



INDEPENDENT TESTING LAB

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

Company: CITY OF SAULT
Name:
ClientProj: M19-3108
GTA ProjNo: 100119-4

Site Addr: 809 SEYMOUR

Sampled By: PJK/MET

Date Rec: 10/1/2019

Time Rec: 12:45 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-1	9/26/2019	10:00 AM	WATER
2	MW-1 @ 4'	9/26/2019	10:00 AM	SOIL
3	SB-1 @ 1'	9/26/2019	11:00 AM	SOIL

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
830 Robinwood Court
Traverse City, MI 49686
Ph: 231-929-0905
Fx: 231-929-0894
SP: 231-590-0291
kirk@gtanalytical.com

**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

COMPANY: CITY OF SAULT

PROJECT NO: M19-3108

LOCATION: 809 SEYMOUR

MI

SAMPLE MATRIX: WATER

SAMPLE ID: MW-1

GTA PROJECT NO: 100119-4

GTA SAMPLE NO: 1

DATE SAMPLED: 9/26/2019

TIME SAMPLED: 10:00 AM

DATE RECEIVED: 10/1/2019

TIME RECEIVED: 12:45 PM

SAMPLED BY: PJK/MET

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		10/2/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	3.0	1.0					
Xylene(Total)	130	11					
1,2,4-Trimethylbenzene	180	5.0					
1,3,5-Trimethylbenzene	42	1.0					
Methyl-t-Butyl Ether	ND	5.0					
Naphthalene	27	5.0					
2-Methylnaphthalene	400	5.0					

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

ND = NOT DETECTED, RESULT < LOD

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: CITY OF SAULT

PROJECT NO: M19-3108
LOCATION: 809 SEYMOUR

MI

SAMPLE MATRIX: SOIL
SAMPLE ID: MW-1 @ 4'

GTA PROJECT NO: 100119-4

GTA SAMPLE NO: 2

DATE SAMPLED: 9/26/2019

TIME SAMPLED: 10:00 AM

DATE RECEIVED: 10/1/2019

TIME RECEIVED: 12:45 PM

SAMPLED BY: PJK/MET

**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		9/26/2019	10/2/2019	EPA 5035A
Toluene	ND	50					
Ethylbenzene	80	50					
Xylene(Total)	1,400	150					
1,2,4-Trimethylbenzene	8,400	300					
1,3,5-Trimethylbenzene	1,800	50					
Methyl-t-Butyl Ether	ND	250					
Naphthalene	970	250					
2-Methylnaphthalene	9,700	300					

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

ND = NOT DETECTED, RESULT < LOD

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: CITY OF SAULT

PROJECT NO: M19-3108
LOCATION: 809 SEYMOURSAMPLED BY: MI
PJK/METSAMPLE MATRIX: WATER
SAMPLE ID: MW-1

GTA PROJECT NO: 100119-4

GTA SAMPLE NO: 1

DATE SAMPLED: 9/26/2019
TIME SAMPLED: 10:00 AMDATE RECEIVED: 10/1/2019
TIME RECEIVED: 12:45 PM**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	5.0	ug/L (PPB)	KC/TR	10/3/2019	10/6/2019	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	4.5	1.0					
Fluorene	7.8	5.0					
Indeno(123-cd)pyrene	ND	2.0					
Phenanthrene	14	2.0					
Pyrene	ND	5.0					

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

ND = NOT DETECTED, RESULT IS <LOD.

LOD = LIMIT OF DETECTION.

COMPANY: CITY OF SAULT

PROJECT NO: M19-3108
LOCATION: 809 SEYMOUR

SAMPLED BY: MI
PJK/MET

SAMPLE MATRIX: SOIL
SAMPLE ID: MW-1 @ 4'

GTA PROJECT NO: 100119-4
GTA SAMPLE NO: 2

DATE SAMPLED: 9/26/2019
TIME SAMPLED: 10:00 AM

DATE RECEIVED: 10/1/2019
TIME RECEIVED: 12:45 PM

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	10/5/2019	10/6/2019	EPA 3550B
Acenaphthylene	4,200	330					
Anthracene	1,600	330					
Benzo(a)anthracene	1,400	330					
Benzo(b)fluoranthene	1,400	330					
Benzo(k)fluoranthene	1,000	330					
Benzo(a)pyrene	1,400	330					
Benzo(ghi)perylene	680	330					
2-Chloronaphthalene	ND	330					
Chrysene	1,500	330					
Dibenz(ah)anthracene	ND	330					
Fluoranthene	4,000	330					
Fluorene	ND	330					
Indeno(123-cd)pyrene	800	330					
Phenanthrene	7,900	330					
Pyrene	2,500	330					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
ND = NOT DETECTED, RESULT IS <LOD.
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: CITY OF SAULT
PROJECT NO: M19-3108
LOCATION: 809 SEYMOUR

