		
10524487005	**DUP**	WI MOD GRO	687461		
10524487006	**Trip Blank**	WI MOD GRO	687461		
10524487002	**MW-1**	EPA 3010A	686565	EPA 6010D	686675
10524487002	**MW-1**	EPA 7470A	686572	EPA 7470A	686668
10524487002	**MW-1**	EPA Mod. 3510C	686283	EPA 8270E by SIM	686556
10524487002	**MW-1**	EPA 8260D	686984		
10524487003	**MW-2**	EPA 8260D	686984		
10524487004	**MW-3**	EPA 8260D	686984		
10524487005	**DUP**	EPA 8260D	686984		
10524487006	**Trip Blank**	EPA 8260D	686984		
10524487001	**SW-1**	EPA 353.2	688328		
10524487003	**MW-2**	EPA 353.2	688328		
10524487005	**DUP**	EPA 353.2	688328		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accu

WO# : 10524487

10524487

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Bowin Intertec	Report To: Mark Keefer	Attention:
Address: 11001 Hampshire Ave S Bloomington, MN 55438	Copy To:	Company Name:
		Address:
Email To: mkeefer@bowinintertec.com	Purchase Order No.:	Pace Quote Reference:
Phone: 952.995.2493 Fax: n/a	Project Name: Former Hillcrest Golf Course	Pace Project Manager:
Requested Due Date/TAT:	Project Number: B1903316.00	Pace Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: MN

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	RCRA metals	PAHs	VOCs	GRO	DRO	Nitrate-Nitrite	TKN	List 2 Pesticides	Chlorothalonil/Propionazol	Iprodione	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SW-1	WT	G			07/10/2020	1600		6	4	2													X	X	X	X			W1
2	MW-1	↓	↓			↓	1230		6	2		1	3						X	X	X									W2
3	MW-2	↓	↓			↓	1345		14	4	2		8								X	X	X	X	X	X	X			W3
4	MW-3	↓	↓			↓	1100		3				3								X									W4
5	DUP	↓	↓			↓	1200		14	4	2		8								X	X	X	X	X	X	X			W5
6	Trip Blank					↓															X	X								W6
7	Trip Blank					↓															X	X								"
8																														
9																														
10																														
11																														
12																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	HNMcTavish/Bowin Intertec	07/10/2020		[signature] Pace	7/10/20	1657	4.6 3.9	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: HNMcTavish

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 07/10/2020

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoice not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

Pace Analytical®	Document Name: **Sample Condition Upon Receipt (SCUR) - MN**	Document Revised: 27Mar2020 **Page 1 of 1**
	Document No.: **ENV-FRM-MIN4-0150 Rev.00**	Pace Analytical Services - **Minneapolis**

Sample Condition Upon Receipt

Client Name: Braun Intertec

Project #: **WO# : 10524487**

PM: BM2 Due Date: 07/17/20

CLIENT: Braun-BLM

Courier: ☐Fed Ex ☐UPS ☐USPS ☒Client ☐Pace ☐SpeeDee ☐Commercial **See Exceptions** ☐

Tracking Number: _____

Custody Seal on Cooler/Box Present? ☒Yes ☐No **Seals Intact?** ☒Yes ☐No **Biological Tissue Frozen?** ☐Yes ☐No ☒N/A

Packing Material: ☒Bubble Wrap ☒Bubble Bags ☐None ☐Other:_____ **Temp Blank?** ☒Yes ☐No

Thermometer: ☐T1(0461) ☐T2(1336) ☐T3(0459) ☐T4(0254) ☒T5(0489) **Type of Ice:** ☒Wet ☐Blue ☐None ☐Dry ☐Melted

Did Samples Originate in West Virginia? ☐Yes ☒No **Were All Container Temps Taken?** ☐Yes ☐No ☒N/A

Temp should be above freezing to 6°C **Cooler Temp Read w/temp blank:** 4.6, 3.9 °C

Average Corrected Temp (no temp blank only): ☐See Exceptions _____ °C ☐1 Container

Correction Factor: True **Cooler Temp Corrected w/temp blank:** 4.6, 3.9 °C

USDA Regulated Soil: (☒N/A, water sample/Other:_____) **Date/Initials of Person Examining Contents:** CEG 7/10/20

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐Yes ☐No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐Yes ☐No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present and Filled Out?	☒Yes	☐No		1.
Chain of Custody Relinquished?	☒Yes	☐No		2.
Sampler Name and/or Signature on COC?	☒Yes	☐No	☐N/A	3.
Samples Arrived within Hold Time?	☒Yes	☐No		4.
Short Hold Time Analysis (<72 hr)?	☐Yes	☒No		5. ☐Fecal Coliform ☐HPC ☐Total Coliform/E coli ☐BOD/cBOD ☐Hex Chrome ☐Turbidity ☐Nitrate ☐Nitrite ☐Orthophos ☐Other_____
Rush Turn Around Time Requested?	☐Yes	☒No		6.
Sufficient Volume?	☒Yes	☐No		7.
Correct Containers Used?	☒Yes	☐No		8.
-Pace Containers Used?	☒Yes	☐No		
Containers Intact?	☒Yes	☐No		9.
Field Filtered Volume Received for Dissolved Tests?	☐Yes	☐No	☒N/A	10. Is sediment visible in the dissolved container? ☐Yes ☐No
Is sufficient information available to reconcile the samples to the COC? Matrix: ☒Water ☐Soil ☐Oil ☐Other_____	☒Yes	☐No		11. **If no, write ID/ Date/Time on Container Below:** **See Exception** ☐
All containers needing acid/base preservation have been checked?	☒Yes	☐No	☐N/A	12. Sample # 1-4
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide)	☒Yes	☐No	☐N/A	$2^{\frac{1}{2}}$ ☐NaOH ☒HNO_3 1,3,4 $\frac{2}{2}$ ☒H_2SO_4 ☐Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☒Yes	☐No	☐N/A	Positive for Res. Chlorine? ☐Yes ☐No **pH Paper Lot#** **See Exception** ☐
				Res. Chlorine: 0-6 Roll 203614; 0-6 Strip: ; 0-14 Strip:
Extra labels present on soil VOA or WIDRO containers?	☐Yes	☐No	☒N/A	13. **See Exception** ☐
Headspace in VOA Vials (greater than 6mm)?	☐Yes	☒No	☐N/A	No headspace
Trip Blank Present?	☒Yes	☐No	☐N/A	14.
Trip Blank Custody Seals Present?	☒Yes	☐No	☐N/A	Pace Trip Blank Lot # (if purchased): 203753, 253055

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐Yes ☐No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: BM **Date:** 7/13/2020

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: CEG

Internal Transfer Chain of Custody

☐ Samples Pre-Logged into eCOC.

A202902

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State Of Origin: MN
Cert. Needed: [X] Yes [ ] No

Workorder: 10524487 **Workorder Name:** B1903316.00 Former Hillcrest
Owner Received Date: 7/10/2020 **Results Requested By:** 7/24/2020

Report To	Subcontract To
Bob Michels Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)709-5046	Pace Analytical Madison 2525 Advance Road Madison, WI 53718 Phone (608)221-8700

AG1U

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	MDA List 2 Pesticides	LAB USE ONLY
1	SW-1	PS	7/10/2020 16:00	10524487001	Water	2	X	01
2	MW-2	PS	7/10/2020 13:45	10524487003	Water	2	X	02
3	DUP	PS	7/10/2020 12:00	10524487005	Water	2	X	03
4								
5								

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	7/12/20 1530	[signature]	7/14/20 10:30
2				
3				

Comments

Cooler Temperature on Receipt 1.9 °C | **Custody Seal** (Y) or N | **Received on Ice** (Y) or N | **Samples Intact** (Y) or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.*

This chain of custody is considered complete as is since this information is available in the owner laboratory.

SW 1602922774
Exp 12/19/20

20 044

Chain of Custody

PASI Minnesota Laboratory

Pace Analytical®
www.pacelabs.com

Workorder: 10524487 **Workorder Name:** B1903316.00 Former Hillcrest **Results Requested By:** 7/24/2020

Report / Invoice To	Subcontract To
Bob Michels Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)709-5046 Email: bob.michels@pacelabs.com **State of Sample Origin:** MN	P.O. 10524487 Synergistic Pesticide Laboratory, LLC 2700 N Hayden Island Dr Portland, OR 97217 503-641-0500

					Preserved Containers	Requested Analysis	
					AG1U		
Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Unpreserved	** Fungicides	LAB USE ONLY
1	SW-1	7/10/2020 16:00	10524487001	Water	2	X	20 044 01
2	MW-2	7/10/2020 13:45	10524487003	Water	2	X	02
3	DUP	7/10/2020 12:00	10524487005	Water	2	X	03
4							
5							

Transfers	Released By	Date/Time	Received By	Date/Time
1	[illegible] /Pace	7/13/20 16:26	[illegible] SPL	7/14/2020
2				9:32
3				

Comments

**Analyze for chlorothalonil, propiconazole, iprodione.

Cooler Temperature on Receipt -0.9 °C	Custody Seal (Y) or N	Received on Ice (Y) or N	Samples Intact (Y) or N

Synergistic Pesticide Laboratory, LLC
Sample Receipt Checklist

Project # 20044
Date 7/14/20
Initials CH

Client Pace Minnesota
Method of Arrival: UPS (FedEx) USPS client delivered courier lab other
Tracking # 1320 7523 0689

Custody Seals Present: (Y) N
If yes: transport container sample container Signed: see back
Date: 7/13
Temperature (°C): -0.9 (IR) digital
Type of coolant: (ice) blue/gel ice other none

Are all samples present?	(Y)	N
Are samples intact?	(Y)	N
Documentation provided?	(COC)	SS Form Email Letter PO None Other:_____
Does sample information match documentation?	(Y)	N NA
Is the documentation signed?	(Y)	N NA
Are the samples within hold time?	(Y)	N NA
Is the sampling date provided?	(Y)	N
Is there sufficient sample volume?	(Y)	N
Are the samples in appropriate containers?	(Y)	N
Do the containers originate from SPL?	Y	(N)

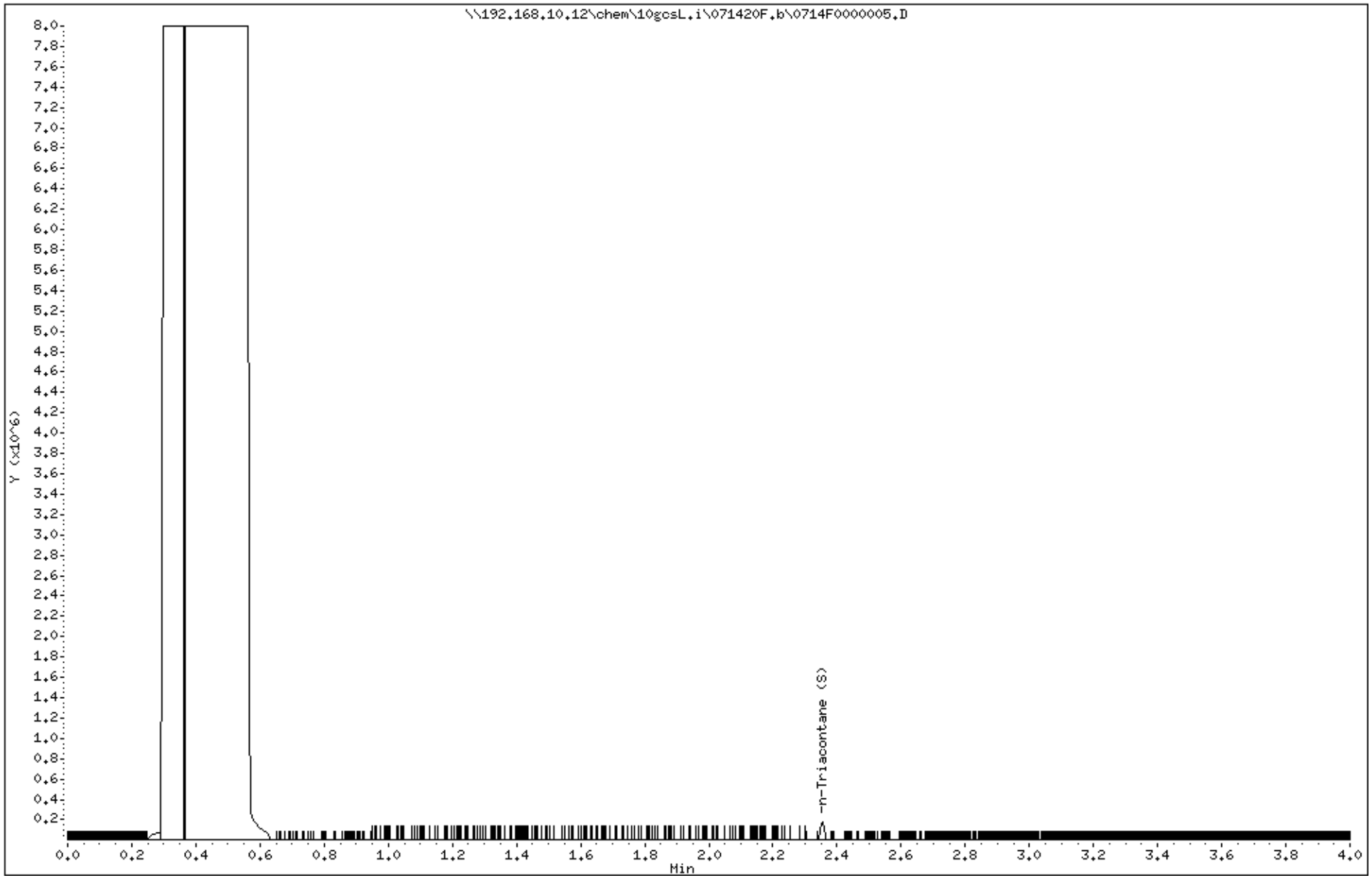
Sample Description:

#	Matrix	#	Container
3	BB CHRY FRESH EXT PREP OTHER:_____ RBB BLK IQF FLR (H2O) SOIL STRW RSP CANNED OIL FOLIAGE/TISSUE:_____	2	ZL-GAL WP-LG MY-LG POLY VIAL (1L AMB) 8OZ JAR ZL-SM WP-SM MY-SM GL VIAL 1 GAL POLY 4OZ JAR OTHER:_____ SYR WAX CENT TUBE SOIL BAG
	BB CHRY FRESH EXT PREP OTHER:_____ RBB BLK IQF FLR H2O SOIL STRW RSP CANNED OIL FOLIAGE/TISSUE:_____		ZL-GAL WP-LG MY-LG POLY VIAL 1L AMB 8OZ JAR ZL-SM WP-SM MY-SM GL VIAL 1 GAL POLY 4OZ JAR OTHER:_____ SYR WAX CENT TUBE SOIL BAG
	BB CHRY FRESH EXT PREP OTHER:_____ RBB BLK IQF FLR H2O SOIL STRW RSP CANNED OIL FOLIAGE/TISSUE:_____		ZL-GAL WP-LG MY-LG POLY VIAL 1L AMB 8OZ JAR ZL-SM WP-SM MY-SM GL VIAL 1 GAL POLY 4OZ JAR OTHER:_____ SYR WAX CENT TUBE SOIL BAG

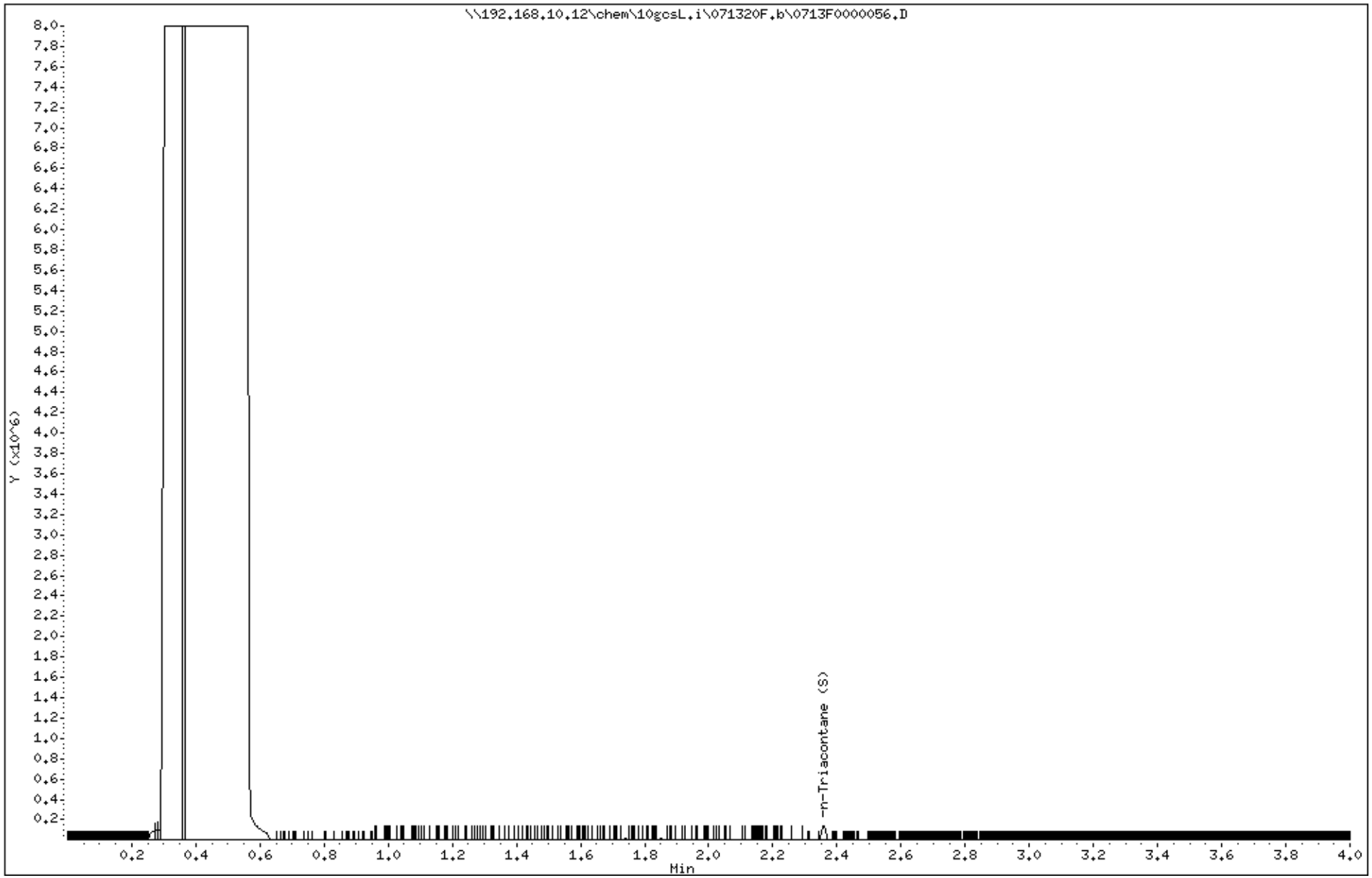
Comments:_____

SRC_R10_021020

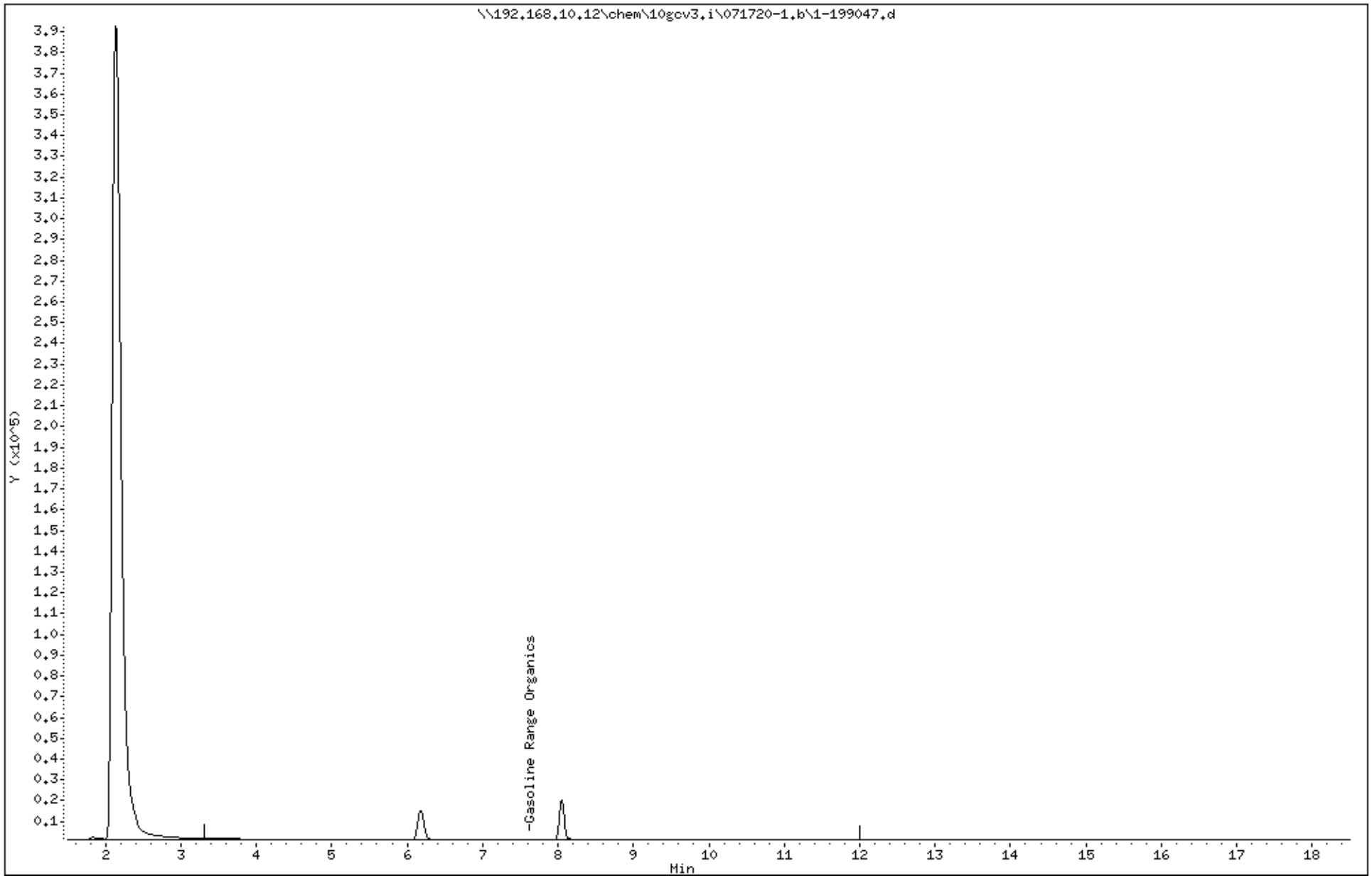
Data File: \\192.168.10.12\chem\10gcsL.i\071420F.b\0714F0000005.D
Date : 14-JUL-2020 08:00
Client ID: MW-2
Instrument: 10gcsL.i
Sample Info: 10524487003
Volume Injected (uL): 1.0
Operator: TT2
Column phase: DB-5-US20120014
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10gcsL.i\071320F.b\0713F0000056.D
Date : 13-JUL-2020 15:21
Client ID: DUP
Instrument: 10gcsL.i
Sample Info: 10524487005
Volume Injected (uL): 1.0
Operator: TT2
Column phase: DB-5-US20120014
Column diameter: 0.32

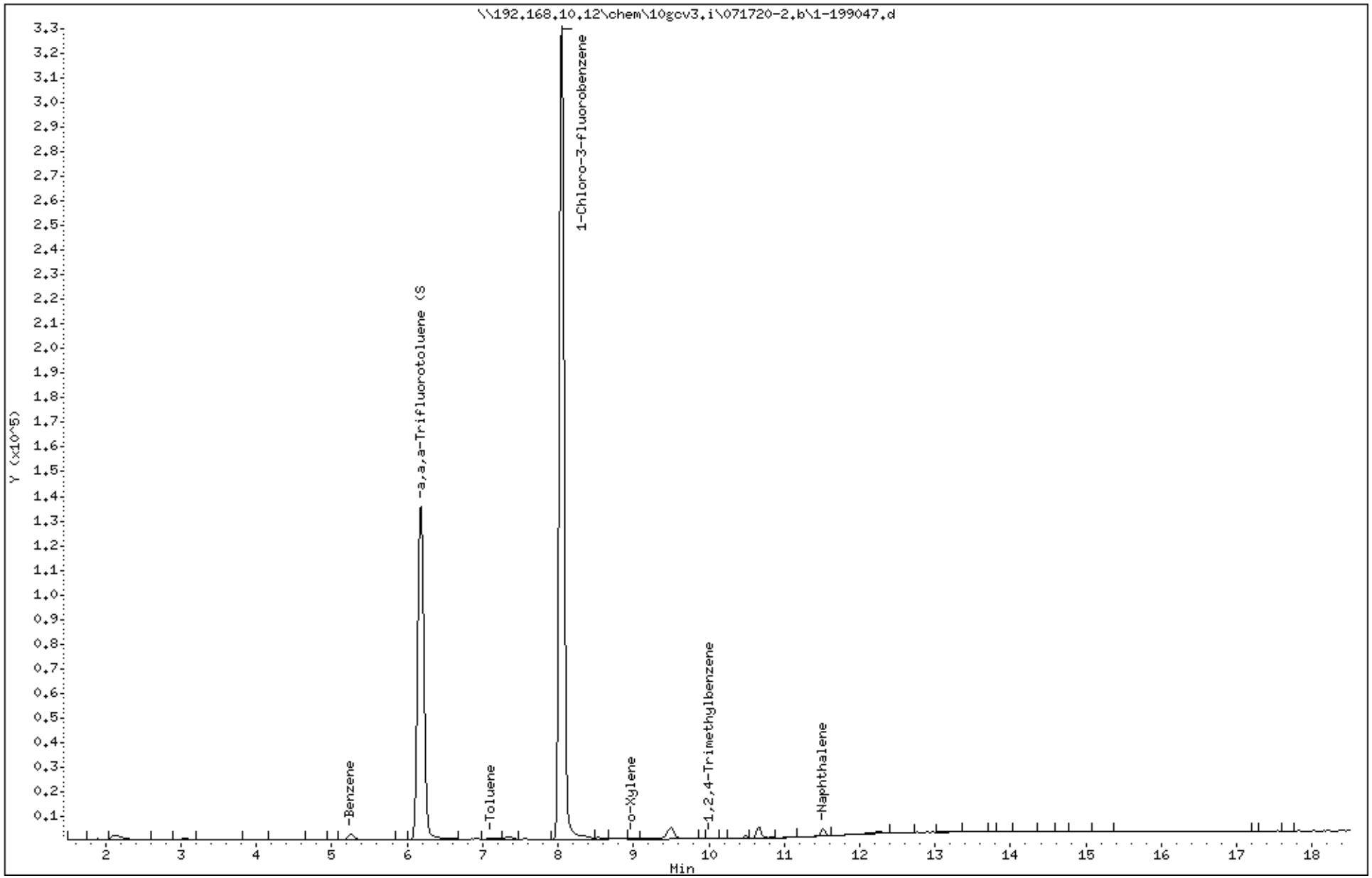


Data File: \\192.168.10.12\chem\10gcv3.i\071720-1.b\1-199047.d
Date : 18-JUL-2020 07:17
Client ID: MW-2
Instrument: 10gcv3.i
Sample Info: 10524487003,
Purge Volume: 5.0
Operator: AH2
Column phase: ZB-624 SN601464
Column diameter: 0.53

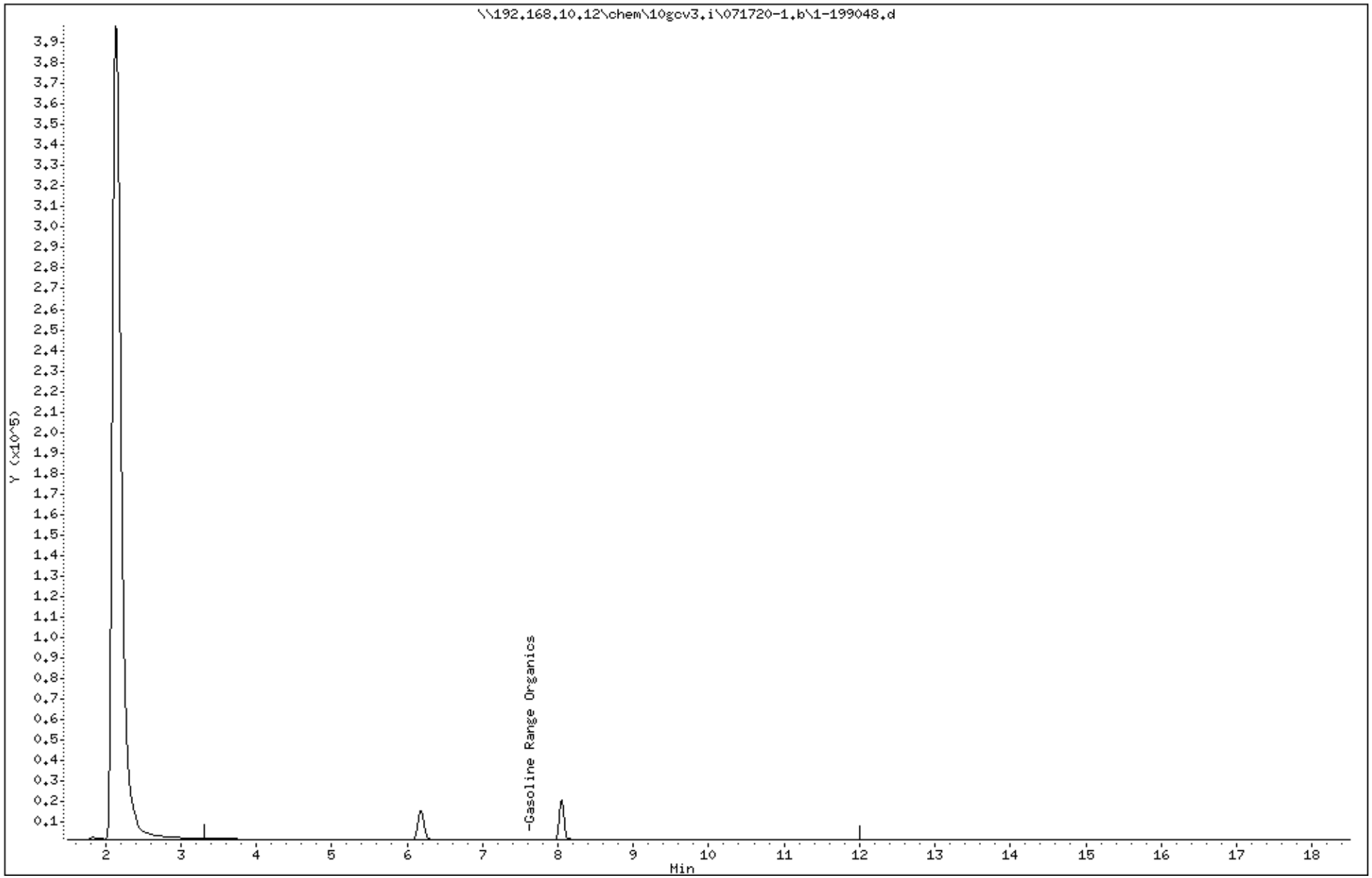


Data File: \\192.168.10.12\chem\10gcv3.i\071720-2.b\1-199047.d
Date : 18-JUL-2020 07:17
Client ID: MW-2
Sample Info: 10524487003,
Purge Volume: 5.0
Column phase: ZB-624 SN601464

