



INDEPENDENT TESTING LAB

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

Company: WILLIAMS PROJECT
Name:
ClientProj: 2019613001.00
GTA ProjNo: 082119-4

Site Addr: 4643 ELLIS ROAD

Sampled By: MIKE RANKENS/GCES
Date Rec: 8/21/2019
Time Rec: 11:25 AM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	SB-1 (5') - HOLD	8/19/2019	10:45 AM	SOIL
2	SB-1 (7')	8/19/2019	10:55 AM	SOIL
3	SB-2 (6')	8/19/2019	11:15 AM	SOIL
4	SB-3 (6')	8/19/2019	11:40 AM	SOIL
5	SB-4 (15')	8/19/2019	12:45 PM	SOIL
6	SB-5 (15')	8/19/2019	1:05 PM	SOIL
7	SB-6 (14')	8/19/2019	1:25 PM	SOIL
8	SB-7 (6')	8/19/2019	2:10 PM	SOIL
9	SB-8 (13')	8/19/2019	2:40 PM	SOIL
10	SB-9 (14')	8/19/2019	2:55 PM	SOIL
11	SB-9 (18.5') - HOLD	8/19/2019	3:05 PM	SOIL
12	SB-10 (11')	8/20/2019	9:35 AM	SOIL
13	SB-6 (GW(15'-18.65'))	8/20/2019	2:30 PM	WATER
14	MW-1	8/20/2019	3:07 PM	WATER
15	MW-2	8/20/2019	4:16 PM	WATER

ELECTRONIC SIGNATURE REPORT. This is a final report for the following pages of data for the samples specified above. All analysis was performed by the methods stated and all quality control measures required were completed. All quality control information is available upon request.

Kirk L Chase

Kirk L. Chase/Chemist
Grand Traverse Analytical
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Traverse City, MI 49686
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COMPANY:	WILLIAMS PROJECT	GTA PROJECT NO:	082119-4
PROJECT NO:	2019613001.00	GTA SAMPLE NO:	2
LOCATION:	4643 ELLIS ROAD	DATE SAMPLED:	8/19/2019
		TIME SAMPLED:	10:55 AM
		DATE RECEIVED:	8/21/2019
		TIME RECEIVED:	11:25 AM
SAMPLED BY:	MI MIKE RANKENS/GCES	SAMPLE ID:	SB-1 (7')
SAMPLE MATRIX:	SOIL		

**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB)	MR	8/19/2019	8/26/2019	EPA 5035A
Toluene	ND	50					
Ethylbenzene	84	50					
Xylene(Total)	190	150					
1,2,4-Trimethylbenzene	1,200	50					
1,3,5-Trimethylbenzene	180	50					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT
 ND = NOT DETECTED, RESULTS < LOD.
 LOD = LIMIT OF DETECTION

COMPANY: WILLIAMS PROJECT
 PROJECT NO: 2019613001.00
 LOCATION: 4643 ELLIS ROAD
 MI
 SAMPLED BY: MIKE RANKENS/GCES
 SAMPLE MATRIX: SOIL

GTA PROJECT NO: 082119-4
 GTA SAMPLE NO: 3
 DATE SAMPLED: 8/19/2019
 TIME SAMPLED: 11:15 AM
 DATE RECEIVED: 8/21/2019
 TIME RECEIVED: 11:25 AM
 SAMPLE ID: SB-2 (6')

**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB)	MR	8/19/2019	8/24/2019	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT
 ND = NOT DETECTED, RESULTS < LOD.
 LOD = LIMIT OF DETECTION

COMPANY: WILLIAMS PROJECT
 PROJECT NO: 2019613001.00
 LOCATION: 4643 ELLIS ROAD
 MI
 SAMPLED BY: MIKE RANKENS/GCES
 SAMPLE MATRIX: SOIL

GTA PROJECT NO: 082119-4
 GTA SAMPLE NO: 4
 DATE SAMPLED: 8/19/2019
 TIME SAMPLED: 11:40 AM
 DATE RECEIVED: 8/21/2019
 TIME RECEIVED: 11:25 AM
 SAMPLE ID: SB-3 (6')

**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB)	MR	8/19/2019	8/24/2019	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT
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COMPANY:	WILLIAMS PROJECT	GTA PROJECT NO:	082119-4
PROJECT NO:	2019613001.00	GTA SAMPLE NO:	5
LOCATION:	4643 ELLIS ROAD	DATE SAMPLED:	8/19/2019
		TIME SAMPLED:	12:45 PM
		DATE RECEIVED:	8/21/2019
		TIME RECEIVED:	11:25 AM
SAMPLED BY:	MI MIKE RANKENS/GCES	SAMPLE ID:	SB-4 (15')
SAMPLE MATRIX:	SOIL		

