



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: 20-032
GTA ProjNo: 072220-3

Site Addr: KAL 1-27

Sampled By: JOSE MEMBRILLO/OMPC
Date Rec: 7/22/2020
Time Rec: 8:15 AM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-1	7/21/2020	3:30 PM	WATER
2	MW-1D	7/21/2020	3:45 PM	WATER
3	MW-2	7/21/2020	4:00 PM	WATER
4	MW-3	7/21/2020	4:30 PM	WATER
5	MW-4	7/21/2020	5:00 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
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COMPANY: BREITBURN OPERATING
PROJECT NO: 20-032
LOCATION: KAL 1-27

GTA PROJECT NO: 072220-3
GTA SAMPLE NO: 1
DATE SAMPLED: 7/21/2020
TIME SAMPLED: 3:30 PM
DATE RECEIVED: 7/22/2020
TIME RECEIVED: 8:15 AM

MI
SAMPLED BY: JOSE MEMBRILLO/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 Matrix</u>
	SAMPLE ID: MW-1						
	CHLORIDE EPA 300.0	2,700	500	mg/L (PPM)	LV	7/27/2020	WATER
	CONDUCTIVITY SM2510-B	9,100	1.0	uS/cm@25C	LV	7/27/2020	WATER

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

COMPANY: BREITBURN OPERATING
 PROJECT NO: 20-032
 LOCATION: KAL 1-27
 MI
 SAMPLED BY: JOSE MEMBRILLO/OMPC

GTA PROJECT NO: 072220-3
 GTA SAMPLE NO: 2
 DATE SAMPLED: 7/21/2020
 TIME SAMPLED: 3:45 PM
 DATE RECEIVED: 7/22/2020
 TIME RECEIVED: 8:15 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-1D						
	CHLORIDE EPA 300.0	15	10	mg/L (PPM)	LV	7/27/2020	WATER
	CONDUCTIVITY SM2510-B	350	1.0	uS/cm@25C	LV	7/27/2020	WATER

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COMPANY: BREITBURN OPERATING
PROJECT NO: 20-032
LOCATION: KAL 1-27

GTA PROJECT NO: 072220-3
GTA SAMPLE NO: 3
DATE SAMPLED: 7/21/2020
TIME SAMPLED: 4:00 PM
DATE RECEIVED: 7/22/2020
TIME RECEIVED: 8:15 AM

MI
SAMPLED BY: JOSE MEMBRILLO/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 Matrix</u>
	SAMPLE ID: MW-2						
	CHLORIDE EPA 300.0	1,600	100	mg/L (PPM)	LV	7/27/2020	WATER
	CONDUCTIVITY SM2510-B	5,300	1.0	uS/cm@25C	LV	7/27/2020	WATER

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COMPANY: BREITBURN OPERATING
PROJECT NO: 20-032
LOCATION: KAL 1-27

GTA PROJECT NO: 072220-3
GTA SAMPLE NO: 4
DATE SAMPLED: 7/21/2020
TIME SAMPLED: 4:30 PM
DATE RECEIVED: 7/22/2020
TIME RECEIVED: 8:15 AM

MI
SAMPLED BY: JOSE MEMBRILLO/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 Matrix</u>
	SAMPLE ID: MW-3						
	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	7/27/2020	WATER
	CONDUCTIVITY SM2510-B	300	1.0	uS/cm@25C	LV	7/27/2020	WATER

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COMPANY: BREITBURN OPERATING
PROJECT NO: 20-032
LOCATION: KAL 1-27

GTA PROJECT NO: 072220-3
GTA SAMPLE NO: 5
DATE SAMPLED: 7/21/2020
TIME SAMPLED: 5:00 PM
DATE RECEIVED: 7/22/2020
TIME RECEIVED: 8:15 AM

MI
SAMPLED BY: JOSE MEMBRILLO/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 Matrix</u>
	SAMPLE ID: MW-4						
	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	7/27/2020	WATER
	CONDUCTIVITY SM2510-B	260	1.0	uS/cm@25C	LV	7/27/2020	WATER

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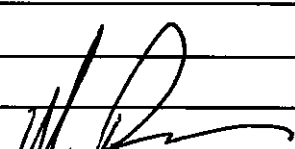
CHAIN OF CUSTODY

PROJECT NUMBER 20-032	SITE NAME/ADDRESS BB/Kal 1-27	COMPANY/NAME Brietburn
SAMPLED BY Joni Membrillo	COMPANY Otwell Mawby	GTA PROJECT # 070220-3

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
	MW-1	7/21/20	3:30	Water	Chlorides, Conductivity
	MW-1D	↓	3:45	↓	↓
	MW-2	↓	4:00	↓	↓
	MW-3	↓	4:30	↓	↓
	MW-4	↓	5:00	↓	↓

BILL TO: Brietburn	REPORT TO: Otwell Mawby
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RELEASED BY Joni Membrillo	DATE/TIME 7/22/20 8:13	RECEIVED BY 	DATE/TIME 7-22-20 8:15A
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REQUESTED TAT STANDARD 1 BUSINESS DAY 2 BUSINESS DAYS 3 BUSINESS DAYS