



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: 20-136
GTA ProjNo: 083120-2

Site Addr: CATTLE ANTRIM

Sampled By: M. SCOTT/OMPC
Date Rec: 8/31/2020
Time Rec: 9:00 AM

| Sample No. | Sample ID | Date Sampled | Time Sampled | Sample Matrix |
|------------|-----------|--------------|--------------|---------------|
| 1 | MW-1 | 8/28/2020 | | WATER |
| 2 | MW-2 | 8/28/2020 | | WATER |
| 3 | MW-3 | 8/28/2020 | | WATER |
| 4 | MW-4 | 8/28/2020 | | WATER |
| 5 | MW-5 | 8/28/2020 | | WATER |
| 6 | MW-100 | 8/28/2020 | | WATER |
| 7 | MW-101 | 8/28/2020 | | WATER |
| 8 | MW-102 | 8/28/2020 | | WATER |
| 9 | MW-103 | 8/28/2020 | | 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
Grand Traverse Analytical
830 Robinwood Court
Traverse City, MI 49686
Ph: 231-929-0905
Fx: 231-929-0894
SP: 231-590-0291
kirk@gtanalytical.com



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COMPANY: BREITBURN OPERATING
PROJECT NO: 20-136
LOCATION: CATTLE ANTRIM

GTA PROJECT NO: 083120-2
GTA SAMPLE NO: 1
DATE SAMPLED: 8/28/2020
TIME SAMPLED:
DATE RECEIVED: 8/31/2020
TIME RECEIVED: 9:00 AM

SAMPLED BY: MI
M. SCOTT/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 | 18 | 10 | mg/L (PPM) | LV | 8/31/2020 | WATER |
| | CONDUCTIVITY SM2510-B | 870 | 1.0 | uS/cm@25C | LV | 8/31/2020 | WATER |

ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION
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DISS = DISSOLVED



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COMPANY: BREITBURN OPERATING
PROJECT NO: 20-136
LOCATION: CATTLE ANTRIM

GTA PROJECT NO: 083120-2
GTA SAMPLE NO: 2
DATE SAMPLED: 8/28/2020
TIME SAMPLED:
DATE RECEIVED: 8/31/2020
TIME RECEIVED: 9:00 AM

SAMPLED BY: MI
M. SCOTT/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-2 | | | | | | |
| | CHLORIDE EPA 300.0 | 70 | 10 | mg/L (PPM) | LV | 8/31/2020 | WATER |
| | CONDUCTIVITY SM2510-B | 520 | 1.0 | uS/cm@25C | LV | 8/31/2020 | WATER |

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COMPANY: BREITBURN OPERATING
PROJECT NO: 20-136
LOCATION: CATTLE ANTRIM

GTA PROJECT NO: 083120-2
GTA SAMPLE NO: 3
DATE SAMPLED: 8/28/2020
TIME SAMPLED:
DATE RECEIVED: 8/31/2020
TIME RECEIVED: 9:00 AM

SAMPLED BY: MI
M. SCOTT/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-3 | | | | | | |
| | CHLORIDE EPA 300.0 | ND | 10 | mg/L (PPM) | LV | 8/31/2020 | WATER |
| | CONDUCTIVITY SM2510-B | 140 | 1.0 | uS/cm@25C | LV | 8/31/2020 | WATER |

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COMPANY: BREITBURN OPERATING
PROJECT NO: 20-136
LOCATION: CATTLE ANTRIM
MI
SAMPLED BY: M. SCOTT/OMPC

GTA PROJECT NO: 083120-2
GTA SAMPLE NO: 4
DATE SAMPLED: 8/28/2020
TIME SAMPLED:
DATE RECEIVED: 8/31/2020
TIME RECEIVED: 9:00 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: MW-4 | | | | | | |
| | CHLORIDE EPA 300.0 | 340 | 10 | mg/L (PPM) | LV | 8/31/2020 | WATER |
| | CONDUCTIVITY SM2510-B | 1,600 | 1.0 | uS/cm@25C | LV | 8/31/2020 | WATER |

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COMPANY: BREITBURN OPERATING
 PROJECT NO: 20-136
 LOCATION: CATTLE ANTRIM

GTA PROJECT NO: 083120-2
 GTA SAMPLE NO: 5
 DATE SAMPLED: 8/28/2020
 TIME SAMPLED:
 DATE RECEIVED: 8/31/2020
 TIME RECEIVED: 9:00 AM

SAMPLED BY: MI
 M. SCOTT/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-5 | | | | | | |
| | CHLORIDE EPA 300.0 | ND | 10 | mg/L (PPM) | LV | 8/31/2020 | WATER |
| | CONDUCTIVITY SM2510-B | 240 | 1.0 | uS/cm@25C | LV | 8/31/2020 | WATER |

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COMPANY: BREITBURN OPERATING
PROJECT NO: 20-136
LOCATION: CATTLE ANTRIM
MI
SAMPLED BY: M. SCOTT/OMPC

GTA PROJECT NO: 083120-2
GTA SAMPLE NO: 6
DATE SAMPLED: 8/28/2020
TIME SAMPLED:
DATE RECEIVED: 8/31/2020
TIME RECEIVED: 9:00 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: MW-100 | | | | | | |
| | CHLORIDE EPA 300.0 | 13 | 10 | mg/L (PPM) | LV | 8/31/2020 | WATER |
| | CONDUCTIVITY SM2510-B | 340 | 1.0 | uS/cm@25C | LV | 8/31/2020 | WATER |

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COMPANY: BREITBURN OPERATING
PROJECT NO: 20-136
LOCATION: CATTLE ANTRIM

GTA PROJECT NO: 083120-2
GTA SAMPLE NO: 7
DATE SAMPLED: 8/28/2020
TIME SAMPLED:
DATE RECEIVED: 8/31/2020
TIME RECEIVED: 9:00 AM

SAMPLED BY: MI
M. SCOTT/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-101 | | | | | | |
| | CHLORIDE EPA 300.0 | 45 | 10 | mg/L (PPM) | LV | 8/31/2020 | WATER |
| | CONDUCTIVITY SM2510-B | 590 | 1.0 | uS/cm@25C | LV | 8/31/2020 | WATER |

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COMPANY: BREITBURN OPERATING
PROJECT NO: 20-136
LOCATION: CATTLE ANTRIM

GTA PROJECT NO: 083120-2
GTA SAMPLE NO: 8
DATE SAMPLED: 8/28/2020
TIME SAMPLED:
DATE RECEIVED: 8/31/2020
TIME RECEIVED: 9:00 AM

SAMPLED BY: MI
M. SCOTT/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-102 | | | | | | |
| | CHLORIDE EPA 300.0 | 93 | 10 | mg/L (PPM) | LV | 8/31/2020 | WATER |
| | CONDUCTIVITY SM2510-B | 870 | 1.0 | uS/cm@25C | LV | 8/31/2020 | WATER |

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COMPANY: BREITBURN OPERATING
PROJECT NO: 20-136
LOCATION: CATTLE ANTRIM

GTA PROJECT NO: 083120-2
GTA SAMPLE NO: 9
DATE SAMPLED: 8/28/2020
TIME SAMPLED:
DATE RECEIVED: 8/31/2020
TIME RECEIVED: 9:00 AM

SAMPLED BY: MI
M. SCOTT/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-103 | | | | | | |
| | CHLORIDE EPA 300.0 | 130 | 10 | mg/L (PPM) | LV | 8/31/2020 | WATER |
| | CONDUCTIVITY SM2510-B | 1,000 | 1.0 | uS/cm@25C | LV | 8/31/2020 | WATER |

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