



**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

[www.gtanalytical.com](http://www.gtanalytical.com)

Company: BREITBURN OPERATING  
Name:  
ClientProj: 00-038  
GTA ProjNo: 051421-2

Site Addr: DYAR 1-1

Sampled By: SEAN CLARK/OMPC  
Date Rec: 5/14/2021  
Time Rec: 9:20 AM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	OW-2	5/13/2021	1:17 PM	WATER
2	OW-7	5/13/2021	3:04 PM	WATER
3	OW-8	5/13/2021	2:45 PM	WATER
4	OW-9	5/13/2021	2:13 PM	WATER
5	OW-10	5/13/2021	2:02 PM	WATER
6	OW-12	5/13/2021	2:30 PM	WATER
7	OW-14	5/13/2021	3:21 PM	WATER
8	OW-15	5/13/2021	1:46 PM	WATER
9	OW-16	5/13/2021	1:30 PM	WATER
10	OW-19	5/13/2021	3:30 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: 00-038  
LOCATION: DYAR 1-1

GTA PROJECT NO: 051421-2  
GTA SAMPLE NO: 1  
DATE SAMPLED: 5/13/2021  
TIME SAMPLED: 1:17 PM  
DATE RECEIVED: 5/14/2021  
TIME RECEIVED: 9:20 AM

MI  
SAMPLED BY: SEAN CLARK/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	14	10	mg/L (PPM)	LV	5/14/2021	WATER
	CONDUCTIVITY SM2510-B	880	1.0	uS/cm@25C	LV	5/14/2021	WATER

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



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

GTA PROJECT NO: 051421-2  
GTA SAMPLE NO: 2  
DATE SAMPLED: 5/13/2021  
TIME SAMPLED: 3:04 PM  
DATE RECEIVED: 5/14/2021  
TIME RECEIVED: 9:20 AM

MI  
SAMPLED BY: SEAN CLARK/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	33	10	mg/L (PPM)	LV	5/14/2021	WATER
	CONDUCTIVITY SM2510-B	750	1.0	uS/cm@25C	LV	5/14/2021	WATER

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

GTA PROJECT NO: 051421-2  
GTA SAMPLE NO: 3  
DATE SAMPLED: 5/13/2021  
TIME SAMPLED: 2:45 PM  
DATE RECEIVED: 5/14/2021  
TIME RECEIVED: 9:20 AM

MI  
SAMPLED BY: SEAN CLARK/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	180	10	mg/L (PPM)	LV	5/14/2021	WATER
	CONDUCTIVITY SM2510-B	1,300	1.0	uS/cm@25C	LV	5/14/2021	WATER

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PROJECT NO: 00-038  
LOCATION: DYAR 1-1  
MI  
SAMPLED BY: SEAN CLARK/OMPC

GTA PROJECT NO: 051421-2  
GTA SAMPLE NO: 4  
DATE SAMPLED: 5/13/2021  
TIME SAMPLED: 2:13 PM  
DATE RECEIVED: 5/14/2021  
TIME RECEIVED: 9:20 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: OW-9						
	CHLORIDE EPA 300.0	47	10	mg/L (PPM)	LV	5/14/2021	WATER
	CONDUCTIVITY SM2510-B	620	1.0	uS/cm@25C	LV	5/14/2021	WATER

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

GTA PROJECT NO: 051421-2  
GTA SAMPLE NO: 5  
DATE SAMPLED: 5/13/2021  
TIME SAMPLED: 2:02 PM  
DATE RECEIVED: 5/14/2021  
TIME RECEIVED: 9:20 AM

MI  
SAMPLED BY: SEAN CLARK/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	31	10	mg/L (PPM)	LV	5/14/2021	WATER
	CONDUCTIVITY SM2510-B	880	1.0	uS/cm@25C	LV	5/14/2021	WATER

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

GTA PROJECT NO: 051421-2  
GTA SAMPLE NO: 6  
DATE SAMPLED: 5/13/2021  
TIME SAMPLED: 2:30 PM  
DATE RECEIVED: 5/14/2021  
TIME RECEIVED: 9:20 AM

