



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: M19-2999D
GTA ProjNo: 050319-4

Site Addr: WALSTROM FUEL DOCK

Sampled By: BRAD JEFFERS/MET
Date Rec: 5/3/2019
Time Rec: 12:57 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	B-1	5/2/2019		WATER
2	B-2	5/2/2019		WATER
3	B-3	5/2/2019		WATER
4	B-4	5/2/2019		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
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COMPANY: MACKINAC ENVIRONMENTAL
PROJECT NO: M19-2999D
LOCATION: WALSTROM FUEL DOCK
MI
SAMPLE MATRIX: WATER
SAMPLE ID: B-1

GTA PROJECT NO: 050319-4
GTA SAMPLE NO: 1
DATE SAMPLED: 5/2/2019
TIME SAMPLED:
DATE RECEIVED: 5/3/2019
TIME RECEIVED: 12:57 PM
SAMPLED BY: BRAD JEFFERS/MET

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		5/3/2019	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					
Methyl-t-Butyl Ether	ND	5.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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

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COMPANY: MACKINAC ENVIRONMENTAL
PROJECT NO: M19-2999D
LOCATION: WALSTROM FUEL DOCK
MI
SAMPLE MATRIX: WATER
SAMPLE ID: B-2

GTA PROJECT NO: 050319-4
GTA SAMPLE NO: 2
DATE SAMPLED: 5/2/2019
TIME SAMPLED:
DATE RECEIVED: 5/3/2019
TIME RECEIVED: 12:57 PM
SAMPLED BY: BRAD JEFFERS/MET

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		5/3/2019	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					
Methyl-t-Butyl Ether	ND	5.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: MACKINAC ENVIRONMENTAL
PROJECT NO: M19-2999D
LOCATION: WALSTROM FUEL DOCK
MI
SAMPLE MATRIX: WATER
SAMPLE ID: B-3

GTA PROJECT NO: 050319-4
GTA SAMPLE NO: 3
DATE SAMPLED: 5/2/2019
TIME SAMPLED:
DATE RECEIVED: 5/3/2019
TIME RECEIVED: 12:57 PM
SAMPLED BY: BRAD JEFFERS/MET

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		5/3/2019	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					
Methyl-t-Butyl Ether	ND	5.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: MACKINAC ENVIRONMENTAL
PROJECT NO: M19-2999D
LOCATION: WALSTROM FUEL DOCK
MI
SAMPLE MATRIX: WATER
SAMPLE ID: B-4

GTA PROJECT NO: 050319-4
GTA SAMPLE NO: 4
DATE SAMPLED: 5/2/2019
TIME SAMPLED:
DATE RECEIVED: 5/3/2019
TIME RECEIVED: 12:57 PM
SAMPLED BY: BRAD JEFFERS/MET

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>
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COMPANY: MACKINAC ENVIRONMENTAL
PROJECT NO: M19-2999D
LOCATION: WALSTROM FUEL DOCK

GTA PROJECT NO: 050319-4
GTA SAMPLE NO: 1

DATE SAMPLED: 5/2/2019
TIME SAMPLED:

SAMPLED BY: MI
BRAD JEFFERS/MET

DATE RECEIVED: 5/3/2019
TIME RECEIVED: 12:57 PM

SAMPLE MATRIX: WATER
SAMPLE ID: B-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	5.0	ug/L (PPB)	KC/TR	5/3/2019	5/5/2019	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					
Phenanthrene	ND	2.0					
Pyrene	ND	5.0					

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COMPANY: MACKINAC ENVIRONMENTAL
PROJECT NO: M19-2999D
LOCATION: WALSTROM FUEL DOCK

GTA PROJECT NO: 050319-4
GTA SAMPLE NO: 2

DATE SAMPLED: 5/2/2019
TIME SAMPLED:

SAMPLED BY: MI
BRAD JEFFERS/MET

DATE RECEIVED: 5/3/2019
TIME RECEIVED: 12:57 PM

SAMPLE MATRIX: WATER
SAMPLE ID: B-2

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	5/3/2019	5/5/2019	EPA 3511
Acenaphthylene	ND	5.0					
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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					
Phenanthrene	ND	2.0					
Pyrene	ND	5.0					

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PROJECT NO: M19-2999D
LOCATION: WALSTROM FUEL DOCK

GTA PROJECT NO: 050319-4
GTA SAMPLE NO: 3

DATE SAMPLED: 5/2/2019
TIME SAMPLED:

SAMPLED BY: MI
BRAD JEFFERS/MET

DATE RECEIVED: 5/3/2019
TIME RECEIVED: 12:57 PM

SAMPLE MATRIX: WATER
SAMPLE ID: B-3

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>
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Fluorene	ND	5.0					
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Phenanthrene	ND	2.0					
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GTA PROJECT NO: 050319-4
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SAMPLE MATRIX: WATER
SAMPLE ID: B-4

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>
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