



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: 00-038
GTA ProjNo: 082321-1

Site Addr: DYAR 1-1
Sampled By: WPM/OMPC
Date Rec: 8/23/2021
Time Rec: 1:51 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	OW-2	8/20/2021		WATER
2	OW-7	8/20/2021		WATER
3	OW-8	8/20/2021		WATER
4	OW-9	8/20/2021		WATER
5	OW-10	8/20/2021		WATER
6	OW-11	8/20/2021		WATER
7	OW-12	8/20/2021		WATER
8	OW-14	8/20/2021		WATER
9	OW-15	8/20/2021		WATER
10	OW-16	8/20/2021		WATER
11	OW-18	8/20/2021		WATER
12	OW-19	8/20/2021		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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Fx: 231-929-0894
SP: 231-590-0291
kirk@gtanalytical.com

COMPANY: BREITBURN OPERATING
 PROJECT NO: 00-038
 LOCATION: DYAR 1-1

GTA PROJECT NO: 082321-1
 GTA SAMPLE NO: 1
 DATE SAMPLED: 8/20/2021
 TIME SAMPLED:
 DATE RECEIVED: 8/23/2021
 TIME RECEIVED: 1:51 PM

SAMPLED BY: MI
 WPM/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: OW-2						
	CHLORIDE EPA 300.0	28	10	mg/L (PPM)	LV	8/27/2021	WATER
	CONDUCTIVITY SM2510-B	910	1.0	uS/cm@25C	LV	8/27/2021	WATER

ND = NOT DETECTED, RESULT < LOD
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COMPANY: BREITBURN OPERATING
PROJECT NO: 00-038
LOCATION: DYAR 1-1

GTA PROJECT NO: 082321-1
GTA SAMPLE NO: 2
DATE SAMPLED: 8/20/2021
TIME SAMPLED:
DATE RECEIVED: 8/23/2021
TIME RECEIVED: 1:51 PM

SAMPLED BY: MI
WPM/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: OW-7						
	CHLORIDE EPA 300.0	30	10	mg/L (PPM)	LV	8/27/2021	WATER
	CONDUCTIVITY SM2510-B	980	1.0	uS/cm@25C	LV	8/27/2021	WATER

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COMPANY: BREITBURN OPERATING
PROJECT NO: 00-038
LOCATION: DYAR 1-1

GTA PROJECT NO: 082321-1
GTA SAMPLE NO: 3
DATE SAMPLED: 8/20/2021
TIME SAMPLED:
DATE RECEIVED: 8/23/2021
TIME RECEIVED: 1:51 PM

SAMPLED BY: 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: OW-8						
	CHLORIDE EPA 300.0	220	10	mg/L (PPM)	LV	8/27/2021	WATER
	CONDUCTIVITY SM2510-B	1,300	1.0	uS/cm@25C	LV	8/27/2021	WATER

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COMPANY: BREITBURN OPERATING
PROJECT NO: 00-038
LOCATION: DYAR 1-1

GTA PROJECT NO: 082321-1
GTA SAMPLE NO: 4
DATE SAMPLED: 8/20/2021
TIME SAMPLED:
DATE RECEIVED: 8/23/2021
TIME RECEIVED: 1:51 PM

SAMPLED BY: MI
WPM/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: OW-9						
	CHLORIDE EPA 300.0	20	10	mg/L (PPM)	LV	8/27/2021	WATER
	CONDUCTIVITY SM2510-B	640	1.0	uS/cm@25C	LV	8/27/2021	WATER

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COMPANY: BREITBURN OPERATING
PROJECT NO: 00-038
LOCATION: DYAR 1-1

GTA PROJECT NO: 082321-1
GTA SAMPLE NO: 5
DATE SAMPLED: 8/20/2021
TIME SAMPLED:
DATE RECEIVED: 8/23/2021
TIME RECEIVED: 1:51 PM

SAMPLED BY: MI
WPM/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: OW-10						
	CHLORIDE EPA 300.0	35	10	mg/L (PPM)	LV	8/27/2021	WATER
	CONDUCTIVITY SM2510-B	880	1.0	uS/cm@25C	LV	8/27/2021	WATER

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COMPANY: BREITBURN OPERATING
PROJECT NO: 00-038
LOCATION: DYAR 1-1

GTA PROJECT NO: 082321-1
GTA SAMPLE NO: 6
DATE SAMPLED: 8/20/2021
TIME SAMPLED:
DATE RECEIVED: 8/23/2021
TIME RECEIVED: 1:51 PM

SAMPLED BY: MI
WPM/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: OW-11						
	CHLORIDE EPA 300.0	220	10	mg/L (PPM)	LV	8/27/2021	WATER
	CONDUCTIVITY SM2510-B	1,500	1.0	uS/cm@25C	LV	8/27/2021	WATER