**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB)	MR	8/19/2019	8/24/2019	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT
 ND = NOT DETECTED, RESULTS < LOD.
 LOD = LIMIT OF DETECTION

COMPANY: WILLIAMS PROJECT
 PROJECT NO: 2019613001.00
 LOCATION: 4643 ELLIS ROAD
 MI
 SAMPLED BY: MIKE RANKENS/GCES
 SAMPLE MATRIX: SOIL

GTA PROJECT NO: 082119-4
 GTA SAMPLE NO: 6
 DATE SAMPLED: 8/19/2019
 TIME SAMPLED: 1:05 PM
 DATE RECEIVED: 8/21/2019
 TIME RECEIVED: 11:25 AM
 SAMPLE ID: SB-5 (15')

**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB)	MR	8/19/2019	8/24/2019	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT
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COMPANY:	WILLIAMS PROJECT	GTA PROJECT NO:	082119-4
PROJECT NO:	2019613001.00	GTA SAMPLE NO:	7
LOCATION:	4643 ELLIS ROAD	DATE SAMPLED:	8/19/2019
		TIME SAMPLED:	1:25 PM
		DATE RECEIVED:	8/21/2019
		TIME RECEIVED:	11:25 AM
SAMPLED BY:	MI MIKE RANKENS/GCES	SAMPLE ID:	SB-6 (14')
SAMPLE MATRIX:	SOIL		

**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB)	MR	8/19/2019	8/24/2019	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT
 ND = NOT DETECTED, RESULTS < LOD.
 LOD = LIMIT OF DETECTION

COMPANY: WILLIAMS PROJECT
 PROJECT NO: 2019613001.00
 LOCATION: 4643 ELLIS ROAD
 MI
 SAMPLED BY: MIKE RANKENS/GCES
 SAMPLE MATRIX: SOIL

GTA PROJECT NO: 082119-4
 GTA SAMPLE NO: 8
 DATE SAMPLED: 8/19/2019
 TIME SAMPLED: 2:10 PM
 DATE RECEIVED: 8/21/2019
 TIME RECEIVED: 11:25 AM
 SAMPLE ID: SB-7 (6')

**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB)	MR	8/19/2019	8/24/2019	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT
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 LOD = LIMIT OF DETECTION

COMPANY: WILLIAMS PROJECT
 PROJECT NO: 2019613001.00
 LOCATION: 4643 ELLIS ROAD
 MI
 SAMPLED BY: MIKE RANKENS/GCES
 SAMPLE MATRIX: SOIL

GTA PROJECT NO: 082119-4
 GTA SAMPLE NO: 9
 DATE SAMPLED: 8/19/2019
 TIME SAMPLED: 2:40 PM
 DATE RECEIVED: 8/21/2019
 TIME RECEIVED: 11:25 AM
 SAMPLE ID: SB-8 (13')

**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB)	MR	8/19/2019	8/24/2019	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT
 ND = NOT DETECTED, RESULTS < LOD.
 LOD = LIMIT OF DETECTION

COMPANY: WILLIAMS PROJECT
 PROJECT NO: 2019613001.00
 LOCATION: 4643 ELLIS ROAD
 MI
 SAMPLED BY: MIKE RANKENS/GCES
 SAMPLE MATRIX: SOIL

GTA PROJECT NO: 082119-4
 GTA SAMPLE NO: 10
 DATE SAMPLED: 8/19/2019
 TIME SAMPLED: 2:55 PM
 DATE RECEIVED: 8/21/2019
 TIME RECEIVED: 11:25 AM
 SAMPLE ID: SB-9 (14')

**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB)	MR	8/19/2019	8/24/2019	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT
 ND = NOT DETECTED, RESULTS < LOD.
 LOD = LIMIT OF DETECTION

COMPANY: WILLIAMS PROJECT
 PROJECT NO: 2019613001.00
 LOCATION: 4643 ELLIS ROAD
 MI
 SAMPLED BY: MIKE RANKENS/GCES
 SAMPLE MATRIX: SOIL

GTA PROJECT NO: 082119-4
 GTA SAMPLE NO: 12
 DATE SAMPLED: 8/20/2019
 TIME SAMPLED: 9:35 AM
 DATE RECEIVED: 8/21/2019
 TIME RECEIVED: 11:25 AM
 SAMPLE ID: SB-10 (11')