GTA PROJECT NO: 100119-4
GTA SAMPLE NO: 3

DATE SAMPLED: 9/26/2019
TIME SAMPLED: 11:00 AM

SAMPLED BY: MI
PJK/MET

DATE RECEIVED: 10/1/2019
TIME RECEIVED: 12:45 PM

SAMPLE MATRIX: SOIL
SAMPLE ID: SB-1 @ 1'

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	10/5/2019	10/6/2019	EPA 3550B
Acenaphthylene	ND	330					
Anthracene	ND	330					
Benzo(a)anthracene	ND	330					
Benzo(b)fluoranthene	810	330					
Benzo(k)fluoranthene	670	330					
Benzo(a)pyrene	ND	330					
Benzo(ghi)perylene	490	330					
2-Chloronaphthalene	ND	330					
Chrysene	ND	330					
Dibenz(ah)anthracene	ND	330					
Fluoranthene	360	330					
Fluorene	ND	330					
Indeno(123-cd)pyrene	330	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: CITY OF SAULT
PROJECT NO: M19-3108
LOCATION: 809 SEYMOUR
MI
SAMPLED BY: PJK/MET
SAMPLE ID: SB-1 @ 1'

GTA PROJECT NO: 100119-4
GTA SAMPLE NO: 3
DATE SAMPLED: 9/26/2019
TIME SAMPLED: 11:00 AM
DATE RECEIVED: 10/1/2019
TIME RECEIVED: 12:45 PM
SAMPLE MATRIX: SOIL

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
ARSENIC TOTAL EPA 6020A	ND	0.32	mg/Kg (PPM)	MR/TR	10/8/2019	EPA 3050B
BARIUM TOTAL EPA 6020A	31	0.32	mg/Kg (PPM)	MR/TR	10/8/2019	EPA 3050B
CADMIUM TOTAL EPA 6020A	ND	0.32	mg/Kg (PPM)	MR/TR	10/8/2019	EPA 3050B
CHROMIUM TOTAL EPA 6020A	8.7	0.32	mg/Kg (PPM)	MR/TR	10/8/2019	EPA 3050B
LEAD TOTAL EPA 6020A	28	0.32	mg/Kg (PPM)	MR/TR	10/8/2019	EPA 3050B
MERCURY TOTAL EPA 7471B	ND	0.017	mg/Kg (PPM)	MR	10/9/2019	EPA 7471
SELENIUM TOTAL EPA 6020A	ND	0.32	mg/Kg (PPM)	MR/TR	10/8/2019	EPA 3050B
SILVER TOTAL EPA 6020A	ND	0.32	mg/Kg (PPM)	MR/TR	10/8/2019	EPA 3050B

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

DISS = DISSOLVED

**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

COMPANY: CITY OF SAULT

NAME:

PROJECT NO: M19-3108

LOCATION: 809 SEYMOUR

MI

GTA PROJECT NO: 100119-4

SAMPLED BY: PJK/MET

DATE SAMPLED: 9/26/2019

TIME SAMPLED: 10:00 AM

SAMPLE MATRIX: SOIL

DATE RECEIVED: 10/1/2019

TIME RECEIVED: 12:45 PM

MOISTURE**No: Analysis**

SAMPLE ID: MW-1 @ 4'

% MOISTURE EPA 3550C

SAMPLE ID: SB-1 @ 1'

% MOISTURE EPA 3550C

<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Complete</u>
9.2	0.050	% OF SAMPLE	AS	10/1/2019
8.6	0.050	% OF SAMPLE	AS	10/1/2019

INDEPENDENT TESTING LAB

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

CHAIN OF CUSTODY

PROJECT NUMBER <i>M19-3108</i>	SITE NAME/ADDRESS <i>809 Seymour</i>	COMPANY/NAME <i>City of Sault</i>
SAMPLED BY <i>PJK</i>	COMPANY <i>MET</i>	GTA PROJECT # <i>09-1010 100119-4</i>

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
	<i>MW-1</i>	<i>9-26-19</i>	<i>10:00</i>	<i>H2O</i>	<i>ULG + PNAS</i>
	<i>MW-1 @ 4'</i>	<i>↓</i>	<i>10:00</i>	<i>Soil</i>	<i>ULG + PNAS</i>
	<i>SB-1 @ 1'</i>	<i>↓</i>	<i>11:00</i>	<i>Soil</i>	<i>PNAS + RCRA (8) Metals</i>

BILL TO: *met@sault.com*

REPORT TO:

Paul Kreski

RELEASED BY <i>Paul Kreski</i>	DATE/TIME <i>9-30-19</i>	RECEIVED BY <i>Ary</i>	DATE/TIME <i>10/1/19 12:45</i>
			<i>rec 4.00</i>

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