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COMPANY: BREITBURN OPERATING
PROJECT NO: 00-038
LOCATION: DYAR 1-1

GTA PROJECT NO: 082321-1
GTA SAMPLE NO: 7
DATE SAMPLED: 8/20/2021
TIME SAMPLED:
DATE RECEIVED: 8/23/2021
TIME RECEIVED: 1:51 PM

SAMPLED BY: MI
WPM/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: OW-12						
	CHLORIDE EPA 300.0	14	10	mg/L (PPM)	LV	8/27/2021	WATER
	CONDUCTIVITY SM2510-B	640	1.0	uS/cm@25C	LV	8/27/2021	WATER

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COMPANY: BREITBURN OPERATING
PROJECT NO: 00-038
LOCATION: DYAR 1-1

GTA PROJECT NO: 082321-1
GTA SAMPLE NO: 8
DATE SAMPLED: 8/20/2021
TIME SAMPLED:
DATE RECEIVED: 8/23/2021
TIME RECEIVED: 1:51 PM

SAMPLED BY: MI
WPM/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: OW-14						
	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	8/27/2021	WATER
	CONDUCTIVITY SM2510-B	500	1.0	uS/cm@25C	LV	8/27/2021	WATER

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COMPANY: BREITBURN OPERATING
PROJECT NO: 00-038
LOCATION: DYAR 1-1

GTA PROJECT NO: 082321-1
GTA SAMPLE NO: 9
DATE SAMPLED: 8/20/2021
TIME SAMPLED:
DATE RECEIVED: 8/23/2021
TIME RECEIVED: 1:51 PM

SAMPLED BY: MI
WPM/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: OW-15						
CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	8/27/2021	WATER
CONDUCTIVITY SM2510-B	580	1.0	uS/cm@25C	LV	8/27/2021	WATER

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COMPANY: BREITBURN OPERATING
PROJECT NO: 00-038
LOCATION: DYAR 1-1

GTA PROJECT NO: 082321-1
GTA SAMPLE NO: 10
DATE SAMPLED: 8/20/2021
TIME SAMPLED:
DATE RECEIVED: 8/23/2021
TIME RECEIVED: 1:51 PM

SAMPLED BY: MI
WPM/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: OW-16						
	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	8/27/2021	WATER
	CONDUCTIVITY SM2510-B	450	1.0	uS/cm@25C	LV	8/27/2021	WATER

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COMPANY: BREITBURN OPERATING
PROJECT NO: 00-038
LOCATION: DYAR 1-1

GTA PROJECT NO: 082321-1
GTA SAMPLE NO: 11
DATE SAMPLED: 8/20/2021
TIME SAMPLED:
DATE RECEIVED: 8/23/2021
TIME RECEIVED: 1:51 PM

SAMPLED BY: MI
WPM/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: OW-18						
	CHLORIDE EPA 300.0	110	10	mg/L (PPM)	LV	8/27/2021	WATER
	CONDUCTIVITY SM2510-B	840	1.0	uS/cm@25C	LV	8/27/2021	WATER

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COMPANY: BREITBURN OPERATING
PROJECT NO: 00-038
LOCATION: DYAR 1-1

GTA PROJECT NO: 082321-1
GTA SAMPLE NO: 12
DATE SAMPLED: 8/20/2021
TIME SAMPLED:
DATE RECEIVED: 8/23/2021
TIME RECEIVED: 1:51 PM

SAMPLED BY: MI
WPM/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: OW-19						
	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	8/27/2021	WATER
	CONDUCTIVITY SM2510-B	400	1.0	uS/cm@25C	LV	8/27/2021	WATER

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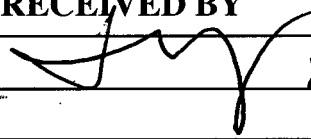
CHAIN OF CUSTODY

PROJECT NUMBER 00-038	SITE NAME/ADDRESS Pyr 1-1	COMPANY/NAME Breitburn
SAMPLED BY WPM	COMPANY Otwell Mawby	GTA PROJECT # 082321-1

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	OW-2	8-20-21		H ₂ O	Chlorides + Conductivity
2	OW-7	↓	↓	↓	↓
3	OW-8				
4	OW-9				
5	OW-10				
6	OW-11				
7	OW-12				
8	OW-14				
9	OW-15				
10	OW-16				
11	OW-18				
12	OW-19				

BILL TO: Breitburn	TempRec: <input type="checkbox"/>	On Ice? <input type="checkbox"/> <input type="checkbox"/>	REPORT TO: OMPC
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RELEASED BY 	DATE/TIME 8/23/21	RECEIVED BY 	DATE/TIME 8/23/21 1:51
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REQUESTED TAT STANDARD 1 BUSINESS DAY 2 BUSINESS DAYS 3 BUSINESS DAYS