Instrument: 10gcv3.i
Operator: AH2
Column diameter: 0.53

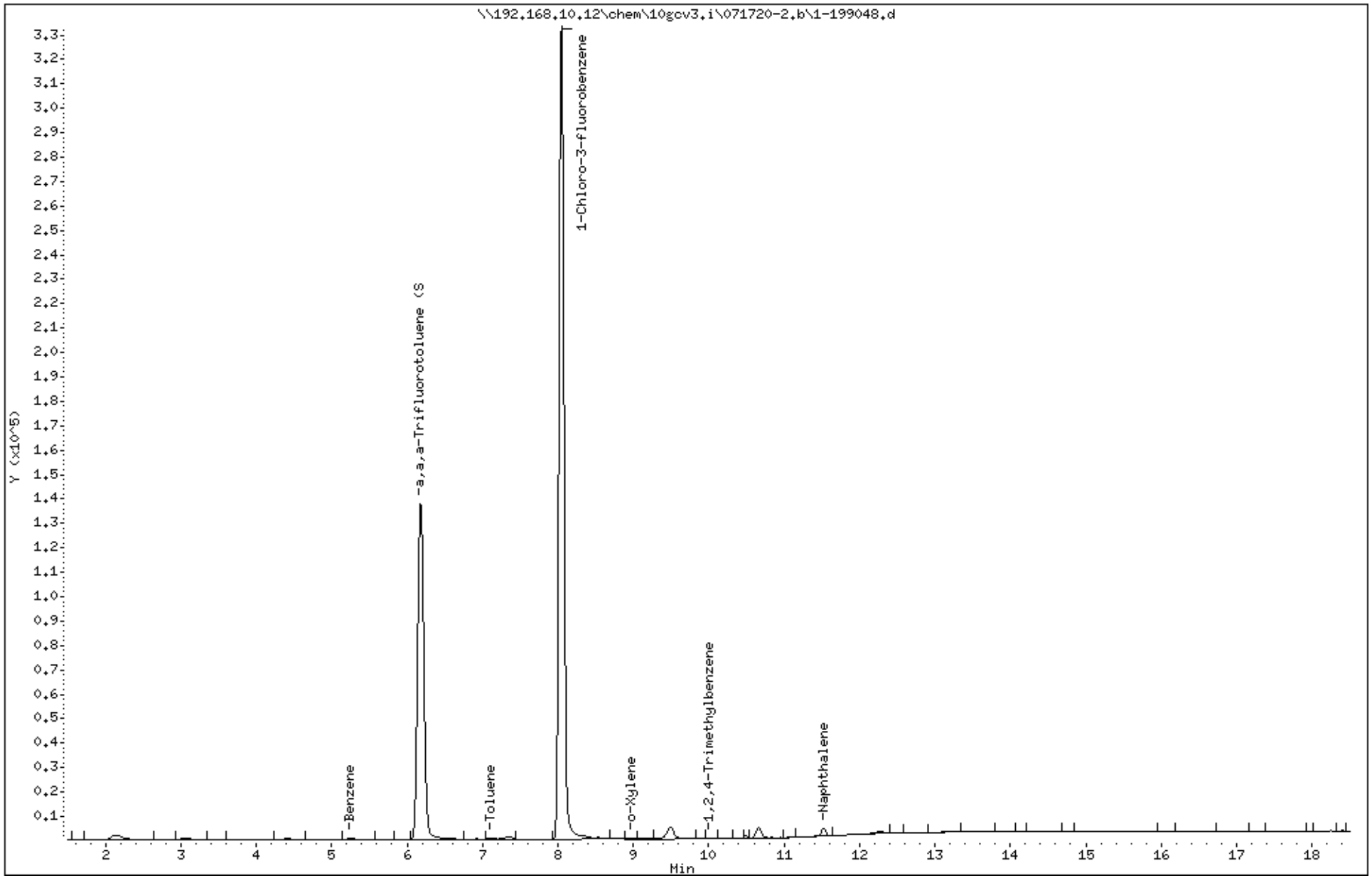


Data File: \\192.168.10.12\chem\10gcv3.i\071720-1.b\1-199048.d
Date : 18-JUL-2020 07:42
Client ID: DUP
Instrument: 10gcv3.i
Sample Info: 10524487005,
Purge Volume: 5.0
Operator: AH2
Column phase: ZB-624 SN601464
Column diameter: 0.53

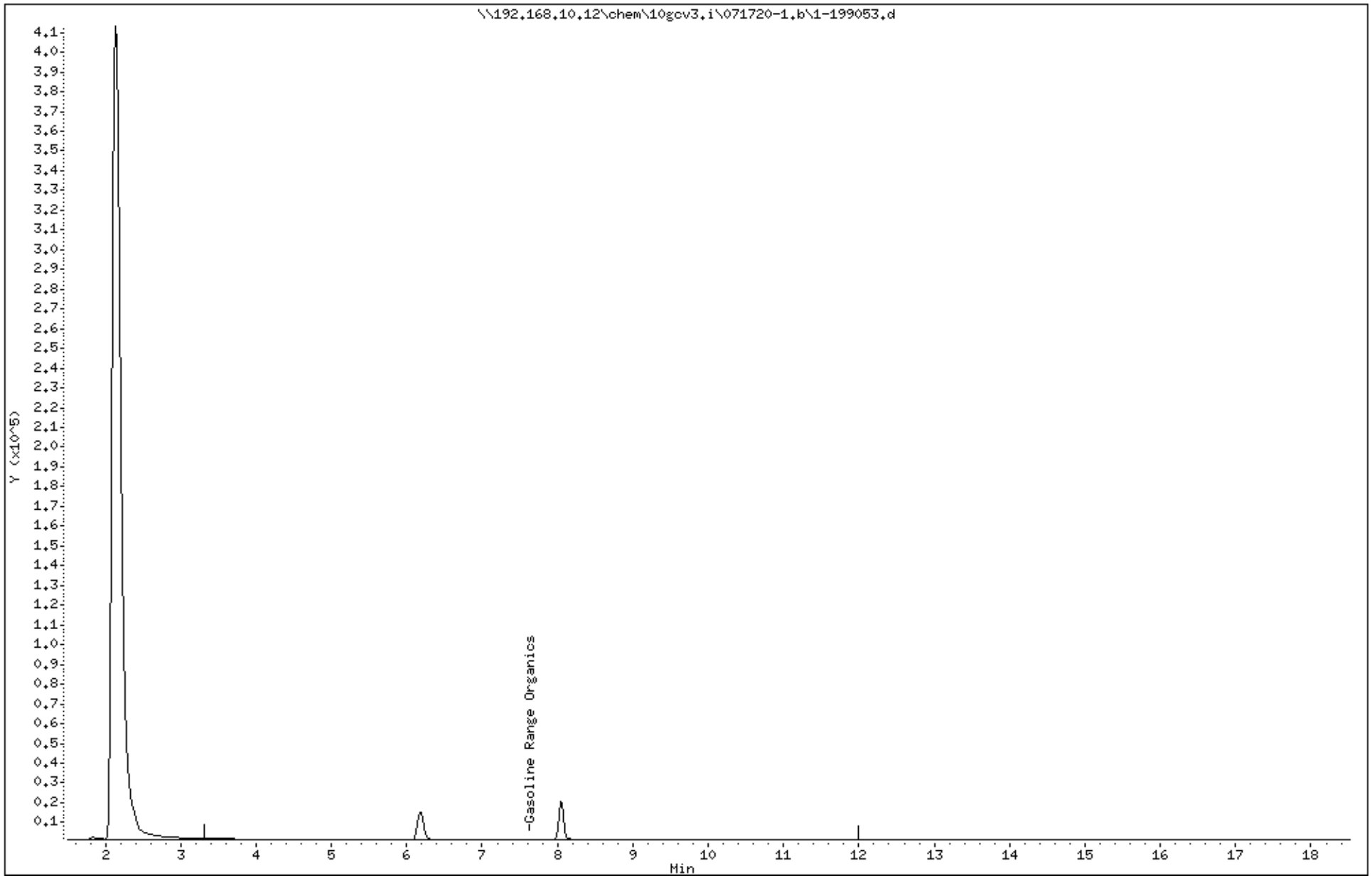


Data File: \\192.168.10.12\chem\10gcv3.i\071720-2.b\1-199048.d
Date : 18-JUL-2020 07:42
Client ID: DUP
Sample Info: 10524487005,
Purge Volume: 5.0
Column phase: ZB-624 SN601464

Instrument: 10gcv3.i
Operator: AH2
Column diameter: 0.53

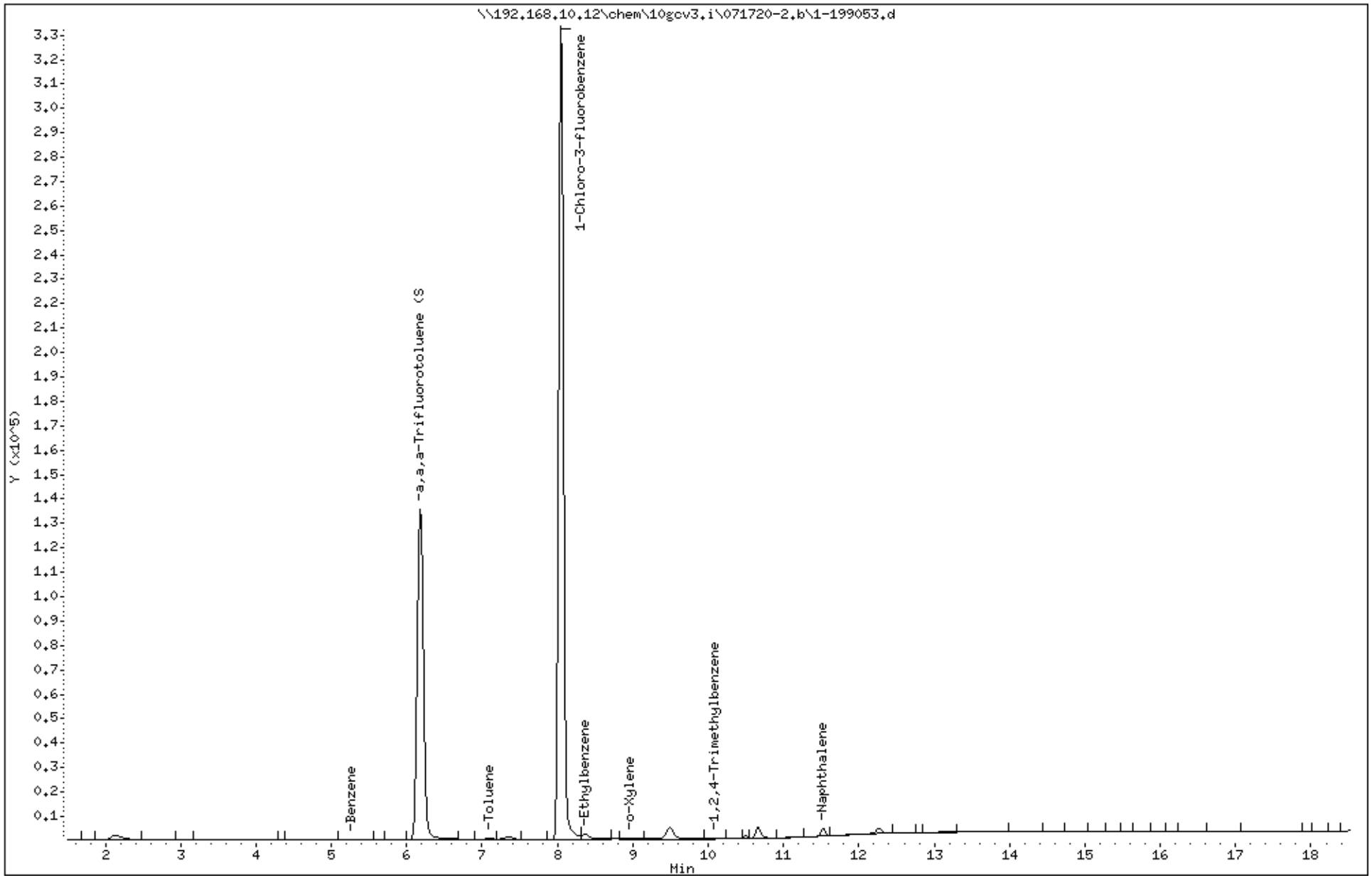


Data File: \\192.168.10.12\chem\10gcv3.i\071720-1.b\1-199053.d
Date : 18-JUL-2020 09:46
Client ID: Trip Blank
Instrument: 10gcv3.i
Sample Info: 10524487006,
Purge Volume: 5.0
Operator: AH2
Column phase: ZB-624 SN601464
Column diameter: 0.53



Data File: \\192.168.10.12\chem\10gcv3.i\071720-2.b\1-199053.d
Date : 18-JUL-2020 09:46
Client ID: Trip Blank
Sample Info: 10524487006,
Purge Volume: 5.0
Column phase: ZB-624 SN601464

Instrument: 10gcv3.i
Operator: AH2
Column diameter: 0.53



2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

July 20, 2020

Bob Michels
Pace Analytical
1700 Elm Street, Suite 200
Minneapolis, MN 55414

RE: B1903316.00 Hillcrest

Enclosed are the analytical results for the samples received by the laboratory on 07/14/2020.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. These results are in compliance with the 2009 NELAC Standards and the appropriate agencies listed below, unless otherwise noted in the case narrative. This analytical report should be reproduced in its entirety.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Molly Palzkill
Project Manager

Certification List			Expires
DODELAP	DOD ELAP Accreditation (A2LA)	3269.01	03/31/2021
ILEPA	Illinois Secondary NELAP Accreditation	004366	04/30/2021
KDHE	Kansas Secondary NELAP Accreditation	E-10384	04/30/2021
LELAP	Louisiana Primary NELAP Accreditation	04165	06/30/2021
NJDEP	New Jersey Secondary NELAP Accreditation	WI004	06/30/2021
TCEQ	Texas Secondary NELAP Accreditation	T104704504-16-7	11/30/2020
WDNR	Wisconsin Certification under NR 149	113289110	08/31/2020

Pace Analytical
ENVIRONMENTAL SCIENCES
MOBILE LAB SERVICES

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
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Pace Analytical	Project: B1903316.00 Hillcrest
1700 Elm Street, Suite 200	Project Number: 10524487
Minneapolis MN, 55414	Project Manager: Bob Michels

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW-1 (10524487001)	A202902-01	Water	07/10/2020	07/14/2020
MW-2 (10524487003)	A202902-02	Water	07/10/2020	07/14/2020
DUP (10524487005)	A202902-03	Water	07/10/2020	07/14/2020

CASE NARRATIVE

Sample Receipt Information:
Three samples were received on 07/14/2020. Samples were received in acceptable condition.

Please see the chain of custody (COC) document at the end of this report for additional information.

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Madison, WI 53718
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Pace Analytical	Project: B1903316.00 Hillcrest
1700 Elm Street, Suite 200	Project Number: 10524487
Minneapolis MN, 55414	Project Manager: Bob Michels

SW-1 (10524487001)

A202902-01 (Water)

Date Sampled
07/10/2020 16:00

Pace Analytical - Madison

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pesticides by LCMSMS						**Preparation Batch: A007153**			
2,4-D	ND	0.024	0.10	ug/L	1	07/16/2020	07/16/2020 18:37	EPA 8321B	
2,4-DB	ND	0.032	0.10	ug/L	1	07/16/2020	07/16/2020 18:37	EPA 8321B	
2,4,5-T	ND	0.030	0.10	ug/L	1	07/16/2020	07/16/2020 18:37	EPA 8321B	
2,4,5-TP (Silvex)	ND	0.016	0.10	ug/L	1	07/16/2020	07/16/2020 18:37	EPA 8321B	
Bentazon	ND	0.012	0.10	ug/L	1	07/16/2020	07/16/2020 18:37	EPA 8321B	M
Dicamba	ND	0.058	0.20	ug/L	1	07/16/2020	07/16/2020 18:37	EPA 8321B	M, X
MCPA	ND	0.022	0.10	ug/L	1	07/16/2020	07/16/2020 18:37	EPA 8321B	
Picloram	ND	0.048	0.20	ug/L	1	07/16/2020	07/16/2020 18:37	EPA 8321B	
Triclopyr	ND	0.031	0.10	ug/L	1	07/16/2020	07/16/2020 18:37	EPA 8321B	
Surrogate: 2,4-D-d5			*108 %*	*60-140*		*07/16/2020*	*07/16/2020 18:37*	*EPA 8321B*	
Surrogate: DCAA			*108 %*	*60-140*		*07/16/2020*	*07/16/2020 18:37*	*EPA 8321B*	

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Pace Analytical	Project: B1903316.00 Hillcrest
1700 Elm Street, Suite 200	Project Number: 10524487
Minneapolis MN, 55414	Project Manager: Bob Michels

MW-2 (10524487003)

A202902-02 (Water)

Date Sampled
07/10/2020 13:45

Pace Analytical - Madison

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pesticides by LCMSMS						**Preparation Batch: A007153**			
2,4-D	ND	0.024	0.10	ug/L	1	07/16/2020	07/16/2020 18:55	EPA 8321B	
2,4-DB	ND	0.032	0.10	ug/L	1	07/16/2020	07/16/2020 18:55	EPA 8321B	
2,4,5-T	ND	0.030	0.10	ug/L	1	07/16/2020	07/16/2020 18:55	EPA 8321B	
2,4,5-TP (Silvex)	ND	0.016	0.10	ug/L	1	07/16/2020	07/16/2020 18:55	EPA 8321B	
Bentazon	ND	0.012	0.10	ug/L	1	07/16/2020	07/16/2020 18:55	EPA 8321B	
Dicamba	ND	0.058	0.20	ug/L	1	07/16/2020	07/16/2020 18:55	EPA 8321B	
MCPA	ND	0.022	0.10	ug/L	1	07/16/2020	07/16/2020 18:55	EPA 8321B	
Picloram	ND	0.048	0.20	ug/L	1	07/16/2020	07/16/2020 18:55	EPA 8321B	
Triclopyr	ND	0.031	0.10	ug/L	1	07/16/2020	07/16/2020 18:55	EPA 8321B	
Surrogate: 2,4-D-d5			*101 %*	*60-140*		*07/16/2020*	*07/16/2020 18:55*	*EPA 8321B*	
Surrogate: DCAA			*114 %*	*60-140*		*07/16/2020*	*07/16/2020 18:55*	*EPA 8321B*	

Pace Analytical
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608.221.8700 Phone
608.221.4889 Fax

Pace Analytical	Project: B1903316.00 Hillcrest
1700 Elm Street, Suite 200	Project Number: 10524487
Minneapolis MN, 55414	Project Manager: Bob Michels

DUP (10524487005)

A202902-03 (Water)

Date Sampled
07/10/2020 12:00

Pace Analytical - Madison

Pesticides by LCMSMS — **Preparation Batch: A007153**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
2,4-D	**0.074**	0.024	0.10	ug/L	1	07/16/2020	07/16/2020 19:13	EPA 8321B	J
2,4-DB	**0.073**	0.032	0.10	ug/L	1	07/16/2020	07/16/2020 19:13	EPA 8321B	J
2,4,5-T	**0.071**	0.030	0.10	ug/L	1	07/16/2020	07/16/2020 19:13	EPA 8321B	J
2,4,5-TP (Silvex)	**0.070**	0.016	0.10	ug/L	1	07/16/2020	07/16/2020 19:13	EPA 8321B	J
Bentazon	**0.022**	0.012	0.10	ug/L	1	07/16/2020	07/16/2020 19:13	EPA 8321B	J
Dicamba	ND	0.058	0.20	ug/L	1	07/16/2020	07/16/2020 19:13	EPA 8321B	
MCPA	**0.082**	0.022	0.10	ug/L	1	07/16/2020	07/16/2020 19:13	EPA 8321B	J
Picloram	**0.15**	0.048	0.20	ug/L	1	07/16/2020	07/16/2020 19:13	EPA 8321B	J
Triclopyr	**0.058**	0.031	0.10	ug/L	1	07/16/2020	07/16/2020 19:13	EPA 8321B	J
Surrogate: 2,4-D-d5			*117 %*	*60-140*		*07/16/2020*	*07/16/2020 19:13*	*EPA 8321B*	
Surrogate: DCAA			*119 %*	*60-140*		*07/16/2020*	*07/16/2020 19:13*	*EPA 8321B*	

Pace Analytical
ENVIRONMENTAL SCIENCES
MOBILE LAB SERVICES

2525 Advance Road
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Pace Analytical	Project: B1903316.00 Hillcrest
1700 Elm Street, Suite 200	Project Number: 10524487
Minneapolis MN, 55414	Project Manager: Bob Michels

Pesticides by LCMSMS - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A007153 - EPA 3535 (SPE)										
Blank (A007153-BLK1)				Prepared: 07/16/2020 Analyzed: 07/16/2020 17:25						
2,4-D	ND	0.10	ug/L							
2,4-DB	ND	0.10	ug/L							
2,4,5-T	ND	0.10	ug/L							
2,4,5-TP (Silvex)	ND	0.10	ug/L							
Bentazon	ND	0.10	ug/L							
Dicamba	ND	0.20	ug/L							
MCPA	ND	0.10	ug/L							
Picloram	ND	0.20	ug/L							
Triclopyr	ND	0.10	ug/L							
Surrogate: 2,4-D-d5	*3.78*		*ug/L*	*3.378*		*112*	*60-140*			
Surrogate: DCAA	*6.73*		*ug/L*	*6.750*		*99.7*	*60-140*			
LCS (A007153-BS1)				Prepared: 07/16/2020 Analyzed: 07/16/2020 17:43						
2,4-D	3.60	0.10	ug/L	3.375		107	60-140			
2,4-DB	3.65	0.10	ug/L	3.375		108	60-140			
2,4,5-T	3.80	0.10	ug/L	3.375		113	60-140			
2,4,5-TP (Silvex)	3.82	0.10	ug/L	3.375		113	60-140			
Bentazon	1.77	0.10	ug/L	1.688		105	60-140			E
Dicamba	7.42	0.20	ug/L	6.750		110	60-140			
MCPA	3.71	0.10	ug/L	3.375		110	60-140			
Picloram	7.27	0.20	ug/L	6.750		108	60-140			
Triclopyr	3.89	0.10	ug/L	3.375		115	60-140			
Surrogate: 2,4-D-d5	*3.57*		*ug/L*	*3.378*		*106*	*60-140*			
Surrogate: DCAA	*6.92*		*ug/L*	*6.750*		*102*	*60-140*			
Matrix Spike (A007153-MS1)	**Source: A202902-01**			Prepared: 07/16/2020 Analyzed: 07/16/2020 18:01						
2,4-D	3.20	0.10	ug/L	3.375	ND	94.7	60-140			
2,4-DB	3.63	0.10	ug/L	3.375	ND	108	60-140			
2,4,5-T	3.21	0.10	ug/L	3.375	ND	95.3	60-140			
2,4,5-TP (Silvex)	3.90	0.10	ug/L	3.375	ND	116	60-140			
Bentazon	0.846	0.10	ug/L	1.688	ND	50.1	60-140			M
Dicamba	3.54	0.20	ug/L	6.750	ND	52.4	60-140			M
MCPA	3.68	0.10	ug/L	3.375	ND	109	60-140			
Picloram	4.93	0.20	ug/L	6.750	ND	73.1	60-140			
Triclopyr	3.36	0.10	ug/L	3.375	ND	99.6	60-140			
Surrogate: 2,4-D-d5	*3.52*		*ug/L*	*3.378*		*104*	*60-140*			
Surrogate: DCAA	*8.24*		*ug/L*	*6.750*		*122*	*60-140*			

Pace Analytical
ENVIRONMENTAL SCIENCES
MOBILE LAB SERVICES

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

Pace Analytical	Project: B1903316.00 Hillcrest
1700 Elm Street, Suite 200	Project Number: 10524487
Minneapolis MN, 55414	Project Manager: Bob Michels

Pesticides by LCMSMS - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A007153 - EPA 3535 (SPE)										
Matrix Spike Dup (A007153-MSD1)	**Source: A202902-01**			Prepared: 07/16/2020 Analyzed: 07/16/2020 18:19						
2,4-D	3.08	0.10	ug/L	3.375	ND	91.4	60-140	3.56	20	
2,4-DB	3.49	0.10	ug/L	3.375	ND	104	60-140	3.83	20	
2,4,5-T	2.87	0.10	ug/L	3.375	ND	85.0	60-140	11.4	20	
2,4,5-TP (Silvex)	3.97	0.10	ug/L	3.375	ND	118	60-140	1.67	20	
Bentazon	1.01	0.10	ug/L	1.688	ND	59.9	60-140	17.8	20	M
Dicamba	2.53	0.20	ug/L	6.750	ND	37.5	60-140	33.0	20	M, X
MCPA	3.43	0.10	ug/L	3.375	ND	102	60-140	7.10	20	
Picloram	4.17	0.20	ug/L	6.750	ND	61.7	60-140	16.8	20	
Triclopyr	3.16	0.10	ug/L	3.375	ND	93.6	60-140	6.20	20	
Surrogate: 2,4-D-d5	*3.07*		*ug/L*	*3.378*		*91.0*	*60-140*			
Surrogate: DCAA	*7.42*		*ug/L*	*6.750*		*110*	*60-140*			

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2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

Pace Analytical	Project: B1903316.00 Hillcrest
1700 Elm Street, Suite 200	Project Number: 10524487
Minneapolis MN, 55414	Project Manager: Bob Michels

Notes and Definitions

X	Precision for the matrix spike duplicate, laboratory control sample duplicate or lab duplicate was outside of control limits.
M	The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory control limits.
J	Analyte was detected but is below the reporting limit. The concentration is estimated.
E	The concentration indicated is above the instrument calibration range. This value is an estimated concentration.
ND	Analyte NOT DETECTED at or above the reporting limit or limit of detection (if listed).
NR	Not Reported
dry	Sample results reported on a dry weight basis. Detection limits (if listed) and reporting limits have been adjusted for the solids content. If the word 'dry' does not appear after the units, results are reported on an as-is basis.
RPD	Relative Percent Difference

Detection limits (if listed) and reporting limits have been adjusted for dilutions, if reported.

Internal Transfer Chain of Custody

☐ Samples Pre-Logged into eCOC.

A202902

State Of Origin: MN
Cert. Needed: [X] Yes [ ] No

Pace Analytical®
www.pacelabs.com

Workorder: 10524487 **Workorder Name:** B1903316.00 Former Hillcrest
Owner Received Date: 7/10/2020 **Results Requested By:** 7/24/2020

Report To	Subcontract To
Bob Michels Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)709-5046	Pace Analytical Madison 2525 Advance Road Madison, WI 53718 Phone (608)221-8700

AG1U

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	MDA List 2 Pesticides	LAB USE ONLY
1	SW-1	PS	7/10/2020 16:00	10524487001	Water	2	X	01
2	MW-2	PS	7/10/2020 13:45	10524487003	Water	2	X	02
3	DUP	PS	7/10/2020 12:00	10524487005	Water	2	X	03
4								
5								

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	7/12/20 1530	[signature]	7/14/20 10:30
2				
3				

Comments

Cooler Temperature on Receipt 1.9 °C | **Custody Seal** (Y) or N | **Received on Ice** (Y) or N | **Samples Intact** (Y) or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.*

This chain of custody is considered complete as is since this information is available in the owner laboratory.

