

**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: 16-196
GTA ProjNo: 061820-4

Site Addr: BEAVER CREEK E-1

Sampled By: JOSE MEMBRILLO/OMPC
Date Rec: 6/18/2020
Time Rec: 8:40 AM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-1	6/17/2020	12:30 PM	WATER
2	MW-3	6/17/2020	12:50 PM	WATER
3	MW-4	6/17/2020	1:20 PM	WATER
4	MW-5	6/17/2020	1:40 PM	WATER
5	MW-7	6/17/2020	2:00 PM	WATER
6	MW-8	6/17/2020	2:20 PM	WATER
7	MW-9	6/17/2020	2:40 PM	WATER
8	MW-10	6/17/2020	3:00 PM	WATER
9	MW-11	6/17/2020	3:20 PM	WATER
10	MW-13	6/17/2020	3:35 PM	WATER
11	MW-14	6/17/2020	3:40 PM	WATER
12	MW-15	6/17/2020	3:50 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
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COMPANY: BREITBURN OPERATING

PROJECT NO: 16-196

LOCATION: BEAVER CREEK E-1

GTA PROJECT NO: 061820-4

GTA SAMPLE NO: 1

DATE SAMPLED: 6/17/2020

TIME SAMPLED: 12:30 PM

DATE RECEIVED: 6/18/2020

TIME RECEIVED: 8:40 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	30	10	mg/L (PPM)	LV	6/19/2020	WATER
	CONDUCTIVITY SM2510-B	360	1.0	uS/cm@25C	LV	6/19/2020	WATER

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COMPANY: BREITBURN OPERATING

PROJECT NO: 16-196

LOCATION: BEAVER CREEK E-1

GTA PROJECT NO: 061820-4

GTA SAMPLE NO: 2

DATE SAMPLED: 6/17/2020

TIME SAMPLED: 12:50 PM

DATE RECEIVED: 6/18/2020

TIME RECEIVED: 8:40 AM

MI

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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	6/19/2020	WATER
	CONDUCTIVITY SM2510-B	370	1.0	uS/cm@25C	LV	6/19/2020	WATER

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PROJECT NO: 16-196

LOCATION: BEAVER CREEK E-1

GTA PROJECT NO: 061820-4

GTA SAMPLE NO: 3

DATE SAMPLED: 6/17/2020

TIME SAMPLED: 1:20 PM

DATE RECEIVED: 6/18/2020

TIME RECEIVED: 8:40 AM

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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	6/19/2020	WATER
	CONDUCTIVITY SM2510-B	250	1.0	uS/cm@25C	LV	6/19/2020	WATER

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COMPANY: BREITBURN OPERATING

PROJECT NO: 16-196

LOCATION: BEAVER CREEK E-1

GTA PROJECT NO: 061820-4

GTA SAMPLE NO: 4

DATE SAMPLED: 6/17/2020

TIME SAMPLED: 1:40 PM

DATE RECEIVED: 6/18/2020

TIME RECEIVED: 8:40 AM

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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	330	10	mg/L (PPM)	LV	6/19/2020	WATER
	CONDUCTIVITY SM2510-B	1,300	1.0	uS/cm@25C	LV	6/19/2020	WATER

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GTA PROJECT NO: 061820-4

PROJECT NO: 16-196

GTA SAMPLE NO: 5

LOCATION: BEAVER CREEK E-1

DATE SAMPLED: 6/17/2020

TIME SAMPLED: 2:00 PM

DATE RECEIVED: 6/18/2020

TIME RECEIVED: 8:40 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-7						
	CHLORIDE EPA 300.0	63	10	mg/L (PPM)	LV	6/19/2020	WATER
	CONDUCTIVITY SM2510-B	580	1.0	uS/cm@25C	LV	6/19/2020	WATER

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PROJECT NO: 16-196

LOCATION: BEAVER CREEK E-1

GTA PROJECT NO: 061820-4

GTA SAMPLE NO: 6

DATE SAMPLED: 6/17/2020

TIME SAMPLED: 2:20 PM

DATE RECEIVED: 6/18/2020

TIME RECEIVED: 8:40 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-8						
	CHLORIDE EPA 300.0	100	10	mg/L (PPM)	LV	6/19/2020	WATER
	CONDUCTIVITY SM2510-B	600	1.0	uS/cm@25C	LV	6/19/2020	WATER

