

**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:

Site Addr: ST. HELEN UNIT CTB

GTA ProjNo: 120420-6

Sampled By: J. PARKER/SS
Date Rec: 12/4/2020
Time Rec: 12:20 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-2D	12/3/2020	1:05 PM	WATER
2	MW-5	12/3/2020	12:28 PM	WATER
3	MW-6	12/3/2020	12:15 PM	WATER
4	MW-7D	12/3/2020	11:13 AM	WATER
5	MW-7S	12/3/2020	11:27 AM	WATER
6	MW-8	12/3/2020	11:42 AM	WATER
7	MW-9	12/3/2020	12:06 PM	WATER
8	MW-10	12/3/2020	11:54 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 Chase

Kirk L. Chase/Chemist
Grand Traverse Analytical
830 Robinwood Court
Traverse City, MI 49686
Ph: 231-929-0905
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**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

COMPANY: SUMMIT PETROLEUM

PROJECT NO:

LOCATION: ST. HELEN UNIT CTB

MI

SAMPLE MATRIX: WATER

SAMPLE ID: MW-2D

GTA PROJECT NO: 120420-6

GTA SAMPLE NO: 1

DATE SAMPLED: 12/3/2020

TIME SAMPLED: 1:05 PM

DATE RECEIVED: 12/4/2020

TIME RECEIVED: 12:20 PM

SAMPLED BY: J. PARKER/SS

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		12/6/2020	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:

LOCATION: ST. HELEN UNIT CTB

MI

SAMPLE MATRIX: WATER

SAMPLE ID: MW-5

GTA PROJECT NO: 120420-6

GTA SAMPLE NO: 2

DATE SAMPLED: 12/3/2020

TIME SAMPLED: 12:28 PM

DATE RECEIVED: 12/4/2020

TIME RECEIVED: 12:20 PM

SAMPLED BY: J. PARKER/SS

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		12/6/2020	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

COMPANY: SUMMIT PETROLEUM

GTA PROJECT NO: 120420-6

PROJECT NO:

GTA SAMPLE NO: 3

LOCATION: ST. HELEN UNIT CTB

DATE SAMPLED: 12/3/2020

TIME SAMPLED: 12:15 PM

MI

DATE RECEIVED: 12/4/2020

TIME RECEIVED: 12:20 PM

SAMPLE MATRIX: WATER

SAMPLE ID: MW-6

SAMPLED BY: J. PARKER/SS

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		12/6/2020	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:

LOCATION: ST. HELEN UNIT CTB

MI

SAMPLE MATRIX: WATER

SAMPLE ID: MW-7D

GTA PROJECT NO: 120420-6

GTA SAMPLE NO: 4

DATE SAMPLED: 12/3/2020

TIME SAMPLED: 11:13 AM

DATE RECEIVED: 12/4/2020

TIME RECEIVED: 12:20 PM

SAMPLED BY: J. PARKER/SS

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		12/6/2020	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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COMPANY: SUMMIT PETROLEUM

GTA PROJECT NO: 120420-6

PROJECT NO:

GTA SAMPLE NO: 5

LOCATION: ST. HELEN UNIT CTB

DATE SAMPLED: 12/3/2020

TIME SAMPLED: 11:27 AM

MI

DATE RECEIVED: 12/4/2020

TIME RECEIVED: 12:20 PM

SAMPLE MATRIX: WATER

SAMPLE ID: MW-7S

SAMPLED BY: J. PARKER/SS

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		12/6/2020	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	36	3.0					
1,2,4-Trimethylbenzene	9.0	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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COMPANY: SUMMIT PETROLEUM

PROJECT NO:

LOCATION: ST. HELEN UNIT CTB

MI

SAMPLE MATRIX: WATER

SAMPLE ID: MW-8

GTA PROJECT NO: 120420-6

GTA SAMPLE NO: 6

DATE SAMPLED: 12/3/2020

TIME SAMPLED: 11:42 AM

DATE RECEIVED: 12/4/2020

TIME RECEIVED: 12:20 PM

SAMPLED BY: J. PARKER/SS

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		12/6/2020	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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LOD = LIMIT OF DETECTION

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COMPANY: SUMMIT PETROLEUM

PROJECT NO:

LOCATION: ST. HELEN UNIT CTB

MI

SAMPLE MATRIX: WATER

SAMPLE ID: MW-9

GTA PROJECT NO: 120420-6

GTA SAMPLE NO: 7

DATE SAMPLED: 12/3/2020

TIME SAMPLED: 12:06 PM

DATE RECEIVED: 12/4/2020

TIME RECEIVED: 12:20 PM

SAMPLED BY: J. PARKER/SS

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		12/6/2020	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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COMPANY: SUMMIT PETROLEUM

GTA PROJECT NO: 120420-6

PROJECT NO:

GTA SAMPLE NO: 8

LOCATION: ST. HELEN UNIT CTB

DATE SAMPLED: 12/3/2020

TIME SAMPLED: 11:54 AM

MI

DATE RECEIVED: 12/4/2020

TIME RECEIVED: 12:20 PM

SAMPLE MATRIX: WATER

SAMPLE ID: MW-10

SAMPLED BY: J. PARKER/SS

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		12/6/2020	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

GTA PROJECT NO: 120420-6

PROJECT NO:

GTA SAMPLE NO: 1

LOCATION: ST. HELEN UNIT CTB

DATE SAMPLED: 12/3/2020

TIME SAMPLED: 1:05 PM

DATE RECEIVED: 12/4/2020

TIME RECEIVED: 12:20 PM

MI

SAMPLED BY: J. PARKER/SS

SAMPLE ANALYSIS**No: Analysis**

SAMPLE ID: MW-2D

CHLORIDE EPA 300.0

Concentration

190

LOD

10

Units

mg/L (PPM)