SIN 160192274
Exp 12/19/20

Page 9 of 9 A202902 FINAL 07 20 2020 1520

Synergistic Pesticide Laboratory LLC
2700B N. Hayden Island Dr.
Portland, OR 97217
Lab: 503-641-0500
Fax: 503-954-3073
info@synpestlab.com

Client Name: Pace Analytical Minnesota
Client Address: 1700 Elm Street, Ste 200
Minneapolis, MN 55414
Client Phone: 612-709-5046

Date: 7/24/20
SPL Project #: 20 044
Client Project #: 10524487

SAMPLE RESULTS:

SPL ID: **20 044-01**
Sample ID: 10524487001 (SW-1)
Matrix: WATER
Method: **Chlorothalonil, Iprodione & Propiconazole Analysis (QuEChERS 15662, EPA 8321B, EPA 8270E)**
Units: ppb (µg/L)

Date Sampled: 7/10/20
Date Received: 7/14/20
Date Extracted: 7/15/20
Date Analyzed: 7/22-7/23/20

Analyte	Class	Result	RL
Chlorothalonil	F	nd	0.05
Iprodione	F	nd	0.10
Propiconazole	F	nd	0.05
Decachlorobiphenyl (Surrogate)	---	99%	---
Fenbuconazole (Surrogate)	---	90%	---

SPL ID: **20 044-02**
Sample ID: 10524487003 (MW-2)
Matrix: WATER
Method: **Chlorothalonil, Iprodione & Propiconazole Analysis (QuEChERS 15662, EPA 8321B, EPA 8270E)**
Units: ppb (µg/L)

Date Sampled: 7/10/20
Date Received: 7/14/20
Date Extracted: 7/15/20
Date Analyzed: 7/22-7/23/20

Analyte	Class	Result	RL
Chlorothalonil	F	nd	0.05
Iprodione	F	nd	0.10
Propiconazole	F	nd	0.05
Decachlorobiphenyl (Surrogate)	---	112%	---
Fenbuconazole (Surrogate)	---	88%	---

Synergistic Pesticide Laboratory LLC
2700B N. Hayden Island Dr.
Portland, OR 97217
Lab: 503-641-0500
Fax: 503-954-3073
info@synpestlab.com

Client Name:	Pace Analytical Minnesota	**Date:**	7/24/20
Client Address:	1700 Elm Street, Ste 200	**SPL Project #:**	20 044
	Minneapolis, MN 55414	**Client Project #:**	10524487
Client Phone:	612-709-5046		

SAMPLE RESULTS:

SPL ID:	**20 044-03**	**Date Sampled:**	7/10/20
Sample ID:	10524487005 (DUP)	**Date Received:**	7/14/20
Matrix:	WATER		
Method:	**Chlorothalonil, Iprodione & Propiconazole Analysis (QuEChERS 15662, EPA 8321B, EPA 8270E)**	**Date Extracted:**	7/15/20
Units:	ppb (µg/L)	**Date Analyzed:**	7/22-7/23/20

Analyte	Class	Result	RL
Chlorothalonil	F	nd	0.05
Iprodione	F	nd	0.10
Propiconazole	F	nd	0.05
Decachlorobiphenyl (Surrogate)	---	99%	---
Fenbuconazole (Surrogate)	---	90%	---

Synergistic Pesticide Laboratory LLC
2700B N. Hayden Island Dr.
Portland, OR 97217
Lab: 503-641-0500
Fax: 503-954-3073
info@synpestlab.com

Client Name: Pace Analytical Minnesota
Client Address: 1700 Elm Street, Ste 200
Minneapolis, MN 55414
Client Phone: 612-709-5046

Date: 7/24/20
SPL Project #: 20 044
Client Project #: 10524487

QUALITY CONTROL RESULTS:

Method: **Chlorothalonil, Iprodione & Propiconazole Analysis (EPA 3510C, EPA 8321B, EPA 8270E)**
Units: ppb (µg/L)
Matrix: WATER

Date Extracted: 7/15/20
Date Analyzed: 7/22-7/23/20

20 049 MB

Analyte	Amt Spiked	Result	Percent Recovery
Chlorothalonil	---	nd	---
Iprodione	---	nd	---
Propiconazole	---	nd	---
Decachlorobiphenyl (Surrogate)	0.1	0.147	74%
Fenbuconazole (Surrogate)	0.1	0.181	91%

20 049 LCS

Analyte	Amt Spiked	Result	Percent Recovery
Chlorothalonil	1.0	1.38	138%
Iprodione	2.0	2.00	100%
Propiconazole	1.0	0.987	99%
Decachlorobiphenyl (Surrogate)	0.1	0.190	95%
Fenbuconazole (Surrogate)	0.1	0.186	93%

20 049 LCSD

Analyte	Amt Spiked	Result	Percent Recovery
Chlorothalonil	1.0	1.51	151%
Iprodione	2.0	1.94	97%
Propiconazole	1.0	0.950	95%
Decachlorobiphenyl (Surrogate)	0.1	0.194	97%
Fenbuconazole (Surrogate)	0.1	0.183	91%

Synergistic Pesticide Laboratory LLC
2700B N. Hayden Island Dr.
Portland, OR 97217
Lab: 503-641-0500
Fax: 503-954-3073
info@synpestlab.com

Client Name:	Pace Analytical Minnesota	**Date:**	7/24/20
Client Address:	1700 Elm Street, Ste 200	**SPL Project #:**	20 044
	Minneapolis, MN 55414	**Client Project #:**	10524487
Client Phone:	612-709-5046		

Laboratory Report Definitions

F – Fungicide
LCL – Lower Control Limit – acceptance criteria based on the mean minus three times the standard deviation of a data set
LCS – Laboratory Control Sample – prepared from analyte free water or sand and spiked with known amount of analytes for the purpose of measuring the effect of the reagents used in extraction or analysis
LCSD – Laboratory Control Sample Duplicate
MS – Matrix Spike – prepared from additional sample and spiked with known amount of analytes for the purpose of measuring the effect of the sample matrix on analysis
MSD – Matrix Spike Duplicate
MB – Method Blank – shows any interference in extraction method
nd – non detect – substance not found above the reporting limit
ppb – parts per billion
ppm – parts per million
RL – Reporting Limit – the minimum amount of a substance that can be reported with confidence
UCL – Upper Control Limit – acceptance criteria based on the mean plus three times the standard deviation of a data set

Results provided relate to submitted samples only. Unless otherwise noted, samples were received in good condition and all Quality Control samples met acceptance criteria. Quality Control data is available upon request. This report shall not be reproduced, except in full, without the permission of Synergistic Pesticide Laboratory, LLC.

Authorized by:_____ Date: 7/24/2020

Camille Holladay
Lab Director

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

July 17, 2020

Mark Keefer
Braun Intertec
11001 Hampshire Ave S
Bloomington, MN 55438

RE: Project: B1903316.00 Former Hillcrest G
Pace Project No.: 10524997

Dear Mark Keefer:

Enclosed are the analytical results for sample(s) received by the laboratory on July 15, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bob Michels
bob.michels@pacelabs.com
(612)709-5046
Project Manager

Enclosures

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: B1903316.00 Former Hillcrest G
Pace Project No.: 10524997

Pace Analytical Services - Minneapolis MN

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: B1903316.00 Former Hillcrest G
Pace Project No.: 10524997

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10524997001	**Soil 1-0-0.5**	Solid	07/15/20 09:30	07/15/20 16:00
10524997002	**Soil 1-1-1.5**	Solid	07/15/20 09:35	07/15/20 16:00
10524997003	**SED 1A (0-0.5)**	Solid	07/15/20 11:50	07/15/20 16:00
10524997004	**SED 2A (0-0.5)**	Solid	07/15/20 12:00	07/15/20 16:00
10524997005	**SED 3A (0-0.5)**	Solid	07/15/20 11:40	07/15/20 16:00
10524997006	**SED 4A (0-0.5)**	Solid	07/15/20 10:40	07/15/20 16:00
10524997007	**SED 4A (1-1.5)**	Solid	07/15/20 10:45	07/15/20 16:00
10524997008	**SED 7A (0-0.5)**	Solid	07/15/20 09:00	07/15/20 16:00
10524997009	**SED 7B (0-0.5)**	Solid	07/15/20 09:20	07/15/20 16:00
10524997010	**SED 7C (0-0.5)**	Solid	07/15/20 09:40	07/15/20 16:00
10524997011	**SED 7C (1-1.5)**	Solid	07/15/20 09:45	07/15/20 16:00
10524997012	**SED 7D (0-0.5)**	Solid	07/15/20 10:05	07/15/20 16:00
10524997013	**SED 7D (1-1.5)**	Solid	07/15/20 10:10	07/15/20 16:00

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(612)607-1700

SAMPLE ANALYTE COUNT

Project: B1903316.00 Former Hillcrest G
Pace Project No.: 10524997

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10524997001	**Soil 1-0-0.5**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10524997002	**Soil 1-1-1.5**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10524997003	**SED 1A (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10524997004	**SED 2A (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10524997005	**SED 3A (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10524997006	**SED 4A (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10524997007	**SED 4A (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10524997008	**SED 7A (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10524997009	**SED 7B (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10524997010	**SED 7C (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10524997011	**SED 7C (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10524997012	**SED 7D (0-0.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10524997013	**SED 7D (1-1.5)**	EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

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Minneapolis, MN 55414
(612)607-1700

SUMMARY OF DETECTION

Project: B1903316.00 Former Hillcrest G
Pace Project No.: 10524997

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10524997001	**Soil 1-0-0.5**					
EPA 7471B	Mercury	0.10	mg/kg	0.025	07/17/20 11:14	
ASTM D2974	Percent Moisture	27.1	%	0.10	07/16/20 15:34	N2
10524997002	**Soil 1-1-1.5**					
EPA 7471B	Mercury	0.034	mg/kg	0.023	07/17/20 11:16	
ASTM D2974	Percent Moisture	14.7	%	0.10	07/16/20 15:34	N2
10524997003	**SED 1A (0-0.5)**					
EPA 7471B	Mercury	0.23	mg/kg	0.023	07/17/20 11:23	
ASTM D2974	Percent Moisture	14.4	%	0.10	07/16/20 16:06	N2
10524997004	**SED 2A (0-0.5)**					
EPA 7471B	Mercury	0.59	mg/kg	0.023	07/17/20 11:26	
ASTM D2974	Percent Moisture	16.6	%	0.10	07/16/20 16:07	N2
10524997005	**SED 3A (0-0.5)**					
EPA 7471B	Mercury	0.044	mg/kg	0.021	07/17/20 11:28	
ASTM D2974	Percent Moisture	11.8	%	0.10	07/16/20 16:07	N2
10524997006	**SED 4A (0-0.5)**					
EPA 7471B	Mercury	0.16	mg/kg	0.024	07/17/20 11:31	
ASTM D2974	Percent Moisture	17.8	%	0.10	07/16/20 16:07	N2
10524997007	**SED 4A (1-1.5)**					
EPA 7471B	Mercury	0.19	mg/kg	0.024	07/17/20 11:34	
ASTM D2974	Percent Moisture	15.8	%	0.10	07/16/20 16:07	N2
10524997008	**SED 7A (0-0.5)**					
EPA 7471B	Mercury	0.12	mg/kg	0.025	07/17/20 11:36	
ASTM D2974	Percent Moisture	22.0	%	0.10	07/16/20 16:07	N2
10524997009	**SED 7B (0-0.5)**					
EPA 7471B	Mercury	11.9	mg/kg	0.52	07/17/20 11:42	
ASTM D2974	Percent Moisture	31.6	%	0.10	07/16/20 16:07	N2
10524997010	**SED 7C (0-0.5)**					
EPA 7471B	Mercury	1.1	mg/kg	0.026	07/17/20 11:45	
ASTM D2974	Percent Moisture	24.2	%	0.10	07/16/20 16:08	N2
10524997011	**SED 7C (1-1.5)**					
EPA 7471B	Mercury	0.21	mg/kg	0.027	07/17/20 11:52	
ASTM D2974	Percent Moisture	28.0	%	0.10	07/16/20 16:08	N2
10524997012	**SED 7D (0-0.5)**					
EPA 7471B	Mercury	0.28	mg/kg	0.024	07/17/20 11:54	
ASTM D2974	Percent Moisture	19.3	%	0.10	07/16/20 16:08	N2
10524997013	**SED 7D (1-1.5)**					
EPA 7471B	Mercury	0.16	mg/kg	0.021	07/17/20 11:57	
ASTM D2974	Percent Moisture	12.6	%	0.10	07/16/20 16:08	N2

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: B1903316.00 Former Hillcrest G
Pace Project No.: 10524997

Method: **EPA 7471B**
Description: 7471B Mercury
Client: Braun Intertec Corporation
Date: July 17, 2020

General Information:
13 samples were analyzed for EPA 7471B by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7471B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: B1903316.00 Former Hillcrest G
Pace Project No.: 10524997

Sample: Soil 1-0-0.5 **Lab ID: 10524997001** Collected: 07/15/20 09:30 Received: 07/15/20 16:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.10**	mg/kg	0.025	1	07/16/20 10:49	07/17/20 11:14	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**27.1**	%	0.10	1		07/16/20 15:34		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Former Hillcrest G
Pace Project No.: 10524997

Sample: Soil 1-1-1.5 **Lab ID: 10524997002** Collected: 07/15/20 09:35 Received: 07/15/20 16:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.034**	mg/kg	0.023	1	07/16/20 10:49	07/17/20 11:16	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**14.7**	%	0.10	1		07/16/20 15:34		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Former Hillcrest G
Pace Project No.: 10524997

Sample: SED 1A (0-0.5) **Lab ID: 10524997003** Collected: 07/15/20 11:50 Received: 07/15/20 16:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.23**	mg/kg	0.023	1	07/16/20 10:49	07/17/20 11:23	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**14.4**	%	0.10	1		07/16/20 16:06		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Former Hillcrest G
Pace Project No.: 10524997

Sample: SED 2A (0-0.5) **Lab ID: 10524997004** Collected: 07/15/20 12:00 Received: 07/15/20 16:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.59**	mg/kg	0.023	1	07/16/20 10:49	07/17/20 11:26	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**16.6**	%	0.10	1		07/16/20 16:07		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Former Hillcrest G
Pace Project No.: 10524997

Sample: SED 3A (0-0.5) **Lab ID: 10524997005** Collected: 07/15/20 11:40 Received: 07/15/20 16:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.044**	mg/kg	0.021	1	07/16/20 10:49	07/17/20 11:28	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**11.8**	%	0.10	1		07/16/20 16:07		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Former Hillcrest G
Pace Project No.: 10524997

Sample: SED 4A (0-0.5) **Lab ID: 10524997006** Collected: 07/15/20 10:40 Received: 07/15/20 16:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.16**	mg/kg	0.024	1	07/16/20 10:49	07/17/20 11:31	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**17.8**	%	0.10	1		07/16/20 16:07		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Former Hillcrest G
Pace Project No.: 10524997

Sample: SED 4A (1-1.5) **Lab ID: 10524997007** Collected: 07/15/20 10:45 Received: 07/15/20 16:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.19**	mg/kg	0.024	1	07/16/20 10:49	07/17/20 11:34	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**15.8**	%	0.10	1		07/16/20 16:07		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Former Hillcrest G
Pace Project No.: 10524997

Sample: SED 7A (0-0.5) **Lab ID: 10524997008** Collected: 07/15/20 09:00 Received: 07/15/20 16:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.12**	mg/kg	0.025	1	07/16/20 10:49	07/17/20 11:36	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**22.0**	%	0.10	1		07/16/20 16:07		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Former Hillcrest G
Pace Project No.: 10524997

Sample: SED 7B (0-0.5) **Lab ID: 10524997009** Collected: 07/15/20 09:20 Received: 07/15/20 16:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**11.9**	mg/kg	0.52	20	07/16/20 10:49	07/17/20 11:42	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**31.6**	%	0.10	1		07/16/20 16:07		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Former Hillcrest G
Pace Project No.: 10524997

Sample: SED 7C (0-0.5) **Lab ID: 10524997010** Collected: 07/15/20 09:40 Received: 07/15/20 16:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**1.1**	mg/kg	0.026	1	07/16/20 10:49	07/17/20 11:45	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**24.2**	%	0.10	1		07/16/20 16:08		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Former Hillcrest G
Pace Project No.: 10524997

Sample: SED 7C (1-1.5) **Lab ID: 10524997011** Collected: 07/15/20 09:45 Received: 07/15/20 16:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.21**	mg/kg	0.027	1	07/16/20 10:49	07/17/20 11:52	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**28.0**	%	0.10	1		07/16/20 16:08		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Former Hillcrest G
Pace Project No.: 10524997

Sample: SED 7D (0-0.5) **Lab ID: 10524997012** Collected: 07/15/20 10:05 Received: 07/15/20 16:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.28**	mg/kg	0.024	1	07/16/20 10:49	07/17/20 11:54	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**19.3**	%	0.10	1		07/16/20 16:08		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Former Hillcrest G
Pace Project No.: 10524997

Sample: SED 7D (1-1.5) **Lab ID: 10524997013** Collected: 07/15/20 10:10 Received: 07/15/20 16:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.16**	mg/kg	0.021	1	07/16/20 10:49	07/17/20 11:57	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**12.6**	%	0.10	1		07/16/20 16:08		N2

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QUALITY CONTROL DATA

Project: B1903316.00 Former Hillcrest G
Pace Project No.: 10524997

QC Batch: 687121 | Analysis Method: EPA 7471B
QC Batch Method: EPA 7471B | Analysis Description: 7471B Mercury Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10524997001, 10524997002, 10524997003, 10524997004, 10524997005, 10524997006, 10524997007, 10524997008, 10524997009, 10524997010, 10524997011, 10524997012, 10524997013

METHOD BLANK: 3674524 Matrix: Solid
Associated Lab Samples: 10524997001, 10524997002, 10524997003, 10524997004, 10524997005, 10524997006, 10524997007, 10524997008, 10524997009, 10524997010, 10524997011, 10524997012, 10524997013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.019	07/17/20 10:59	

LABORATORY CONTROL SAMPLE: 3674525

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.44	0.45	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3674526 3674527

Parameter	Units	10524989001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	ND	0.51	0.49	0.51	0.49	99	98	80-120	4	20	

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QUALITY CONTROL DATA

Project: B1903316.00 Former Hillcrest G
Pace Project No.: 10524997

QC Batch: 687252
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10524997001, 10524997002

SAMPLE DUPLICATE: 3675576

Parameter	Units	10524098001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	25.9	25.0	3	30	N2

SAMPLE DUPLICATE: 3675577

Parameter	Units	10524997001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	27.1	26.4	2	30	N2

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QUALITY CONTROL DATA

Project: B1903316.00 Former Hillcrest G
Pace Project No.: 10524997

QC Batch: 687329
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10524997003, 10524997004, 10524997005, 10524997006, 10524997007, 10524997008, 10524997009, 10524997010, 10524997011, 10524997012, 10524997013

SAMPLE DUPLICATE: 3675464

Parameter	Units	10525009007 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	10.7	11.4	6	30	N2

SAMPLE DUPLICATE: 3675465

Parameter	Units	10525007004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	6.2	6.1	3	30	N2

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QUALIFIERS

Project: B1903316.00 Former Hillcrest G
Pace Project No.: 10524997

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B1903316.00 Former Hillcrest G
Pace Project No.: 10524997

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10524997001	**Soil 1-0-0.5**	EPA 7471B	687121	EPA 7471B	687305
10524997002	**Soil 1-1-1.5**	EPA 7471B	687121	EPA 7471B	687305
10524997003	**SED 1A (0-0.5)**	EPA 7471B	687121	EPA 7471B	687305
10524997004	**SED 2A (0-0.5)**	EPA 7471B	687121	EPA 7471B	687305
10524997005	**SED 3A (0-0.5)**	EPA 7471B	687121	EPA 7471B	687305
10524997006	**SED 4A (0-0.5)**	EPA 7471B	687121	EPA 7471B	687305
10524997007	**SED 4A (1-1.5)**	EPA 7471B	687121	EPA 7471B	687305
10524997008	**SED 7A (0-0.5)**	EPA 7471B	687121	EPA 7471B	687305
10524997009	**SED 7B (0-0.5)**	EPA 7471B	687121	EPA 7471B	687305
10524997010	**SED 7C (0-0.5)**	EPA 7471B	687121	EPA 7471B	687305
10524997011	**SED 7C (1-1.5)**	EPA 7471B	687121	EPA 7471B	687305
10524997012	**SED 7D (0-0.5)**	EPA 7471B	687121	EPA 7471B	687305
10524997013	**SED 7D (1-1.5)**	EPA 7471B	687121	EPA 7471B	687305
10524997001	**Soil 1-0-0.5**	ASTM D2974	687252		
10524997002	**Soil 1-1-1.5**	ASTM D2974	687252		
10524997003	**SED 1A (0-0.5)**	ASTM D2974	687329		
10524997004	**SED 2A (0-0.5)**	ASTM D2974	687329		
10524997005	**SED 3A (0-0.5)**	ASTM D2974	687329		
10524997006	**SED 4A (0-0.5)**	ASTM D2974	687329		
10524997007	**SED 4A (1-1.5)**	ASTM D2974	687329		
10524997008	**SED 7A (0-0.5)**	ASTM D2974	687329		
10524997009	**SED 7B (0-0.5)**	ASTM D2974	687329		
10524997010	**SED 7C (0-0.5)**	ASTM D2974	687329		
10524997011	**SED 7C (1-1.5)**	ASTM D2974	687329		
10524997012	**SED 7D (0-0.5)**	ASTM D2974	687329		
10524997013	**SED 7D (1-1.5)**	ASTM D2974	687329		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2295253

Section A Required Client Information:

Company:	Braun Intertec
Address:	11001 Hampshire Ave S
	Bloomington, MN 55438
Email To:	mkeefer@braunintertec.com
Phone: 952.995.2493	Fax:
Requested Due Date/TAT:	Standard

Section B Required Project Information:

Report To:	Mark Keefer
Copy To:	Hannah McTavish
	hmctavish@braunintertec.com
Purchase Order No.:	
Project Name:	Former Hillcrest Golf Course
Project Number:	B1603316.00

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	34125

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MN

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

WO#: 10524997

10524997

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: Mercury	Resi	Pace Project No./ Lab I.D.
1	Soil 1-0-0.5	SL	G			07/15/2020	0930		1	1								X		W01
2	Soil 1-1-1.5						0935		1	1										W02
3	SED 1A (0-0.5)						1150		1	1										W03
4	SED 2A (0-0.5)						1200		1	1										W04
5	SED 3A (0-0.5)						1140		1	1										W05
6	SED 4A (0-0.5)						1040		1	1										W06
7	SED 4A (1-1.5)						1045		1	1										W07
8	SED 7A (0-0.5)						0900		1	1										W08
9	SED 7B (0-0.5)						0920		1	1										W09
10	SED 7C (0-0.5)						0940		1	1										010
11	SED 7C (1-1.5)						0945		1	1										011
12	SED 7D (0-0.5)	↓	↓			↓	1005		↓	↓								↓		012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	HNMcTavish/Braun Intertec	07/15/2020		Pace	7.15.20	1435	4.0	Y	Y	Y
	Pace	7.15.20	1435	Chase S/Pace	7.15.20	1450				
	Chase S/Pace	7/15/20		TN Pace	71520	1600	2.3	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: HNMcTavish

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 07/15/2020

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2295254

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Braun Intertec	Report To: Mark Keefer	Attention:
Address: 11001 Hampshire Ave S Bloomington, MN 55438	Copy To: Hannah McTavish hmctavish@braunintertec.com	Company Name:
Email To: MKeefer@braunintertec.com	Purchase Order No.:	Address:
Phone: 952 995 2493 Fax:	Project Name: Farmer Hillcrest Golf Course	Pace Quote Reference:
Requested Due Date/TAT:	Project Number: B190331G.00	Pace Project Manager:
		Pace Profile #: 34125

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MN

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE)

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Mercury	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SED TD (1-1.5)	SL	G			7/15/20	1010		1	1									X		013
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	HN McTavish / Braun Intertec	07/15/2020		Pace	7.15.20	1435	4.0	Y	Y	Y
	Pace	7.15.20	1435	Charles R / Pace	7.15.20	1450				
	Charles R / Pace	7/15/20	1600	TN / Pace	7/15/20	1600	0.8	Y	Y	Y
							2.3			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: HN McTavish

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 07/15/2020

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical®	Document Name: **Sample Condition Upon Receipt (SCUR) - MN**	Document Revised: 27Mar2020 **Page 1 of 1**
	Document No.: **ENV-FRM-MIN4-0150 Rev.00**	Pace Analytical Services - **Minneapolis**

Sample Condition Upon Receipt

Client Name: Braun

Project #: **WO# : 10524997**

PM: BM2 **Due Date: 07/22/20**

CLIENT: Braun-BLM

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☒ Pace ☐ SpeeDee ☐ Commercial **See Exceptions** ☐

Tracking Number:

Custody Seal on Cooler/Box Present? ☒ Yes ☐ No **Seals Intact?** ☒ Yes ☐ No **Biological Tissue Frozen?** ☐ Yes ☐ No ☐ N/A

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other: **Temp Blank?** ☒ Yes ☐ No

Thermometer: ☐ T1(0461) ☐ T2(1336) ☐ T3(0459) ☐ T4(0254) ☒ T5(0489) **Type of Ice:** ☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted

Did Samples Originate in West Virginia? ☐ Yes ☒ No **Were All Container Temps Taken?** ☐ Yes ☐ No ☒ N/A

Temp should be above freezing to 6°C **Cooler Temp Read w/temp blank:** 2.3 °C

Average Corrected Temp (no temp blank only): ☐ See Exceptions ☐ 1 Container ___ °C

Correction Factor: true **Cooler Temp Corrected w/temp blank :** 2.3 °C

USDA Regulated Soil: (☒ N/A, water sample/Other:) BM 7/16/2020

Date/Initials of Person Examining Contents: TN 7/15/20

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present and Filled Out?	☒ Yes	☐ No		1.
Chain of Custody Relinquished?	☒ Yes	☐ No		2.
Sampler Name and/or Signature on COC?	☒ Yes	☐ No	☐ N/A	3.
Samples Arrived within Hold Time?	☒ Yes	☐ No		4.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No		5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other
Rush Turn Around Time Requested?	☐ Yes	☒ No		6.
Sufficient Volume?	☒ Yes	☐ No		7.
Correct Containers Used? -Pace Containers Used?	☒ Yes ☒ Yes	☐ No ☐ No		8.
Containers Intact?	☒ Yes	☐ No		9.
Field Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☒ N/A	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Is sufficient information available to reconcile the samples to the COC? Matrix: ☐ Water ☒ Soil ☐ Oil ☐ Other	☒ Yes	☐ No		11. **If no, write ID/ Date/Time on Container Below:** **See Exception** ☐
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☒ N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide)	☐ Yes	☐ No	☒ N/A	☐ NaOH ☐ HNO_3 ☐ H_2SO_4 ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☐ Yes	☐ No	☒ N/A	Positive for Res. Chlorine? ☐ Yes ☐ No **pH Paper Lot#** **See Exception** ☐
				Res. Chlorine | 0-6 Roll | 0-6 Strip | 0-14 Strip
Extra labels present on soil VOA or WIDRO containers?	☐ Yes	☐ No	☒ N/A	13. **See Exception** ☐
Headspace in VOA Vials (greater than 6mm)?	☐ Yes	☐ No	☒ N/A	
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	14.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	Pace Trip Blank Lot # (if purchased):

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: BM **Date:** 7/16/2020

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: CEG (2)

Service Center Transfer Checklist

Service Center: MPLS ☐ BLM ☒ AZ ☐

Client: Braun Intertec

Destination Lab: MPLS ☒ VM ☐ Duluth ☐

National ☐ Other _____

Received w/ Custody Seal ? Yes ☑ No ☐

Custody Seal Intact ? Yes ☑ No ☐

	Temp Read	Corr. Factor	Corr. Temp
Temperature °C	3.9	+0.1	4.0

IR Gun: B88A0143310092 ☐ Samples on ice, in cool down

Rush ☐ **Short Hold** ☐ **N/A** ☑

Containers Intact ? Yes ☑ No ☐

Repacked and Re-Iced ? Yes ☐ No ☑

Notes: _____

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

August 19, 2020

Mark Keefer
Braun Intertec
11001 Hampshire Ave S
Bloomington, MN 55438

RE: Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Dear Mark Keefer:

Enclosed are the analytical results for sample(s) received by the laboratory on August 13, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

This report was revised on August 19, 2020, to update the sample ID for Pace sample 10528354035.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bob Michels
bob.michels@pacelabs.com
(612)709-5046
Project Manager

Enclosures

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
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CERTIFICATIONS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Pace Analytical Services - Minneapolis MN