**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB)	MR	8/20/2019	8/24/2019	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT
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COMPANY: WILLIAMS PROJECT
PROJECT NO: 2019613001.00
LOCATION: 4643 ELLIS ROAD
MI
SAMPLED BY: MIKE RANKENS/GCES
SAMPLE MATRIX: WATER

GTA PROJECT NO: 082119-4
GTA SAMPLE NO: 13
DATE SAMPLED: 8/20/2019
TIME SAMPLED: 2:30 PM
DATE RECEIVED: 8/21/2019
TIME RECEIVED: 11:25 AM
SAMPLE ID: SB-6 (GW(15'-18.65'))

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		8/24/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT
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COMPANY:	WILLIAMS PROJECT	GTA PROJECT NO:	082119-4
PROJECT NO:	2019613001.00	GTA SAMPLE NO:	14
LOCATION:	4643 ELLIS ROAD	DATE SAMPLED:	8/20/2019
		TIME SAMPLED:	3:07 PM
		DATE RECEIVED:	8/21/2019
		TIME RECEIVED:	11:25 AM
SAMPLED BY:	MI MIKE RANKENS/GCES	SAMPLE ID:	MW-1
SAMPLE MATRIX:	WATER		

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		8/24/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT
 ND = NOT DETECTED, RESULTS < LOD.
 LOD = LIMIT OF DETECTION

COMPANY: WILLIAMS PROJECT
PROJECT NO: 2019613001.00
LOCATION: 4643 ELLIS ROAD
MI
SAMPLED BY: MIKE RANKENS/GCES
SAMPLE MATRIX: WATER

GTA PROJECT NO: 082119-4
GTA SAMPLE NO: 15
DATE SAMPLED: 8/20/2019
TIME SAMPLED: 4:16 PM
DATE RECEIVED: 8/21/2019
TIME RECEIVED: 11:25 AM
SAMPLE ID: MW-2

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		8/24/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT
ND = NOT DETECTED, RESULTS < LOD.
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COMPANY: WILLIAMS PROJECT
 PROJECT NO: 2019613001.00
 LOCATION: 4643 ELLIS ROAD

GTA PROJECT NO: 082119-4
 GTA SAMPLE NO: 2

DATE SAMPLED: 8/19/2019
 TIME SAMPLED: 10:55 AM

SAMPLED BY: MI
 MIKE RANKENS/GCES

DATE RECEIVED: 8/21/2019
 TIME RECEIVED: 11:25 AM

SAMPLE MATRIX: SOIL
 SAMPLE ID: SB-1 (7')

PNA EPA 8270D (SIM)

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Acenaphthene	ND	330	ug/Kg (PPB)	KC/TR	8/27/2019	8/27/2019	EPA 3550B
Acenaphthylene	ND	330					
Anthracene	ND	330					
Benzo(a)anthracene	ND	330					
Benzo(b)fluoranthene	ND	330					
Benzo(k)fluoranthene	ND	330					
Benzo(a)pyrene	ND	330					
Benzo(ghi)perylene	ND	330					
2-Chloronaphthalene	ND	330					
Chrysene	ND	330					
Dibenz(ah)anthracene	ND	330					
Fluoranthene	ND	330					
Fluorene	ND	330					
Indeno(123-cd)pyrene	ND	330					
2-Methylnaphthalene	580	330					
Naphthalene	ND	330					
Phenanthrene	ND	330					
Pyrene	ND	330					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
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COMPANY: WILLIAMS PROJECT
 PROJECT NO: 2019613001.00
 LOCATION: 4643 ELLIS ROAD

GTA PROJECT NO: 082119-4
 GTA SAMPLE NO: 3

DATE SAMPLED: 8/19/2019
 TIME SAMPLED: 11:15 AM

SAMPLED BY: MI
 MIKE RANKENS/GCES

DATE RECEIVED: 8/21/2019
 TIME RECEIVED: 11:25 AM

SAMPLE MATRIX: SOIL
 SAMPLE ID: SB-2 (6')

PNA EPA 8270D (SIM)