Analyst

LV

Date Completed

12/5/2020

Sample

WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

COMPANY: SUMMIT PETROLEUM

GTA PROJECT NO: 120420-6

GTA SAMPLE NO: 2

PROJECT NO:

LOCATION: ST. HELEN UNIT CTB

DATE SAMPLED: 12/3/2020

TIME SAMPLED: 12:28 PM

DATE RECEIVED: 12/4/2020

TIME RECEIVED: 12:20 PM

MI

SAMPLED BY: J. PARKER/SS

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: MW-5

CHLORIDE EPA 300.0

Concentration

15

LOD

10

Units

mg/L (PPM)

Analyst

LV

Date Completed

12/5/2020

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:
LOCATION: ST. HELEN UNIT CTB

GTA PROJECT NO: 120420-6
GTA SAMPLE NO: 3

DATE SAMPLED: 12/3/2020
TIME SAMPLED: 12:15 PM
DATE RECEIVED: 12/4/2020
TIME RECEIVED: 12:20 PM

MI
SAMPLED BY: J. PARKER/SS

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample</u>
	SAMPLE ID: MW-6						
	CHLORIDE EPA 300.0	35	10	mg/L (PPM)	LV	12/5/2020	WATER

ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION
s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: SUMMIT PETROLEUM
PROJECT NO:
LOCATION: ST. HELEN UNIT CTB

GTA PROJECT NO: 120420-6
GTA SAMPLE NO: 4

DATE SAMPLED: 12/3/2020
TIME SAMPLED: 11:13 AM
DATE RECEIVED: 12/4/2020
TIME RECEIVED: 12:20 PM

MI
SAMPLED BY: J. PARKER/SS

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample</u>
	SAMPLE ID: MW-7D						
	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	12/5/2020	WATER

ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION
s.u. = STANDARD pH UNITS REPORTED AT 25 C

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FAX: 231-929-0894

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COMPANY: SUMMIT PETROLEUM

PROJECT NO:

LOCATION: ST. HELEN UNIT CTB

MI
SAMPLED BY: J. PARKER/SS

GTA PROJECT NO: 120420-6

GTA SAMPLE NO: 5

DATE SAMPLED: 12/3/2020

TIME SAMPLED: 11:27 AM

DATE RECEIVED: 12/4/2020

TIME RECEIVED: 12:20 PM

SAMPLE ANALYSIS**No: Analysis**

SAMPLE ID: MW-7S

CHLORIDE EPA 300.0

Concentration

ND

LOD

10

Units

mg/L (PPM)

Analyst

LV

Date Completed

12/5/2020

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:

LOCATION: ST. HELEN UNIT CTB

SAMPLED BY: MI
J. PARKER/SS

GTA PROJECT NO: 120420-6

GTA SAMPLE NO: 6

DATE SAMPLED: 12/3/2020

TIME SAMPLED: 11:42 AM

DATE RECEIVED: 12/4/2020

TIME RECEIVED: 12:20 PM

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: MW-8

CHLORIDE EPA 300.0

Concentration

ND

LOD

10

Units

mg/L (PPM)

Analyst

LV

Date Completed

12/5/2020

Sample

WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

**INDEPENDENT TESTING LAB**

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COMPANY: SUMMIT PETROLEUM

PROJECT NO:

LOCATION: ST. HELEN UNIT CTB

MI
SAMPLED BY: J. PARKER/SS

GTA PROJECT NO: 120420-6

GTA SAMPLE NO: 7

DATE SAMPLED: 12/3/2020

TIME SAMPLED: 12:06 PM

DATE RECEIVED: 12/4/2020

TIME RECEIVED: 12:20 PM

SAMPLE ANALYSIS**No: Analysis**

SAMPLE ID: MW-9

CHLORIDE EPA 300.0

Concentration

ND

LOD

10

Units

mg/L (PPM)

Analyst

LV

Date Completed

12/5/2020

Sample

WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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



INDEPENDENT TESTING LAB

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COMPANY: SUMMIT PETROLEUM

GTA PROJECT NO: 120420-6

PROJECT NO:

GTA SAMPLE NO: 8

LOCATION: ST. HELEN UNIT CTB

DATE SAMPLED: 12/3/2020

TIME SAMPLED: 11:54 AM

DATE RECEIVED: 12/4/2020

TIME RECEIVED: 12:20 PM

MI

SAMPLED BY: J. PARKER/SS

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: MW-10

CHLORIDE EPA 300.0

Concentration

ND

LOD

10

Units

mg/L (PPM)

Analyst

LV

Date Completed

12/5/2020

Sample

WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

INDEPENDENT TESTING LAB

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PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

CHAIN OF CUSTODY

PROJECT NUMBER	SITE NAME/ADDRESS	COMPANY/NAME
	St. Helen Unit CTB	Summit / Miller
SAMPLED BY	COMPANY	GTA PROJECT #
J Parker	Sampleserve	120420-6

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	MW - 2D	12-3-20	1305	GW	BTEX + and chlorides
2	MW - 5		1228		
3	MW - 6		1215		
4	MW - 7D		1113		
5	MW - 7S		1127		
6	MW - 8		1142		
7	MW - 9		1206		
8	MW - 10		1154		

BILL TO: Dan Nida

Summit / Miller Energy

REPORT TO:

Dnida@miller-energy.com

Rev 0.38 on line

RELEASED BY **DATE/TIME**

JP

1220

RECEIVED BY **DATE/TIME**

K. Miller

12/4/20 1220p

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