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10528354001	PW-2A (0-0.5)	Solid	08/12/20 08:06	08/13/20 11:25
10528354002	PW-2B (0-0.5)	Solid	08/12/20 08:10	08/13/20 11:25
10528354003	Sed-2A (1-1.5)	Solid	08/12/20 08:08	08/13/20 11:25
10528354004	PW-2C (0-0.5)	Solid	08/12/20 08:22	08/13/20 11:25
10528354005	PW-2D (0-0.5)	Solid	08/12/20 08:24	08/13/20 11:25
10528354006	PW-2E (0-0.5)	Solid	08/12/20 08:29	08/13/20 11:25
10528354007	PW-2F (1-1.5)	Solid	08/12/20 08:35	08/13/20 11:25
10528354008	PW-2G (0-0.5)	Solid	08/12/20 08:42	08/13/20 11:25
10528354009	PW-2F (0-0.5)	Solid	08/12/20 08:32	08/13/20 11:25
10528354010	PW-2H (0-0.5)	Solid	08/12/20 08:46	08/13/20 11:25
10528354011	PW-2I (0-0.5)	Solid	08/12/20 08:50	08/13/20 11:25
10528354012	PW-2J (0-0.5)	Solid	08/12/20 08:53	08/13/20 11:25
10528354013	PW-1A (0-0.5)	Solid	08/12/20 09:08	08/13/20 11:25
10528354014	PW-1B (0-0.5)	Solid	08/12/20 09:10	08/13/20 11:25
10528354015	PW-1C (0-0.5)	Solid	08/12/20 09:16	08/13/20 11:25
10528354016	PW-1D (0-0.5)	Solid	08/12/20 09:20	08/13/20 11:25
10528354017	PW-1E (0-0.5)	Solid	08/12/20 09:21	08/13/20 11:25
10528354018	PW-1F (0-0.5)	Solid	08/12/20 09:23	08/13/20 11:25
10528354019	PW-1G (0-0.5)	Solid	08/12/20 09:25	08/13/20 11:25
10528354020	PW-1H (0-0.5)	Solid	08/12/20 09:32	08/13/20 11:25
10528354021	PW-3A (0-0.5)	Solid	08/12/20 09:44	08/13/20 11:25
10528354022	PW-3B (0-0.5)	Solid	08/12/20 09:48	08/13/20 11:25
10528354023	PW-3C (0-0.5)	Solid	08/12/20 09:55	08/13/20 11:25
10528354024	PW-3D (0-0.5)	Solid	08/12/20 10:00	08/13/20 11:25
10528354025	PW-4A (0-0.5)	Solid	08/12/20 10:16	08/13/20 11:25
10528354026	PW-4B (0-0.5)	Solid	08/12/20 10:20	08/13/20 11:25
10528354027	PW-4C (0-0.5)	Solid	08/12/20 10:25	08/13/20 11:25
10528354028	PW-4D (0-0.5)	Solid	08/12/20 10:30	08/13/20 11:25
10528354029	PW-5A (0-0.5)	Solid	08/12/20 12:00	08/13/20 11:25
10528354030	PW-5B (0-0.5)	Solid	08/12/20 12:05	08/13/20 11:25
10528354031	PW-5C (0-0.5)	Solid	08/12/20 12:16	08/13/20 11:25
10528354032	PW-5D (0-0.5)	Solid	08/12/20 12:20	08/13/20 11:25
10528354033	PW-7A (0-0.5)	Solid	08/12/20 12:40	08/13/20 11:25
10528354034	PW-7B (0-0.5)	Solid	08/12/20 12:45	08/13/20 11:25
10528354035	Sed-7B (1-1.5)	Solid	08/12/20 12:47	08/13/20 11:25
10528354036	PW-5E (0-0.5)	Solid	08/12/20 12:22	08/13/20 11:25
10528354037	PW-7C (0-0.5)	Solid	08/12/20 12:57	08/13/20 11:25

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10528354038	**PW-7D (0-0.5)**	Solid	08/12/20 12:59	08/13/20 11:25
10528354039	**PW-6A (0-0.5)**	Solid	08/12/20 13:15	08/13/20 11:25
10528354040	**PW-6B (0-0.5)**	Solid	08/12/20 13:19	08/13/20 11:25
10528354041	**PW-6C (0-0.5)**	Solid	08/12/20 13:22	08/13/20 11:25
10528354042	**PW-6D (0-0.5)**	Solid	08/12/20 13:43	08/13/20 11:25
10528354043	**PW-6E (0-0.5)**	Solid	08/12/20 14:06	08/13/20 11:25
10528354044	**PW-6F (0-0.5)**	Solid	08/12/20 14:07	08/13/20 11:25
10528354045	**PW-6G (0-0.5)**	Solid	08/12/20 14:09	08/13/20 11:25
10528354046	**PW-5F (0-0.5)**	Solid	08/12/20 14:33	08/13/20 11:25
10528354047	**PW-5G (0-0.5)**	Solid	08/12/20 14:35	08/13/20 11:25
10528354048	**PW-6H (0-0.5)**	Solid	08/12/20 14:40	08/13/20 11:25
10528354049	**PW-6I (0-0.5)**	Solid	08/12/20 14:45	08/13/20 11:25
10528354050	**PW-6J (0-0.5)**	Solid	08/12/20 14:50	08/13/20 11:25
10528354051	**PW-6K (0-0.5)**	Solid	08/12/20 15:08	08/13/20 11:25

REPORT OF LABORATORY ANALYSIS

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(612)607-1700

SAMPLE ANALYTE COUNT

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10528354001	**PW-2A (0-0.5)**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354002	**PW-2B (0-0.5)**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354003	**Sed-2A (1-1.5)**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354004	**PW-2C (0-0.5)**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354005	**PW-2D (0-0.5)**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354006	**PW-2E (0-0.5)**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354007	**PW-2F (1-1.5)**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354008	**PW-2G (0-0.5)**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354009	**PW-2F (0-0.5)**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354010	**PW-2H (0-0.5)**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354011	**PW-2I (0-0.5)**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354012	**PW-2J (0-0.5)**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354013	**PW-1A (0-0.5)**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354014	**PW-1B (0-0.5)**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354015	**PW-1C (0-0.5)**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354016	**PW-1D (0-0.5)**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354017	**PW-1E (0-0.5)**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354018	**PW-1F (0-0.5)**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354019	**PW-1G (0-0.5)**	EPA 7471B	BTS	1	PASI-M

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		ASTM D2974	JDL	1	PASI-M
10528354020	PW-1H (0-0.5)	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354021	PW-3A (0-0.5)	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354022	PW-3B (0-0.5)	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354023	PW-3C (0-0.5)	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354024	PW-3D (0-0.5)	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354025	PW-4A (0-0.5)	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354026	PW-4B (0-0.5)	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354027	PW-4C (0-0.5)	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354028	PW-4D (0-0.5)	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354029	PW-5A (0-0.5)	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354030	PW-5B (0-0.5)	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354031	PW-5C (0-0.5)	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354032	PW-5D (0-0.5)	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354033	PW-7A (0-0.5)	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354034	PW-7B (0-0.5)	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354035	Sed-7B (1-1.5)	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354036	PW-5E (0-0.5)	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354037	PW-7C (0-0.5)	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M

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SAMPLE ANALYTE COUNT

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10528354038	**PW-7D (0-0.5)**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354039	**PW-6A (0-0.5)**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354040	**PW-6B (0-0.5)**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354041	**PW-6C (0-0.5)**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354042	**PW-6D (0-0.5)**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354043	**PW-6E (0-0.5)**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354044	**PW-6F (0-0.5)**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354045	**PW-6G (0-0.5)**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354046	**PW-5F (0-0.5)**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354047	**PW-5G (0-0.5)**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354048	**PW-6H (0-0.5)**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354049	**PW-6I (0-0.5)**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354050	**PW-6J (0-0.5)**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10528354051	**PW-6K (0-0.5)**	EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

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SUMMARY OF DETECTION

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10528354001	**PW-2A (0-0.5)**					
EPA 7471B	Mercury	0.73	mg/kg	0.055	08/18/20 13:26	
ASTM D2974	Percent Moisture	63.6	%	0.10	08/14/20 13:49	N2
10528354002	**PW-2B (0-0.5)**					
EPA 7471B	Mercury	0.16	mg/kg	0.029	08/18/20 13:30	
ASTM D2974	Percent Moisture	34.5	%	0.10	08/14/20 13:49	N2
10528354003	**Sed-2A (1-1.5)**					
EPA 7471B	Mercury	0.42	mg/kg	0.021	08/18/20 13:32	
ASTM D2974	Percent Moisture	13.2	%	0.10	08/14/20 13:49	N2
10528354004	**PW-2C (0-0.5)**					
EPA 7471B	Mercury	0.94	mg/kg	0.024	08/18/20 13:33	
ASTM D2974	Percent Moisture	17.9	%	0.10	08/14/20 13:49	N2
10528354005	**PW-2D (0-0.5)**					
EPA 7471B	Mercury	1.9	mg/kg	0.077	08/18/20 13:38	
ASTM D2974	Percent Moisture	74.7	%	0.10	08/14/20 13:49	N2
10528354006	**PW-2E (0-0.5)**					
EPA 7471B	Mercury	0.028	mg/kg	0.021	08/18/20 13:39	
ASTM D2974	Percent Moisture	8.6	%	0.10	08/14/20 13:50	N2
10528354007	**PW-2F (1-1.5)**					
EPA 7471B	Mercury	0.22	mg/kg	0.020	08/18/20 13:41	
ASTM D2974	Percent Moisture	8.3	%	0.10	08/14/20 13:50	N2
10528354008	**PW-2G (0-0.5)**					
EPA 7471B	Mercury	0.13	mg/kg	0.035	08/18/20 13:42	
ASTM D2974	Percent Moisture	42.3	%	0.10	08/14/20 13:50	N2
10528354009	**PW-2F (0-0.5)**					
EPA 7471B	Mercury	0.28	mg/kg	0.022	08/18/20 13:44	
ASTM D2974	Percent Moisture	11.1	%	0.10	08/14/20 13:50	N2
10528354010	**PW-2H (0-0.5)**					
EPA 7471B	Mercury	0.20	mg/kg	0.023	08/18/20 13:45	
ASTM D2974	Percent Moisture	16.6	%	0.10	08/14/20 13:50	N2
10528354011	**PW-2I (0-0.5)**					
EPA 7471B	Mercury	0.18	mg/kg	0.030	08/18/20 13:47	
ASTM D2974	Percent Moisture	34.8	%	0.10	08/14/20 13:50	N2
10528354012	**PW-2J (0-0.5)**					
EPA 7471B	Mercury	0.063	mg/kg	0.023	08/18/20 13:48	
ASTM D2974	Percent Moisture	14.6	%	0.10	08/14/20 13:51	N2
10528354013	**PW-1A (0-0.5)**					
EPA 7471B	Mercury	0.41	mg/kg	0.038	08/17/20 19:04	
ASTM D2974	Percent Moisture	50.5	%	0.10	08/14/20 13:51	N2

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10528354014	**PW-1B (0-0.5)**					
EPA 7471B	Mercury	2.8	mg/kg	0.067	08/18/20 12:27	
ASTM D2974	Percent Moisture	40.6	%	0.10	08/14/20 13:51	N2
10528354015	**PW-1C (0-0.5)**					
EPA 7471B	Mercury	0.31	mg/kg	0.048	08/17/20 19:10	
ASTM D2974	Percent Moisture	58.0	%	0.10	08/14/20 14:55	N2
10528354016	**PW-1D (0-0.5)**					
EPA 7471B	Mercury	0.54	mg/kg	0.032	08/17/20 19:11	
ASTM D2974	Percent Moisture	40.1	%	0.10	08/14/20 14:55	N2
10528354017	**PW-1E (0-0.5)**					
EPA 7471B	Mercury	0.94	mg/kg	0.030	08/17/20 19:16	
ASTM D2974	Percent Moisture	37.3	%	0.10	08/14/20 14:55	N2
10528354018	**PW-1F (0-0.5)**					
EPA 7471B	Mercury	26.3	mg/kg	0.60	08/18/20 12:29	
ASTM D2974	Percent Moisture	38.0	%	0.10	08/14/20 14:56	N2
10528354019	**PW-1G (0-0.5)**					
EPA 7471B	Mercury	16.5	mg/kg	0.83	08/18/20 12:30	
ASTM D2974	Percent Moisture	51.6	%	0.10	08/14/20 14:56	N2
10528354020	**PW-1H (0-0.5)**					
EPA 7471B	Mercury	0.83	mg/kg	0.023	08/17/20 19:25	
ASTM D2974	Percent Moisture	19.6	%	0.10	08/14/20 14:56	N2
10528354021	**PW-3A (0-0.5)**					
EPA 7471B	Mercury	0.075	mg/kg	0.024	08/18/20 12:39	
ASTM D2974	Percent Moisture	27.0	%	0.10	08/14/20 14:56	N2
10528354022	**PW-3B (0-0.5)**					
EPA 7471B	Mercury	0.47	mg/kg	0.037	08/18/20 12:44	
ASTM D2974	Percent Moisture	45.4	%	0.10	08/14/20 14:56	N2
10528354023	**PW-3C (0-0.5)**					
EPA 7471B	Mercury	1.1	mg/kg	0.040	08/18/20 12:45	
ASTM D2974	Percent Moisture	54.7	%	0.10	08/14/20 14:56	N2
10528354024	**PW-3D (0-0.5)**					
EPA 7471B	Mercury	0.056	mg/kg	0.022	08/18/20 12:47	
ASTM D2974	Percent Moisture	13.6	%	0.10	08/14/20 14:57	N2
10528354025	**PW-4A (0-0.5)**					
ASTM D2974	Percent Moisture	18.8	%	0.10	08/14/20 14:57	N2
10528354026	**PW-4B (0-0.5)**					
EPA 7471B	Mercury	0.18	mg/kg	0.030	08/18/20 12:53	
ASTM D2974	Percent Moisture	33.1	%	0.10	08/14/20 14:57	N2
10528354027	**PW-4C (0-0.5)**					
EPA 7471B	Mercury	0.20	mg/kg	0.027	08/18/20 12:54	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10528354027	**PW-4C (0-0.5)**					
ASTM D2974	Percent Moisture	29.1	%	0.10	08/14/20 14:57	N2
10528354028	**PW-4D (0-0.5)**					
EPA 7471B	Mercury	0.046	mg/kg	0.026	08/18/20 12:55	
ASTM D2974	Percent Moisture	26.5	%	0.10	08/14/20 14:57	N2
10528354029	**PW-5A (0-0.5)**					
EPA 7471B	Mercury	0.14	mg/kg	0.024	08/18/20 12:57	
ASTM D2974	Percent Moisture	26.8	%	0.10	08/14/20 14:57	N2
10528354030	**PW-5B (0-0.5)**					
EPA 7471B	Mercury	0.098	mg/kg	0.023	08/18/20 12:58	
ASTM D2974	Percent Moisture	20.5	%	0.10	08/14/20 14:57	N2
10528354031	**PW-5C (0-0.5)**					
EPA 7471B	Mercury	0.084	mg/kg	0.023	08/18/20 13:00	
ASTM D2974	Percent Moisture	18.8	%	0.10	08/14/20 14:58	N2
10528354032	**PW-5D (0-0.5)**					
EPA 7471B	Mercury	0.28	mg/kg	0.025	08/18/20 13:01	
ASTM D2974	Percent Moisture	24.6	%	0.10	08/14/20 14:58	N2
10528354033	**PW-7A (0-0.5)**					
EPA 7471B	Mercury	2.4	mg/kg	0.057	08/18/20 14:03	
ASTM D2974	Percent Moisture	34.6	%	0.10	08/14/20 14:58	N2
10528354034	**PW-7B (0-0.5)**					
EPA 7471B	Mercury	0.21	mg/kg	0.023	08/18/20 13:07	
ASTM D2974	Percent Moisture	22.6	%	0.10	08/14/20 14:58	N2
10528354035	**Sed-7B (1-1.5)**					
EPA 7471B	Mercury	0.045	mg/kg	0.022	08/18/20 13:09	
ASTM D2974	Percent Moisture	15.3	%	0.10	08/14/20 15:56	N2
10528354036	**PW-5E (0-0.5)**					
EPA 7471B	Mercury	8.0	mg/kg	0.25	08/18/20 14:04	
ASTM D2974	Percent Moisture	24.3	%	0.10	08/14/20 15:56	N2
10528354037	**PW-7C (0-0.5)**					
EPA 7471B	Mercury	0.046	mg/kg	0.024	08/18/20 13:13	
ASTM D2974	Percent Moisture	18.0	%	0.10	08/14/20 15:57	N2
10528354038	**PW-7D (0-0.5)**					
EPA 7471B	Mercury	1.6	mg/kg	0.052	08/18/20 14:05	
ASTM D2974	Percent Moisture	27.5	%	0.10	08/14/20 15:57	N2
10528354039	**PW-6A (0-0.5)**					
EPA 7471B	Mercury	1.9	mg/kg	0.061	08/18/20 14:07	
ASTM D2974	Percent Moisture	34.6	%	0.10	08/14/20 15:57	N2
10528354040	**PW-6B (0-0.5)**					
EPA 7471B	Mercury	2.5	mg/kg	0.069	08/18/20 14:17	

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SUMMARY OF DETECTION

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10528354040	**PW-6B (0-0.5)**					
ASTM D2974	Percent Moisture	49.0	%	0.10	08/14/20 15:57	N2
10528354041	**PW-6C (0-0.5)**					
EPA 7471B	Mercury	6.4	mg/kg	0.31	08/18/20 13:54	M6
ASTM D2974	Percent Moisture	42.2	%	0.10	08/14/20 15:57	N2
10528354042	**PW-6D (0-0.5)**					
EPA 7471B	Mercury	9.3	mg/kg	0.32	08/18/20 15:53	
ASTM D2974	Percent Moisture	71.4	%	0.10	08/14/20 15:57	N2
10528354043	**PW-6E (0-0.5)**					
EPA 7471B	Mercury	1.3	mg/kg	0.030	08/18/20 12:03	
ASTM D2974	Percent Moisture	34.7	%	0.10	08/14/20 15:58	N2
10528354044	**PW-6F (0-0.5)**					
EPA 7471B	Mercury	0.26	mg/kg	0.026	08/18/20 12:04	
ASTM D2974	Percent Moisture	24.1	%	0.10	08/14/20 15:58	N2
10528354045	**PW-6G (0-0.5)**					
EPA 7471B	Mercury	0.025	mg/kg	0.024	08/18/20 12:08	
ASTM D2974	Percent Moisture	23.8	%	0.10	08/14/20 15:58	N2
10528354046	**PW-5F (0-0.5)**					
EPA 7471B	Mercury	3.7	mg/kg	0.12	08/18/20 13:58	
ASTM D2974	Percent Moisture	69.0	%	0.10	08/14/20 15:58	N2
10528354047	**PW-5G (0-0.5)**					
EPA 7471B	Mercury	2.5	mg/kg	0.14	08/18/20 14:00	
ASTM D2974	Percent Moisture	32.5	%	0.10	08/14/20 15:58	N2
10528354048	**PW-6H (0-0.5)**					
EPA 7471B	Mercury	0.28	mg/kg	0.024	08/18/20 12:13	
ASTM D2974	Percent Moisture	21.4	%	0.10	08/14/20 15:58	N2
10528354049	**PW-6I (0-0.5)**					
EPA 7471B	Mercury	0.50	mg/kg	0.026	08/18/20 12:14	
ASTM D2974	Percent Moisture	22.2	%	0.10	08/14/20 15:59	N2
10528354050	**PW-6J (0-0.5)**					
EPA 7471B	Mercury	0.91	mg/kg	0.030	08/18/20 12:16	
ASTM D2974	Percent Moisture	32.9	%	0.10	08/14/20 15:59	N2
10528354051	**PW-6K (0-0.5)**					
EPA 7471B	Mercury	3.4	mg/kg	0.21	08/18/20 14:01	
ASTM D2974	Percent Moisture	9.7	%	0.10	08/14/20 15:59	N2

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Method: **EPA 7471B**
Description: 7471B Mercury
Client: Braun Intertec Corporation
Date: August 19, 2020

General Information:
51 samples were analyzed for EPA 7471B by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7471B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 692861

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10528354041

M6: Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

- MS (Lab ID: 3704180)
  - Mercury
- MSD (Lab ID: 3704181)
  - Mercury

Additional Comments:

Analyte Comments:

QC Batch: 692861

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 3704180)
  - Mercury
- MSD (Lab ID: 3704181)
  - Mercury

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Method: **EPA 7471B**
Description: 7471B Mercury
Client: Braun Intertec Corporation
Date: August 19, 2020

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-2A (0-0.5) **Lab ID: 10528354001** Collected: 08/12/20 08:06 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.73**	mg/kg	0.055	1	08/17/20 10:10	08/18/20 13:26	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**63.6**	%	0.10	1		08/14/20 13:49		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-2B (0-0.5) **Lab ID: 10528354002** Collected: 08/12/20 08:10 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.16**	mg/kg	0.029	1	08/17/20 10:10	08/18/20 13:30	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**34.5**	%	0.10	1		08/14/20 13:49		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: Sed-2A (1-1.5) **Lab ID: 10528354003** Collected: 08/12/20 08:08 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.42**	mg/kg	0.021	1	08/17/20 10:10	08/18/20 13:32	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**13.2**	%	0.10	1		08/14/20 13:49		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-2C (0-0.5) **Lab ID: 10528354004** Collected: 08/12/20 08:22 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.94**	mg/kg	0.024	1	08/17/20 10:10	08/18/20 13:33	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**17.9**	%	0.10	1		08/14/20 13:49		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-2D (0-0.5) **Lab ID: 10528354005** Collected: 08/12/20 08:24 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**1.9**	mg/kg	0.077	1	08/17/20 10:10	08/18/20 13:38	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**74.7**	%	0.10	1		08/14/20 13:49		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-2E (0-0.5) **Lab ID: 10528354006** Collected: 08/12/20 08:29 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.028**	mg/kg	0.021	1	08/17/20 10:10	08/18/20 13:39	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**8.6**	%	0.10	1		08/14/20 13:50		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-2F (1-1.5) **Lab ID: 10528354007** Collected: 08/12/20 08:35 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.22**	mg/kg	0.020	1	08/17/20 10:10	08/18/20 13:41	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**8.3**	%	0.10	1		08/14/20 13:50		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-2G (0-0.5) **Lab ID: 10528354008** Collected: 08/12/20 08:42 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.13**	mg/kg	0.035	1	08/17/20 10:10	08/18/20 13:42	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**42.3**	%	0.10	1		08/14/20 13:50		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-2F (0-0.5) **Lab ID: 10528354009** Collected: 08/12/20 08:32 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.28**	mg/kg	0.022	1	08/17/20 10:10	08/18/20 13:44	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**11.1**	%	0.10	1		08/14/20 13:50		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-2H (0-0.5) **Lab ID: 10528354010** Collected: 08/12/20 08:46 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.20**	mg/kg	0.023	1	08/17/20 10:10	08/18/20 13:45	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**16.6**	%	0.10	1		08/14/20 13:50		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-2I (0-0.5) **Lab ID: 10528354011** Collected: 08/12/20 08:50 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.18**	mg/kg	0.030	1	08/17/20 10:10	08/18/20 13:47	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**34.8**	%	0.10	1		08/14/20 13:50		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-2J (0-0.5) **Lab ID: 10528354012** Collected: 08/12/20 08:53 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.063**	mg/kg	0.023	1	08/17/20 10:10	08/18/20 13:48	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**14.6**	%	0.10	1		08/14/20 13:51		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-1A (0-0.5) **Lab ID: 10528354013** Collected: 08/12/20 09:08 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.41**	mg/kg	0.038	1	08/17/20 13:58	08/17/20 19:04	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**50.5**	%	0.10	1		08/14/20 13:51		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-1B (0-0.5) **Lab ID: 10528354014** Collected: 08/12/20 09:10 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**2.8**	mg/kg	0.067	2	08/17/20 13:58	08/18/20 12:27	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**40.6**	%	0.10	1		08/14/20 13:51		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-1C (0-0.5) **Lab ID: 10528354015** Collected: 08/12/20 09:16 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.31**	mg/kg	0.048	1	08/17/20 13:58	08/17/20 19:10	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**58.0**	%	0.10	1		08/14/20 14:55		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-1D (0-0.5) **Lab ID: 10528354016** Collected: 08/12/20 09:20 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.54**	mg/kg	0.032	1	08/17/20 13:58	08/17/20 19:11	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**40.1**	%	0.10	1		08/14/20 14:55		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-1E (0-0.5) **Lab ID: 10528354017** Collected: 08/12/20 09:21 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.94**	mg/kg	0.030	1	08/17/20 13:58	08/17/20 19:16	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**37.3**	%	0.10	1		08/14/20 14:55		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-1F (0-0.5) **Lab ID: 10528354018** Collected: 08/12/20 09:23 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**26.3**	mg/kg	0.60	20	08/17/20 13:58	08/18/20 12:29	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**38.0**	%	0.10	1		08/14/20 14:56		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-1G (0-0.5) **Lab ID: 10528354019** Collected: 08/12/20 09:25 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**16.5**	mg/kg	0.83	20	08/17/20 13:58	08/18/20 12:30	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**51.6**	%	0.10	1		08/14/20 14:56		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-1H (0-0.5) **Lab ID: 10528354020** Collected: 08/12/20 09:32 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.83**	mg/kg	0.023	1	08/17/20 13:58	08/17/20 19:25	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**19.6**	%	0.10	1		08/14/20 14:56		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-3A (0-0.5) **Lab ID: 10528354021** Collected: 08/12/20 09:44 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.075**	mg/kg	0.024	1	08/17/20 10:11	08/18/20 12:39	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**27.0**	%	0.10	1		08/14/20 14:56		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-3B (0-0.5) **Lab ID: 10528354022** Collected: 08/12/20 09:48 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.47**	mg/kg	0.037	1	08/17/20 10:11	08/18/20 12:44	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**45.4**	%	0.10	1		08/14/20 14:56		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-3C (0-0.5) **Lab ID: 10528354023** Collected: 08/12/20 09:55 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**1.1**	mg/kg	0.040	1	08/17/20 10:11	08/18/20 12:45	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**54.7**	%	0.10	1		08/14/20 14:56		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-3D (0-0.5) **Lab ID: 10528354024** Collected: 08/12/20 10:00 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.056**	mg/kg	0.022	1	08/17/20 10:11	08/18/20 12:47	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**13.6**	%	0.10	1		08/14/20 14:57		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-4A (0-0.5) **Lab ID: 10528354025** Collected: 08/12/20 10:16 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	ND	mg/kg	0.024	1	08/17/20 10:11	08/18/20 12:51	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**18.8**	%	0.10	1		08/14/20 14:57		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-4B (0-0.5) **Lab ID: 10528354026** Collected: 08/12/20 10:20 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.18**	mg/kg	0.030	1	08/17/20 10:11	08/18/20 12:53	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**33.1**	%	0.10	1		08/14/20 14:57		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-4C (0-0.5) **Lab ID: 10528354027** Collected: 08/12/20 10:25 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.20**	mg/kg	0.027	1	08/17/20 10:11	08/18/20 12:54	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**29.1**	%	0.10	1		08/14/20 14:57		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-4D (0-0.5) **Lab ID: 10528354028** Collected: 08/12/20 10:30 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.046**	mg/kg	0.026	1	08/17/20 10:11	08/18/20 12:55	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**26.5**	%	0.10	1		08/14/20 14:57		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-5A (0-0.5) **Lab ID: 10528354029** Collected: 08/12/20 12:00 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.14**	mg/kg	0.024	1	08/17/20 10:11	08/18/20 12:57	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**26.8**	%	0.10	1		08/14/20 14:57		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-5B (0-0.5) **Lab ID: 10528354030** Collected: 08/12/20 12:05 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.098**	mg/kg	0.023	1	08/17/20 10:11	08/18/20 12:58	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**20.5**	%	0.10	1		08/14/20 14:57		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-5C (0-0.5) **Lab ID: 10528354031** Collected: 08/12/20 12:16 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.084**	mg/kg	0.023	1	08/17/20 10:11	08/18/20 13:00	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**18.8**	%	0.10	1		08/14/20 14:58		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-5D (0-0.5) **Lab ID: 10528354032** Collected: 08/12/20 12:20 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.28**	mg/kg	0.025	1	08/17/20 10:11	08/18/20 13:01	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**24.6**	%	0.10	1		08/14/20 14:58		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-7A (0-0.5) **Lab ID: 10528354033** Collected: 08/12/20 12:40 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**2.4**	mg/kg	0.057	2	08/17/20 10:11	08/18/20 14:03	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**34.6**	%	0.10	1		08/14/20 14:58		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-7B (0-0.5) **Lab ID: 10528354034** Collected: 08/12/20 12:45 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.21**	mg/kg	0.023	1	08/17/20 10:11	08/18/20 13:07	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**22.6**	%	0.10	1		08/14/20 14:58		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: Sed-7B (1-1.5) **Lab ID: 10528354035** Collected: 08/12/20 12:47 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.045**	mg/kg	0.022	1	08/17/20 10:11	08/18/20 13:09	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**15.3**	%	0.10	1		08/14/20 15:56		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-5E (0-0.5) **Lab ID: 10528354036** Collected: 08/12/20 12:22 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**8.0**	mg/kg	0.25	10	08/17/20 10:11	08/18/20 14:04	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**24.3**	%	0.10	1		08/14/20 15:56		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-7C (0-0.5) **Lab ID: 10528354037** Collected: 08/12/20 12:57 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.046**	mg/kg	0.024	1	08/17/20 10:11	08/18/20 13:13	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**18.0**	%	0.10	1		08/14/20 15:57		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-7D (0-0.5) **Lab ID: 10528354038** Collected: 08/12/20 12:59 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**1.6**	mg/kg	0.052	2	08/17/20 10:11	08/18/20 14:05	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**27.5**	%	0.10	1		08/14/20 15:57		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-6A (0-0.5) **Lab ID: 10528354039** Collected: 08/12/20 13:15 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**1.9**	mg/kg	0.061	2	08/17/20 10:11	08/18/20 14:07	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**34.6**	%	0.10	1		08/14/20 15:57		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-6B (0-0.5) **Lab ID: 10528354040** Collected: 08/12/20 13:19 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**2.5**	mg/kg	0.069	2	08/17/20 10:11	08/18/20 14:17	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**49.0**	%	0.10	1		08/14/20 15:57		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-6C (0-0.5) **Lab ID: 10528354041** Collected: 08/12/20 13:22 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**6.4**	mg/kg	0.31	10	08/17/20 12:29	08/18/20 13:54	7439-97-6	M6
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**42.2**	%	0.10	1		08/14/20 15:57		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-6D (0-0.5) **Lab ID: 10528354042** Collected: 08/12/20 13:43 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**9.3**	mg/kg	0.32	5	08/17/20 12:29	08/18/20 15:53	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**71.4**	%	0.10	1		08/14/20 15:57		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-6E (0-0.5) **Lab ID: 10528354043** Collected: 08/12/20 14:06 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**1.3**	mg/kg	0.030	1	08/17/20 12:29	08/18/20 12:03	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**34.7**	%	0.10	1		08/14/20 15:58		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-6F (0-0.5) **Lab ID: 10528354044** Collected: 08/12/20 14:07 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.26**	mg/kg	0.026	1	08/17/20 12:29	08/18/20 12:04	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**24.1**	%	0.10	1		08/14/20 15:58		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-6G (0-0.5) **Lab ID: 10528354045** Collected: 08/12/20 14:09 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.025**	mg/kg	0.024	1	08/17/20 12:29	08/18/20 12:08	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**23.8**	%	0.10	1		08/14/20 15:58		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-5F (0-0.5) **Lab ID: 10528354046** Collected: 08/12/20 14:33 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**3.7**	mg/kg	0.12	2	08/17/20 12:29	08/18/20 13:58	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**69.0**	%	0.10	1		08/14/20 15:58		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-5G (0-0.5) **Lab ID: 10528354047** Collected: 08/12/20 14:35 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**2.5**	mg/kg	0.14	5	08/17/20 12:29	08/18/20 14:00	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**32.5**	%	0.10	1		08/14/20 15:58		N2