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Acenaphthene	ND	330	ug/Kg (PPB)	KC/TR	8/27/2019	8/27/2019	EPA 3550B
Acenaphthylene	ND	330					
Anthracene	ND	330					
Benzo(a)anthracene	ND	330					
Benzo(b)fluoranthene	ND	330					
Benzo(k)fluoranthene	ND	330					
Benzo(a)pyrene	ND	330					
Benzo(ghi)perylene	ND	330					
2-Chloronaphthalene	ND	330					
Chrysene	ND	330					
Dibenz(ah)anthracene	ND	330					
Fluoranthene	ND	330					
Fluorene	ND	330					
Indeno(123-cd)pyrene	ND	330					
2-Methylnaphthalene	ND	330					
Naphthalene	ND	330					
Phenanthrene	ND	330					
Pyrene	ND	330					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
 ND = NOT DETECTED
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COMPANY: WILLIAMS PROJECT
 PROJECT NO: 2019613001.00
 LOCATION: 4643 ELLIS ROAD

GTA PROJECT NO: 082119-4
 GTA SAMPLE NO: 4

DATE SAMPLED: 8/19/2019
 TIME SAMPLED: 11:40 AM

SAMPLED BY: MI
 MIKE RANKENS/GCES

DATE RECEIVED: 8/21/2019
 TIME RECEIVED: 11:25 AM

SAMPLE MATRIX: SOIL
 SAMPLE ID: SB-3 (6')

PNA EPA 8270D (SIM)

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Acenaphthene	ND	330	ug/Kg (PPB)	KC/TR	8/27/2019	8/28/2019	EPA 3550B
Acenaphthylene	ND	330					
Anthracene	ND	330					
Benzo(a)anthracene	ND	330					
Benzo(b)fluoranthene	ND	330					
Benzo(k)fluoranthene	ND	330					
Benzo(a)pyrene	ND	330					
Benzo(ghi)perylene	ND	330					
2-Chloronaphthalene	ND	330					
Chrysene	ND	330					
Dibenz(ah)anthracene	ND	330					
Fluoranthene	ND	330					
Fluorene	ND	330					
Indeno(123-cd)pyrene	ND	330					
2-Methylnaphthalene	ND	330					
Naphthalene	ND	330					
Phenanthrene	ND	330					
Pyrene	ND	330					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
 ND = NOT DETECTED
 LOD = LIMIT OF DETECTION

COMPANY: WILLIAMS PROJECT
PROJECT NO: 2019613001.00
LOCATION: 4643 ELLIS ROAD

GTA PROJECT NO: 082119-4
GTA SAMPLE NO: 5

DATE SAMPLED: 8/19/2019
TIME SAMPLED: 12:45 PM

SAMPLED BY: MI
MIKE RANKENS/GCES

DATE RECEIVED: 8/21/2019
TIME RECEIVED: 11:25 AM

SAMPLE MATRIX: SOIL
SAMPLE ID: SB-4 (15')

PNA EPA 8270D (SIM)

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Acenaphthene	ND	330	ug/Kg (PPB)	KC/TR	8/27/2019	8/28/2019	EPA 3550B
Acenaphthylene	ND	330					
Anthracene	ND	330					
Benzo(a)anthracene	ND	330					
Benzo(b)fluoranthene	ND	330					
Benzo(k)fluoranthene	ND	330					
Benzo(a)pyrene	ND	330					
Benzo(ghi)perylene	ND	330					
2-Chloronaphthalene	ND	330					
Chrysene	ND	330					
Dibenz(ah)anthracene	ND	330					
Fluoranthene	ND	330					
Fluorene	ND	330					
Indeno(123-cd)pyrene	ND	330					
2-Methylnaphthalene	ND	330					
Naphthalene	ND	330					
Phenanthrene	ND	330					
Pyrene	ND	330					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
ND = NOT DETECTED
LOD = LIMIT OF DETECTION



INDEPENDENT TESTING LAB

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

COMPANY: WILLIAMS PROJECT
 PROJECT NO: 2019613001.00
 LOCATION: 4643 ELLIS ROAD

GTA PROJECT NO: 082119-4
 GTA SAMPLE NO: 6

DATE SAMPLED: 8/19/2019
 TIME SAMPLED: 1:05 PM

SAMPLED BY: MI
 MIKE RANKENS/GCES

DATE RECEIVED: 8/21/2019
 TIME RECEIVED: 11:25 AM

SAMPLE MATRIX: SOIL
 SAMPLE ID: SB-5 (15')

PNA EPA 8270D (SIM)

