

**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: M19-3095
GTA ProjNo: 083019-8

Site Addr: MOOSE JAW JUNCTION

Sampled By: BRAD JEFFERS/MET
Date Rec: 8/30/2019
Time Rec: 12:20 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	UST LIQUID	8/29/2019		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
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

GTA PROJECT NO: 083019-8

PROJECT NO: M19-3095

GTA SAMPLE NO: 1

LOCATION: MOOSE JAW JUNCTION

DATE SAMPLED: 8/29/2019

TIME SAMPLED:

DATE RECEIVED: 8/30/2019

TIME RECEIVED: 12:20 PM

SAMPLED BY: BRAD JEFFERS/MET

SAMPLE MATRIX: WATER

SAMPLE ID: UST LIQUID

EPA 8260B VOLATILE ORGANICS

Units= ug/L (PPB)

Analyst= MR

Date

Date Completed= 8/30/2019

Prep

EPA 5030B

Analyte	Concentration	LOD
ACETONE	ND	25
ALLYL CHLORIDE	ND	10
BENZENE	ND	1.0
BROMOBENZENE	ND	1.0
BROMOCHLOROMETHANE	ND	1.0
BROMODICHLOROMETHANE	ND	1.0
BROMOFORM	ND	1.0
BROMOMETHANE	ND	1.0
n-BUTYLBENZENE	1.6	1.0
s-BUTYLBENZENE	ND	1.0
t-BUTYLBENZENE	ND	1.0
CARBON DISULFIDE	ND	5.0
CARBON TETRACHLORIDE	ND	1.0
CHLOROBEZENE	ND	1.0
1-CHLOROBUTANE	ND	1.0
CHLOROFORM	ND	1.0
CHLOROETHANE	ND	1.0
CHLOROMETHANE	ND	1.0
2-CHLOROTOLUENE	ND	1.0
4-CHLOROTOLUENE	ND	1.0
DIBROMOCHLOROMETHANE	ND	1.0
DIBROMOMETHANE	ND	1.0
1,2-DIBROMOETHANE	ND	1.0
1,2-DICHLOROBENZENE	ND	1.0
1,3-DICHLOROBENZENE	ND	1.0
1,4-DICHLOROBENZENE	ND	1.0
t-1,4-DICHLORO-2-BUTENE	ND	10
DICHLORODIFLUOROMETHANE	ND	1.0
1,1-DICHLOROETHANE	ND	1.0
1,2-DICHLOROETHANE	ND	1.0
1,1-DICHLOROETHENE	ND	1.0
cis-1,2-DICHLOROETHENE	ND	1.0
trans-1,2-DICHLOROETHENE	ND	1.0
1,2-DICHLOROPROPANE	ND	1.0
1,3-DICHLOROPROPANE	ND	1.0
2,2-DICHLOROPROPANE	ND	1.0
1,1-DICHLOROPROPENE	ND	1.0

Analyte	Concentration	LOD
cis-1,3-DICHLOROPROPENE	ND	1.0
trans-1,3-DICHLOROPROPENE	ND	1.0
DIETHYL ETHER	ND	10
ETHYLBENZENE	2.6	1.0
ETHYL METHACRYLATE	ND	10
HEXACHLOROBUTADIENE	ND	1.0
HEXACHLOROETHANE	ND	10
2-HEXANONE	ND	10
IDOMETHANE	ND	10
ISOPROPYLBENZENE	ND	1.0
ISOPROPYLTOLUENE	ND	1.0
METHYL ACRYLATE	ND	10
METHYL ETHYL KETONE	ND	10
METHYL-t-BUTYL ETHER	ND	5.0
METHYLENE CHLORIDE	ND	1.0
METHYL METHACRYLATE	ND	10
MIBK	ND	10
2-METHYLNAPHTHALENE	ND	5.0
NAPHTHALENE	ND	5.0
PENTACHLOROETHANE	ND	10
n-PROPYLBENZENE	ND	1.0
STYRENE	ND	1.0
1,1,1,2-TETRACHLOROETHANE	ND	1.0
1,1,2,2-TETRACHLOROETHANE	ND	1.0
TETRACHLOROETHENE	ND	1.0
TOLUENE	ND	1.0
1,2,3-TRICHLOROBENZENE	ND	1.0
1,2,4-TRICHLOROBENZENE	ND	1.0
1,1,1-TRICHLOROETHANE	ND	1.0
1,1,2-TRICHLOROETHANE	ND	1.0
TRICHLOROETHENE	ND	1.0
TRICHLORFLUOROMETHANE	ND	1.0
1,2,3-TRICHLOROPROPANE	ND	1.0
1,2,4-TRIMETHYLBENZENE	6.3	1.0
1,3,5-TRIMETHYLBENZENE	2.9	1.0
VINYL CHLORIDE	ND	1.0
XYLENE (TOTAL)	4.7	3.0

