

**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: 2013704.02
GTA ProjNo: 102919-13

Site Addr: GROUT

Sampled By: MAX KORNDORFER/GCES
Date Rec: 10/29/2019
Time Rec: 4:30 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-7	10/29/2019	12:20 PM	WATER
2	MW-16	10/29/2019	12:50 PM	WATER
3	MW-15	10/29/2019	1:10 PM	WATER
4	SG-11	10/29/2019	1:30 PM	WATER
5	MW-11R	10/29/2019	1:40 PM	WATER
6	MW-12	10/29/2019	1:55 AM	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

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COMPANY: SUMMIT PETROLEUM

PROJECT NO: 2013704.02

LOCATION: GROUT

MI

SAMPLE MATRIX: WATER

SAMPLE ID: MW-7

GTA PROJECT NO: 102919-13

GTA SAMPLE NO: 1

DATE SAMPLED: 10/29/2019

TIME SAMPLED: 12:20 PM

DATE RECEIVED: 10/29/2019

TIME RECEIVED: 4:30 PM

SAMPLED BY: MAX KORNDORFER/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		10/30/2019	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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PROJECT NO: 2013704.02

LOCATION: GROUT

MI

SAMPLE MATRIX: WATER

SAMPLE ID: MW-16

GTA PROJECT NO: 102919-13

GTA SAMPLE NO: 2

DATE SAMPLED: 10/29/2019

TIME SAMPLED: 12:50 PM

DATE RECEIVED: 10/29/2019

TIME RECEIVED: 4:30 PM

SAMPLED BY: MAX KORNDORFER/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		10/30/2019	EPA 5030B
Toluene	3.5	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	1.7	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: 2013704.02

LOCATION: GROUT

MI

SAMPLE MATRIX: WATER

SAMPLE ID: MW-15

GTA PROJECT NO: 102919-13

GTA SAMPLE NO: 3

DATE SAMPLED: 10/29/2019

TIME SAMPLED: 1:10 PM

DATE RECEIVED: 10/29/2019

TIME RECEIVED: 4:30 PM

SAMPLED BY: MAX KORNDORFER/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		10/30/2019	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: 2013704.02

LOCATION: GROUT

MI

SAMPLE MATRIX: WATER

SAMPLE ID: SG-11

GTA PROJECT NO: 102919-13

GTA SAMPLE NO: 4

DATE SAMPLED: 10/29/2019

TIME SAMPLED: 1:30 PM

DATE RECEIVED: 10/29/2019

TIME RECEIVED: 4:30 PM

SAMPLED BY: MAX KORNDORFER/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		10/30/2019	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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PROJECT NO: 2013704.02

LOCATION: GROUT

MI

SAMPLE MATRIX: WATER

SAMPLE ID: MW-11R

GTA PROJECT NO: 102919-13

GTA SAMPLE NO: 5

DATE SAMPLED: 10/29/2019

TIME SAMPLED: 1:40 PM

DATE RECEIVED: 10/29/2019

TIME RECEIVED: 4:30 PM

SAMPLED BY: MAX KORNDORFER/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		10/30/2019	EPA 5030B
Toluene	1.6	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: 2013704.02

LOCATION: GROUT

MI

SAMPLE MATRIX: WATER

SAMPLE ID: MW-12

GTA PROJECT NO: 102919-13

GTA SAMPLE NO: 6

DATE SAMPLED: 10/29/2019

TIME SAMPLED: 1:55 AM

DATE RECEIVED: 10/29/2019

TIME RECEIVED: 4:30 PM

SAMPLED BY: MAX KORNDORFER/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		10/30/2019	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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LOCATION: GROUT

GTA PROJECT NO: 102919-13

GTA SAMPLE NO: 1

DATE SAMPLED: 10/29/2019

TIME SAMPLED: 12:20 PM

DATE RECEIVED: 10/29/2019

TIME RECEIVED: 4:30 PM

MI

SAMPLED BY: MAX KORNDORFER/GCES

SAMPLE ANALYSIS**No: Analysis**

SAMPLE ID: MW-7

CHLORIDE EPA 300.0

Concentration

68

LOD

10

Units

mg/L (PPM)