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Acenaphthene	ND	330	ug/Kg (PPB)	KC/TR	8/27/2019	8/28/2019	EPA 3550B
Acenaphthylene	ND	330					
Anthracene	ND	330					
Benzo(a)anthracene	ND	330					
Benzo(b)fluoranthene	ND	330					
Benzo(k)fluoranthene	ND	330					
Benzo(a)pyrene	ND	330					
Benzo(ghi)perylene	ND	330					
2-Chloronaphthalene	ND	330					
Chrysene	ND	330					
Dibenz(ah)anthracene	ND	330					
Fluoranthene	ND	330					
Fluorene	ND	330					
Indeno(123-cd)pyrene	ND	330					
2-Methylnaphthalene	ND	330					
Naphthalene	ND	330					
Phenanthrene	ND	330					
Pyrene	ND	330					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
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INDEPENDENT TESTING LAB

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FAX: 231-929-0894

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COMPANY: WILLIAMS PROJECT
 PROJECT NO: 2019613001.00
 LOCATION: 4643 ELLIS ROAD
 MI
 SAMPLED BY: MIKE RANKENS/GCES
 SOIL
 SAMPLE ID: SB-6 (14')

GTA PROJECT NO: 082119-4
 GTA SAMPLE NO: 7
 DATE SAMPLED: 8/19/2019
 TIME SAMPLED: 1:25 PM
 DATE RECEIVED: 8/21/2019
 TIME RECEIVED: 11:25 AM

PNA EPA 8270D (SIM)

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Acenaphthene	ND	330	ug/Kg (PPB)	KC/TR	8/27/2019	8/28/2019	EPA 3550B
Acenaphthylene	ND	330					
Anthracene	ND	330					
Benzo(a)anthracene	ND	330					
Benzo(b)fluoranthene	ND	330					
Benzo(k)fluoranthene	ND	330					
Benzo(a)pyrene	ND	330					
Benzo(ghi)perylene	ND	330					
2-Chloronaphthalene	ND	330					
Chrysene	ND	330					
Dibenz(ah)anthracene	ND	330					
Fluoranthene	ND	330					
Fluorene	ND	330					
Indeno(123-cd)pyrene	ND	330					
2-Methylnaphthalene	ND	330					
Naphthalene	ND	330					
Phenanthrene	ND	330					
Pyrene	ND	330					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
 ND = NOT DETECTED
 LOD = LIMIT OF DETECTION



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COMPANY: WILLIAMS PROJECT
 PROJECT NO: 2019613001.00
 LOCATION: 4643 ELLIS ROAD
 MI
 SAMPLED BY: MIKE RANKENS/GCES
 SOIL
 SAMPLE ID: SB-7 (6')

GTA PROJECT NO: 082119-4
 GTA SAMPLE NO: 8
 DATE SAMPLED: 8/19/2019
 TIME SAMPLED: 2:10 PM
 DATE RECEIVED: 8/21/2019
 TIME RECEIVED: 11:25 AM

PNA EPA 8270D (SIM)

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Acenaphthene	ND	330	ug/Kg (PPB)	KC/TR	8/27/2019	8/28/2019	EPA 3550B
Acenaphthylene	ND	330					
Anthracene	ND	330					
Benzo(a)anthracene	ND	330					
Benzo(b)fluoranthene	ND	330					
Benzo(k)fluoranthene	ND	330					
Benzo(a)pyrene	ND	330					
Benzo(ghi)perylene	ND	330					
2-Chloronaphthalene	ND	330					
Chrysene	ND	330					
Dibenz(ah)anthracene	ND	330					
Fluoranthene	ND	330					
Fluorene	ND	330					
Indeno(123-cd)pyrene	ND	330					
2-Methylnaphthalene	ND	330					
Naphthalene	ND	330					
Phenanthrene	ND	330					
Pyrene	ND	330					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
 ND = NOT DETECTED
 LOD = LIMIT OF DETECTION



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COMPANY: WILLIAMS PROJECT
 PROJECT NO: 2019613001.00
 LOCATION: 4643 ELLIS ROAD

GTA PROJECT NO: 082119-4
 GTA SAMPLE NO: 9

DATE SAMPLED: 8/19/2019
 TIME SAMPLED: 2:40 PM

SAMPLED BY: MI
 MIKE RANKENS/GCES

DATE RECEIVED: 8/21/2019
 TIME RECEIVED: 11:25 AM

SAMPLE MATRIX: SOIL
 SAMPLE ID: SB-8 (13')

PNA EPA 8270D (SIM)

