

**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

Company: SUMMIT PETROLEUM
Name:
ClientProj: 2013704.05
GTA ProjNo: 052119-20

Site Addr: MARY LOMP

Sampled By: JOSHUA GERRIE/GCES
Date Rec: 5/21/2019
Time Rec: 3:40 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-1	5/21/2019	1:05 PM	WATER
2	MW-2	5/21/2019	12:25 PM	WATER
3	MW-3	5/21/2019	12:45 PM	WATER
4	MW-4	5/21/2019	12:05 PM	WATER
5	MW-5S (22')	5/21/2019	2:10 PM	WATER
6	MW-5D (27')	5/21/2019	1:55 PM	WATER
7	MW-6	5/21/2019	11:45 AM	WATER
8	MW-7D	5/21/2019	1:35 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
830 Robinwood Court
Traverse City, MI 49686
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COMPANY: SUMMIT PETROLEUM

PROJECT NO: 2013704.05
LOCATION: MARY LOMP

MI

SAMPLE MATRIX: WATER
SAMPLE ID: MW-1GTA PROJECT NO: 052119-20
GTA SAMPLE NO: 1DATE SAMPLED: 5/21/2019
TIME SAMPLED: 1:05 PM
DATE RECEIVED: 5/21/2019
TIME RECEIVED: 3:40 PM

SAMPLED BY: JOSHUA GERRIE/GCES

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		5/22/2019	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					
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: SUMMIT PETROLEUM

PROJECT NO: 2013704.05
LOCATION: MARY LOMP

MI

SAMPLE MATRIX: WATER
SAMPLE ID: MW-2GTA PROJECT NO: 052119-20
GTA SAMPLE NO: 2DATE SAMPLED: 5/21/2019
TIME SAMPLED: 12:25 PM
DATE RECEIVED: 5/21/2019
TIME RECEIVED: 3:40 PM

SAMPLED BY: JOSHUA GERRIE/GCES

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		5/22/2019	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					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: SUMMIT PETROLEUM

PROJECT NO: 2013704.05
LOCATION: MARY LOMP

MI

SAMPLE MATRIX: WATER
SAMPLE ID: MW-3GTA PROJECT NO: 052119-20
GTA SAMPLE NO: 3DATE SAMPLED: 5/21/2019
TIME SAMPLED: 12:45 PM
DATE RECEIVED: 5/21/2019
TIME RECEIVED: 3:40 PM

SAMPLED BY: JOSHUA GERRIE/GCES

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		5/22/2019	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					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: SUMMIT PETROLEUM

PROJECT NO: 2013704.05
LOCATION: MARY LOMP

MI

SAMPLE MATRIX: WATER
SAMPLE ID: MW-4

GTA PROJECT NO: 052119-20

GTA SAMPLE NO: 4

DATE SAMPLED: 5/21/2019
TIME SAMPLED: 12:05 PM
DATE RECEIVED: 5/21/2019
TIME RECEIVED: 3:40 PM

SAMPLED BY: JOSHUA GERRIE/GCES

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		5/22/2019	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					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: SUMMIT PETROLEUM

PROJECT NO: 2013704.05
LOCATION: MARY LOMP

MI

SAMPLE MATRIX: WATER
SAMPLE ID: MW-5S (22')GTA PROJECT NO: 052119-20
GTA SAMPLE NO: 5DATE SAMPLED: 5/21/2019
TIME SAMPLED: 2:10 PM
DATE RECEIVED: 5/21/2019
TIME RECEIVED: 3:40 PM

SAMPLED BY: JOSHUA GERRIE/GCES

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		5/22/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	1.4	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: SUMMIT PETROLEUM

PROJECT NO: 2013704.05
LOCATION: MARY LOMP

MI

SAMPLE MATRIX: WATER
SAMPLE ID: MW-5D (27')GTA PROJECT NO: 052119-20
GTA SAMPLE NO: 6DATE SAMPLED: 5/21/2019
TIME SAMPLED: 1:55 PM
DATE RECEIVED: 5/21/2019
TIME RECEIVED: 3:40 PM

SAMPLED BY: JOSHUA GERRIE/GCES

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		5/22/2019	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					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
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COMPANY: SUMMIT PETROLEUM

PROJECT NO: 2013704.05
LOCATION: MARY LOMP

MI

SAMPLE MATRIX: WATER
SAMPLE ID: MW-6

GTA PROJECT NO: 052119-20
GTA SAMPLE NO: 7

DATE SAMPLED: 5/21/2019
TIME SAMPLED: 11:45 AM
DATE RECEIVED: 5/21/2019
TIME RECEIVED: 3:40 PM

SAMPLED BY: JOSHUA GERRIE/GCES

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		5/22/2019	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					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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

COMPANY: SUMMIT PETROLEUM

PROJECT NO: 2013704.05
LOCATION: MARY LOMP

MI

SAMPLE MATRIX: WATER
SAMPLE ID: MW-7D

GTA PROJECT NO: 052119-20
GTA SAMPLE NO: 8

DATE SAMPLED: 5/21/2019
TIME SAMPLED: 1:35 PM
DATE RECEIVED: 5/21/2019
TIME RECEIVED: 3:40 PM

SAMPLED BY: JOSHUA GERRIE/GCES

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		5/22/2019	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					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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

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PROJECT NO: 2013704.05

LOCATION: MARY LOMP

GTA PROJECT NO: 052119-20

GTA SAMPLE NO: 1

DATE SAMPLED: 5/21/2019

TIME SAMPLED: 1:05 PM

DATE RECEIVED: 5/21/2019

TIME RECEIVED: 3:40 PM

SAMPLED BY: MI
JOSHUA GERRIE/GCES**SAMPLE ANALYSIS**

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u>	<u>Sample</u>
SAMPLE ID: MW-1							
CHLORIDE EPA 300.0		31	10	mg/L (PPM)	LV	5/30/2019	WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

