



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: 228907.073
GTA ProjNo: 011720-12

Site Addr: STATE BEAVER CREEK M#3

Sampled By: HOLLIS THOMAS/DARCY
Date Rec: 1/17/2020
Time Rec: 1:20 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-2	1/15/2020	1:00 PM	WATER
2	MW-4D	1/15/2020	12:45 PM	WATER
3	MW-5	1/15/2020	1:45 PM	WATER
4	MW-9	1/15/2020	1:30 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 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: 228907.073
LOCATION: STATE BEAVER CREEK M#3

GTA PROJECT NO: 011720-12
GTA SAMPLE NO: 1

DATE SAMPLED: 1/15/2020
TIME SAMPLED: 1:00 PM
DATE RECEIVED: 1/17/2020
TIME RECEIVED: 1:20 PM

MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-2

SAMPLED BY: HOLLIS THOMAS/DARCY

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	1.9	1.0	ug/L (PPB)	MR		1/18/2020	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	39	1.0					
Xylene(Total)	120	3.0					

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: 228907.073
LOCATION: STATE BEAVER CREEK M#3

GTA PROJECT NO: 011720-12
GTA SAMPLE NO: 2

DATE SAMPLED: 1/15/2020
TIME SAMPLED: 12:45 PM
DATE RECEIVED: 1/17/2020
TIME RECEIVED: 1:20 PM

MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-4D

SAMPLED BY: HOLLIS THOMAS/DARCY

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		1/18/2020	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

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: 228907.073
LOCATION: STATE BEAVER CREEK M#3

GTA PROJECT NO: 011720-12
GTA SAMPLE NO: 3

DATE SAMPLED: 1/15/2020
TIME SAMPLED: 1:45 PM
DATE RECEIVED: 1/17/2020
TIME RECEIVED: 1:20 PM

MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-5

SAMPLED BY: HOLLIS THOMAS/DARCY

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		1/18/2020	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

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: 228907.073
LOCATION: STATE BEAVER CREEK M#3

MI

SAMPLE MATRIX: WATER
SAMPLE ID: MW-9

GTA PROJECT NO: 011720-12
GTA SAMPLE NO: 4

DATE SAMPLED: 1/15/2020
TIME SAMPLED: 1:30 PM
DATE RECEIVED: 1/17/2020
TIME RECEIVED: 1:20 PM

SAMPLED BY: HOLLIS THOMAS/DARCY

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		1/18/2020	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	73	1.0					
Xylene(Total)	ND	3.0					

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: 228907.073
LOCATION: STATE BEAVER CREEK M#3

GTA PROJECT NO: 011720-12
GTA SAMPLE NO: 1

DATE SAMPLED: 1/15/2020
TIME SAMPLED: 1:00 PM

DATE RECEIVED: 1/17/2020
TIME RECEIVED: 1:20 PM

MI
SAMPLED BY: HOLLIS THOMAS/DARCY

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 Matrix</u>
	SAMPLE ID: MW-2						
	CHLORIDE EPA 300.0	18	10	mg/L (PPM)	LV	1/20/2020	WATER
	CONDUCTIVITY SM2510-B	920	1.0	uS/cm@25C	LV	1/20/2020	WATER

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

**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: 228907.073
LOCATION: STATE BEAVER CREEK M#3

GTA PROJECT NO: 011720-12
GTA SAMPLE NO: 2

DATE SAMPLED: 1/15/2020
TIME SAMPLED: 12:45 PM

DATE RECEIVED: 1/17/2020
TIME RECEIVED: 1:20 PM

MI
SAMPLED BY: HOLLIS THOMAS/DARCY

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 Matrix</u>
	SAMPLE ID: MW-4D						
	CHLORIDE EPA 300.0	360	10	mg/L (PPM)	LV	1/20/2020	WATER
	CONDUCTIVITY SM2510-B	1,200	1.0	uS/cm@25C	LV	1/20/2020	WATER

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

**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: 228907.073
LOCATION: STATE BEAVER CREEK M#3

GTA PROJECT NO: 011720-12
GTA SAMPLE NO: 3

DATE SAMPLED: 1/15/2020
TIME SAMPLED: 1:45 PM

DATE RECEIVED: 1/17/2020
TIME RECEIVED: 1:20 PM

MI
SAMPLED BY: HOLLIS THOMAS/DARCY

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 Matrix</u>
	SAMPLE ID: MW-5						
	CHLORIDE EPA 300.0	16	10	mg/L (PPM)	LV	1/20/2020	WATER
	CONDUCTIVITY SM2510-B	530	1.0	uS/cm@25C	LV	1/20/2020	WATER

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

**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: 228907.073
LOCATION: STATE BEAVER CREEK M#3

GTA PROJECT NO: 011720-12
GTA SAMPLE NO: 4

DATE SAMPLED: 1/15/2020
TIME SAMPLED: 1:30 PM

DATE RECEIVED: 1/17/2020
TIME RECEIVED: 1:20 PM

MI
SAMPLED BY: HOLLIS THOMAS/DARCY

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 Matrix</u>
	SAMPLE ID: MW-9						
	CHLORIDE EPA 300.0	17	10	mg/L (PPM)	LV	1/20/2020	WATER
	CONDUCTIVITY SM2510-B	560	1.0	uS/cm@25C	LV	1/20/2020	WATER

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

CHAIN OF CUSTODY

PROJECT NUMBER 228907.073	SITE NAME/ADDRESS STATE BEAVER CREEK M#3	COMPANY/NAME Breithorn Gm LP
SAMPLED BY gallis	COMPANY Davey	GTA PROJECT # 011720-12

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
	MW-2	1/15/20	1pm	GW	BTEX, CI ⁻ } SC
	MW-4d	↓	12:45pm	↓	↓ ↓ ↓
	MW-5	↓	1:45	↓	↓ ↓ ↓
	MW-9	↓	1:30	↓	↓ ↓ ↓

BILL TO:

BB

REPORT TO:

Davey
Rec 3.3K

RELEASED BY gallis W	DATE/TIME 1/17/2020 1:20pm	RECEIVED BY K. Allen	DATE/TIME 1/17/20 1:20p

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