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1700 Elm Street - Suite 200
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(612)607-1700

ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-6H (0-0.5) **Lab ID: 10528354048** Collected: 08/12/20 14:40 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.28**	mg/kg	0.024	1	08/17/20 12:29	08/18/20 12:13	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**21.4**	%	0.10	1		08/14/20 15:58		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-6I (0-0.5) **Lab ID: 10528354049** Collected: 08/12/20 14:45 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.50**	mg/kg	0.026	1	08/17/20 12:29	08/18/20 12:14	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**22.2**	%	0.10	1		08/14/20 15:59		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-6J (0-0.5) **Lab ID: 10528354050** Collected: 08/12/20 14:50 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**0.91**	mg/kg	0.030	1	08/17/20 12:29	08/18/20 12:16	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**32.9**	%	0.10	1		08/14/20 15:59		N2

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Sample: PW-6K (0-0.5) **Lab ID: 10528354051** Collected: 08/12/20 15:08 Received: 08/13/20 11:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Minneapolis							
Mercury	**3.4**	mg/kg	0.21	10	08/17/20 12:29	08/18/20 14:01	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**9.7**	%	0.10	1		08/14/20 15:59		N2

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

QC Batch: 692859 Analysis Method: EPA 7471B
QC Batch Method: EPA 7471B Analysis Description: 7471B Mercury Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10528354001, 10528354002, 10528354003, 10528354004, 10528354005, 10528354006, 10528354007, 10528354008, 10528354009, 10528354010, 10528354011, 10528354012

METHOD BLANK: 3704170 Matrix: Solid
Associated Lab Samples: 10528354001, 10528354002, 10528354003, 10528354004, 10528354005, 10528354006, 10528354007, 10528354008, 10528354009, 10528354010, 10528354011, 10528354012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.019	08/18/20 13:23	

LABORATORY CONTROL SAMPLE: 3704171

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.47	0.46	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3704172 3704173

Parameter	Units	10528354001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.73	1.4	1.4	2.0	2.1	93	101	80-120	5	20	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

QC Batch: 692860
QC Batch Method: EPA 7471B
Analysis Method: EPA 7471B
Analysis Description: 7471B Mercury Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10528354021, 10528354022, 10528354023, 10528354024, 10528354025, 10528354026, 10528354027, 10528354028, 10528354029, 10528354030, 10528354031, 10528354032, 10528354033, 10528354034, 10528354035, 10528354036, 10528354037, 10528354038, 10528354039, 10528354040

METHOD BLANK: 3704174
Matrix: Solid
Associated Lab Samples: 10528354021, 10528354022, 10528354023, 10528354024, 10528354025, 10528354026, 10528354027, 10528354028, 10528354029, 10528354030, 10528354031, 10528354032, 10528354033, 10528354034, 10528354035, 10528354036, 10528354037, 10528354038, 10528354039, 10528354040

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.018	08/18/20 12:37	

LABORATORY CONTROL SAMPLE: 3704175

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.48	0.52	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3704176 3704177

Parameter	Units	10528354021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.075	0.6	0.64	0.73	0.74	108	104	80-120	2	20	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

QC Batch: 692861 Analysis Method: EPA 7471B
QC Batch Method: EPA 7471B Analysis Description: 7471B Mercury Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10528354041, 10528354042, 10528354043, 10528354044, 10528354045, 10528354046, 10528354047, 10528354048, 10528354049, 10528354050, 10528354051

METHOD BLANK: 3704178 Matrix: Solid
Associated Lab Samples: 10528354041, 10528354042, 10528354043, 10528354044, 10528354045, 10528354046, 10528354047, 10528354048, 10528354049, 10528354050, 10528354051

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.020	08/18/20 11:51	

LABORATORY CONTROL SAMPLE: 3704179

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.5	0.50	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3704180 3704181

Parameter	Units	10528354041 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	6.4	0.76	0.83	5.7	4.9	-80	-169	80-120	15	20	E,M6

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

QC Batch: 693025 Analysis Method: EPA 7471B
QC Batch Method: EPA 7471B Analysis Description: 7471B Mercury Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10528354013, 10528354014, 10528354015, 10528354016, 10528354017, 10528354018, 10528354019, 10528354020

METHOD BLANK: 3704629 Matrix: Solid
Associated Lab Samples: 10528354013, 10528354014, 10528354015, 10528354016, 10528354017, 10528354018, 10528354019, 10528354020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.018	08/17/20 19:01	

LABORATORY CONTROL SAMPLE: 3704630

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.44	0.46	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3704631 3704632

Parameter	Units	10528354013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.41	0.95	0.95	1.3	1.3	95	99	80-120	3	20	

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

QC Batch: 692703
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10528354001, 10528354002, 10528354003, 10528354004, 10528354005, 10528354006, 10528354007, 10528354008, 10528354009, 10528354010, 10528354011, 10528354012, 10528354013, 10528354014

SAMPLE DUPLICATE: 3703002

Parameter	Units	10528354014 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	40.6	41.4	2	30	N2

SAMPLE DUPLICATE: 3703020

Parameter	Units	10528020048 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	5.6	5.9	5	30	N2

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

QC Batch: 692714
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10528354015, 10528354016, 10528354017, 10528354018, 10528354019, 10528354020, 10528354021, 10528354022, 10528354023, 10528354024, 10528354025, 10528354026, 10528354027, 10528354028, 10528354029, 10528354030, 10528354031, 10528354032, 10528354033, 10528354034

SAMPLE DUPLICATE: 3703085

Parameter	Units	10528354015 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	58.0	60.6	4	30	N2

SAMPLE DUPLICATE: 3703086

Parameter	Units	10528354034 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	22.6	27.5	20	30	N2

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

QC Batch: 692718
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10528354035, 10528354036, 10528354037, 10528354038, 10528354039, 10528354040, 10528354041, 10528354042, 10528354043, 10528354044, 10528354045, 10528354046, 10528354047, 10528354048, 10528354049, 10528354050, 10528354051

SAMPLE DUPLICATE: 3703110

Parameter	Units	10528354035 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	15.3	14.9	3	30	N2

SAMPLE DUPLICATE: 3703423

Parameter	Units	10528354048 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	21.4	21.5	1	30	N2

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QUALIFIERS

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10528354001	PW-2A (0-0.5)	EPA 7471B	692859	EPA 7471B	693058
10528354002	PW-2B (0-0.5)	EPA 7471B	692859	EPA 7471B	693058
10528354003	Sed-2A (1-1.5)	EPA 7471B	692859	EPA 7471B	693058
10528354004	PW-2C (0-0.5)	EPA 7471B	692859	EPA 7471B	693058
10528354005	PW-2D (0-0.5)	EPA 7471B	692859	EPA 7471B	693058
10528354006	PW-2E (0-0.5)	EPA 7471B	692859	EPA 7471B	693058
10528354007	PW-2F (1-1.5)	EPA 7471B	692859	EPA 7471B	693058
10528354008	PW-2G (0-0.5)	EPA 7471B	692859	EPA 7471B	693058
10528354009	PW-2F (0-0.5)	EPA 7471B	692859	EPA 7471B	693058
10528354010	PW-2H (0-0.5)	EPA 7471B	692859	EPA 7471B	693058
10528354011	PW-2I (0-0.5)	EPA 7471B	692859	EPA 7471B	693058
10528354012	PW-2J (0-0.5)	EPA 7471B	692859	EPA 7471B	693058
10528354013	PW-1A (0-0.5)	EPA 7471B	693025	EPA 7471B	693080
10528354014	PW-1B (0-0.5)	EPA 7471B	693025	EPA 7471B	693080
10528354015	PW-1C (0-0.5)	EPA 7471B	693025	EPA 7471B	693080
10528354016	PW-1D (0-0.5)	EPA 7471B	693025	EPA 7471B	693080
10528354017	PW-1E (0-0.5)	EPA 7471B	693025	EPA 7471B	693080
10528354018	PW-1F (0-0.5)	EPA 7471B	693025	EPA 7471B	693080
10528354019	PW-1G (0-0.5)	EPA 7471B	693025	EPA 7471B	693080
10528354020	PW-1H (0-0.5)	EPA 7471B	693025	EPA 7471B	693080
10528354021	PW-3A (0-0.5)	EPA 7471B	692860	EPA 7471B	693059
10528354022	PW-3B (0-0.5)	EPA 7471B	692860	EPA 7471B	693059
10528354023	PW-3C (0-0.5)	EPA 7471B	692860	EPA 7471B	693059
10528354024	PW-3D (0-0.5)	EPA 7471B	692860	EPA 7471B	693059
10528354025	PW-4A (0-0.5)	EPA 7471B	692860	EPA 7471B	693059
10528354026	PW-4B (0-0.5)	EPA 7471B	692860	EPA 7471B	693059
10528354027	PW-4C (0-0.5)	EPA 7471B	692860	EPA 7471B	693059
10528354028	PW-4D (0-0.5)	EPA 7471B	692860	EPA 7471B	693059
10528354029	PW-5A (0-0.5)	EPA 7471B	692860	EPA 7471B	693059
10528354030	PW-5B (0-0.5)	EPA 7471B	692860	EPA 7471B	693059
10528354031	PW-5C (0-0.5)	EPA 7471B	692860	EPA 7471B	693059
10528354032	PW-5D (0-0.5)	EPA 7471B	692860	EPA 7471B	693059
10528354033	PW-7A (0-0.5)	EPA 7471B	692860	EPA 7471B	693059
10528354034	PW-7B (0-0.5)	EPA 7471B	692860	EPA 7471B	693059
10528354035	Sed-7B (1-1.5)	EPA 7471B	692860	EPA 7471B	693059
10528354036	PW-5E (0-0.5)	EPA 7471B	692860	EPA 7471B	693059
10528354037	PW-7C (0-0.5)	EPA 7471B	692860	EPA 7471B	693059
10528354038	PW-7D (0-0.5)	EPA 7471B	692860	EPA 7471B	693059
10528354039	PW-6A (0-0.5)	EPA 7471B	692860	EPA 7471B	693059
10528354040	PW-6B (0-0.5)	EPA 7471B	692860	EPA 7471B	693059
10528354041	PW-6C (0-0.5)	EPA 7471B	692861	EPA 7471B	693078
10528354042	PW-6D (0-0.5)	EPA 7471B	692861	EPA 7471B	693078
10528354043	PW-6E (0-0.5)	EPA 7471B	692861	EPA 7471B	693078
10528354044	PW-6F (0-0.5)	EPA 7471B	692861	EPA 7471B	693078
10528354045	PW-6G (0-0.5)	EPA 7471B	692861	EPA 7471B	693078
10528354046	PW-5F (0-0.5)	EPA 7471B	692861	EPA 7471B	693078
10528354047	PW-5G (0-0.5)	EPA 7471B	692861	EPA 7471B	693078

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10528354048	**PW-6H (0-0.5)**	EPA 7471B	692861	EPA 7471B	693078
10528354049	**PW-6I (0-0.5)**	EPA 7471B	692861	EPA 7471B	693078
10528354050	**PW-6J (0-0.5)**	EPA 7471B	692861	EPA 7471B	693078
10528354051	**PW-6K (0-0.5)**	EPA 7471B	692861	EPA 7471B	693078
10528354001	**PW-2A (0-0.5)**	ASTM D2974	692703		
10528354002	**PW-2B (0-0.5)**	ASTM D2974	692703		
10528354003	**Sed-2A (1-1.5)**	ASTM D2974	692703		
10528354004	**PW-2C (0-0.5)**	ASTM D2974	692703		
10528354005	**PW-2D (0-0.5)**	ASTM D2974	692703		
10528354006	**PW-2E (0-0.5)**	ASTM D2974	692703		
10528354007	**PW-2F (1-1.5)**	ASTM D2974	692703		
10528354008	**PW-2G (0-0.5)**	ASTM D2974	692703		
10528354009	**PW-2F (0-0.5)**	ASTM D2974	692703		
10528354010	**PW-2H (0-0.5)**	ASTM D2974	692703		
10528354011	**PW-2I (0-0.5)**	ASTM D2974	692703		
10528354012	**PW-2J (0-0.5)**	ASTM D2974	692703		
10528354013	**PW-1A (0-0.5)**	ASTM D2974	692703		
10528354014	**PW-1B (0-0.5)**	ASTM D2974	692703		
10528354015	**PW-1C (0-0.5)**	ASTM D2974	692714		
10528354016	**PW-1D (0-0.5)**	ASTM D2974	692714		
10528354017	**PW-1E (0-0.5)**	ASTM D2974	692714		
10528354018	**PW-1F (0-0.5)**	ASTM D2974	692714		
10528354019	**PW-1G (0-0.5)**	ASTM D2974	692714		
10528354020	**PW-1H (0-0.5)**	ASTM D2974	692714		
10528354021	**PW-3A (0-0.5)**	ASTM D2974	692714		
10528354022	**PW-3B (0-0.5)**	ASTM D2974	692714		
10528354023	**PW-3C (0-0.5)**	ASTM D2974	692714		
10528354024	**PW-3D (0-0.5)**	ASTM D2974	692714		
10528354025	**PW-4A (0-0.5)**	ASTM D2974	692714		
10528354026	**PW-4B (0-0.5)**	ASTM D2974	692714		
10528354027	**PW-4C (0-0.5)**	ASTM D2974	692714		
10528354028	**PW-4D (0-0.5)**	ASTM D2974	692714		
10528354029	**PW-5A (0-0.5)**	ASTM D2974	692714		
10528354030	**PW-5B (0-0.5)**	ASTM D2974	692714		
10528354031	**PW-5C (0-0.5)**	ASTM D2974	692714		
10528354032	**PW-5D (0-0.5)**	ASTM D2974	692714		
10528354033	**PW-7A (0-0.5)**	ASTM D2974	692714		
10528354034	**PW-7B (0-0.5)**	ASTM D2974	692714		
10528354035	**Sed-7B (1-1.5)**	ASTM D2974	692718		
10528354036	**PW-5E (0-0.5)**	ASTM D2974	692718		
10528354037	**PW-7C (0-0.5)**	ASTM D2974	692718		
10528354038	**PW-7D (0-0.5)**	ASTM D2974	692718		
10528354039	**PW-6A (0-0.5)**	ASTM D2974	692718		
10528354040	**PW-6B (0-0.5)**	ASTM D2974	692718		
10528354041	**PW-6C (0-0.5)**	ASTM D2974	692718		
10528354042	**PW-6D (0-0.5)**	ASTM D2974	692718		
10528354043	**PW-6E (0-0.5)**	ASTM D2974	692718		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B1903316.00 Hillcrest Golf Cou-Revised Report
Pace Project No.: 10528354

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10528354044	**PW-6F (0-0.5)**	ASTM D2974	692718		
10528354045	**PW-6G (0-0.5)**	ASTM D2974	692718		
10528354046	**PW-5F (0-0.5)**	ASTM D2974	692718		
10528354047	**PW-5G (0-0.5)**	ASTM D2974	692718		
10528354048	**PW-6H (0-0.5)**	ASTM D2974	692718		
10528354049	**PW-6I (0-0.5)**	ASTM D2974	692718		
10528354050	**PW-6J (0-0.5)**	ASTM D2974	692718		
10528354051	**PW-6K (0-0.5)**	ASTM D2974	692718		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2295322

Section A Required Client Information:

Company:	Braun Intertec
Address:	11001 Hampshire Ave S
	Minneapolis, MN
Email To:	mkeefer@braunintertec.com
Phone:	Fax:
Requested Due Date/TAT:	3 day rush

Section B Required Project Information:

Report To:	Mark Keefer
Copy To:	Ken Larson
Purchase Order No.:	
Project Name:	Hillcrest Golf Course
Project Number:	B1903316.00

Section C Invoice Information:

Attention:	Same
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	34125

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MN

Section D Required Client Information

Matrix Codes (MATRIX / CODE)

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

WO#: 10528354

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Analysis Test: Total Hg	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	PW-2A (0-0.5)	SL	G			8-12-20	806		1	1									-		001
2	PW-2B (0-0.5)						810														002
3	Sed-2A (1-1.5)						808														003
4	PW-2C (0-0.5)						822														004
5	PW-2D (0-0.5)						824														005
6	PW-2E (0-0.5)						8:29														006
7	PW-2F (1-1.5)						8:35														007
8	PW-2G (0-0.5)						8:42														008
9	PW-2F (0-0.5)						8:32														009
10	[illegible]																				
11	PW-2H (0-0.5)						8:46														010
12	PW-2I (0-0.5)						8:50														011

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Some jars have the wrong date on label	Andrew Davis / BIC	8-12-20		PACE	8.13.20	0845	3.4	Y	N	Y
	PACE	8.13.20	0845	Chase D / Ace	8/13/20	1010				
	Chase D / Ace	8/13/20	1125	TNPace	8/13/20	1125	2.2	Y	N	Y
							3.3			

Temps 2.2 3.3

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Andrew Davis

SIGNATURE of SAMPLER: Andrew Davis

DATE Signed (MM/DD/YY): 8-12-20

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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CHAIN-OF-CUSTODY / Analytical Request Document

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2295323

Section A Required Client Information:

Company:	
Address:	Same as Page 1
Email To:	
Phone:	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	
Copy To:	
Purchase Order No.:	
Project Name:	
Project Number:	

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	34125

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: NW

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Analysis Test: Total Hg	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	PW-2J (0-0.5)	SL	G			8-12-20	853		1										1		012
2	PW-1A (0-0.5)						908														013
3	PW-1B (0-0.5)						910														014
4	PW-1C (0-0.5)						916														015
5	PW-1D (0-0.5)						920														016
6	PW-1E (0-0.5)						921														017
7	PW-1F (0-0.5)						923														018
8	PW-1G (0-0.5)						925														019
9	PW-1H (0-0.5)						932														020
10	PW-3A (0-0.5)						944														021
11	PW-3B (0-0.5)						948														022
12	PW-3C (0-0.5)						955														023

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Some jars have wrong date on label	Andrew Davis / BJC	8-12-20		PACE	8.13.20	0845	3.4	Y	N	Y
	PACE	8.13.20	0845	Chase B/Pace	8/13/20	1015				
	Chase B/Pace	8/13/20	1125	TN Pace	81320	1125	2.2	Y	N	Y
							3.3			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Andrew Davis

SIGNATURE of SAMPLER: Andrew Davis

DATE Signed (MM/DD/YY): 8-12-20

ORIGINAL

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CHAIN-OF-CUSTODY / Analytical Request Document

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2295324

Section A Required Client Information:

Company:	
Address:	Same as Page 1
Email To:	
Phone: / Fax:	
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	
Copy To:	
Purchase Order No.:	
Project Name:	
Project Number:	

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	34125

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MN

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: Total Hg	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	PW-3D (0-0.5)	SL	G			8-12-20	1000		1	1									1		024
2	PW-4A (0-0.5)						1016														025
3	PW-4B (0-0.5)						1020														026
4	PW-4C (0-0.5)						1025														027
5	PW-4D (0-0.5)						1030														028
6	PW-5A (0-0.5)						1200														029
7	PW-5B (0-0.5)						1205														030
8	PW-5C (0-0.5)						1216														031
9	PW-5D (0-0.5)						1220														032
10	PW-7A (0-0.5)						1240														033
11	PW-7B (0-0.5)						1246														034
12	Seal-7B (1-1.5)	↓	↓			↓	1247		↓	↓									↓		035

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
some jars have the wrong date on the label	Andrew Davis/BLC	8-12-20		PACE	8.13.20	0845	3.4	Y	N	Y
	PACE	8.13.20	0845	Chase D/Pace	8/13/20	1045				
	Chase D/Pace	8/13/20	1125	TN/Pace	8/13/20	1125	2.2	Y	N	Y
							3.3			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Andrew Davis

SIGNATURE of SAMPLER: Andrew Davis

DATE Signed (MM/DD/YY): 8-12-20

ORIGINAL

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CHAIN-OF-CUSTODY / Analytical Request Document

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2295325

Section A Required Client Information:

Company:	
Address:	Same as Page 1
Email To:	
Phone: / Fax:	
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	
Copy To:	
Purchase Order No.:	
Project Name:	
Project Number:	

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	34125

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MN

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Analysis Test: Total Hg	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	PW-5E (0-0.5)	SL	G			8-12-20	12:22		1	1									Y		036
2	PW-7C (0-0.5)						1257														037
3	PW-7D (0-0.5)						1259														038
4	PW-6A (0-0.5)						1315														039
5	PW-6B (0-0.5)						1319														040
6	PW-6C (0-0.5)						1322														041
7	PW-6D (0-0.5)						1343														042
8	PW-6E (0-0.5)						1406														043
9	PW-6F (0-0.5)						1407														044
10	PW-6G (0-0.5)						1409														045
11	PW-5F (0-0.5)						14:33														046
12	PW-5G (0-0.5)						14:35														047

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
some jars may have the wrong date on the label	Andrew Davis / BIC	8-12-20		PACE	8.13.20	0845	3.4	Y	N	Y
	PACE	8.13.20	0845	Chuck B / Pace	8/13/20	1015				
	Chuck B / Pace	8/13/20	1125	TN Pace	8/13/20	1125	2.2	Y	N	Y
							3.3			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Andrew Davis

SIGNATURE of SAMPLER: Andrew Davis

DATE Signed (MM/DD/YY): 8-12-20

ORIGINAL

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CHAIN-OF-CUSTODY / Analytical Request Document

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2295326

Section A — **Required** Client Information:

Company:	
Address:	Same
Email To:	
Phone:	Fax:
Requested Due Date/TAT:	

Section B — **Required** Project Information:

Report To:	
Copy To:	as Page 1
Purchase Order No.:	
Project Name:	
Project Number:	

Section C — Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	34125

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location — **STATE:** MN

Section D — **Required** Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE)

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Total Hg	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	PW-6H (0-0.5)	SL	G			8/12/20	1440		1	1									1		040
2	PW-6I (0-0.5)	"	"			"	1445		1	1									1		049
3	PW-6J (0-0.5)	"	"			"	1450		1	1									1		050
4	PW-6K (0-0.5)	"	"			"	1508		1	1									1		051
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Andrew Davis / BIC	8.12.20		PACE	8.13.20	0845	3.4	Y	N	Y
	PACE	8.13.20	0845	Chase D / Pace	8/13/20	1015				
	Chase D / Pace	8/13/20	1125	TN / Pace	8/13/20	1125	2.2	Y	N	Y
							3.3			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Andrew Davis

SIGNATURE of SAMPLER: Andrew Davis — DATE Signed (MM/DD/YY): 8-12-20

ORIGINAL

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Pace Analytical®	Document Name: **Sample Condition Upon Receipt (SCUR) - MN**	Document Revised: 12Aug2020 **Page 1 of 1**
	Document No.: **ENV-FRM-MIN4-0150 Rev.01**	Pace Analytical Services - **Minneapolis**

Sample Condition Upon Receipt

Client Name: Braun

Project #:

WO#: 10528354

PM: BM2 **Due Date: 08/20/20**

CLIENT: Braun-BLM

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Pace ☐ SpeeDee ☐ Commercial

Tracking Number: _____ See Exceptions ☐ ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No **Biological Tissue Frozen?** ☐ Yes ☐ No ☑ N/A

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other: _____ **Temp Blank?** ☑ Yes ☐ No

Thermometer: ☐ T1(0461) ☐ T2(1336) ☐ T3(0459) ☐ T4(0254) ☑ T5(0489) **Type of Ice:** ☑ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted

Did Samples Originate in West Virginia? ☐ Yes ☑ No **Were All Container Temps Taken?** ☐ Yes ☐ No ☑ N/A

Temp should be above freezing to 6°C **Cooler Temp Read w/temp blank:** 2.4 3.5 °C

Correction Factor: -0.2 **Cooler Temp Corrected w/temp blank:** 2.2 3.3 °C

Average Corrected Temp (no temp blank only): _____ °C ☐ See Exceptions ENV-FRM-MIN4-0142 ☐ 1 Container

USDA Regulated Soil: (☐ N/A, water sample/Other: _____)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☒ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

Date/Initials of Person Examining Contents: TN 8/13/20

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present and Filled Out?	☑ Yes	☐ No		1.
Chain of Custody Relinquished?	☑ Yes	☐ No		2.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	3.
Samples Arrived within Hold Time?	☑ Yes	☐ No		4.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No		5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other _____
Rush Turn Around Time Requested?	☑ Yes	☐ No		6.
Sufficient Volume?	☑ Yes	☐ No		7.
Correct Containers Used? -Pace Containers Used?	☑ Yes ☑ Yes	☐ No ☐ No		8.
Containers Intact?	☑ Yes	☐ No		9.
Field Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☑ N/A	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Is sufficient information available to reconcile the samples to the COC? Matrix: ☐ Water ☑ Soil ☐ Oil ☐ Other _____	☑ Yes	☐ No		11. **If no, write ID/ Date/Time on Container Below:** **See Exception** ☐ ENV-FRM-MIN4-0142
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☑ N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>10 Cyanide)	☐ Yes	☐ No	☑ N/A	☐ NaOH ☐ HNO_3 ☐ H_2SO_4 ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☐ Yes	☐ No	☑ N/A	Positive for Res. Chlorine? ☐ Yes ☐ No **pH Paper Lot#** **See Exception** ☐ ENV-FRM-MIN4-0142
				Res. Chlorine | 0-6 Roll | 0-6 Strip | 0-14 Strip
Extra labels present on soil VOA or WIDRO containers?	☐ Yes	☐ No	☑ N/A	13. **See Exception** ☐ ENV-FRM-MIN4-0140
Headspace in VOA Vials (greater than 6mm)?	☐ Yes	☐ No	☑ N/A	
Trip Blank Present?	☐ Yes	☐ No	☐ N/A	14.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☐ N/A	Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: BM **Date:** 8/13/2020

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: TN

Service Center Transfer Checklist

Service Center: MPLS ☐ BLM ☒ AZ ☐

Client: Braun Intertec

Destination Lab: MPLS ☒ VM ☐ Duluth ☐

National ☐ Other _____

Received w/ Custody Seal ? Yes ☐ No ☑

Custody Seal Intact ? Yes ☐ No ☑

	Temp Read	Corr. Factor	Corr. Temp
Temperature °C	3.2, 3.3	+0.1	3.3, 3.4

IR Gun: B88A0143310092 ☐ Samples on ice, in cool down

Rush ☑ **Short Hold** ☐ **N/A** ☐

Containers Intact ? Yes ☑ No ☐

Repacked and Re-Iced ? Yes ☐ No ☑

Notes: _____

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

August 20, 2020

Mark Keefer
Braun Intertec
11001 Hampshire Ave S
Bloomington, MN 55438

RE: Project: B1903316.00 Hillcrest Golf
Pace Project No.: 10528764

Dear Mark Keefer:

Enclosed are the analytical results for sample(s) received by the laboratory on August 17, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bob Michels
bob.michels@pacelabs.com
(612)709-5046
Project Manager

Enclosures

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: B1903316.00 Hillcrest Golf
Pace Project No.: 10528764

Pace Analytical Services - Minneapolis MN

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

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SAMPLE SUMMARY

Project: B1903316.00 Hillcrest Golf
Pace Project No.: 10528764

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10528764001	**SW-1**	Water	08/17/20 09:00	08/17/20 15:50
10528764002	**SW-2**	Water	08/17/20 09:45	08/17/20 15:50
10528764003	**SW-3**	Water	08/17/20 10:45	08/17/20 15:50
10528764004	**SW-4**	Water	08/17/20 11:20	08/17/20 15:50
10528764005	**Duplicate 5008172020**	Water	08/17/20 12:00	08/17/20 15:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: B1903316.00 Hillcrest Golf
Pace Project No.: 10528764

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10528764001	**SW-1**	EPA 7470A	LMW	1	PASI-M
		EPA 7470A	LMW	1	PASI-M
10528764002	**SW-2**	EPA 7470A	LMW	1	PASI-M
		EPA 7470A	LMW	1	PASI-M
10528764003	**SW-3**	EPA 7470A	LMW	1	PASI-M
		EPA 7470A	LMW	1	PASI-M
10528764004	**SW-4**	EPA 7470A	LMW	1	PASI-M
		EPA 7470A	LMW	1	PASI-M
10528764005	**Duplicate 5008172020**	EPA 7470A	LMW	1	PASI-M
		EPA 7470A	LMW	1	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest Golf
Pace Project No.: 10528764

Method: **EPA 7470A**
Description: 7470A Mercury
Client: Braun Intertec Corporation
Date: August 20, 2020

General Information:
5 samples were analyzed for EPA 7470A by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: B1903316.00 Hillcrest Golf
Pace Project No.: 10528764

Method: **EPA 7470A**
Description: 7470A Mercury, Dissolved
Client: Braun Intertec Corporation
Date: August 20, 2020

General Information:
5 samples were analyzed for EPA 7470A by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf
Pace Project No.: 10528764

Sample: SW-1 **Lab ID: 10528764001** Collected: 08/17/20 09:00 Received: 08/17/20 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470A Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Minneapolis							
Mercury	ND	ug/L	0.20	1	08/19/20 09:01	08/19/20 18:25	7439-97-6	
7470A Mercury, Dissolved	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Minneapolis							
Mercury, Dissolved	ND	ug/L	0.20	1	08/19/20 09:01	08/19/20 18:08	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf
Pace Project No.: 10528764