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COMPANY: SUMMIT PETROLEUM

PROJECT NO: 2013704.05

LOCATION: MARY LOMP

GTA PROJECT NO: 052119-20

GTA SAMPLE NO: 2

DATE SAMPLED: 5/21/2019

TIME SAMPLED: 12:25 PM

DATE RECEIVED: 5/21/2019

TIME RECEIVED: 3:40 PM

MI

SAMPLED BY: JOSHUA GERRIE/GCES

SAMPLE ANALYSIS**No: Analysis**

SAMPLE ID: MW-2

CHLORIDE EPA 300.0

Concentration

ND

LOD

10

Units

mg/L (PPM)

Analyst

LV

Date

5/30/2019

Sample

WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

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COMPANY: SUMMIT PETROLEUM

PROJECT NO: 2013704.05

LOCATION: MARY LOMP

GTA PROJECT NO: 052119-20

GTA SAMPLE NO: 3

DATE SAMPLED: 5/21/2019

TIME SAMPLED: 12:45 PM

DATE RECEIVED: 5/21/2019

TIME RECEIVED: 3:40 PM

SAMPLED BY: MI
JOSHUA GERRIE/GCES**SAMPLE ANALYSIS**

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u>	<u>Sample</u>
	SAMPLE ID: MW-3						
	CHLORIDE EPA 300.0	45	10	mg/L (PPM)	LV	5/30/2019	WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

COMPANY: SUMMIT PETROLEUM

PROJECT NO: 2013704.05

LOCATION: MARY LOMP

GTA PROJECT NO: 052119-20

GTA SAMPLE NO: 4

DATE SAMPLED: 5/21/2019

TIME SAMPLED: 12:05 PM

DATE RECEIVED: 5/21/2019

TIME RECEIVED: 3:40 PM

MI

SAMPLED BY: JOSHUA GERRIE/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: MW-4

CHLORIDE EPA 300.0

Concentration

ND

LOD

10

Units

mg/L (PPM)

Analyst

LV

Date

5/30/2019

Sample

WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

COMPANY: SUMMIT PETROLEUM

PROJECT NO: 2013704.05

LOCATION: MARY LOMP

GTA PROJECT NO: 052119-20

GTA SAMPLE NO: 5

DATE SAMPLED: 5/21/2019

TIME SAMPLED: 2:10 PM

DATE RECEIVED: 5/21/2019

TIME RECEIVED: 3:40 PM

MI

SAMPLED BY: JOSHUA GERRIE/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: MW-5S (22')

CHLORIDE EPA 300.0

Concentration

11

LOD

10

Units

mg/L (PPM)

Analyst

LV

Date

5/30/2019

Sample

WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

COMPANY: SUMMIT PETROLEUM

PROJECT NO: 2013704.05

LOCATION: MARY LOMP

GTA PROJECT NO: 052119-20

GTA SAMPLE NO: 6

DATE SAMPLED: 5/21/2019

TIME SAMPLED: 1:55 PM

DATE RECEIVED: 5/21/2019

TIME RECEIVED: 3:40 PM

MI

SAMPLED BY: JOSHUA GERRIE/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: MW-5D (27')

CHLORIDE EPA 300.0

Concentration

45

LOD

10

Units

mg/L (PPM)

Analyst

LV

Date

5/31/2019

Sample

WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

COMPANY: SUMMIT PETROLEUM

PROJECT NO: 2013704.05

LOCATION: MARY LOMP

GTA PROJECT NO: 052119-20

GTA SAMPLE NO: 7

DATE SAMPLED: 5/21/2019

TIME SAMPLED: 11:45 AM

DATE RECEIVED: 5/21/2019

TIME RECEIVED: 3:40 PM

MI

SAMPLED BY: JOSHUA GERRIE/GCES

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u>	<u>Sample</u>
	SAMPLE ID: MW-6						
	CHLORIDE EPA 300.0	14	10	mg/L (PPM)	LV	5/31/2019	WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

COMPANY: SUMMIT PETROLEUM

PROJECT NO: 2013704.05

LOCATION: MARY LOMP

GTA PROJECT NO: 052119-20

GTA SAMPLE NO: 8

DATE SAMPLED: 5/21/2019

TIME SAMPLED: 1:35 PM

DATE RECEIVED: 5/21/2019

TIME RECEIVED: 3:40 PM

MI

SAMPLED BY: JOSHUA GERRIE/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: MW-7D

CHLORIDE EPA 300.0

Concentration

67

LOD

10

Units

mg/L (PPM)

Analyst

LV

Date

5/31/2019

Sample

WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

CHAIN OF CUSTODY

PROJECT NUMBER 2013704.05	SITE NAME/ADDRESS Mary Lamp	COMPANY/NAME Summit Petroleum
SAMPLED BY Joshua Gerrie	COMPANY Gosling Czabak	GTA PROJECT # 052119-20

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	MW-1	5-21-19	1305	GW	BTEX+4 + Chloride
2	MW-2	↓	1225	↓	↓
3	MW-3		1245		
4	MW-4		1205		
5	MW-5s(22)		1410		
6	MW-5d(22)		1355		
7	MW-6		1145		
8	MW-7d	↓	1335	↓	↓

BILL TO:

REPORT TO:

GCES

Don Conway

RELEASED BY

DATE/TIME

RECEIVED BY

DATE/TIME

5-21-19/1540

5/21/19 1540

REC'd 40°

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