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PROJECT NO: 16-196

LOCATION: BEAVER CREEK E-1

GTA PROJECT NO: 061820-4

GTA SAMPLE NO: 7

DATE SAMPLED: 6/17/2020

TIME SAMPLED: 2:40 PM

DATE RECEIVED: 6/18/2020

TIME RECEIVED: 8:40 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-9						
	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	6/19/2020	WATER
	CONDUCTIVITY SM2510-B	120	1.0	uS/cm@25C	LV	6/19/2020	WATER

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PROJECT NO: 16-196

LOCATION: BEAVER CREEK E-1

GTA PROJECT NO: 061820-4

GTA SAMPLE NO: 8

DATE SAMPLED: 6/17/2020

TIME SAMPLED: 3:00 PM

DATE RECEIVED: 6/18/2020

TIME RECEIVED: 8:40 AM

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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-10						
	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	6/19/2020	WATER
	CONDUCTIVITY SM2510-B	230	1.0	uS/cm@25C	LV	6/19/2020	WATER

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PROJECT NO: 16-196

LOCATION: BEAVER CREEK E-1

GTA PROJECT NO: 061820-4

GTA SAMPLE NO: 9

DATE SAMPLED: 6/17/2020

TIME SAMPLED: 3:20 PM

DATE RECEIVED: 6/18/2020

TIME RECEIVED: 8:40 AM

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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-11						
	CHLORIDE EPA 300.0	110	10	mg/L (PPM)	LV	6/19/2020	WATER
	CONDUCTIVITY SM2510-B	730	1.0	uS/cm@25C	LV	6/19/2020	WATER

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PROJECT NO: 16-196

LOCATION: BEAVER CREEK E-1

GTA PROJECT NO: 061820-4

GTA SAMPLE NO: 10

DATE SAMPLED: 6/17/2020

TIME SAMPLED: 3:35 PM

DATE RECEIVED: 6/18/2020

TIME RECEIVED: 8:40 AM

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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-13						
	CHLORIDE EPA 300.0	170	10	mg/L (PPM)	LV	6/19/2020	WATER
	CONDUCTIVITY SM2510-B	1,000	1.0	uS/cm@25C	LV	6/19/2020	WATER

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PROJECT NO: 16-196

LOCATION: BEAVER CREEK E-1

GTA PROJECT NO: 061820-4

GTA SAMPLE NO: 11

DATE SAMPLED: 6/17/2020

TIME SAMPLED: 3:40 PM

DATE RECEIVED: 6/18/2020

TIME RECEIVED: 8:40 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-14						
	CHLORIDE EPA 300.0	22	10	mg/L (PPM)	LV	6/19/2020	WATER
	CONDUCTIVITY SM2510-B	410	1.0	uS/cm@25C	LV	6/19/2020	WATER

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PROJECT NO: 16-196

LOCATION: BEAVER CREEK E-1

GTA PROJECT NO: 061820-4

GTA SAMPLE NO: 12

DATE SAMPLED: 6/17/2020

TIME SAMPLED: 3:50 PM

DATE RECEIVED: 6/18/2020

TIME RECEIVED: 8:40 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-15						
	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	6/19/2020	WATER
	CONDUCTIVITY SM2510-B	170	1.0	uS/cm@25C	LV	6/19/2020	WATER

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CHAIN OF CUSTODY

PROJECT NUMBER 16-196	SITE NAME/ADDRESS Beaver Creek E-1	COMPANY/NAME Breitburn
SAMPLED BY José Membrillo	COMPANY Otwell Mawby	GTA PROJECT # 061820-4

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	MW - 1	6/17/20	12:30	Water	Chloride, Conductivity
2	MW - 3	↓	12:50	↓	↓
3	MW - 4		1:20		
4	MW - 5		1:40		
5	MW - 7		2:00		
6	MW - 8		2:20		
7	MW - 9		2:40		
8	MW - 10		3:00		
9	MW - 11		3:20		
10	MW - 13		3:35		
11	MW - 14		3:40		
12	MW - 15		3:50		

BILL TO:

Breitburn

REPORT TO:

Otwell Mawby

RELEASED BY José Membrillo	DATE/TIME 6/18/20	RECEIVED BY R. Chu	DATE/TIME 6/18/20 8:40am

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