MI  
SAMPLED BY: SEAN CLARK/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	11	10	mg/L (PPM)	LV	5/14/2021	WATER
CONDUCTIVITY SM2510-B	600	1.0	uS/cm@25C	LV	5/14/2021	WATER

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COMPANY: BREITBURN OPERATING  
PROJECT NO: 00-038  
LOCATION: DYAR 1-1  
MI  
SAMPLED BY: SEAN CLARK/OMPC

GTA PROJECT NO: 051421-2  
GTA SAMPLE NO: 7  
DATE SAMPLED: 5/13/2021  
TIME SAMPLED: 3:21 PM  
DATE RECEIVED: 5/14/2021  
TIME RECEIVED: 9:20 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: OW-14						
	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	5/14/2021	WATER
	CONDUCTIVITY SM2510-B	450	1.0	uS/cm@25C	LV	5/14/2021	WATER

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

GTA PROJECT NO: 051421-2  
 GTA SAMPLE NO: 8  
 DATE SAMPLED: 5/13/2021  
 TIME SAMPLED: 1:46 PM  
 DATE RECEIVED: 5/14/2021  
 TIME RECEIVED: 9:20 AM

MI  
 SAMPLED BY: SEAN CLARK/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	5/14/2021	WATER
	CONDUCTIVITY SM2510-B	570	1.0	uS/cm@25C	LV	5/14/2021	WATER

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COMPANY: BREITBURN OPERATING  
PROJECT NO: 00-038  
LOCATION: DYAR 1-1  
MI  
SAMPLED BY: SEAN CLARK/OMPC

GTA PROJECT NO: 051421-2  
GTA SAMPLE NO: 9  
DATE SAMPLED: 5/13/2021  
TIME SAMPLED: 1:30 PM  
DATE RECEIVED: 5/14/2021  
TIME RECEIVED: 9:20 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: OW-16						
	CHLORIDE EPA 300.0	12	10	mg/L (PPM)	LV	5/14/2021	WATER
	CONDUCTIVITY SM2510-B	510	1.0	uS/cm@25C	LV	5/14/2021	WATER

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COMPANY: BREITBURN OPERATING  
PROJECT NO: 00-038  
LOCATION: DYAR 1-1  
MI  
SAMPLED BY: SEAN CLARK/OMPC

GTA PROJECT NO: 051421-2  
GTA SAMPLE NO: 10  
DATE SAMPLED: 5/13/2021  
TIME SAMPLED: 3:30 PM  
DATE RECEIVED: 5/14/2021  
TIME RECEIVED: 9:20 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: OW-19						
	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	5/14/2021	WATER
	CONDUCTIVITY SM2510-B	410	1.0	uS/cm@25C	LV	5/14/2021	WATER

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**CHAIN OF CUSTODY**

PROJECT NUMBER <b>00-038</b>	SITE NAME/ADDRESS <b>Dyar 1-1</b>	COMPANY/NAME <del>BreitBurn</del> <b>BreitBurn</b>
SAMPLED BY <b>Sean Clark</b>	COMPANY <b>Otwell Mawby</b>	GTA PROJECT # <b>051421-2</b>

**SAMPLE INFORMATION**

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS		
1	OW-2	5/13/2021	1:17	H2O	Chloride + Conductivity		
2	OW-7	↓	3:04	↓	↓		
3	OW-8		2:45				
4	OW-9		2:13				
5	OW-10		2:02				
6	OW-12		2:30				
7	OW-14		3:21				
8	OW-15		1:46				
9	OW-16		1:30				
10	OW-19		3:30			H2O	Chloride + Conductivity

<b>BILL TO:</b> <b>BreitBurn</b>	<b>REPORT TO:</b> <b>Otwell Mawby</b>
-------------------------------------	--

<b>RELEASED BY</b> <i>[Signature]</i>	<b>DATE/TIME</b> <b>5/14/21 @</b>	<b>RECEIVED BY</b> <i>[Signature]</i>	<b>DATE/TIME</b> <b>5-14-21 9:20a</b>

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