



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: 021920-7

Site Addr: DYAR 1-1

Sampled By: ROB WINTERER/OMPC
Date Rec: 2/19/2020
Time Rec: 4:30 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	OW-2	2/19/2020		WATER
2	OW-7	2/19/2020		WATER
3	OW-8	2/19/2020		WATER
4	OW-9	2/19/2020		WATER
5	OW-10	2/19/2020		WATER
6	OW-11	2/19/2020		WATER
7	OW-12	2/19/2020		WATER
8	OW-14	2/19/2020		WATER
9	OW-15	2/19/2020		WATER
10	OW-16	2/19/2020		WATER
11	OW-18	2/19/2020		WATER
12	OW-19	2/19/2020		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: 00-038
LOCATION: DYAR 1-1

GTA PROJECT NO: 021920-7
GTA SAMPLE NO: 1
DATE SAMPLED: 2/19/2020
TIME SAMPLED:
DATE RECEIVED: 2/19/2020
TIME RECEIVED: 4:30 PM

SAMPLED BY: MI
ROB WINTERER/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	30	10	mg/L (PPM)	LV	2/20/2020	WATER
	CONDUCTIVITY SM2510-B	920	1.0	uS/cm@25C	LV	2/20/2020	WATER

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

GTA PROJECT NO: 021920-7
GTA SAMPLE NO: 2
DATE SAMPLED: 2/19/2020
TIME SAMPLED:
DATE RECEIVED: 2/19/2020
TIME RECEIVED: 4:30 PM

SAMPLED BY: MI
ROB WINTERER/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	54	10	mg/L (PPM)	LV	2/20/2020	WATER
	CONDUCTIVITY SM2510-B	690	1.0	uS/cm@25C	LV	2/20/2020	WATER

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

GTA PROJECT NO: 021920-7
GTA SAMPLE NO: 3
DATE SAMPLED: 2/19/2020
TIME SAMPLED:
DATE RECEIVED: 2/19/2020
TIME RECEIVED: 4:30 PM

SAMPLED BY: MI
ROB WINTERER/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-8						
	CHLORIDE EPA 300.0	46	10	mg/L (PPM)	LV	2/20/2020	WATER
	CONDUCTIVITY SM2510-B	890	1.0	uS/cm@25C	LV	2/20/2020	WATER

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

GTA PROJECT NO: 021920-7
 GTA SAMPLE NO: 4
 DATE SAMPLED: 2/19/2020
 TIME SAMPLED:
 DATE RECEIVED: 2/19/2020
 TIME RECEIVED: 4:30 PM

SAMPLED BY: MI
 ROB WINTERER/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	ND	10	mg/L (PPM)	LV	2/20/2020	WATER
	CONDUCTIVITY SM2510-B	470	1.0	uS/cm@25C	LV	2/20/2020	WATER

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

GTA PROJECT NO: 021920-7
GTA SAMPLE NO: 5
DATE SAMPLED: 2/19/2020
TIME SAMPLED:
DATE RECEIVED: 2/19/2020
TIME RECEIVED: 4:30 PM

SAMPLED BY: MI
ROB WINTERER/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	36	10	mg/L (PPM)	LV	2/20/2020	WATER
	CONDUCTIVITY SM2510-B	870	1.0	uS/cm@25C	LV	2/20/2020	WATER

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

GTA PROJECT NO: 021920-7
GTA SAMPLE NO: 6
DATE SAMPLED: 2/19/2020
TIME SAMPLED:
DATE RECEIVED: 2/19/2020
TIME RECEIVED: 4:30 PM

SAMPLED BY: MI
ROB WINTERER/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	260	10	mg/L (PPM)	LV	2/20/2020	WATER
	CONDUCTIVITY SM2510-B	1,500	1.0	uS/cm@25C	LV	2/20/2020	WATER

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

GTA PROJECT NO: 021920-7
GTA SAMPLE NO: 7
DATE SAMPLED: 2/19/2020
TIME SAMPLED:
DATE RECEIVED: 2/19/2020
TIME RECEIVED: 4:30 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-12						
	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	2/20/2020	WATER
	CONDUCTIVITY SM2510-B	560	1.0	uS/cm@25C	LV	2/20/2020	WATER

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

GTA PROJECT NO: 021920-7
GTA SAMPLE NO: 8
DATE SAMPLED: 2/19/2020
TIME SAMPLED:
DATE RECEIVED: 2/19/2020
TIME RECEIVED: 4:30 PM

SAMPLED BY: MI
ROB WINTERER/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	2/20/2020	WATER
	CONDUCTIVITY SM2510-B	460	1.0	uS/cm@25C	LV	2/20/2020	WATER

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

GTA PROJECT NO: 021920-7
GTA SAMPLE NO: 9
DATE SAMPLED: 2/19/2020
TIME SAMPLED:
DATE RECEIVED: 2/19/2020
TIME RECEIVED: 4:30 PM

SAMPLED BY: MI
ROB WINTERER/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	2/20/2020	WATER
	CONDUCTIVITY SM2510-B	610	1.0	uS/cm@25C	LV	2/20/2020	WATER

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

GTA PROJECT NO: 021920-7
GTA SAMPLE NO: 10
DATE SAMPLED: 2/19/2020
TIME SAMPLED:
DATE RECEIVED: 2/19/2020
TIME RECEIVED: 4:30 PM

SAMPLED BY: MI
ROB WINTERER/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	2/20/2020	WATER
	CONDUCTIVITY SM2510-B	470	1.0	uS/cm@25C	LV	2/20/2020	WATER

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

GTA PROJECT NO: 021920-7
GTA SAMPLE NO: 11
DATE SAMPLED: 2/19/2020
TIME SAMPLED:
DATE RECEIVED: 2/19/2020
TIME RECEIVED: 4:30 PM

SAMPLED BY: MI
ROB WINTERER/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	220	10	mg/L (PPM)	LV	2/20/2020	WATER
	CONDUCTIVITY SM2510-B	1,300	1.0	uS/cm@25C	LV	2/20/2020	WATER

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

GTA PROJECT NO: 021920-7
GTA SAMPLE NO: 12
DATE SAMPLED: 2/19/2020
TIME SAMPLED:
DATE RECEIVED: 2/19/2020
TIME RECEIVED: 4:30 PM

SAMPLED BY: MI
ROB WINTERER/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	23	10	mg/L (PPM)	LV	2/20/2020	WATER
	CONDUCTIVITY SM2510-B	620	1.0	uS/cm@25C	LV	2/20/2020	WATER

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CHAIN OF CUSTODY

PROJECT NUMBER 00-038	SITE NAME/ADDRESS Dyar 1-1	COMPANY/NAME Breitburn
SAMPLED BY Rob Winterer	COMPANY OMPC	GTA PROJECT # 021920-7

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	OW-2	2/19/20	PM	Water	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

REPORT TO:

Breitburn

RELEASED BY Robert Altshuler	DATE/TIME 2/19/20 4:30PM	RECEIVED BY [Signature]	DATE/TIME 2/19/20 4:30
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REQUESTED TAT STANDARD 1 BUSINESS DAY 2 BUSINESS DAYS 3 BUSINESS DAYS