Sample: SW-2 **Lab ID: 10528764002** Collected: 08/17/20 09:45 Received: 08/17/20 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470A Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Minneapolis							
Mercury	ND	ug/L	0.20	1	08/19/20 09:01	08/19/20 18:30	7439-97-6	
7470A Mercury, Dissolved	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Minneapolis							
Mercury, Dissolved	ND	ug/L	0.20	1	08/19/20 09:01	08/19/20 18:12	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf
Pace Project No.: 10528764

Sample: SW-3 **Lab ID: 10528764003** Collected: 08/17/20 10:45 Received: 08/17/20 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470A Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Minneapolis							
Mercury	ND	ug/L	0.20	1	08/19/20 09:01	08/19/20 18:31	7439-97-6	
7470A Mercury, Dissolved	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Minneapolis							
Mercury, Dissolved	ND	ug/L	0.20	1	08/19/20 09:01	08/19/20 18:14	7439-97-6	

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf
Pace Project No.: 10528764

Sample: SW-4 **Lab ID: 10528764004** Collected: 08/17/20 11:20 Received: 08/17/20 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470A Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Minneapolis							
Mercury	ND	ug/L	0.20	1	08/19/20 09:01	08/19/20 18:32	7439-97-6	
7470A Mercury, Dissolved	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Minneapolis							
Mercury, Dissolved	ND	ug/L	0.20	1	08/19/20 09:01	08/19/20 18:15	7439-97-6	

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ANALYTICAL RESULTS

Project: B1903316.00 Hillcrest Golf
Pace Project No.: 10528764

Sample: Duplicate 5008172020 **Lab ID: 10528764005** Collected: 08/17/20 12:00 Received: 08/17/20 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470A Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Minneapolis							
Mercury	ND	ug/L	0.20	1	08/19/20 09:01	08/19/20 18:34	7439-97-6	
7470A Mercury, Dissolved	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Minneapolis							
Mercury, Dissolved	ND	ug/L	0.20	1	08/19/20 09:01	08/19/20 18:16	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest Golf
Pace Project No.: 10528764

QC Batch: 693180 | Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A | Analysis Description: 7470A Mercury Water
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10528764001, 10528764002, 10528764003, 10528764004, 10528764005

METHOD BLANK: 3705141 Matrix: Water
Associated Lab Samples: 10528764001, 10528764002, 10528764003, 10528764004, 10528764005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	08/19/20 18:22	

LABORATORY CONTROL SAMPLE: 3705142

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.4	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3705143 3705144

Parameter	Units	10528764001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.7	5.3	113	106	80-120	6	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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(612)607-1700

QUALITY CONTROL DATA

Project: B1903316.00 Hillcrest Golf
Pace Project No.: 10528764

QC Batch: 693181
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470A Mercury Water Dissolved
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10528764001, 10528764002, 10528764003, 10528764004, 10528764005

METHOD BLANK: 3705145 Matrix: Water
Associated Lab Samples: 10528764001, 10528764002, 10528764003, 10528764004, 10528764005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	08/19/20 18:05	

LABORATORY CONTROL SAMPLE: 3705146

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.3	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3705147 3705148

Parameter	Units	10528764001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	5.3	5.5	106	109	80-120	3	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: B1903316.00 Hillcrest Golf
Pace Project No.: 10528764

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B1903316.00 Hillcrest Golf
Pace Project No.: 10528764

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10528764001	**SW-1**	EPA 7470A	693180	EPA 7470A	693652
10528764002	**SW-2**	EPA 7470A	693180	EPA 7470A	693652
10528764003	**SW-3**	EPA 7470A	693180	EPA 7470A	693652
10528764004	**SW-4**	EPA 7470A	693180	EPA 7470A	693652
10528764005	**Duplicate 5008172020**	EPA 7470A	693180	EPA 7470A	693652
10528764001	**SW-1**	EPA 7470A	693181	EPA 7470A	693651
10528764002	**SW-2**	EPA 7470A	693181	EPA 7470A	693651
10528764003	**SW-3**	EPA 7470A	693181	EPA 7470A	693651
10528764004	**SW-4**	EPA 7470A	693181	EPA 7470A	693651
10528764005	**Duplicate 5008172020**	EPA 7470A	693181	EPA 7470A	693651

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

2295399

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: BRAUN INTERTEC	Report To: Mark Keefer	Attention:
Address: 11001 Hampshire	Copy To:	Company Name: Same
		Address: as
Email To: mkeefer@braunintertec.com	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name: Hillcrest Golf	Pace Project Manager:
Requested Due Date/TAT:	Project Number: B1903316.00	Pace Profile #: 39125 Client

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MN

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

WO#: 10528764

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: Total Mercury	Dissolved Mercury	Pace Project No./ Lab I.D.
1	SW-1	WT	G			8/17	900		2			2						X		
2	SW-1 filtered						901		1			1							X	001
3	SW-2						946		1			1						X		
4	SW-2 filtered						946		1			1							X	002
5	SW-3						1045		1			1						X		
6	SW-3 filtered						1646		1			1							X	003
7	SW-4						1120		1			1						X		
8	SW-4 filtered						1121		1			1							X	004
9	Duplicate5008172020						1200		1			1						X		
10	Duplicate5008172020-Filtered						1201		1			1							X	005
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Graham Hansen	8/17	13:35	Pace	8/17/2020	13:35	4.1	Y	N	Y
	Pace	8/17/2020	13:35	Chase D/ Pace	8/17/20	1440				
	Chase D/ Pace	8/17/20	1550		8/17/20	1550	0.5	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Max Longhauser

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 08/17/20

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-C-010-rev.00, 09Nov2017

Pace Analytical®	Document Name: **Sample Condition Upon Receipt (SCUR) - MN**	Document Revised: 12Aug2020 **Page 1 of 1**
	Document No.: **ENV-FRM-MIN4-0150 Rev.01**	Pace Analytical Services - **Minneapolis**

Sample Condition Upon Receipt

Client Name: Braun BLM

Project #:

WO#: 10528764

PM: BM2 **Due Date: 08/24/20**

CLIENT: Braun-BLM

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Pace ☐ SpeeDee ☐ Commercial

Tracking Number: _____ See Exceptions ☐ ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☒ No **Biological Tissue Frozen?** ☐ Yes ☐ No ☒ N/A

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other: _____ **Temp Blank?** ☒ Yes ☐ No

Thermometer: ☑ T1(0461) ☐ T2(1336) ☐ T3(0459) ☐ T4(0254) ☐ T5(0489) **Type of Ice:** ☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted

Did Samples Originate in West Virginia? ☐ Yes ☑ No **Were All Container Temps Taken?** ☐ Yes ☐ No ☒ N/A

Temp should be above freezing to 6°C **Cooler Temp Read w/temp blank:** 0.7 °C **Average Corrected Temp (no temp blank only):** _____ °C ☐ See Exceptions ENV-FRM-MIN4-0142 ☐ 1 Container

Correction Factor: -0.2 **Cooler Temp Corrected w/temp blank:** 0.5 °C

USDA Regulated Soil: (☒ N/A, water sample/Other: _____) **Date/Initials of Person Examining Contents:** 8.17.20

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☒ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present and Filled Out?	☒ Yes	☐ No		1.
Chain of Custody Relinquished?	☒ Yes	☐ No		2.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	3.
Samples Arrived within Hold Time?	☒ Yes	☐ No		4.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No		5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other _____
Rush Turn Around Time Requested?	☐ Yes	☒ No		6.
Sufficient Volume?	☒ Yes	☐ No		7.
Correct Containers Used? -Pace Containers Used?	☒ Yes ☒ Yes	☐ No ☐ No		8.
Containers Intact?	☒ Yes	☐ No		9.
Field Filtered Volume Received for Dissolved Tests?	☒ Yes	☐ No	☐ N/A	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Is sufficient information available to reconcile the samples to the COC?	☒ Yes	☐ No		11. **If no, write ID/ Date/Time on Container Below:** **See Exception** ☐ **ENV-FRM-MIN4-0142**
Matrix: ☒ Water ☐ Soil ☐ Oil ☐ Other _____				
All containers needing acid/base preservation have been checked?	☒ Yes	☐ No	☐ N/A	12. Sample # 1-10 ½
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>10 Cyanide)	☒ Yes	☐ No	☐ N/A	☐ NaOH ☒ HNO_3 ☐ H_2SO_4 ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☐ Yes	☐ No	☒ N/A	Positive for Res. Chlorine? ☐ Yes ☐ No **pH Paper Lot#** 203619 **See Exception** ☐ **ENV-FRM-MIN4-0142**
				Res. Chlorine: 0-6 Roll: 0-6 Strip: 0-14 Strip:
Extra labels present on soil VOA or WIDRO containers?	☐ Yes	☐ No	☒ N/A	13. **See Exception** ☐ **ENV-FRM-MIN4-0140**
Headspace in VOA Vials (greater than 6mm)?	☐ Yes	☐ No	☒ N/A	
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	14.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: BM **Date:** 8/18/2020

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: CM

Service Center Transfer Checklist

Service Center: MPLS ☐ BLM ☒ AZ ☐

Client: Braun Intertec

Destination Lab: MPLS ☒ VM ☐ Duluth ☐

National ☐ Other _____

Received w/ Custody Seal ? Yes ☐ No ☒

Custody Seal Intact ? Yes ☐ No ☒

	Temp Read	Corr. Factor	Corr. Temp
Temperature °C	4.0	+0.1	4.1

IR Gun: B88A0143310092 ☐ Samples on ice, in cool down

Rush ☐ **Short Hold** ☐ **N/A** ☒

Containers Intact ? Yes ☒ No ☐

Repacked and Re-Iced ? Yes ☒ No ☐

Notes: _____

Attachment 6

2020 RI MDA Laboratory Analytical Report Review Forms

BRAUN INTERTEC

MINNESOTA

Minnesota Department of Agriculture 651-201-6148
Minnesota Department of Health 651-201-5357
Minnesota Pollution Control Agency 651-757-2560

Laboratory Data Review Checklist

ATTACHMENT: LABORATORY DATA REVIEW GUIDANCE

INSTRUCTIONS

The following is the informal checklist that should be used to review data for the Minnesota Department of Agriculture, Minnesota Pollution Control Agency and Minnesota Department of Health. The information follows the general format of the National Functional Guidelines, which is the primary data review tool used in the U.S. Environmental Protection Agency's Contract Laboratory Program for Superfund analytical work. Refer to the appropriate guidance document for each agency for instructions.

PROJECT INFORMATION

Project Name	Laboratory	
Former Hillcrest Golf Course	Pace Analytical Services	
Work Order Number / Lab Report ID	Report Date	Review Date
10521027	6/17/2020	7-1-2020
	Reviewer's Signature: Mark Keefer	Digitally signed by Mark Keefer Date: 2021.07.10 07:44:27 -05'00'

1. CHAIN OF CUSTODY, PRESERVATION AND HOLDING TIMES

	QUESTION	YES	NO	N/A	COMMENTS
A	Is there a chain of custody (COC) with the report?	✓			
B	Is there a sample condition form with the report?	✓			
C	Were the samples preserved according to program requirements?	✓			
D	Were samples received in the correct containers?	✓			
	i. Was there enough sample volume/weight to complete all requested analyses?	✓			
	ii. Was there enough sample collected to complete required batch QC?	✓			
E	Were samples received within holding time for sample prep for all requested analyses?	✓			
F	Are there notes about sample condition or holding time issues on the COC? Explain the data impact.		✓		
G	Are there narration or data qualifiers with the report about sample condition or holding time issues? Explain the data impact.		✓		
H	Are the lab IDs cross-referenced correctly with the field IDs?	✓			

2. CALIBRATION

	QUESTION	YES	NO	N/A	COMMENTS
A	Do the report narrative or data qualifiers indicate calibration problems for any analyses? If yes, explain the data impact.		✓		See below.

3. BLANKS

	QUESTION	YES	NO	N/A	COMMENTS
	Do any of the analyses contain samples for field or trip blanks?		✓		
A	i. If yes, are there target analytes present above the reporting limit in the blanks?			✓	
	ii. If yes, are the same compounds also present in the samples? Explain the possible data impact.			✓	
	Do method blanks for any analyses contain target analytes above the reporting limit?		✓		
B	i. If yes, are the same compounds present in the samples?			✓	
	ii. Is the amount of target analyte in the method blank more than 1/10th of that in the sample(s)? Explain the possible impact on the sample results.			✓	
C	Do instrument blanks contain analytes above the reporting limit?		✓		

4. SURROGATES - ORGANIC ANALYSIS

	QUESTION	YES	NO	N/A	COMMENTS
A	Are the lab recovery limits for surrogates specified on the report?			✓	
	Are the surrogates outside lab QC limits? (These should have a data qualifier.)			✓	
	i. If yes, are the surrogates above the lab QC limits?			✓	
B	ii. Below the lab QC limits?			✓	
	iii. Were the affected samples re-analyzed? Discuss in the case narrative.			✓	
	iv. Explain what this could mean for the affected samples. Include in narrative.			✓	

5. LABORATORY CONTROL SAMPLE (LCS) LABORATORY CONTROL SAMPLE DUPLICATE (LCSD)

	QUESTION	YES	NO	N/A	COMMENTS
A	Are there LCS/LCSD samples present for the reported analyses?	✓			
B	Are there LCS/LCSD compounds outside lab limits? If the LCS/LCSD fails, the LCS/LCSD and samples must be re-analyzed.		✓		
	i. If yes, are there compounds above the lab QC limits? If yes, an explanation is required. Include in narrative.			✓	
	ii. Below the lab QC limits? If yes, an explanation is required. Include in narrative.			✓	

6. MATRIX SPIKE (MS) MATRIX SPIKE DUPLICATE (MSD) SAMPLE DUPLICATE (DUP)

	QUESTION	YES	NO	N/A	COMMENTS
A	Do the analytical methods used require an MS and/or MSD? If no, skip to 6 B.	✓			
	i. Have the required matrix spikes been prepared and reported?	✓			
	ii. If no, is there an explanation in the report as to why?			✓	
	iii. Did the lab process an alternate spiked sample such as an LCSD instead?			✓	
	iv. Are the lab QC limits specified in the report?	✓			
	v. Are there compounds outside the lab QC limits?		✓		
	vi. If yes, did the lab re-run an MS/MSD?			✓	
	1. Did the re-run MS/MSD pass? Discuss in the case narrative.			✓	
	2. Did the re-run MS/MSD fail? Discuss in the case narrative.			✓	
	3. Is the source sample flagged for MS/MSD compounds outside the lab QC limits?			✓	
B	Was a duplicate sample submitted for the analytical method(s)?	✓			
	i. Is the Relative Percentage Difference (RPD) within 20%* for the duplicate pair? If no, explain possible causes and data impact. *Other RPD's may be acceptable. Check with regulatory agency.		✓		Results on some samples exceeded 20%, however with the exception of two samples, the results were consistent in regards to exceeding or being below soil standards. Soils vary.

7. REPORTING LIMITS

	QUESTION	YES	NO	N/A	COMMENTS
A	Are reporting limits clearly listed on the report for all analyses?	✓			
B	Do the reporting limits meet the program required limits listed? If not, an explanation is required.	✓			

8. SAMPLE INFORMATION

	QUESTION	YES	NO	N/A	COMMENTS
A	Are sample numbers cross-referenced correctly with the associated QC?	✓			
B	Are soil samples reported in dry weight basis?	✓			
C	Are percent moisture results reported?	✓			
D	Are positive detections reported?	✓			
E	Are sample analytes appropriately flagged if the QC failed?	✓			

9. REPORT NARRATIVE

	QUESTION	YES	NO	N/A	COMMENTS
A	Is a narrative provided with the laboratory report which describes all problems with the analyses and all corrective actions taken to address these problems?	✓			

10. ADDITIONAL COMMENTS ABOUT THE LAB REPORT

Soil is a highly variable matrix, therefore, the fact that some duplicate samples were above the 20% RPD is not surprising. Results on some samples exceeded 20%, however with the exception of two samples, the results were consistent in regards to exceeding or being below soil standards.

Based upon the review of the laboratory data, the identified QAQC occurrences above do not affect the usability of the data for evaluating inorganic concentration results.

In accordance with the Americans with Disabilities Act, this information is available in alternative forms of communication upon request by calling 651-201-6000. TTY users can call the Minnesota Relay Service at 711. The MDA is an equal opportunity employer and provider.

MINNESOTA

Minnesota Department of Agriculture 651-201-6148
Minnesota Department of Health 651-201-5357
Minnesota Pollution Control Agency 651-757-2560

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PROJECT INFORMATION

Project Name	Laboratory	
Former Hillcrest Golf Course	Pace Analytical Services	
Work Order Number / Lab Report ID	Report Date	Review Date
10521458	June 12, 2020	7/13/2020
	Reviewer's Signature: Mark Keefer	Digitally signed by Mark Keefer Date: 2021.07.10 07:45:05 -05'00'

1. CHAIN OF CUSTODY, PRESERVATION AND HOLDING TIMES

	QUESTION	YES	NO	N/A	COMMENTS
A	Is there a chain of custody (COC) with the report?	✓			
B	Is there a sample condition form with the report?	✓			
C	Were the samples preserved according to program requirements?	✓			
D	Were samples received in the correct containers?	✓			
	i. Was there enough sample volume/weight to complete all requested analyses?	✓			
	ii. Was there enough sample collected to complete required batch QC?	✓			
E	Were samples received within holding time for sample prep for all requested analyses?	✓			
F	Are there notes about sample condition or holding time issues on the COC? Explain the data impact.				
G	Are there narration or data qualifiers with the report about sample condition or holding time issues? Explain the data impact.		✓		
H	Are the lab IDs cross-referenced correctly with the field IDs?	✓			

2. CALIBRATION

	QUESTION	YES	NO	N/A	COMMENTS
A	Do the report narrative or data qualifiers indicate calibration problems for any analyses? If yes, explain the data impact.		✓		See below.

3. BLANKS

	QUESTION	YES	NO	N/A	COMMENTS
	Do any of the analyses contain samples for field or trip blanks?		✓		
A	i. If yes, are there target analytes present above the reporting limit in the blanks?			✓	
	ii. If yes, are the same compounds also present in the samples? Explain the possible data impact.			✓	
	Do method blanks for any analyses contain target analytes above the reporting limit?		✓		
B	i. If yes, are the same compounds present in the samples?			✓	
	ii. Is the amount of target analyte in the method blank more than 1/10th of that in the sample(s)? Explain the possible impact on the sample results.			✓	
C	Do instrument blanks contain analytes above the reporting limit?		✓		

4. SURROGATES - ORGANIC ANALYSIS

	QUESTION	YES	NO	N/A	COMMENTS
A	Are the lab recovery limits for surrogates specified on the report?			✓	
	Are the surrogates outside lab QC limits? (These should have a data qualifier.)			✓	
	i. If yes, are the surrogates above the lab QC limits?			✓	
B	ii. Below the lab QC limits?			✓	
	iii. Were the affected samples re-analyzed? Discuss in the case narrative.			✓	
	iv. Explain what this could mean for the affected samples. Include in narrative.			✓	

5. LABORATORY CONTROL SAMPLE (LCS) LABORATORY CONTROL SAMPLE DUPLICATE (LCSD)

	QUESTION	YES	NO	N/A	COMMENTS
A	Are there LCS/LCSD samples present for the reported analyses?	✓			
B	Are there LCS/LCSD compounds outside lab limits? If the LCS/LCSD fails, the LCS/LCSD and samples must be re-analyzed.		✓		
	i. If yes, are there compounds above the lab QC limits? If yes, an explanation is required. Include in narrative.			✓	
	ii. Below the lab QC limits? If yes, an explanation is required. Include in narrative.				

6. MATRIX SPIKE (MS) MATRIX SPIKE DUPLICATE (MSD) SAMPLE DUPLICATE (DUP)

	QUESTION	YES	NO	N/A	COMMENTS
A	Do the analytical methods used require an MS and/or MSD? If no, skip to 6 B.	✓			
	i. Have the required matrix spikes been prepared and reported?	✓			
	ii. If no, is there an explanation in the report as to why?			✓	
	iii. Did the lab process an alternate spiked sample such as an LCSD instead?			✓	
	iv. Are the lab QC limits specified in the report?	✓			
	v. Are there compounds outside the lab QC limits?	✓			
	vi. If yes, did the lab re-run an MS/MSD?		✓		
	1. Did the re-run MS/MSD pass? Discuss in the case narrative.			✓	
	2. Did the re-run MS/MSD fail? Discuss in the case narrative.			✓	
	3. Is the source sample flagged for MS/MSD compounds outside the lab QC limits?	✓			Elevated concentrations in source sample. Batch accepted based on laboratory control sample (LC
B	Was a duplicate sample submitted for the analytical method(s)?	✓			
	i. Is the Relative Percentage Difference (RPD) within 20%* for the duplicate pair? If no, explain possible causes and data impact. *Other RPD's may be acceptable. Check with regulatory agency.		✓		

7. REPORTING LIMITS

	QUESTION	YES	NO	N/A	COMMENTS
A	Are reporting limits clearly listed on the report for all analyses?	✓			
B	Do the reporting limits meet the program required limits listed? If not, an explanation is required.	✓			

8. SAMPLE INFORMATION

	QUESTION	YES	NO	N/A	COMMENTS
A	Are sample numbers cross-referenced correctly with the associated QC?	✓			
B	Are soil samples reported in dry weight basis?	✓			
C	Are percent moisture results reported?	✓			
D	Are positive detections reported?	✓			
E	Are sample analytes appropriately flagged if the QC failed?	✓			

9. REPORT NARRATIVE

	QUESTION	YES	NO	N/A	COMMENTS
A	Is a narrative provided with the laboratory report which describes all problems with the analyses and all corrective actions taken to address these problems?	✓			

10. ADDITIONAL COMMENTS ABOUT THE LAB REPORT

The report was revised on January 08, 2021 to correct a typo in a sample ID name. The MS/MSDS failed or could not be completed for several samples due to elevated concentrations of the analyte in the sample or due to matrix dilution.

MINNESOTA

Minnesota Department of Agriculture 651-201-6148
Minnesota Department of Health 651-201-5357
Minnesota Pollution Control Agency 651-757-2560

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PROJECT INFORMATION

Project Name	Laboratory	
Former Hillcrest Golf Course	Pace Analytical Services	
Work Order Number / Lab Report ID	Report Date	Review Date
10521749	6.23.2020	7.16.2020
	Reviewer's Signature: Mark Keefer	Digitally signed by Mark Keefer Date: 2021.07.10 07:47:18 -05'00'

1. CHAIN OF CUSTODY, PRESERVATION AND HOLDING TIMES

	QUESTION	YES	NO	N/A	COMMENTS
A	Is there a chain of custody (COC) with the report?	✓			
B	Is there a sample condition form with the report?	✓			
C	Were the samples preserved according to program requirements?	✓			
D	Were samples received in the correct containers?	✓			
	i. Was there enough sample volume/weight to complete all requested analyses?	✓			
	ii. Was there enough sample collected to complete required batch QC?	✓			
E	Were samples received within holding time for sample prep for all requested analyses?	✓			
F	Are there notes about sample condition or holding time issues on the COC? Explain the data impact.				
G	Are there narration or data qualifiers with the report about sample condition or holding time issues? Explain the data impact.		✓		
H	Are the lab IDs cross-referenced correctly with the field IDs?	✓			

2. CALIBRATION

	QUESTION	YES	NO	N/A	COMMENTS
A	Do the report narrative or data qualifiers indicate calibration problems for any analyses? If yes, explain the data impact.		✓		See below.

3. BLANKS

	QUESTION	YES	NO	N/A	COMMENTS
	Do any of the analyses contain samples for field or trip blanks?		✓		
A	i. If yes, are there target analytes present above the reporting limit in the blanks?			✓	
	ii. If yes, are the same compounds also present in the samples? Explain the possible data impact.			✓	
	Do method blanks for any analyses contain target analytes above the reporting limit?		✓		
B	i. If yes, are the same compounds present in the samples?			✓	
	ii. Is the amount of target analyte in the method blank more than 1/10th of that in the sample(s)? Explain the possible impact on the sample results.			✓	
C	Do instrument blanks contain analytes above the reporting limit?		✓		

4. SURROGATES - ORGANIC ANALYSIS

	QUESTION	YES	NO	N/A	COMMENTS
A	Are the lab recovery limits for surrogates specified on the report?			✓	
	Are the surrogates outside lab QC limits? (These should have a data qualifier.)			✓	
	i. If yes, are the surrogates above the lab QC limits?			✓	
B	ii. Below the lab QC limits?			✓	
	iii. Were the affected samples re-analyzed? Discuss in the case narrative.			✓	
	iv. Explain what this could mean for the affected samples. Include in narrative.			✓	

5. LABORATORY CONTROL SAMPLE (LCS) LABORATORY CONTROL SAMPLE DUPLICATE (LCSD)

	QUESTION	YES	NO	N/A	COMMENTS
A	Are there LCS/LCSD samples present for the reported analyses?	✓			
B	Are there LCS/LCSD compounds outside lab limits? If the LCS/LCSD fails, the LCS/LCSD and samples must be re-analyzed.		✓		
	i. If yes, are there compounds above the lab QC limits? If yes, an explanation is required. Include in narrative.			✓	
	ii. Below the lab QC limits? If yes, an explanation is required. Include in narrative.			✓	

6. MATRIX SPIKE (MS) MATRIX SPIKE DUPLICATE (MSD) SAMPLE DUPLICATE (DUP)

	QUESTION	YES	NO	N/A	COMMENTS
A	Do the analytical methods used require an MS and/or MSD? If no, skip to 6 B.	✓			
	i. Have the required matrix spikes been prepared and reported?	✓			
	ii. If no, is there an explanation in the report as to why?			✓	
	iii. Did the lab process an alternate spiked sample such as an LCSD instead?			✓	
	iv. Are the lab QC limits specified in the report?	✓			
	v. Are there compounds outside the lab QC limits?	✓			See note at end of document
	vi. If yes, did the lab re-run an MS/MSD?		✓		
	1. Did the re-run MS/MSD pass? Discuss in the case narrative.			✓	
	2. Did the re-run MS/MSD fail? Discuss in the case narrative.			✓	
	3. Is the source sample flagged for MS/MSD compounds outside the lab QC limits?	✓			
B	Was a duplicate sample submitted for the analytical method(s)?		✓		
	i. Is the Relative Percentage Difference (RPD) within 20%* for the duplicate pair? If no, explain possible causes and data impact. *Other RPD's may be acceptable. Check with regulatory agency.			✓	

7. REPORTING LIMITS

	QUESTION	YES	NO	N/A	COMMENTS
A	Are reporting limits clearly listed on the report for all analyses?	✓			
B	Do the reporting limits meet the program required limits listed? If not, an explanation is required.	✓			

8. SAMPLE INFORMATION

	QUESTION	YES	NO	N/A	COMMENTS
A	Are sample numbers cross-referenced correctly with the associated QC?	✓			
B	Are soil samples reported in dry weight basis?	✓			
C	Are percent moisture results reported?	✓			
D	Are positive detections reported?	✓			
E	Are sample analytes appropriately flagged if the QC failed?	✓			

9. REPORT NARRATIVE

	QUESTION	YES	NO	N/A	COMMENTS
A	Is a narrative provided with the laboratory report which describes all problems with the analyses and all corrective actions taken to address these problems?	✓			

10. ADDITIONAL COMMENTS ABOUT THE LAB REPORT

• Matrix spike recovery was outside laboratory control limits for Mercury in samples 10521749002 (SS-49 (1-1.5). The laboratory accepted the batch based upon the laboratory control samples. The reported result was non detect. The affected data was been flagged on the data summary report and is considered an estimated result.

In accordance with the Americans with Disabilities Act, this information is available in alternative forms of communication upon request by calling 651-201-6000. TTY users can call the Minnesota Relay Service at 711. The MDA is an equal opportunity employer and provider.

