



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: 06-133
GTA ProjNo: 041521-2

Site Addr: LOGAN C1-22

Sampled By: SEAN CLARK/OMPC
Date Rec: 4/15/2021
Time Rec: 9:55 AM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-1S	4/13/2021	11:00 AM	WATER
2	MW-1D	4/13/2021	12:21 PM	WATER
3	MW-1DD	4/13/2021	11:55 AM	WATER
4	MW-2	4/13/2021	11:17 AM	WATER
5	MW-3	4/13/2021	11:33 AM	WATER
6	GP-11	4/13/2021	12:43 PM	WATER
7	GP-12	4/13/2021	1:23 PM	WATER
8	GP-13	4/13/2021	1:07 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
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COMPANY: BREITBURN OPERATING
PROJECT NO: 06-133
LOCATION: LOGAN C1-22

GTA PROJECT NO: 041521-2
GTA SAMPLE NO: 1

DATE SAMPLED: 4/13/2021
TIME SAMPLED: 11:00 AM
DATE RECEIVED: 4/15/2021
TIME RECEIVED: 9:55 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</u>
SAMPLE ID: MW-1S							
CHLORIDE EPA 300.0		600	50	mg/L (PPM)	TR	4/22/2021	WATER

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

COMPANY: BREITBURN OPERATING
PROJECT NO: 06-133
LOCATION: LOGAN C1-22
MI
SAMPLED BY: SEAN CLARK/OMPC

GTA PROJECT NO: 041521-2
GTA SAMPLE NO: 2
DATE SAMPLED: 4/13/2021
TIME SAMPLED: 12:21 PM
DATE RECEIVED: 4/15/2021
TIME RECEIVED: 9:55 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</u>
SAMPLE ID: MW-1D	CHLORIDE EPA 300.0	1,000	50	mg/L (PPM)	TR	4/22/2021	WATER

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

COMPANY: BREITBURN OPERATING
 PROJECT NO: 06-133
 LOCATION: LOGAN C1-22
 MI
 SAMPLED BY: SEAN CLARK/OMPC

GTA PROJECT NO: 041521-2
 GTA SAMPLE NO: 3
 DATE SAMPLED: 4/13/2021
 TIME SAMPLED: 11:55 AM
 DATE RECEIVED: 4/15/2021
 TIME RECEIVED: 9:55 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</u>
	SAMPLE ID: MW-1DD CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	TR	4/22/2021	WATER

ND = NOT DETECTED, RESULT < LOD
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 s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: BREITBURN OPERATING
 PROJECT NO: 06-133
 LOCATION: LOGAN C1-22
 MI
 SAMPLED BY: SEAN CLARK/OMPC

GTA PROJECT NO: 041521-2
 GTA SAMPLE NO: 4
 DATE SAMPLED: 4/13/2021
 TIME SAMPLED: 11:17 AM
 DATE RECEIVED: 4/15/2021
 TIME RECEIVED: 9:55 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</u>
SAMPLE ID: MW-2	CHLORIDE EPA 300.0	370	10	mg/L (PPM)	TR	4/22/2021	WATER

ND = NOT DETECTED, RESULT < LOD
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COMPANY: BREITBURN OPERATING
 PROJECT NO: 06-133
 LOCATION: LOGAN C1-22
 MI
 SAMPLED BY: SEAN CLARK/OMPC

GTA PROJECT NO: 041521-2
 GTA SAMPLE NO: 5
 DATE SAMPLED: 4/13/2021
 TIME SAMPLED: 11:33 AM
 DATE RECEIVED: 4/15/2021
 TIME RECEIVED: 9:55 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</u>
SAMPLE ID: MW-3	CHLORIDE EPA 300.0	15	10	mg/L (PPM)	TR	4/22/2021	WATER

ND = NOT DETECTED, RESULT < LOD
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 s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: BREITBURN OPERATING
PROJECT NO: 06-133
LOCATION: LOGAN C1-22
MI
SAMPLED BY: SEAN CLARK/OMPC

GTA PROJECT NO: 041521-2
GTA SAMPLE NO: 6
DATE SAMPLED: 4/13/2021
TIME SAMPLED: 12:43 PM
DATE RECEIVED: 4/15/2021
TIME RECEIVED: 9:55 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</u>
SAMPLE ID: GP-11	CHLORIDE EPA 300.0	130	10	mg/L (PPM)	TR	4/22/2021	WATER

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COMPANY: BREITBURN OPERATING
 PROJECT NO: 06-133
 LOCATION: LOGAN C1-22
 MI
 SAMPLED BY: SEAN CLARK/OMPC

GTA PROJECT NO: 041521-2
 GTA SAMPLE NO: 7
 DATE SAMPLED: 4/13/2021
 TIME SAMPLED: 1:23 PM
 DATE RECEIVED: 4/15/2021
 TIME RECEIVED: 9:55 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</u>
SAMPLE ID: GP-12	CHLORIDE EPA 300.0	140	10	mg/L (PPM)	TR	4/22/2021	WATER

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

COMPANY: BREITBURN OPERATING
 PROJECT NO: 06-133
 LOCATION: LOGAN C1-22

GTA PROJECT NO: 041521-2
 GTA SAMPLE NO: 8

DATE SAMPLED: 4/13/2021
 TIME SAMPLED: 1:07 PM
 DATE RECEIVED: 4/15/2021
 TIME RECEIVED: 9:55 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</u>
SAMPLE ID: GP-13	CHLORIDE EPA 300.0	130	10	mg/L (PPM)	TR	4/22/2021	WATER

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

CHAIN OF CUSTODY

PROJECT NUMBER <i>06-136</i>	SITE NAME/ADDRESS <i>Pausit 1-26</i>	COMPANY/NAME <i>BreitBurn</i>
SAMPLED BY <i>Sean Clark</i>	COMPANY <i>Otwell Mawby</i>	GTA PROJECT # <i>041521-3</i>

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	MW-3	4/12/2021		H ₂ O	Chloride
2	MW-4	↓	↓	↓	↓
3	MW-5				
4	MW-7				
5	MW-8				
6	MW-9				
7	MW-10				
8	MW-10D				
9	MW-11				
10	MW-14				

BILL TO:

REPORT TO:

RELEASED BY

DATE/TIME

RECEIVED BY

DATE/TIME

[Signature]

4/15/21 @ 9:54am

[Signature]

4-15-21 9:55A

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