

**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

Company: BREITBURN OPERATING
Name:
ClientProj: 20-394
GTA ProjNo: 010621-2

Site Addr: A-Z

Sampled By: ROBERT WINTERER/OMPC
Date Rec: 1/6/2021
Time Rec: 2:45 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	SS-18 FINAL BASE	1/6/2021	11:00 AM	SOIL
2	SS-18 FINAL BASE - 2.5 FT	1/6/2021	11:30 AM	SOIL
3	SS-19 SIDEWALL	1/6/2021	12:30 PM	SOIL

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
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: BREITBURN OPERATING

PROJECT NO: 20-394

LOCATION: A-Z

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: SS-18 FINAL BASE

GTA PROJECT NO: 010621-2

GTA SAMPLE NO: 1

DATE SAMPLED: 1/6/2021

TIME SAMPLED: 11:00 AM

DATE RECEIVED: 1/6/2021

TIME RECEIVED: 2:45 PM

SAMPLED BY: ROBERT WINTERER/OMPC

**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

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	50	ug/Kg (PPB) MR		1/6/2021	1/7/2021	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.

ND = NOT DETECTED, RESULT < 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: BREITBURN OPERATING

PROJECT NO: 20-394

LOCATION: A-Z

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: SS-19 SIDEWALL

GTA PROJECT NO: 010621-2

GTA SAMPLE NO: 3

DATE SAMPLED: 1/6/2021

TIME SAMPLED: 12:30 PM

DATE RECEIVED: 1/6/2021

TIME RECEIVED: 2:45 PM

SAMPLED BY: ROBERT WINTERER/OMPC

**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

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	50	ug/Kg (PPB) MR		1/6/2021	1/7/2021	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.

ND = NOT DETECTED, RESULT < 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: BREITBURN OPERATING

PROJECT NO: 20-394

LOCATION: A-Z

GTA PROJECT NO: 010621-2

GTA SAMPLE NO: 1

DATE SAMPLED: 1/6/2021

TIME SAMPLED: 11:00 AM

DATE RECEIVED: 1/6/2021

TIME RECEIVED: 2:45 PM

SAMPLED BY: MI
ROBERT WINTERER/OMPC**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: SS-18 FINAL BASE CHLORIDE EPA 300.0	3,200	96	mg/Kg (PPM)	KC	1/7/2021	SOIL

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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



INDEPENDENT TESTING LAB

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

COMPANY: BREITBURN OPERATING

PROJECT NO: 20-394

LOCATION: A-Z

GTA PROJECT NO: 010621-2

GTA SAMPLE NO: 2

DATE SAMPLED: 1/6/2021

TIME SAMPLED: 11:30 AM

DATE RECEIVED: 1/6/2021

TIME RECEIVED: 2:45 PM

SAMPLED BY: MI
ROBERT WINTERER/OMPC

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: SS-18 FINAL BASE - 2.5 FT						
	CHLORIDE EPA 300.0	910	100	mg/Kg (PPM)	KC	1/7/2021	SOIL

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

COMPANY: BREITBURN OPERATING

PROJECT NO: 20-394

LOCATION: A-Z

GTA PROJECT NO: 010621-2

GTA SAMPLE NO: 3

DATE SAMPLED: 1/6/2021

TIME SAMPLED: 12:30 PM

DATE RECEIVED: 1/6/2021

TIME RECEIVED: 2:45 PM

MI

SAMPLED BY: ROBERT WINTERER/OMPC

SAMPLE ANALYSIS**No: Analysis**

SAMPLE ID: SS-19 SIDEWALL

CHLORIDE EPA 300.0

Concentration

2,400

LOD

97

Units

mg/Kg (PPM) KC

Analyst

KC

Date Completed

1/7/2021

Sample

SOIL

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

COMPANY: BREITBURN OPERATING

NAME:

PROJECT NO: 20-394

LOCATION: A-Z

MI

GTA PROJECT NO: 010621-

SAMPLED BY: ROBERT WINTERER/OMPC

DATE SAMPLED: 1/6/2021

TIME SAMPLED: 11:00 AM

SAMPLE MATRIX: SOIL

DATE RECEIVED: 1/6/2021

TIME RECEIVED: 2:45 PM

MOISTURE

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
	SAMPLE ID: SS-18 FINAL BASE					
	% MOISTURE EPA 3550C	3.7	0.050	% OF SAMPLE	AS	1/6/2021
	SAMPLE ID: SS-18 FINAL BASE - 2.5 FT					
	% MOISTURE EPA 3550C	3.2	0.050	% OF SAMPLE	AS	1/6/2021
	SAMPLE ID: SS-19 SIDEWALL					
	% MOISTURE EPA 3550C	3.3	0.050	% OF SAMPLE	AS	1/6/2021

CHAIN OF CUSTODY

PROJECT NUMBER 20-394	SITE NAME/ADDRESS A-2	COMPANY/NAME Breitburn
SAMPLED BY Robert Winterer	COMPANY OMPC	GTA PROJECT # 010621-2

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
	SS-18 final base	1/6/21	11:00	SOIL	BTEX, HIP, chlorides
	SS-18 final base - 2.5ft	↓	11:30	↓	chlorides
	SS-19 sidewall	↓	12:30	↓	BTEX, HIP, chlorides (standard)

BILL TO:

Breitburn

REPORT TO:

Breitburn / OMPC

RELEASED BY

DATE/TIME

[Signature]

1/6/21 14:45

RECEIVED BY

DATE/TIME

[Signature]

1/6/21 1445

REQUESTED TAT

☐ STANDARD



1 BUSINESS DAY

☐ 2 BUSINESS DAYS

☐ 3 BUSINESS DAYS