MINNESOTA

Minnesota Department of Agriculture 651-201-6148
Minnesota Department of Health 651-201-5357
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PROJECT INFORMATION

Project Name	Laboratory	
Former Hillcrest Golf Course	Pace Analytical Services	
Work Order Number / Lab Report ID	Report Date	Review Date
10522569	8, 20, 2020	10.1.2020
	Reviewer's Signature: Mark Keefer	Digitally signed by Mark Keefer Date: 2021.07.10 07:46:37 -05'00'

1. CHAIN OF CUSTODY, PRESERVATION AND HOLDING TIMES

	QUESTION	YES	NO	N/A	COMMENTS
A	Is there a chain of custody (COC) with the report?	✓			
B	Is there a sample condition form with the report?	✓			
C	Were the samples preserved according to program requirements?	✓			
D	Were samples received in the correct containers?	✓			
	i. Was there enough sample volume/weight to complete all requested analyses?	✓			
	ii. Was there enough sample collected to complete required batch QC?	✓			
E	Were samples received within holding time for sample prep for all requested analyses?		✓		Equipment blank for Chloromethane was outside of hold, non detect in samples
F	Are there notes about sample condition or holding time issues on the COC? Explain the data impact.				
G	Are there narration or data qualifiers with the report about sample condition or holding time issues? Explain the data impact.		✓		
H	Are the lab IDs cross-referenced correctly with the field IDs?	✓			

2. CALIBRATION

	QUESTION	YES	NO	N/A	COMMENTS
A	Do the report narrative or data qualifiers indicate calibration problems for any analyses? If yes, explain the data impact.	✓			See comments at end of document

3. BLANKS

	QUESTION	YES	NO	N/A	COMMENTS
	Do any of the analyses contain samples for field or trip blanks?	✓			
A	i. If yes, are there target analytes present above the reporting limit in the blanks?	✓			Trace PAHs in Equipment blank
	ii. If yes, are the same compounds also present in the samples? Explain the possible data impact.		✓		
	Do method blanks for any analyses contain target analytes above the reporting limit?		✓		
B	i. If yes, are the same compounds present in the samples?			✓	
	ii. Is the amount of target analyte in the method blank more than 1/10th of that in the sample(s)? Explain the possible impact on the sample results.			✓	
C	Do instrument blanks contain analytes above the reporting limit?		✓		

4. SURROGATES - ORGANIC ANALYSIS

	QUESTION	YES	NO	N/A	COMMENTS
A	Are the lab recovery limits for surrogates specified on the report?	✓			
	Are the surrogates outside lab QC limits? (These should have a data qualifier.)		✓		
	i. If yes, are the surrogates above the lab QC limits?			✓	
B	ii. Below the lab QC limits?		✓		
	iii. Were the affected samples re-analyzed? Discuss in the case narrative.			✓	
	iv. Explain what this could mean for the affected samples. Include in narrative.			✓	

5. LABORATORY CONTROL SAMPLE (LCS) LABORATORY CONTROL SAMPLE DUPLICATE (LCSD)

	QUESTION	YES	NO	N/A	COMMENTS
A	Are there LCS/LCSD samples present for the reported analyses?	✓			
B	Are there LCS/LCSD compounds outside lab limits? If the LCS/LCSD fails, the LCS/LCSD and samples must be re-analyzed.	✓			
	i. If yes, are there compounds above the lab QC limits? If yes, an explanation is required. Include in narrative.	✓			See notes at end of document
	ii. Below the lab QC limits? If yes, an explanation is required. Include in narrative.		✓		

6. MATRIX SPIKE (MS) MATRIX SPIKE DUPLICATE (MSD) SAMPLE DUPLICATE (DUP)

	QUESTION	YES	NO	N/A	COMMENTS
A	Do the analytical methods used require an MS and/or MSD? If no, skip to 6 B.	✓			
	i. Have the required matrix spikes been prepared and reported?	✓			
	ii. If no, is there an explanation in the report as to why?			✓	
	iii. Did the lab process an alternate spiked sample such as an LCSD instead?			✓	
	iv. Are the lab QC limits specified in the report?	✓			
	v. Are there compounds outside the lab QC limits?	✓			See notes
	vi. If yes, did the lab re-run an MS/MSD?			✓	
	1. Did the re-run MS/MSD pass? Discuss in the case narrative.			✓	
	2. Did the re-run MS/MSD fail? Discuss in the case narrative.			✓	
	3. Is the source sample flagged for MS/MSD compounds outside the lab QC limits?			✓	
B	Was a duplicate sample submitted for the analytical method(s)?	✓			
	i. Is the Relative Percentage Difference (RPD) within 20%* for the duplicate pair? If no, explain possible causes and data impact. *Other RPD's may be acceptable. Check with regulatory agency.		✓		Soil is a highly variable matrix, results were still either above or below standards for both samples

7. REPORTING LIMITS

	QUESTION	YES	NO	N/A	COMMENTS
A	Are reporting limits clearly listed on the report for all analyses?	✓			
B	Do the reporting limits meet the program required limits listed? If not, an explanation is required.	✓			

8. SAMPLE INFORMATION

	QUESTION	YES	NO	N/A	COMMENTS
A	Are sample numbers cross-referenced correctly with the associated QC?	✓			
B	Are soil samples reported in dry weight basis?	✓			
C	Are percent moisture results reported?	✓			
D	Are positive detections reported?	✓			
E	Are sample analytes appropriately flagged if the QC failed?	✓			

9. REPORT NARRATIVE

	QUESTION	YES	NO	N/A	COMMENTS
A	Is a narrative provided with the laboratory report which describes all problems with the analyses and all corrective actions taken to address these problems?	✓			

10. ADDITIONAL COMMENTS ABOUT THE LAB REPORT

The continuing calibration for Chloromethane in the Equipment Blank (Water) was outside of Pace Analytical acceptance limits. The result may be biased. The sample was a equipment blank, and there were no detections for Chloromethane in the samples, therefore the continuing calibration issue does not affect the usability of the data.
•Some VOCs were above LSC suggesting a high bias, all samples were non-detect, thus the high bias did not affect usability of the data.
A matrix spike and/or matrix spike duplicate (MS/MSD) for Nitrogen, Kjeldahl, Totalwere performed on the following sample(s): 10522569012,12148110001. Matrix spike recovery exceeded QC limits, due to elevated target analyte concentrations in the matrix materials. Batch accepted based on laboratory control sample (LCS) recovery.

MINNESOTA

Minnesota Department of Agriculture 651-201-6148
Minnesota Department of Health 651-201-5357
Minnesota Pollution Control Agency 651-757-2560

Laboratory Data Review Checklist

ATTACHMENT: LABORATORY DATA REVIEW GUIDANCE

INSTRUCTIONS

The following is the informal checklist that should be used to review data for the Minnesota Department of Agriculture, Minnesota Pollution Control Agency and Minnesota Department of Health. The information follows the general format of the National Functional Guidelines, which is the primary data review tool used in the U.S. Environmental Protection Agency's Contract Laboratory Program for Superfund analytical work. Refer to the appropriate guidance document for each agency for instructions.

PROJECT INFORMATION

Project Name	Laboratory	
Former Hillcrest Golf Course	Pace Analytical Services	
Work Order Number / Lab Report ID	Report Date	Review Date
10522687	8,20,2020	10.1.2020
	Reviewer's Signature: Mark Keefer	Digitally signed by Mark Keefer Date: 2021.07.10 07:47:07 -05'00'

1. CHAIN OF CUSTODY, PRESERVATION AND HOLDING TIMES

	QUESTION	YES	NO	N/A	COMMENTS
A	Is there a chain of custody (COC) with the report?	✓			
B	Is there a sample condition form with the report?	✓			
C	Were the samples preserved according to program requirements?	✓			
D	Were samples received in the correct containers?	✓			
	i. Was there enough sample volume/weight to complete all requested analyses?	✓			
	ii. Was there enough sample collected to complete required batch QC?	✓			
E	Were samples received within holding time for sample prep for all requested analyses?	✓			
F	Are there notes about sample condition or holding time issues on the COC? Explain the data impact.				
G	Are there narration or data qualifiers with the report about sample condition or holding time issues? Explain the data impact.		✓		
H	Are the lab IDs cross-referenced correctly with the field IDs?	✓			

2. CALIBRATION

	QUESTION	YES	NO	N/A	COMMENTS
A	Do the report narrative or data qualifiers indicate calibration problems for any analyses? If yes, explain the data impact.	✓			See below.

3. BLANKS

	QUESTION	YES	NO	N/A	COMMENTS
	Do any of the analyses contain samples for field or trip blanks?				
A	i. If yes, are there target analytes present above the reporting limit in the blanks?		✓		
	ii. If yes, are the same compounds also present in the samples? Explain the possible data impact.			✓	
	Do method blanks for any analyses contain target analytes above the reporting limit?			✓	
B	i. If yes, are the same compounds present in the samples?			✓	
	ii. Is the amount of target analyte in the method blank more than 1/10th of that in the sample(s)? Explain the possible impact on the sample results.			✓	
C	Do instrument blanks contain analytes above the reporting limit?		✓		

4. SURROGATES - ORGANIC ANALYSIS

	QUESTION	YES	NO	N/A	COMMENTS
A	Are the lab recovery limits for surrogates specified on the report?	✓			
	Are the surrogates outside lab QC limits? (These should have a data qualifier.)		✓		
	i. If yes, are the surrogates above the lab QC limits?			✓	
B	ii. Below the lab QC limits?			✓	
	iii. Were the affected samples re-analyzed? Discuss in the case narrative.			✓	
	iv. Explain what this could mean for the affected samples. Include in narrative.			✓	

5. LABORATORY CONTROL SAMPLE (LCS) LABORATORY CONTROL SAMPLE DUPLICATE (LCSD)

	QUESTION	YES	NO	N/A	COMMENTS
A	Are there LCS/LCSD samples present for the reported analyses?	✓			
B	Are there LCS/LCSD compounds outside lab limits? If the LCS/LCSD fails, the LCS/LCSD and samples must be re-analyzed.		✓		
	i. If yes, are there compounds above the lab QC limits? If yes, an explanation is required. Include in narrative.			✓	
	ii. Below the lab QC limits? If yes, an explanation is required. Include in narrative.			✓	

6. MATRIX SPIKE (MS) MATRIX SPIKE DUPLICATE (MSD) SAMPLE DUPLICATE (DUP)

	QUESTION	YES	NO	N/A	COMMENTS
A	Do the analytical methods used require an MS and/or MSD? If no, skip to 6 B.	✓			
	i. Have the required matrix spikes been prepared and reported?	✓			
	ii. If no, is there an explanation in the report as to why?			✓	
	iii. Did the lab process an alternate spiked sample such as an LCSD instead?			✓	
	iv. Are the lab QC limits specified in the report?	✓			
	v. Are there compounds outside the lab QC limits?	✓			
	vi. If yes, did the lab re-run an MS/MSD?		✓		
	1. Did the re-run MS/MSD pass? Discuss in the case narrative.			✓	
	2. Did the re-run MS/MSD fail? Discuss in the case narrative.			✓	
	3. Is the source sample flagged for MS/MSD compounds outside the lab QC limits?			✓	
B	Was a duplicate sample submitted for the analytical method(s)?	✓			
	i. Is the Relative Percentage Difference (RPD) within 20%* for the duplicate pair? If no, explain possible causes and data impact. *Other RPD's may be acceptable. Check with regulatory agency.	✓			see note below

7. REPORTING LIMITS

	QUESTION	YES	NO	N/A	COMMENTS
A	Are reporting limits clearly listed on the report for all analyses?	✓			
B	Do the reporting limits meet the program required limits listed? If not, an explanation is required.	✓			

8. SAMPLE INFORMATION

	QUESTION	YES	NO	N/A	COMMENTS
A	Are sample numbers cross-referenced correctly with the associated QC?	✓			
B	Are soil samples reported in dry weight basis?	✓			
C	Are percent moisture results reported?	✓			
D	Are positive detections reported?	✓			
E	Are sample analytes appropriately flagged if the QC failed?	✓			

9. REPORT NARRATIVE

	QUESTION	YES	NO	N/A	COMMENTS
A	Is a narrative provided with the laboratory report which describes all problems with the analyses and all corrective actions taken to address these problems?	✓			

10. ADDITIONAL COMMENTS ABOUT THE LAB REPORT

Matrix spike recovery was outside laboratory control limits for TKN since the parent sample concentration was notably higher than the spike level. the laboratory accepted the batch based upon the laboratory control samples.

TKN exceeded the calibration range in the MSD sample, the associated sample concentrations (ASB-11C (0-0.5)) are considered estimated. The affected data has been flagged on the summary tables

The continuing calibration for Bromomethane and Vinyl chloride were outside of Pace Analytical acceptance limits. These compounds were not detected in the samples analyzed.

Soil is a highly variable matrix, therefore, the fact that some duplicate samples were above the 20% RPD is not surprising. Results on some samples exceeded 20%, however with the exception of two samples, the results were consistent in regards to exceeding or being below soil standards.

In accordance with the Americans with Disabilities Act, this information is available in alternative forms of communication upon request by calling 651-201-6000. TTY users can call the Minnesota Relay Service at 711. The MDA is an equal opportunity employer and provider.

MINNESOTA

Minnesota Department of Agriculture 651-201-6148
Minnesota Department of Health 651-201-5357
Minnesota Pollution Control Agency 651-757-2560

Laboratory Data Review Checklist

ATTACHMENT: LABORATORY DATA REVIEW GUIDANCE

INSTRUCTIONS

The following is the informal checklist that should be used to review data for the Minnesota Department of Agriculture, Minnesota Pollution Control Agency and Minnesota Department of Health. The information follows the general format of the National Functional Guidelines, which is the primary data review tool used in the U.S. Environmental Protection Agency's Contract Laboratory Program for Superfund analytical work. Refer to the appropriate guidance document for each agency for instructions.

PROJECT INFORMATION

Project Name	Laboratory	
Former Hillcrest Golf Course	Pace Analytical Services	
Work Order Number / Lab Report ID	Report Date	Review Date
10522854		
	Reviewer's Signature	
	Mark Keefer	Digitally signed by Mark Keefer Date: 2021.07.10 07:46:44 -05'00'

1. CHAIN OF CUSTODY, PRESERVATION AND HOLDING TIMES

	QUESTION	YES	NO	N/A	COMMENTS
A	Is there a chain of custody (COC) with the report?	✓			
B	Is there a sample condition form with the report?	✓			
C	Were the samples preserved according to program requirements?	✓			
D	Were samples received in the correct containers?	✓			
	i. Was there enough sample volume/weight to complete all requested analyses?	✓			
	ii. Was there enough sample collected to complete required batch QC?	✓			
E	Were samples received within holding time for sample prep for all requested analyses?	✓			
F	Are there notes about sample condition or holding time issues on the COC? Explain the data impact.				
G	Are there narration or data qualifiers with the report about sample condition or holding time issues? Explain the data impact.		✓		
H	Are the lab IDs cross-referenced correctly with the field IDs?	✓			

2. CALIBRATION

	QUESTION	YES	NO	N/A	COMMENTS
A	Do the report narrative or data qualifiers indicate calibration problems for any analyses? If yes, explain the data impact.		✓		See below.

3. BLANKS

	QUESTION	YES	NO	N/A	COMMENTS
	Do any of the analyses contain samples for field or trip blanks?	✓			
A	i. If yes, are there target analytes present above the reporting limit in the blanks?		✓		
	ii. If yes, are the same compounds also present in the samples? Explain the possible data impact.			✓	
	Do method blanks for any analyses contain target analytes above the reporting limit?		✓		
B	i. If yes, are the same compounds present in the samples?			✓	
	ii. Is the amount of target analyte in the method blank more than 1/10th of that in the sample(s)? Explain the possible impact on the sample results.			✓	
C	Do instrument blanks contain analytes above the reporting limit?		✓		

4. SURROGATES - ORGANIC ANALYSIS

	QUESTION	YES	NO	N/A	COMMENTS
A	Are the lab recovery limits for surrogates specified on the report?	✓			
	Are the surrogates outside lab QC limits? (These should have a data qualifier.)		✓		
	i. If yes, are the surrogates above the lab QC limits?			✓	
B	ii. Below the lab QC limits?			✓	
	iii. Were the affected samples re-analyzed? Discuss in the case narrative.			✓	
	iv. Explain what this could mean for the affected samples. Include in narrative.			✓	

5. LABORATORY CONTROL SAMPLE (LCS) LABORATORY CONTROL SAMPLE DUPLICATE (LCSD)

	QUESTION	YES	NO	N/A	COMMENTS
A	Are there LCS/LCSD samples present for the reported analyses?	✓			
B	Are there LCS/LCSD compounds outside lab limits? If the LCS/LCSD fails, the LCS/LCSD and samples must be re-analyzed.		✓		
	i. If yes, are there compounds above the lab QC limits? If yes, an explanation is required. Include in narrative.			✓	
	ii. Below the lab QC limits? If yes, an explanation is required. Include in narrative.			✓	

6. MATRIX SPIKE (MS) MATRIX SPIKE DUPLICATE (MSD) SAMPLE DUPLICATE (DUP)

	QUESTION	YES	NO	N/A	COMMENTS
A	Do the analytical methods used require an MS and/or MSD? If no, skip to 6 B.	✓			
	i. Have the required matrix spikes been prepared and reported?	✓			
	ii. If no, is there an explanation in the report as to why?			✓	
	iii. Did the lab process an alternate spiked sample such as an LCSD instead?			✓	
	iv. Are the lab QC limits specified in the report?	✓			
	v. Are there compounds outside the lab QC limits?	✓			see notes
	vi. If yes, did the lab re-run an MS/MSD?			✓	
	1. Did the re-run MS/MSD pass? Discuss in the case narrative.			✓	
	2. Did the re-run MS/MSD fail? Discuss in the case narrative.			✓	
	3. Is the source sample flagged for MS/MSD compounds outside the lab QC limits?			✓	
B	Was a duplicate sample submitted for the analytical method(s)?		✓		
	i. Is the Relative Percentage Difference (RPD) within 20%* for the duplicate pair? If no, explain possible causes and data impact. *Other RPD's may be acceptable. Check with regulatory agency.			✓	

7. REPORTING LIMITS

	QUESTION	YES	NO	N/A	COMMENTS
A	Are reporting limits clearly listed on the report for all analyses?	✓			
B	Do the reporting limits meet the program required limits listed? If not, an explanation is required.	✓			

8. SAMPLE INFORMATION

	QUESTION	YES	NO	N/A	COMMENTS
A	Are sample numbers cross-referenced correctly with the associated QC?	✓			
B	Are soil samples reported in dry weight basis?	✓			
C	Are percent moisture results reported?	✓			
D	Are positive detections reported?	✓			
E	Are sample analytes appropriately flagged if the QC failed?	✓			

9. REPORT NARRATIVE

	QUESTION	YES	NO	N/A	COMMENTS
A	Is a narrative provided with the laboratory report which describes all problems with the analyses and all corrective actions taken to address these problems?	✓			

10. ADDITIONAL COMMENTS ABOUT THE LAB REPORT

• Matrix spike recovery was outside laboratory control limits for PAHs in some samples since the parent sample concentration was notably higher than the spike level. the laboratory accepted the batch based upon the laboratory control samples.

MINNESOTA

Minnesota Department of Agriculture 651-201-6148
Minnesota Department of Health 651-201-5357
Minnesota Pollution Control Agency 651-757-2560

Laboratory Data Review Checklist

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PROJECT INFORMATION

Project Name	Laboratory	
Former Hillcrest Golf Course	Pace Analytical Services	
Work Order Number / Lab Report ID	Report Date	Review Date
10523060	7, 13, 2020	11.1.2020
	Reviewer's Signature: Mark Keefer	Digitally signed by Mark Keefer Date: 2021.07.10 07:46:07 -05'00'

1. CHAIN OF CUSTODY, PRESERVATION AND HOLDING TIMES

	QUESTION	YES	NO	N/A	COMMENTS
A	Is there a chain of custody (COC) with the report?	✓			
B	Is there a sample condition form with the report?	✓			
C	Were the samples preserved according to program requirements?	✓			
D	Were samples received in the correct containers?	✓			
	i. Was there enough sample volume/weight to complete all requested analyses?	✓			
	ii. Was there enough sample collected to complete required batch QC?	✓			
E	Were samples received within holding time for sample prep for all requested analyses?	✓			
F	Are there notes about sample condition or holding time issues on the COC? Explain the data impact.				
G	Are there narration or data qualifiers with the report about sample condition or holding time issues? Explain the data impact.		✓		
H	Are the lab IDs cross-referenced correctly with the field IDs?	✓			

2. CALIBRATION

	QUESTION	YES	NO	N/A	COMMENTS
A	Do the report narrative or data qualifiers indicate calibration problems for any analyses? If yes, explain the data impact.				See below.

3. BLANKS

	QUESTION	YES	NO	N/A	COMMENTS
	Do any of the analyses contain samples for field or trip blanks?	✓			
A	i. If yes, are there target analytes present above the reporting limit in the blanks?		✓		
	ii. If yes, are the same compounds also present in the samples? Explain the possible data impact.			✓	
	Do method blanks for any analyses contain target analytes above the reporting limit?		✓		
B	i. If yes, are the same compounds present in the samples?			✓	
	ii. Is the amount of target analyte in the method blank more than 1/10th of that in the sample(s)? Explain the possible impact on the sample results.			✓	
C	Do instrument blanks contain analytes above the reporting limit?		✓		

4. SURROGATES - ORGANIC ANALYSIS

	QUESTION	YES	NO	N/A	COMMENTS
A	Are the lab recovery limits for surrogates specified on the report?	✓			
	Are the surrogates outside lab QC limits? (These should have a data qualifier.)		✓		
	i. If yes, are the surrogates above the lab QC limits?			✓	
B	ii. Below the lab QC limits?			✓	
	iii. Were the affected samples re-analyzed? Discuss in the case narrative.			✓	
	iv. Explain what this could mean for the affected samples. Include in narrative.			✓	

5. LABORATORY CONTROL SAMPLE (LCS) LABORATORY CONTROL SAMPLE DUPLICATE (LCSD)

	QUESTION	YES	NO	N/A	COMMENTS
A	Are there LCS/LCSD samples present for the reported analyses?	✓			
B	Are there LCS/LCSD compounds outside lab limits? If the LCS/LCSD fails, the LCS/LCSD and samples must be re-analyzed.		✓		
	i. If yes, are there compounds above the lab QC limits? If yes, an explanation is required. Include in narrative.			✓	
	ii. Below the lab QC limits? If yes, an explanation is required. Include in narrative.			✓	

6. MATRIX SPIKE (MS) MATRIX SPIKE DUPLICATE (MSD) SAMPLE DUPLICATE (DUP)

	QUESTION	YES	NO	N/A	COMMENTS
A	Do the analytical methods used require an MS and/or MSD? If no, skip to 6 B.	✓			
	i. Have the required matrix spikes been prepared and reported?	✓			
	ii. If no, is there an explanation in the report as to why?			✓	
	iii. Did the lab process an alternate spiked sample such as an LCSD instead?			✓	
	iv. Are the lab QC limits specified in the report?	✓			see note
	v. Are there compounds outside the lab QC limits?	✓			
	vi. If yes, did the lab re-run an MS/MSD?			✓	
	1. Did the re-run MS/MSD pass? Discuss in the case narrative.			✓	
	2. Did the re-run MS/MSD fail? Discuss in the case narrative.			✓	
	3. Is the source sample flagged for MS/MSD compounds outside the lab QC limits?			✓	
B	Was a duplicate sample submitted for the analytical method(s)?	✓			
	i. Is the Relative Percentage Difference (RPD) within 20%* for the duplicate pair? If no, explain possible causes and data impact. *Other RPD's may be acceptable. Check with regulatory agency.		✓		see note

7. REPORTING LIMITS

	QUESTION	YES	NO	N/A	COMMENTS
A	Are reporting limits clearly listed on the report for all analyses?	✓			
B	Do the reporting limits meet the program required limits listed? If not, an explanation is required.	✓			

8. SAMPLE INFORMATION

	QUESTION	YES	NO	N/A	COMMENTS
A	Are sample numbers cross-referenced correctly with the associated QC?	✓			
B	Are soil samples reported in dry weight basis?	✓			
C	Are percent moisture results reported?	✓			
D	Are positive detections reported?	✓			
E	Are sample analytes appropriately flagged if the QC failed?	✓			

9. REPORT NARRATIVE

	QUESTION	YES	NO	N/A	COMMENTS
A	Is a narrative provided with the laboratory report which describes all problems with the analyses and all corrective actions taken to address these problems?	✓			

10. ADDITIONAL COMMENTS ABOUT THE LAB REPORT

• Matrix spike recovery was outside laboratory control limits for barium and some PAHs TKN in samples since the parent sample concentration was notably higher than the spike level. the laboratory accepted the batch based upon the laboratory control samples.

Soil is a highly variable matrix, therefore, the fact that some duplicate samples were above the 20% RPD is not surprising. Results on some samples exceeded 20%, however with the exception of two samples, the results were consistent in regards to exceeding or being below soil standards.

In accordance with the Americans with Disabilities Act, this information is available in alternative forms of communication upon request by calling 651-201-6000. TTY users can call the Minnesota Relay Service at 711. The MDA is an equal opportunity employer and provider.

MINNESOTA

Minnesota Department of Agriculture 651-201-6148
Minnesota Department of Health 651-201-5357
Minnesota Pollution Control Agency 651-757-2560

Laboratory Data Review Checklist

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PROJECT INFORMATION

Project Name	Laboratory	
Former Hillcrest Golf Course	Pace Analytical Services	
Work Order Number / Lab Report ID	Report Date	Review Date
10523695	July 08, 2020	
	Reviewer's Signature: Mark Keefer	Digitally signed by Mark Keefer Date: 2021.07.10 07:45:42 -05'00'

1. CHAIN OF CUSTODY, PRESERVATION AND HOLDING TIMES

	QUESTION	YES	NO	N/A	COMMENTS
A	Is there a chain of custody (COC) with the report?	✓			
B	Is there a sample condition form with the report?	✓			
C	Were the samples preserved according to program requirements?	✓			
D	Were samples received in the correct containers?	✓			
	i. Was there enough sample volume/weight to complete all requested analyses?	✓			
	ii. Was there enough sample collected to complete required batch QC?	✓			
E	Were samples received within holding time for sample prep for all requested analyses?	✓			
F	Are there notes about sample condition or holding time issues on the COC? Explain the data impact.				
G	Are there narration or data qualifiers with the report about sample condition or holding time issues? Explain the data impact.		✓		
H	Are the lab IDs cross-referenced correctly with the field IDs?	✓			

2. CALIBRATION

	QUESTION	YES	NO	N/A	COMMENTS
A	Do the report narrative or data qualifiers indicate calibration problems for any analyses? If yes, explain the data impact.		✓		See below.

3. BLANKS

	QUESTION	YES	NO	N/A	COMMENTS
	Do any of the analyses contain samples for field or trip blanks?		✓		
A	i. If yes, are there target analytes present above the reporting limit in the blanks?			✓	
	ii. If yes, are the same compounds also present in the samples? Explain the possible data impact.			✓	
	Do method blanks for any analyses contain target analytes above the reporting limit?		✓		
B	i. If yes, are the same compounds present in the samples?			✓	
	ii. Is the amount of target analyte in the method blank more than 1/10th of that in the sample(s)? Explain the possible impact on the sample results.			✓	
C	Do instrument blanks contain analytes above the reporting limit?		✓		

4. SURROGATES - ORGANIC ANALYSIS

	QUESTION	YES	NO	N/A	COMMENTS
A	Are the lab recovery limits for surrogates specified on the report?			✓	
	Are the surrogates outside lab QC limits? (These should have a data qualifier.)			✓	
	i. If yes, are the surrogates above the lab QC limits?			✓	
B	ii. Below the lab QC limits?			✓	
	iii. Were the affected samples re-analyzed? Discuss in the case narrative.			✓	
	iv. Explain what this could mean for the affected samples. Include in narrative.			✓	

5. LABORATORY CONTROL SAMPLE (LCS) LABORATORY CONTROL SAMPLE DUPLICATE (LCSD)

	QUESTION	YES	NO	N/A	COMMENTS
A	Are there LCS/LCSD samples present for the reported analyses?	✓			
B	Are there LCS/LCSD compounds outside lab limits? If the LCS/LCSD fails, the LCS/LCSD and samples must be re-analyzed.		✓		
	i. If yes, are there compounds above the lab QC limits? If yes, an explanation is required. Include in narrative.			✓	
	ii. Below the lab QC limits? If yes, an explanation is required. Include in narrative.				

6. MATRIX SPIKE (MS) MATRIX SPIKE DUPLICATE (MSD) SAMPLE DUPLICATE (DUP)

	QUESTION	YES	NO	N/A	COMMENTS
A	Do the analytical methods used require an MS and/or MSD? If no, skip to 6 B.	✓			
	i. Have the required matrix spikes been prepared and reported?	✓			
	ii. If no, is there an explanation in the report as to why?			✓	
	iii. Did the lab process an alternate spiked sample such as an LCSD instead?			✓	
	iv. Are the lab QC limits specified in the report?	✓			
	v. Are there compounds outside the lab QC limits?	✓			
	vi. If yes, did the lab re-run an MS/MSD?			✓	see note
	1. Did the re-run MS/MSD pass? Discuss in the case narrative.			✓	
	2. Did the re-run MS/MSD fail? Discuss in the case narrative.			✓	
	3. Is the source sample flagged for MS/MSD compounds outside the lab QC limits?			✓	
B	Was a duplicate sample submitted for the analytical method(s)?		✓		
	i. Is the Relative Percentage Difference (RPD) within 20%* for the duplicate pair? If no, explain possible causes and data impact. *Other RPD's may be acceptable. Check with regulatory agency.			✓	

7. REPORTING LIMITS

	QUESTION	YES	NO	N/A	COMMENTS
A	Are reporting limits clearly listed on the report for all analyses?	✓			
B	Do the reporting limits meet the program required limits listed? If not, an explanation is required.	✓			

8. SAMPLE INFORMATION

	QUESTION	YES	NO	N/A	COMMENTS
A	Are sample numbers cross-referenced correctly with the associated QC?	✓			
B	Are soil samples reported in dry weight basis?	✓			
C	Are percent moisture results reported?	✓			
D	Are positive detections reported?	✓			
E	Are sample analytes appropriately flagged if the QC failed?	✓			

9. REPORT NARRATIVE

	QUESTION	YES	NO	N/A	COMMENTS
A	Is a narrative provided with the laboratory report which describes all problems with the analyses and all corrective actions taken to address these problems?	✓			

10. ADDITIONAL COMMENTS ABOUT THE LAB REPORT

• Matrix spike recovery was outside laboratory control limits for Mercury in samples since the parent sample concentration was notably higher than the spike level. the laboratory accepted the batch based upon the laboratory control samples.

MINNESOTA

Minnesota Department of Agriculture 651-201-6148
Minnesota Department of Health 651-201-5357
Minnesota Pollution Control Agency 651-757-2560

Laboratory Data Review Checklist

ATTACHMENT: LABORATORY DATA REVIEW GUIDANCE

INSTRUCTIONS

The following is the informal checklist that should be used to review data for the Minnesota Department of Agriculture, Minnesota Pollution Control Agency and Minnesota Department of Health. The information follows the general format of the National Functional Guidelines, which is the primary data review tool used in the U.S. Environmental Protection Agency's Contract Laboratory Program for Superfund analytical work. Refer to the appropriate guidance document for each agency for instructions.