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Acenaphthene	ND	330	ug/Kg (PPB)	KC/TR	8/27/2019	8/28/2019	EPA 3550B
Acenaphthylene	ND	330					
Anthracene	ND	330					
Benzo(a)anthracene	ND	330					
Benzo(b)fluoranthene	ND	330					
Benzo(k)fluoranthene	ND	330					
Benzo(a)pyrene	ND	330					
Benzo(ghi)perylene	ND	330					
2-Chloronaphthalene	ND	330					
Chrysene	ND	330					
Dibenz(ah)anthracene	ND	330					
Fluoranthene	ND	330					
Fluorene	ND	330					
Indeno(123-cd)pyrene	ND	330					
2-Methylnaphthalene	ND	330					
Naphthalene	ND	330					
Phenanthrene	ND	330					
Pyrene	ND	330					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
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 LOD = LIMIT OF DETECTION



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COMPANY: WILLIAMS PROJECT
 PROJECT NO: 2019613001.00
 LOCATION: 4643 ELLIS ROAD

GTA PROJECT NO: 082119-4
 GTA SAMPLE NO: 10

DATE SAMPLED: 8/19/2019
 TIME SAMPLED: 2:55 PM

SAMPLED BY: MI
 MIKE RANKENS/GCES

DATE RECEIVED: 8/21/2019
 TIME RECEIVED: 11:25 AM

SAMPLE MATRIX: SOIL
 SAMPLE ID: SB-9 (14')

PNA EPA 8270D (SIM)

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Acenaphthene	ND	330	ug/Kg (PPB)	KC/TR	8/27/2019	8/28/2019	EPA 3550B
Acenaphthylene	ND	330					
Anthracene	ND	330					
Benzo(a)anthracene	ND	330					
Benzo(b)fluoranthene	ND	330					
Benzo(k)fluoranthene	ND	330					
Benzo(a)pyrene	ND	330					
Benzo(ghi)perylene	ND	330					
2-Chloronaphthalene	ND	330					
Chrysene	ND	330					
Dibenz(ah)anthracene	ND	330					
Fluoranthene	ND	330					
Fluorene	ND	330					
Indeno(123-cd)pyrene	ND	330					
2-Methylnaphthalene	ND	330					
Naphthalene	ND	330					
Phenanthrene	ND	330					
Pyrene	ND	330					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
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 LOD = LIMIT OF DETECTION



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COMPANY: WILLIAMS PROJECT
 PROJECT NO: 2019613001.00
 LOCATION: 4643 ELLIS ROAD

GTA PROJECT NO: 082119-4
 GTA SAMPLE NO: 12

DATE SAMPLED: 8/20/2019
 TIME SAMPLED: 9:35 AM

SAMPLED BY: MI
 MIKE RANKENS/GCES

DATE RECEIVED: 8/21/2019
 TIME RECEIVED: 11:25 AM

SAMPLE MATRIX: SOIL
 SAMPLE ID: SB-10 (11')

PNA EPA 8270D (SIM)

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Acenaphthene	ND	330	ug/Kg (PPB)	KC/TR	8/27/2019	8/28/2019	EPA 3550B
Acenaphthylene	ND	330					
Anthracene	ND	330					
Benzo(a)anthracene	ND	330					
Benzo(b)fluoranthene	ND	330					
Benzo(k)fluoranthene	ND	330					
Benzo(a)pyrene	ND	330					
Benzo(ghi)perylene	ND	330					
2-Chloronaphthalene	ND	330					
Chrysene	ND	330					
Dibenz(ah)anthracene	ND	330					
Fluoranthene	ND	330					
Fluorene	ND	330					
Indeno(123-cd)pyrene	ND	330					
2-Methylnaphthalene	ND	330					
Naphthalene	ND	330					
Phenanthrene	ND	330					
Pyrene	ND	330					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
 ND = NOT DETECTED
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COMPANY: WILLIAMS PROJECT
 PROJECT NO: 2019613001.00
 LOCATION: 4643 ELLIS ROAD

GTA PROJECT NO: 082119-4
 GTA SAMPLE NO: 13

DATE SAMPLED: 8/20/2019
 TIME SAMPLED: 2:30 PM

SAMPLED BY: MI
 MIKE RANKENS/GCES

DATE RECEIVED: 8/21/2019
 TIME RECEIVED: 11:25 AM

SAMPLE MATRIX: WATER
 SAMPLE ID: SB-6 (GW(15'-18.65'))

PNA EPA 8270D (SIM)

