

**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: 21A8158CF

GTA ProjNo: 022520-8

Site Addr: CATTLE ANTRIM WEBBER CREEK

Sampled By: HOLLIS THOMAS/DARCY

Date Rec: 2/25/2020

Time Rec: 11:12 AM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-1	2/22/2020	2:20 PM	WATER
2	MW-2	2/22/2020	2:30 PM	WATER
3	MW-3	2/22/2020	2:10 PM	WATER
4	MW-4	2/22/2020	1:05 PM	WATER
5	MW-5	2/22/2020		WATER
6	MW-100	2/22/2020	1:45 PM	WATER
7	MW-101	2/22/2020	1:18 PM	WATER
8	MW-102	2/22/2020		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
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COMPANY: BREITBURN OPERATING
PROJECT NO: 21A8158CF
LOCATION: CATTLE ANTRIM WEBBER CREEK
MI
SAMPLED BY: HOLLIS THOMAS/DARCY

GTA PROJECT NO: 022520-8
GTA SAMPLE NO: 1
DATE SAMPLED: 2/22/2020
TIME SAMPLED: 2:20 PM
DATE RECEIVED: 2/25/2020
TIME RECEIVED: 11:12 AM

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-1						
	CHLORIDE EPA 300.0	22	10	mg/L (PPM)	LV	2/27/2020	WATER
	CONDUCTIVITY SM2510-B	880	1.0	uS/cm@25C	LV	2/27/2020	WATER

ND = NOT DETECTED, RESULT < LOD
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PROJECT NO: 21A8158CF
LOCATION: CATTLE ANTRIM WEBBER CREEK

GTA PROJECT NO: 022520-8
GTA SAMPLE NO: 2

DATE SAMPLED: 2/22/2020
TIME SAMPLED: 2:30 PM

DATE RECEIVED: 2/25/2020
TIME RECEIVED: 11:12 AM

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	71	10	mg/L (PPM)	LV	2/27/2020	WATER
	CONDUCTIVITY SM2510-B	420	1.0	uS/cm@25C	LV	2/27/2020	WATER

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LOCATION: CATTLE ANTRIM WEBBER CREEK
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SAMPLED BY: HOLLIS THOMAS/DARCY

GTA PROJECT NO: 022520-8
GTA SAMPLE NO: 3
DATE SAMPLED: 2/22/2020
TIME SAMPLED: 2:10 PM
DATE RECEIVED: 2/25/2020
TIME RECEIVED: 11:12 AM

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-3						
	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	2/27/2020	WATER
	CONDUCTIVITY SM2510-B	110	1.0	uS/cm@25C	LV	2/27/2020	WATER

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LOCATION: CATTLE ANTRIM WEBBER CREEK
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SAMPLED BY: HOLLIS THOMAS/DARCY

GTA PROJECT NO: 022520-8
GTA SAMPLE NO: 4
DATE SAMPLED: 2/22/2020
TIME SAMPLED: 1:05 PM
DATE RECEIVED: 2/25/2020
TIME RECEIVED: 11:12 AM

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-4						
	CHLORIDE EPA 300.0	140	10	mg/L (PPM)	LV	2/27/2020	WATER
	CONDUCTIVITY SM2510-B	920	1.0	uS/cm@25C	LV	2/27/2020	WATER

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COMPANY: BREITBURN OPERATING
PROJECT NO: 21A8158CF
LOCATION: CATTLE ANTRIM WEBBER CREEK
MI
SAMPLED BY: HOLLIS THOMAS/DARCY

GTA PROJECT NO: 022520-8
GTA SAMPLE NO: 5
DATE SAMPLED: 2/22/2020
TIME SAMPLED:
DATE RECEIVED: 2/25/2020
TIME RECEIVED: 11:12 AM

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	ND	10	mg/L (PPM)	LV	2/27/2020	WATER
	CONDUCTIVITY SM2510-B	190	1.0	uS/cm@25C	LV	2/27/2020	WATER

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COMPANY: BREITBURN OPERATING
PROJECT NO: 21A8158CF
LOCATION: CATTLE ANTRIM WEBBER CREEK
MI
SAMPLED BY: HOLLIS THOMAS/DARCY

GTA PROJECT NO: 022520-8
GTA SAMPLE NO: 6
DATE SAMPLED: 2/22/2020
TIME SAMPLED: 1:45 PM
DATE RECEIVED: 2/25/2020
TIME RECEIVED: 11:12 AM

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-100						
	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	2/27/2020	WATER
	CONDUCTIVITY SM2510-B	260	1.0	uS/cm@25C	LV	2/27/2020	WATER

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LOCATION: CATTLE ANTRIM WEBBER CREEK
MI
SAMPLED BY: HOLLIS THOMAS/DARCY

GTA PROJECT NO: 022520-8
GTA SAMPLE NO: 7
DATE SAMPLED: 2/22/2020
TIME SAMPLED: 1:18 PM
DATE RECEIVED: 2/25/2020
TIME RECEIVED: 11:12 AM

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-101						
	CHLORIDE EPA 300.0	84	10	mg/L (PPM)	LV	2/27/2020	WATER
	CONDUCTIVITY SM2510-B	820	1.0	uS/cm@25C	LV	2/27/2020	WATER

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LOCATION: CATTLE ANTRIM WEBBER CREEK
MI
SAMPLED BY: HOLLIS THOMAS/DARCY

GTA PROJECT NO: 022520-8
GTA SAMPLE NO: 8
DATE SAMPLED: 2/22/2020
TIME SAMPLED:
DATE RECEIVED: 2/25/2020
TIME RECEIVED: 11:12 AM

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-102						
	CHLORIDE EPA 300.0	79	10	mg/L (PPM)	LV	2/27/2020	WATER
	CONDUCTIVITY SM2510-B	770	1.0	uS/cm@25C	LV	2/27/2020	WATER

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CHAIN OF CUSTODY

PROJECT NUMBER 21A8158 CF	SITE NAME/ADDRESS CATTLE ANTIM WEBBER CK Bruthorn Opn LP	COMPANY/NAME
SAMPLED BY gwt	COMPANY Darcy	GTA PROJECT # 022520-8

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	rw-1	2/22/20	2:20 pm	GW	CI 1/5 SC
2	rw-2	↓	2:30 pm	↓	↓
3	rw-3		2:10 pm		
4	rw-4		1:05 pm		
5	rw-5				
6	rw-100		1:45 pm		
7	rw-101		1:18 pm		
8	rw-102				

BILL TO:

BB

REPORT TO:

Darcy

RELEASED BY

DATE/TIME

RECEIVED BY

DATE/TIME

gwt **2/25/20 11:12am**

K. A. **2/25/20 11:12am**

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