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: MACKINAC ENVIRONMENTAL

GTA PROJECT NO: 083019-8

PROJECT NO: M19-3095

GTA SAMPLE NO: 1

LOCATION: MOOSE JAW JUNCTION

DATE SAMPLED: 8/29/2019

TIME SAMPLED:

SAMPLED BY: MI
BRAD JEFFERS/MET

DATE RECEIVED: 8/30/2019

TIME RECEIVED: 12:20 PM

SAMPLE ID: UST LIQUID

SAMPLE MATRIX: WATER

EPA 1311 TCLP - 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 TCLP EPA 1311/6020A	ND	0.0050	mg/L (PPM)	MR	9/4/2019	EPA 3005A
BARIUM TCLP EPA 1311/6020A	ND	0.0050	mg/L (PPM)	MR	9/4/2019	EPA 3005A
CADMIUM TCLP EPA 1311/6020A	ND	0.0050	mg/L (PPM)	MR	9/4/2019	EPA 3005A
CHROMIUM TCLP EPA 1311/6020A	ND	0.0050	mg/L (PPM)	MR	9/4/2019	EPA 3005A
LEAD TCLP EPA 1311/6020A	ND	0.0050	mg/L (PPM)	MR	9/4/2019	EPA 3005A
MERCURY TCLP EPA 1311/7470A	ND	0.00020	mg/L (PPM)	MR	9/3/2019	EPA 7470A
SELENIUM TCLP EPA 1311/6020A	ND	0.0050	mg/L (PPM)	MR	9/4/2019	EPA 3005A
SILVER TCLP EPA 1311/6020A	ND	0.0050	mg/L (PPM)	MR	9/4/2019	EPA 3005A

ND = NOT DETECTED
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: MACKINAC ENVIRONMENTAL

PROJECT NO: M19-3095

LOCATION: MOOSE JAW JUNCTION

MI

SAMPLE MATRIX: WATER

SAMPLE ID: UST LIQUID

GTA PROJECT NO: 083019-8

GTA SAMPLE NO: 2

SAMPLED BY: BRAD JEFFERS/MET

DATE SAMPLED: 8/29/2019

TIME SAMPLED:

DATE RECEIVED: 8/30/2019

TIME RECEIVED: 12:20 PM

FLASHPOINT

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Complete</u>
FLASHPOINT/IGNITABILITY EPA 1010A	>200	50.0	DEGREE F	TR	9/5/2019

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:	MACKINAC ENVIRONMENTAL	GTA PROJECT NO:	083019-8
PROJECT NO:	M19-3095	GTA SAMPLE NO:	1
LOCATION:	MOOSE JAW JUNCTION	DATE RECEIVED:	8/30/2019
	MI	TIME RECEIVED:	12:20 PM
SAMPLED BY:	BRAD JEFFERS/MET	DATE SAMPLED:	8/29/2019
		TIME SAMPLED:	
SAMPLE ID:	UST LIQUID	SAMPLE MATRIX:	WATER

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Complete</u>
pH EPA 150.1 - LAB	5.9	0.10	s.u.	KC	8/30/2019

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

s.u. = STANDARD pH UNITS REPORTED AT 25 C

DISS = DISSOLVED