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Acenaphthene	ND	5.0	ug/L (PPB)	KC/TR	8/26/2019	8/28/2019	EPA 3511
Acenaphthylene	ND	5.0					
Anthracene	ND	5.0					
Benzo(a)anthracene	ND	1.0					
Benzo(b)fluoranthene	ND	1.0					
Benzo(k)fluoranthene	ND	1.0					
Benzo(a)pyrene	ND	1.0					
Benzo(ghi)perylene	ND	2.0					
2-Chloronaphthalene	ND	5.0					
Chrysene	ND	1.0					
Dibenz(ah)anthracene	ND	2.0					
Fluoranthene	ND	1.0					
Fluorene	ND	5.0					
Indeno(123-cd)pyrene	ND	2.0					
2-Methylnaphthalene	9.5	5.0					
Naphthalene	5.5	5.0					
Phenanthrene	ND	2.0					
Pyrene	ND	5.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
 ND = NOT DETECTED
 LOD = LIMIT OF DETECTION



INDEPENDENT TESTING LAB

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FAX: 231-929-0894

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COMPANY: WILLIAMS PROJECT
 PROJECT NO: 2019613001.00
 LOCATION: 4643 ELLIS ROAD
 MI
 SAMPLED BY: MIKE RANKENS/GCES
 WATER
 SAMPLE ID: MW-1

GTA PROJECT NO: 082119-4
 GTA SAMPLE NO: 14
 DATE SAMPLED: 8/20/2019
 TIME SAMPLED: 3:07 PM
 DATE RECEIVED: 8/21/2019
 TIME RECEIVED: 11:25 AM

PNA EPA 8270D (SIM)

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Acenaphthene	ND	5.0	ug/L (PPB)	KC/TR	8/26/2019	8/28/2019	EPA 3511
Acenaphthylene	ND	5.0					
Anthracene	ND	5.0					
Benzo(a)anthracene	ND	1.0					
Benzo(b)fluoranthene	ND	1.0					
Benzo(k)fluoranthene	ND	1.0					
Benzo(a)pyrene	ND	1.0					
Benzo(ghi)perylene	ND	2.0					
2-Chloronaphthalene	ND	5.0					
Chrysene	ND	1.0					
Dibenz(ah)anthracene	ND	2.0					
Fluoranthene	ND	1.0					
Fluorene	ND	5.0					
Indeno(123-cd)pyrene	ND	2.0					
2-Methylnaphthalene	ND	5.0					
Naphthalene	ND	5.0					
Phenanthrene	ND	2.0					
Pyrene	ND	5.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
 ND = NOT DETECTED
 LOD = LIMIT OF DETECTION



INDEPENDENT TESTING LAB

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PH: 231-929-0905

FAX: 231-929-0894

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COMPANY: WILLIAMS PROJECT
 PROJECT NO: 2019613001.00
 LOCATION: 4643 ELLIS ROAD

GTA PROJECT NO: 082119-4
 GTA SAMPLE NO: 15

DATE SAMPLED: 8/20/2019
 TIME SAMPLED: 4:16 PM

SAMPLED BY: MI
 MIKE RANKENS/GCES

DATE RECEIVED: 8/21/2019
 TIME RECEIVED: 11:25 AM

SAMPLE MATRIX: WATER
 SAMPLE ID: MW-2

PNA EPA 8270D (SIM)

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Acenaphthene	ND	5.0	ug/L (PPB)	KC/TR	8/26/2019	8/28/2019	EPA 3511
Acenaphthylene	ND	5.0					
Anthracene	ND	5.0					
Benzo(a)anthracene	ND	1.0					
Benzo(b)fluoranthene	ND	1.0					
Benzo(k)fluoranthene	ND	1.0					
Benzo(a)pyrene	ND	1.0					
Benzo(ghi)perylene	ND	2.0					
2-Chloronaphthalene	ND	5.0					
Chrysene	ND	1.0					
Dibenz(ah)anthracene	ND	2.0					
Fluoranthene	ND	1.0					
Fluorene	ND	5.0					
Indeno(123-cd)pyrene	ND	2.0					
2-Methylnaphthalene	ND	5.0					
Naphthalene	ND	5.0					
Phenanthrene	ND	2.0					
Pyrene	ND	5.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
 ND = NOT DETECTED
 LOD = LIMIT OF DETECTION