PROJECT INFORMATION

Project Name	Laboratory	
Former Hillcrest Golf Course	Pace Analytical Services	
Work Order Number / Lab Report ID	Report Date	Review Date
10523696	July 28, 2020	10.5.2020
	Reviewer's Signature: Mark Keefer	Digitally signed by Mark Keefer Date: 2021.07.10 07:44:45 -05'00'

1. CHAIN OF CUSTODY, PRESERVATION AND HOLDING TIMES

	QUESTION	YES	NO	N/A	COMMENTS
A	Is there a chain of custody (COC) with the report?	✓			
B	Is there a sample condition form with the report?	✓			
C	Were the samples preserved according to program requirements?	✓			
D	Were samples received in the correct containers?	✓			
	i. Was there enough sample volume/weight to complete all requested analyses?	✓			
	ii. Was there enough sample collected to complete required batch QC?	✓			
E	Were samples received within holding time for sample prep for all requested analyses?	✓			
F	Are there notes about sample condition or holding time issues on the COC? Explain the data impact.				
G	Are there narration or data qualifiers with the report about sample condition or holding time issues? Explain the data impact.		✓		
H	Are the lab IDs cross-referenced correctly with the field IDs?	✓			

2. CALIBRATION

	QUESTION	YES	NO	N/A	COMMENTS
A	Do the report narrative or data qualifiers indicate calibration problems for any analyses? If yes, explain the data impact.	✓			See below.

3. BLANKS

	QUESTION	YES	NO	N/A	COMMENTS
	Do any of the analyses contain samples for field or trip blanks?		✓		
A	i. If yes, are there target analytes present above the reporting limit in the blanks?			✓	
	ii. If yes, are the same compounds also present in the samples? Explain the possible data impact.			✓	
	Do method blanks for any analyses contain target analytes above the reporting limit?		✓		
B	i. If yes, are the same compounds present in the samples?			✓	
	ii. Is the amount of target analyte in the method blank more than 1/10th of that in the sample(s)? Explain the possible impact on the sample results.			✓	
C	Do instrument blanks contain analytes above the reporting limit?		✓		

4. SURROGATES - ORGANIC ANALYSIS

	QUESTION	YES	NO	N/A	COMMENTS
A	Are the lab recovery limits for surrogates specified on the report?	✓			
	Are the surrogates outside lab QC limits? (These should have a data qualifier.)		✓		
	i. If yes, are the surrogates above the lab QC limits?			✓	
B	ii. Below the lab QC limits?			✓	
	iii. Were the affected samples re-analyzed? Discuss in the case narrative.			✓	
	iv. Explain what this could mean for the affected samples. Include in narrative.			✓	

5. LABORATORY CONTROL SAMPLE (LCS) LABORATORY CONTROL SAMPLE DUPLICATE (LCSD)

	QUESTION	YES	NO	N/A	COMMENTS
A	Are there LCS/LCSD samples present for the reported analyses?	✓			
B	Are there LCS/LCSD compounds outside lab limits? If the LCS/LCSD fails, the LCS/LCSD and samples must be re-analyzed.		✓		
	i. If yes, are there compounds above the lab QC limits? If yes, an explanation is required. Include in narrative.			✓	
	ii. Below the lab QC limits? If yes, an explanation is required. Include in narrative.			✓	

6. MATRIX SPIKE (MS) MATRIX SPIKE DUPLICATE (MSD) SAMPLE DUPLICATE (DUP)

	QUESTION	YES	NO	N/A	COMMENTS
A	Do the analytical methods used require an MS and/or MSD? If no, skip to 6 B.	✓			
	i. Have the required matrix spikes been prepared and reported?	✓			
	ii. If no, is there an explanation in the report as to why?			✓	
	iii. Did the lab process an alternate spiked sample such as an LCSD instead?			✓	
	iv. Are the lab QC limits specified in the report?	✓			
	v. Are there compounds outside the lab QC limits?		✓		
	vi. If yes, did the lab re-run an MS/MSD?			✓	
	1. Did the re-run MS/MSD pass? Discuss in the case narrative.			✓	
	2. Did the re-run MS/MSD fail? Discuss in the case narrative.			✓	
	3. Is the source sample flagged for MS/MSD compounds outside the lab QC limits?			✓	
B	Was a duplicate sample submitted for the analytical method(s)?		✓		
	i. Is the Relative Percentage Difference (RPD) within 20%* for the duplicate pair? If no, explain possible causes and data impact. *Other RPD's may be acceptable. Check with regulatory agency.			✓	

7. REPORTING LIMITS

	QUESTION	YES	NO	N/A	COMMENTS
A	Are reporting limits clearly listed on the report for all analyses?	✓			
B	Do the reporting limits meet the program required limits listed? If not, an explanation is required.	✓			

8. SAMPLE INFORMATION

	QUESTION	YES	NO	N/A	COMMENTS
A	Are sample numbers cross-referenced correctly with the associated QC?	✓			
B	Are soil samples reported in dry weight basis?	✓			
C	Are percent moisture results reported?	✓			
D	Are positive detections reported?	✓			
E	Are sample analytes appropriately flagged if the QC failed?	✓			

9. REPORT NARRATIVE

	QUESTION	YES	NO	N/A	COMMENTS
A	Is a narrative provided with the laboratory report which describes all problems with the analyses and all corrective actions taken to address these problems?	✓			

10. ADDITIONAL COMMENTS ABOUT THE LAB REPORT

MINNESOTA

Minnesota Department of Agriculture 651-201-6148
Minnesota Department of Health 651-201-5357
Minnesota Pollution Control Agency 651-757-2560

Laboratory Data Review Checklist

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INSTRUCTIONS

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PROJECT INFORMATION

Project Name	Laboratory	
Former Hillcrest Golf Course	Pace Analytical Services	
Work Order Number / Lab Report ID	Report Date	Review Date
10524483	July 27, 2020	
	Reviewer's Signature: Mark Keefer	Digitally signed by Mark Keefer Date: 2021.07.10 07:46:25 -05'00'

1. CHAIN OF CUSTODY, PRESERVATION AND HOLDING TIMES

	QUESTION	YES	NO	N/A	COMMENTS
A	Is there a chain of custody (COC) with the report?	✓			
B	Is there a sample condition form with the report?	✓			
C	Were the samples preserved according to program requirements?	✓			
D	Were samples received in the correct containers?	✓			
	i. Was there enough sample volume/weight to complete all requested analyses?	✓			
	ii. Was there enough sample collected to complete required batch QC?	✓			
E	Were samples received within holding time for sample prep for all requested analyses?	✓			
F	Are there notes about sample condition or holding time issues on the COC? Explain the data impact.				
G	Are there narration or data qualifiers with the report about sample condition or holding time issues? Explain the data impact.		✓		
H	Are the lab IDs cross-referenced correctly with the field IDs?	✓			

2. CALIBRATION

	QUESTION	YES	NO	N/A	COMMENTS
A	Do the report narrative or data qualifiers indicate calibration problems for any analyses? If yes, explain the data impact.	✓			See below.

3. BLANKS

	QUESTION	YES	NO	N/A	COMMENTS
	Do any of the analyses contain samples for field or trip blanks?	✓			
A	i. If yes, are there target analytes present above the reporting limit in the blanks?		✓		
	ii. If yes, are the same compounds also present in the samples? Explain the possible data impact.			✓	
	Do method blanks for any analyses contain target analytes above the reporting limit?		✓		
B	i. If yes, are the same compounds present in the samples?			✓	
	ii. Is the amount of target analyte in the method blank more than 1/10th of that in the sample(s)? Explain the possible impact on the sample results.			✓	
C	Do instrument blanks contain analytes above the reporting limit?		✓		

4. SURROGATES - ORGANIC ANALYSIS

	QUESTION	YES	NO	N/A	COMMENTS
A	Are the lab recovery limits for surrogates specified on the report?	✓			
	Are the surrogates outside lab QC limits? (These should have a data qualifier.)		✓		
	i. If yes, are the surrogates above the lab QC limits?			✓	
B	ii. Below the lab QC limits?			✓	
	iii. Were the affected samples re-analyzed? Discuss in the case narrative.			✓	
	iv. Explain what this could mean for the affected samples. Include in narrative.			✓	

5. LABORATORY CONTROL SAMPLE (LCS) LABORATORY CONTROL SAMPLE DUPLICATE (LCSD)

	QUESTION	YES	NO	N/A	COMMENTS
A	Are there LCS/LCSD samples present for the reported analyses?	✓			
B	Are there LCS/LCSD compounds outside lab limits? If the LCS/LCSD fails, the LCS/LCSD and samples must be re-analyzed.		✓		
	i. If yes, are there compounds above the lab QC limits? If yes, an explanation is required. Include in narrative.			✓	
	ii. Below the lab QC limits? If yes, an explanation is required. Include in narrative.			✓	

6. MATRIX SPIKE (MS) MATRIX SPIKE DUPLICATE (MSD) SAMPLE DUPLICATE (DUP)

	QUESTION	YES	NO	N/A	COMMENTS
A	Do the analytical methods used require an MS and/or MSD? If no, skip to 6 B.	✓			
	i. Have the required matrix spikes been prepared and reported?	✓			
	ii. If no, is there an explanation in the report as to why?			✓	
	iii. Did the lab process an alternate spiked sample such as an LCSD instead?			✓	
	iv. Are the lab QC limits specified in the report?	✓			
	v. Are there compounds outside the lab QC limits?	✓			see note
	vi. If yes, did the lab re-run an MS/MSD?			✓	
	1. Did the re-run MS/MSD pass? Discuss in the case narrative.			✓	
	2. Did the re-run MS/MSD fail? Discuss in the case narrative.			✓	
	3. Is the source sample flagged for MS/MSD compounds outside the lab QC limits?			✓	
B	Was a duplicate sample submitted for the analytical method(s)?		✓		
	i. Is the Relative Percentage Difference (RPD) within 20%* for the duplicate pair? If no, explain possible causes and data impact. *Other RPD's may be acceptable. Check with regulatory agency.			✓	

7. REPORTING LIMITS

	QUESTION	YES	NO	N/A	COMMENTS
A	Are reporting limits clearly listed on the report for all analyses?	✓			
B	Do the reporting limits meet the program required limits listed? If not, an explanation is required.	✓			

8. SAMPLE INFORMATION

	QUESTION	YES	NO	N/A	COMMENTS
A	Are sample numbers cross-referenced correctly with the associated QC?	✓			
B	Are soil samples reported in dry weight basis?	✓			
C	Are percent moisture results reported?	✓			
D	Are positive detections reported?	✓			
E	Are sample analytes appropriately flagged if the QC failed?	✓			

9. REPORT NARRATIVE

	QUESTION	YES	NO	N/A	COMMENTS
A	Is a narrative provided with the laboratory report which describes all problems with the analyses and all corrective actions taken to address these problems?				

10. ADDITIONAL COMMENTS ABOUT THE LAB REPORT

Matrix spike recovery was outside laboratory control limits for mercury and TKN in some samples since the parent sample concentration was notably higher than the spike level. the laboratory accepted the batch based upon the laboratory control samples.

The continuing calibration for acetone exceeded 20% difference acceptance criteria for EPA method. Analyte presence below reporting limits in associated samples. No impact to data.

The continuing calibration for Bromomethane was below 20% difference acceptance criteria for EPA method 8260D but within 50% of the true value. The result may be biased low. All results were non detect.

In accordance with the Americans with Disabilities Act, this information is available in alternative forms of communication upon request by calling 651-201-6000. TTY users can call the Minnesota Relay Service at 711. The MDA is an equal opportunity employer and provider.

MINNESOTA

Minnesota Department of Agriculture 651-201-6148
Minnesota Department of Health 651-201-5357
Minnesota Pollution Control Agency 651-757-2560

Laboratory Data Review Checklist

ATTACHMENT: LABORATORY DATA REVIEW GUIDANCE

INSTRUCTIONS

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PROJECT INFORMATION

Project Name	Laboratory	
Former Hillcrest Golf Course	Pace Analytical Services	
Work Order Number / Lab Report ID	Report Date	Review Date
	Reviewer's Signature Mark Keefer Digitally signed by Mark Keefer Date: 2021.07.10 07:47:29 -05'00'	

1. CHAIN OF CUSTODY, PRESERVATION AND HOLDING TIMES

	QUESTION	YES	NO	N/A	COMMENTS
A	Is there a chain of custody (COC) with the report?	✓			
B	Is there a sample condition form with the report?	✓			
C	Were the samples preserved according to program requirements?	✓			
D	Were samples received in the correct containers?	✓			
	i. Was there enough sample volume/weight to complete all requested analyses?	✓			
	ii. Was there enough sample collected to complete required batch QC?	✓			
E	Were samples received within holding time for sample prep for all requested analyses?	✓			
F	Are there notes about sample condition or holding time issues on the COC? Explain the data impact.				
G	Are there narration or data qualifiers with the report about sample condition or holding time issues? Explain the data impact.		✓		
H	Are the lab IDs cross-referenced correctly with the field IDs?	✓			

2. CALIBRATION

	QUESTION	YES	NO	N/A	COMMENTS
A	Do the report narrative or data qualifiers indicate calibration problems for any analyses? If yes, explain the data impact.	✓			See below.

3. BLANKS

	QUESTION	YES	NO	N/A	COMMENTS
	Do any of the analyses contain samples for field or trip blanks?	✓			
A	i. If yes, are there target analytes present above the reporting limit in the blanks?		✓		
	ii. If yes, are the same compounds also present in the samples? Explain the possible data impact.			✓	
	Do method blanks for any analyses contain target analytes above the reporting limit?		✓		
B	i. If yes, are the same compounds present in the samples?			✓	
	ii. Is the amount of target analyte in the method blank more than 1/10th of that in the sample(s)? Explain the possible impact on the sample results.			✓	
C	Do instrument blanks contain analytes above the reporting limit?		✓		

4. SURROGATES - ORGANIC ANALYSIS

	QUESTION	YES	NO	N/A	COMMENTS
A	Are the lab recovery limits for surrogates specified on the report?	✓			
	Are the surrogates outside lab QC limits? (These should have a data qualifier.)		✓		
	i. If yes, are the surrogates above the lab QC limits?			✓	
B	ii. Below the lab QC limits?			✓	
	iii. Were the affected samples re-analyzed? Discuss in the case narrative.			✓	
	iv. Explain what this could mean for the affected samples. Include in narrative.			✓	

5. LABORATORY CONTROL SAMPLE (LCS) LABORATORY CONTROL SAMPLE DUPLICATE (LCSD)

	QUESTION	YES	NO	N/A	COMMENTS
A	Are there LCS/LCSD samples present for the reported analyses?	✓			
B	Are there LCS/LCSD compounds outside lab limits? If the LCS/LCSD fails, the LCS/LCSD and samples must be re-analyzed.		✓		
	i. If yes, are there compounds above the lab QC limits? If yes, an explanation is required. Include in narrative.			✓	
	ii. Below the lab QC limits? If yes, an explanation is required. Include in narrative.			✓	

6. MATRIX SPIKE (MS) MATRIX SPIKE DUPLICATE (MSD) SAMPLE DUPLICATE (DUP)

	QUESTION	YES	NO	N/A	COMMENTS
A	Do the analytical methods used require an MS and/or MSD? If no, skip to 6 B.	✓			
	i. Have the required matrix spikes been prepared and reported?	✓			
	ii. If no, is there an explanation in the report as to why?			✓	
	iii. Did the lab process an alternate spiked sample such as an LCSD instead?			✓	
	iv. Are the lab QC limits specified in the report?	✓			
	v. Are there compounds outside the lab QC limits?	✓			
	vi. If yes, did the lab re-run an MS/MSD?		✓		
	1. Did the re-run MS/MSD pass? Discuss in the case narrative.			✓	see note
	2. Did the re-run MS/MSD fail? Discuss in the case narrative.			✓	
	3. Is the source sample flagged for MS/MSD compounds outside the lab QC limits?			✓	
B	Was a duplicate sample submitted for the analytical method(s)?		✓		
	i. Is the Relative Percentage Difference (RPD) within 20%* for the duplicate pair? If no, explain possible causes and data impact. *Other RPD's may be acceptable. Check with regulatory agency.			✓	

7. REPORTING LIMITS

	QUESTION	YES	NO	N/A	COMMENTS
A	Are reporting limits clearly listed on the report for all analyses?	✓			
B	Do the reporting limits meet the program required limits listed? If not, an explanation is required.	✓			

8. SAMPLE INFORMATION

	QUESTION	YES	NO	N/A	COMMENTS
A	Are sample numbers cross-referenced correctly with the associated QC?	✓			
B	Are soil samples reported in dry weight basis?	✓			
C	Are percent moisture results reported?	✓			
D	Are positive detections reported?	✓			
E	Are sample analytes appropriately flagged if the QC failed?	✓			

9. REPORT NARRATIVE

	QUESTION	YES	NO	N/A	COMMENTS
A	Is a narrative provided with the laboratory report which describes all problems with the analyses and all corrective actions taken to address these problems?	✓			

10. ADDITIONAL COMMENTS ABOUT THE LAB REPORT

• Matrix spike recovery was outside laboratory control limits for Nitrogen, NO2 plus NO3 in one samples since the parent sample concentration was notably higher than the spike level. the laboratory accepted the batch based upon the laboratory control samples.

The continuing calibration for acetone exceeded 20% difference acceptance criteria for EPA method. Analyte presence below reporting limits in associated samples. No impact to data.

The continuing calibration for Bromomethane is below 20% difference acceptance criteria for EPA method 8260D but within 50% of the true value. Instrument sensitivity verified with reporting limit check.

In accordance with the Americans with Disabilities Act, this information is available in alternative forms of communication upon request by calling 651-201-6000. TTY users can call the Minnesota Relay Service at 711. The MDA is an equal opportunity employer and provider.

MINNESOTA

Minnesota Department of Agriculture 651-201-6148
Minnesota Department of Health 651-201-5357
Minnesota Pollution Control Agency 651-757-2560

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PROJECT INFORMATION

Project Name	Laboratory	
Former Hillcrest Golf Course	Pace Analytical Services	
Work Order Number / Lab Report ID	Report Date	Review Date
10524997	July 17, 2020	11.5.2020
	Reviewer's Signature: Mark Keefer	Digitally signed by Mark Keefer Date: 2021.07.10 07:46:56 -05'00'

1. CHAIN OF CUSTODY, PRESERVATION AND HOLDING TIMES

	QUESTION	YES	NO	N/A	COMMENTS
A	Is there a chain of custody (COC) with the report?	✓			
B	Is there a sample condition form with the report?	✓			
C	Were the samples preserved according to program requirements?	✓			
D	Were samples received in the correct containers?	✓			
	i. Was there enough sample volume/weight to complete all requested analyses?	✓			
	ii. Was there enough sample collected to complete required batch QC?	✓			
E	Were samples received within holding time for sample prep for all requested analyses?	✓			
F	Are there notes about sample condition or holding time issues on the COC? Explain the data impact.				
G	Are there narration or data qualifiers with the report about sample condition or holding time issues? Explain the data impact.		✓		
H	Are the lab IDs cross-referenced correctly with the field IDs?	✓			

2. CALIBRATION

	QUESTION	YES	NO	N/A	COMMENTS
A	Do the report narrative or data qualifiers indicate calibration problems for any analyses? If yes, explain the data impact.		✓		

3. BLANKS

	QUESTION	YES	NO	N/A	COMMENTS
	Do any of the analyses contain samples for field or trip blanks?		✓		
A	i. If yes, are there target analytes present above the reporting limit in the blanks?			✓	
	ii. If yes, are the same compounds also present in the samples? Explain the possible data impact.			✓	
	Do method blanks for any analyses contain target analytes above the reporting limit?		✓		
B	i. If yes, are the same compounds present in the samples?			✓	
	ii. Is the amount of target analyte in the method blank more than 1/10th of that in the sample(s)? Explain the possible impact on the sample results.			✓	
C	Do instrument blanks contain analytes above the reporting limit?		✓		

4. SURROGATES - ORGANIC ANALYSIS

	QUESTION	YES	NO	N/A	COMMENTS
A	Are the lab recovery limits for surrogates specified on the report?			✓	
	Are the surrogates outside lab QC limits? (These should have a data qualifier.)			✓	
	i. If yes, are the surrogates above the lab QC limits?			✓	
B	ii. Below the lab QC limits?			✓	
	iii. Were the affected samples re-analyzed? Discuss in the case narrative.			✓	
	iv. Explain what this could mean for the affected samples. Include in narrative.			✓	

5. LABORATORY CONTROL SAMPLE (LCS) LABORATORY CONTROL SAMPLE DUPLICATE (LCSD)

	QUESTION	YES	NO	N/A	COMMENTS
A	Are there LCS/LCSD samples present for the reported analyses?	✓			
B	Are there LCS/LCSD compounds outside lab limits? If the LCS/LCSD fails, the LCS/LCSD and samples must be re-analyzed.		✓		
	i. If yes, are there compounds above the lab QC limits? If yes, an explanation is required. Include in narrative.			✓	
	ii. Below the lab QC limits? If yes, an explanation is required. Include in narrative.				

6. MATRIX SPIKE (MS) MATRIX SPIKE DUPLICATE (MSD) SAMPLE DUPLICATE (DUP)

	QUESTION	YES	NO	N/A	COMMENTS
A	Do the analytical methods used require an MS and/or MSD? If no, skip to 6 B.	✓			
	i. Have the required matrix spikes been prepared and reported?	✓			
	ii. If no, is there an explanation in the report as to why?			✓	
	iii. Did the lab process an alternate spiked sample such as an LCSD instead?			✓	
	iv. Are the lab QC limits specified in the report?	✓			
	v. Are there compounds outside the lab QC limits?		✓		
	vi. If yes, did the lab re-run an MS/MSD?			✓	
	1. Did the re-run MS/MSD pass? Discuss in the case narrative.			✓	
	2. Did the re-run MS/MSD fail? Discuss in the case narrative.			✓	
	3. Is the source sample flagged for MS/MSD compounds outside the lab QC limits?			✓	
B	Was a duplicate sample submitted for the analytical method(s)?		✓		
	i. Is the Relative Percentage Difference (RPD) within 20%* for the duplicate pair? If no, explain possible causes and data impact. *Other RPD's may be acceptable. Check with regulatory agency.			✓	

7. REPORTING LIMITS

	QUESTION	YES	NO	N/A	COMMENTS
A	Are reporting limits clearly listed on the report for all analyses?	✓			
B	Do the reporting limits meet the program required limits listed? If not, an explanation is required.	✓			

8. SAMPLE INFORMATION

	QUESTION	YES	NO	N/A	COMMENTS
A	Are sample numbers cross-referenced correctly with the associated QC?	✓			
B	Are soil samples reported in dry weight basis?	✓			
C	Are percent moisture results reported?	✓			
D	Are positive detections reported?	✓			
E	Are sample analytes appropriately flagged if the QC failed?	✓			

9. REPORT NARRATIVE

	QUESTION	YES	NO	N/A	COMMENTS
A	Is a narrative provided with the laboratory report which describes all problems with the analyses and all corrective actions taken to address these problems?	✓			

10. ADDITIONAL COMMENTS ABOUT THE LAB REPORT

MINNESOTA

Minnesota Department of Agriculture 651-201-6148
Minnesota Department of Health 651-201-5357
Minnesota Pollution Control Agency 651-757-2560

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ATTACHMENT: LABORATORY DATA REVIEW GUIDANCE

INSTRUCTIONS

The following is the informal checklist that should be used to review data for the Minnesota Department of Agriculture, Minnesota Pollution Control Agency and Minnesota Department of Health. The information follows the general format of the National Functional Guidelines, which is the primary data review tool used in the U.S. Environmental Protection Agency's Contract Laboratory Program for Superfund analytical work. Refer to the appropriate guidance document for each agency for instructions.

PROJECT INFORMATION

Project Name	Laboratory	
Former Hillcrest Golf Course	Pace Analytical Services	
Work Order Number / Lab Report ID	Report Date	Review Date
10528354	August 19, 2020	10.2.2020
	Reviewer's Signature: Mark Keefer	Digitally signed by Mark Keefer Date: 2021.07.10 07:45:25 -05'00'

1. CHAIN OF CUSTODY, PRESERVATION AND HOLDING TIMES

	QUESTION	YES	NO	N/A	COMMENTS
A	Is there a chain of custody (COC) with the report?	✓			
B	Is there a sample condition form with the report?	✓			
C	Were the samples preserved according to program requirements?	✓			
D	Were samples received in the correct containers?	✓			
	i. Was there enough sample volume/weight to complete all requested analyses?	✓			
	ii. Was there enough sample collected to complete required batch QC?	✓			
E	Were samples received within holding time for sample prep for all requested analyses?	✓			
F	Are there notes about sample condition or holding time issues on the COC? Explain the data impact.				
G	Are there narration or data qualifiers with the report about sample condition or holding time issues? Explain the data impact.		✓		
H	Are the lab IDs cross-referenced correctly with the field IDs?	✓			

2. CALIBRATION

	QUESTION	YES	NO	N/A	COMMENTS
A	Do the report narrative or data qualifiers indicate calibration problems for any analyses? If yes, explain the data impact.		✓		

3. BLANKS

	QUESTION	YES	NO	N/A	COMMENTS
	Do any of the analyses contain samples for field or trip blanks?		✓		
A	i. If yes, are there target analytes present above the reporting limit in the blanks?			✓	
	ii. If yes, are the same compounds also present in the samples? Explain the possible data impact.			✓	
	Do method blanks for any analyses contain target analytes above the reporting limit?		✓		
B	i. If yes, are the same compounds present in the samples?			✓	
	ii. Is the amount of target analyte in the method blank more than 1/10th of that in the sample(s)? Explain the possible impact on the sample results.			✓	
C	Do instrument blanks contain analytes above the reporting limit?		✓		

4. SURROGATES - ORGANIC ANALYSIS

	QUESTION	YES	NO	N/A	COMMENTS
A	Are the lab recovery limits for surrogates specified on the report?			✓	
	Are the surrogates outside lab QC limits? (These should have a data qualifier.)			✓	
	i. If yes, are the surrogates above the lab QC limits?			✓	
B	ii. Below the lab QC limits?			✓	
	iii. Were the affected samples re-analyzed? Discuss in the case narrative.			✓	
	iv. Explain what this could mean for the affected samples. Include in narrative.			✓	

5. LABORATORY CONTROL SAMPLE (LCS) LABORATORY CONTROL SAMPLE DUPLICATE (LCSD)

	QUESTION	YES	NO	N/A	COMMENTS
A	Are there LCS/LCSD samples present for the reported analyses?	✓			
B	Are there LCS/LCSD compounds outside lab limits? If the LCS/LCSD fails, the LCS/LCSD and samples must be re-analyzed.		✓		
	i. If yes, are there compounds above the lab QC limits? If yes, an explanation is required. Include in narrative.			✓	
	ii. Below the lab QC limits? If yes, an explanation is required. Include in narrative.			✓	

6. MATRIX SPIKE (MS) MATRIX SPIKE DUPLICATE (MSD) SAMPLE DUPLICATE (DUP)

	QUESTION	YES	NO	N/A	COMMENTS
A	Do the analytical methods used require an MS and/or MSD? If no, skip to 6 B.	✓			
	i. Have the required matrix spikes been prepared and reported?	✓			
	ii. If no, is there an explanation in the report as to why?			✓	
	iii. Did the lab process an alternate spiked sample such as an LCSD instead?			✓	
	iv. Are the lab QC limits specified in the report?	✓			
	v. Are there compounds outside the lab QC limits?		✓		
	vi. If yes, did the lab re-run an MS/MSD?			✓	
	1. Did the re-run MS/MSD pass? Discuss in the case narrative.			✓	
	2. Did the re-run MS/MSD fail? Discuss in the case narrative.			✓	
	3. Is the source sample flagged for MS/MSD compounds outside the lab QC limits?			✓	
B	Was a duplicate sample submitted for the analytical method(s)?		✓		
	i. Is the Relative Percentage Difference (RPD) within 20%* for the duplicate pair? If no, explain possible causes and data impact. *Other RPD's may be acceptable. Check with regulatory agency.			✓	

7. REPORTING LIMITS

	QUESTION	YES	NO	N/A	COMMENTS
A	Are reporting limits clearly listed on the report for all analyses?	✓			
B	Do the reporting limits meet the program required limits listed? If not, an explanation is required.	✓			

8. SAMPLE INFORMATION

	QUESTION	YES	NO	N/A	COMMENTS
A	Are sample numbers cross-referenced correctly with the associated QC?	✓			
B	Are soil samples reported in dry weight basis?	✓			
C	Are percent moisture results reported?	✓			
D	Are positive detections reported?	✓			
E	Are sample analytes appropriately flagged if the QC failed?	✓			

9. REPORT NARRATIVE

	QUESTION	YES	NO	N/A	COMMENTS
A	Is a narrative provided with the laboratory report which describes all problems with the analyses and all corrective actions taken to address these problems?	✓			

10. ADDITIONAL COMMENTS ABOUT THE LAB REPORT

MINNESOTA

Minnesota Department of Agriculture 651-201-6148
Minnesota Department of Health 651-201-5357
Minnesota Pollution Control Agency 651-757-2560

Laboratory Data Review Checklist

ATTACHMENT: LABORATORY DATA REVIEW GUIDANCE

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PROJECT INFORMATION

Project Name	Laboratory	
Former Hillcrest Golf Course	Pace Analytical Services	
Work Order Number / Lab Report ID	Report Date	Review Date
10528764	August 20, 2020	09.25.2020
	Reviewer's Signature: Mark Keefer	Digitally signed by Mark Keefer Date: 2021.07.10 07:46:15 -05'00'

1. CHAIN OF CUSTODY, PRESERVATION AND HOLDING TIMES

	QUESTION	YES	NO	N/A	COMMENTS
A	Is there a chain of custody (COC) with the report?	✓			
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