



INDEPENDENT TESTING LAB

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

Company: MACKINAC ENVIRONMENTAL
Name:
ClientProj: M20-3353
GTA ProjNo: 102720-10

Site Addr: BIG SPRING

Sampled By: PJK/MET

Date Rec: 10/27/2020

Time Rec: 12:10 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	SB-1 @ 2'	10/23/2020		SOIL
2	SB-1 @ 3.5'	10/23/2020		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 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: MACKINAC ENVIRONMENTAL
 PROJECT NO: M20-3353
 LOCATION: BIG SPRING
 MI
 SAMPLE MATRIX: SOIL
 SAMPLE ID: SB-1 @ 2'

GTA PROJECT NO: 102720-10
 GTA SAMPLE NO: 1
 DATE SAMPLED: 10/23/2020
 TIME SAMPLED:
 DATE RECEIVED: 10/27/2020
 TIME RECEIVED: 12:10 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	10/23/2020	10/29/2020	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Methyl-t-Butyl Ether	ND	250					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

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: MACKINAC ENVIRONMENTAL

PROJECT NO: M20-3353
 LOCATION: BIG SPRING

MI

SAMPLE MATRIX: SOIL
 SAMPLE ID: SB-1 @ 3.5'

GTA PROJECT NO: 102720-10
 GTA SAMPLE NO: 2

DATE SAMPLED: 10/23/2020
 TIME SAMPLED:
 DATE RECEIVED: 10/27/2020
 TIME RECEIVED: 12:10 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	10/23/2020	10/29/2020	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Methyl-t-Butyl Ether	ND	250					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

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: MACKINAC ENVIRONMENTAL

NAME:
PROJECT NO: M20-3353

LOCATION: BIG SPRING

MI

GTA PROJECT NO: 102720-
SAMPLED BY: PJK/MET

DATE SAMPLED: 10/23/2020
TIME SAMPLED:

SAMPLE MATRIX: SOIL

DATE RECEIVED: 10/27/2020
TIME RECEIVED: 12:10 PM

MOISTURE

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
SAMPLE ID: SB-1 @ 2'	% MOISTURE EPA 3550C	18	0.050	% OF SAMPLE	AS	10/27/2020
SAMPLE ID: SB-1 @ 3.5'	% MOISTURE EPA 3550C	28	0.050	% OF SAMPLE	AS	10/27/2020

CHAIN OF CUSTODY

PROJECT NUMBER M20-3353	SITE NAME/ADDRESS Big Spring	COMPANY/NAME
SAMPLED BY PJK	COMPANY MET	GTA PROJECT # 102720-10

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
	SB-1 @ 2'	10-23-20		Soil	ULG
	SB-1 @ 3.5'	10-23-20		Soil	ULG

BILL TO: met@sault.com	REPORT TO: Paul Kreski
-------------------------------	----------------------------------

RELEASED BY	DATE/TIME	RECEIVED BY	DATE/TIME
Paul Kreski	10-26-20	[Signature]	10/26/20 12:10 rec 4.0°C Office

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