INDEPENDENT TESTING LAB

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

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COMPANY: WILLIAMS PROJECT

NAME:
PROJECT NO: 2019613001.00

LOCATION: 4643 ELLIS ROAD

MI

GTA PROJECT NO: 082119-4
SAMPLED BY: MIKE RANKENS/GCES

DATE SAMPLED: 8/19/2019
TIME SAMPLED: 10:45 AM
SAMPLE MATRIX: SOIL

DATE RECEIVED: 8/21/2019
TIME RECEIVED: 11:25 AM

MOISTURE

<u>No:</u> <u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Complete</u>
SAMPLE ID: SB-1 (5') - HOLD % MOISTURE EPA 3550C	13	0.050	% OF SAMPLE	AS	8/21/2019
SAMPLE ID: SB-1 (7') % MOISTURE EPA 3550C	11	0.050	% OF SAMPLE	AS	8/21/2019
SAMPLE ID: SB-2 (6') % MOISTURE EPA 3550C	11	0.050	% OF SAMPLE	AS	8/21/2019
SAMPLE ID: SB-3 (6') % MOISTURE EPA 3550C	12	0.050	% OF SAMPLE	AS	8/21/2019
SAMPLE ID: SB-4 (15') % MOISTURE EPA 3550C	11	0.050	% OF SAMPLE	AS	8/21/2019
SAMPLE ID: SB-5 (15') % MOISTURE EPA 3550C	11	0.050	% OF SAMPLE	AS	8/21/2019
SAMPLE ID: SB-6 (14') % MOISTURE EPA 3550C	9.5	0.050	% OF SAMPLE	AS	8/21/2019
SAMPLE ID: SB-7 (6') % MOISTURE EPA 3550C	12	0.050	% OF SAMPLE	AS	8/21/2019
SAMPLE ID: SB-8 (13') % MOISTURE EPA 3550C	13	0.050	% OF SAMPLE	AS	8/21/2019
SAMPLE ID: SB-9 (14') % MOISTURE EPA 3550C	13	0.050	% OF SAMPLE	AS	8/21/2019
SAMPLE ID: SB-9 (18.5') - HOLD % MOISTURE EPA 3550C	11	0.050	% OF SAMPLE	AS	8/21/2019
SAMPLE ID: SB-10 (11') % MOISTURE EPA 3550C	16	0.050	% OF SAMPLE	AS	8/21/2019

CHAIN OF CUSTODY

PROJECT NUMBER 2019G13001.00	SITE NAME/ADDRESS 4643 Ellis Road	COMPANY/NAME Williams Project
SAMPLED BY Mike Rankens	COMPANY GCEs	GTA PROJECT # 082119-4

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
* 1	SB-1 (5')	8/19/19	1045	Soil	BTEX, TMB ^s + PNA ^s *
2	SB-1 (7')	8/19/19	1055	Soil	BTEX, TMB ^s + PNA ^s
3	SB-2 (6')	8/19/19	1115	Soil	BTEX, TMB ^s + PNA ^s
4	SB-3 (6')	8/19/19	1140	Soil	BTEX, TMB ^s + PNA ^s
5	SB-4 (15')	8/19/19	1245	Soil	BTEX, TMB ^s + PNA ^s
6	SB-5 (15')	8/19/19	1305	Soil	BTEX, TMB ^s + PNA ^s
7	SB-6 (14')	8/19/19	1325	Soil	BTEX, TMB ^s + PNA ^s
8	SB-7 (6')	8/19/19	1410	Soil	BTEX, TMB ^s + PNA ^s
9	SB-8 (13')	8/19/19	1440	Soil	BTEX, TMB ^s + PNA ^s
10	SB-9 (14')	8/19/19	1455	Soil	BTEX, TMB ^s + PNA ^s
* 11	SB-9 (18.5')	8/19/19	1505	Soil	BTEX, TMB ^s + PNA ^s *
12	SB-10 (11')	8/20/19	0935	Soil	BTEX, TMB ^s + PNA ^s
13	SB-6 (GW (15'-18.65'))	8/20/19	1430	Water	BTEX, TMB ^s + PNA ^s
14	MW-1	8/20/19	1507	Water	BTEX, TMB ^s + PNA ^s
15	MW-2	8/20/19	1616	Water	BTEX, TMB ^s + PNA ^s

BILL TO:

GCEs

* = HOLD

REPORT TO:

Adam Biteman

RELEASED BY	DATE/TIME	RECEIVED BY	DATE/TIME
<i>[Signature]</i>	8/20/19 @ 1900	GCEs Cold Storage	8/20/19 @ 1900
GCEs Cold Storage	8/21/19 @ 1100	<i>[Signature]</i>	8/21/19 @ 1100
<i>[Signature]</i>	8/21/19 @ 1125	<i>[Signature]</i>	8/21/19 11:25

REQUESTED TAT STANDARD 1 BUSINESS DAY 2 BUSINESS DAYS 3 BUSINESS DAYS