Analyst

LV

Date

11/8/2019

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: 2013704.02

LOCATION: GROUT

GTA PROJECT NO: 102919-13

GTA SAMPLE NO: 2

DATE SAMPLED: 10/29/2019

TIME SAMPLED: 12:50 PM

DATE RECEIVED: 10/29/2019

TIME RECEIVED: 4:30 PM

SAMPLED BY: MI
MAX KORNDORFER/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-16						
	CHLORIDE EPA 300.0	22	10	mg/L (PPM)	LV	11/8/2019	WATER

ND = NOT DETECTED, RESULT < LOD

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COMPANY: SUMMIT PETROLEUM

PROJECT NO: 2013704.02

LOCATION: GROUT

GTA PROJECT NO: 102919-13

GTA SAMPLE NO: 3

DATE SAMPLED: 10/29/2019

TIME SAMPLED: 1:10 PM

DATE RECEIVED: 10/29/2019

TIME RECEIVED: 4:30 PM

SAMPLED BY: MI
MAX KORNDORFER/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-15						
	CHLORIDE EPA 300.0	39	10	mg/L (PPM)	LV	11/8/2019	WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

COMPANY: SUMMIT PETROLEUM

PROJECT NO: 2013704.02

LOCATION: GROUT

GTA PROJECT NO: 102919-13

GTA SAMPLE NO: 4

DATE SAMPLED: 10/29/2019

TIME SAMPLED: 1:30 PM

DATE RECEIVED: 10/29/2019

TIME RECEIVED: 4:30 PM

SAMPLED BY: MI
MAX KORNDORFER/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: SG-11							
CHLORIDE EPA 300.0		22	10	mg/L (PPM)	LV	11/8/2019	WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

COMPANY: SUMMIT PETROLEUM

PROJECT NO: 2013704.02

LOCATION: GROUT

GTA PROJECT NO: 102919-13

GTA SAMPLE NO: 5

DATE SAMPLED: 10/29/2019

TIME SAMPLED: 1:40 PM

DATE RECEIVED: 10/29/2019

TIME RECEIVED: 4:30 PM

SAMPLED BY: MI
MAX KORNDORFER/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-11R						
	CHLORIDE EPA 300.0	14	10	mg/L (PPM)	LV	11/8/2019	WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

COMPANY: SUMMIT PETROLEUM

PROJECT NO: 2013704.02

LOCATION: GROUT

GTA PROJECT NO: 102919-13

GTA SAMPLE NO: 6

DATE SAMPLED: 10/29/2019

TIME SAMPLED: 1:55 AM

DATE RECEIVED: 10/29/2019

TIME RECEIVED: 4:30 PM

MI

SAMPLED BY: MAX KORNDORFER/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-12						
	CHLORIDE EPA 300.0	25	10	mg/L (PPM)	LV	11/8/2019	WATER

ND = NOT DETECTED, RESULT < LOD

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

CHAIN OF CUSTODY

PROJECT NUMBER 2013704.02	SITE NAME/ADDRESS Groot	COMPANY/NAME Summit Petroleum
SAMPLED BY M. Hornsdorfer	COMPANY G.C.E.S	GTA PROJECT # 102919-13

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	MW-7	10-29-19	12:20?	GW	BTEX+4, Chloride
2	MW-16	↑	12:50?	↑	↑
3	MW-15	↑	1:10?	↑	↑
4	SG-11	↑	1:30?	↑	↑
5	MW-11R	↓	1:40?	↓	↓
6	MW-12	10-29-19	1:55?	GW	BTEX+4, Chloride

BILL TO:

G.C.E.S

REPORT TO:

Don Conway

RELEASED BY

DATE/TIME

RECEIVED BY

DATE/TIME

[Signature]

10-29-19 4:30 pm

[Signature]

10/29/19 4:36
ce 400

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