



**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

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

Company: BREITBURN OPERATING  
Name:  
ClientProj: 06-133  
GTA ProjNo: 110719-11

Site Addr: LOGAN C1-22

Sampled By: MATT SCOTT/OMPC  
Date Rec: 11/7/2019  
Time Rec: 4:00 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-15	11/6/2019		WATER
2	MW-1DD	11/6/2019		WATER
3	MW-2	11/6/2019		WATER
4	MW-3	11/6/2019		WATER
5	GP-11	11/6/2019		WATER
6	GP-12	11/6/2019		WATER
7	GP-13	11/6/2019		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 L Chase*

Kirk L. Chase/Chemist  
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[kirk@gtanalytical.com](mailto:kirk@gtanalytical.com)

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

GTA PROJECT NO: 110719-11  
GTA SAMPLE NO: 1  
DATE SAMPLED: 11/6/2019  
TIME SAMPLED:  
DATE RECEIVED: 11/7/2019  
TIME RECEIVED: 4:00 PM

**SAMPLE ANALYSIS**

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u>	<u>Sample</u>
SAMPLE ID: MW-15	CHLORIDE EPA 300.0	760	50	mg/L (PPM)	LV	11/15/2019	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: MATT SCOTT/OMPC

GTA PROJECT NO: 110719-11  
GTA SAMPLE NO: 2  
DATE SAMPLED: 11/6/2019  
TIME SAMPLED:  
DATE RECEIVED: 11/7/2019  
TIME RECEIVED: 4:00 PM

**SAMPLE ANALYSIS**

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u>	<u>Sample</u>
SAMPLE ID: MW-1DD	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	11/15/2019	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: MATT SCOTT/OMPC

GTA PROJECT NO: 110719-11  
GTA SAMPLE NO: 3  
DATE SAMPLED: 11/6/2019  
TIME SAMPLED:  
DATE RECEIVED: 11/7/2019  
TIME RECEIVED: 4:00 PM

**SAMPLE ANALYSIS**

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u>	<u>Sample</u>
SAMPLE ID: MW-2	CHLORIDE EPA 300.0	420	10	mg/L (PPM)	LV	11/15/2019	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: MATT SCOTT/OMPC

GTA PROJECT NO: 110719-11  
 GTA SAMPLE NO: 4  
 DATE SAMPLED: 11/6/2019  
 TIME SAMPLED:  
 DATE RECEIVED: 11/7/2019  
 TIME RECEIVED: 4:00 PM

**SAMPLE ANALYSIS**

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u>	<u>Sample</u>
SAMPLE ID: MW-3	CHLORIDE EPA 300.0	23	10	mg/L (PPM)	LV	11/15/2019	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: 110719-11  
 GTA SAMPLE NO: 5  
 DATE SAMPLED: 11/6/2019  
 TIME SAMPLED:  
 DATE RECEIVED: 11/7/2019  
 TIME RECEIVED: 4:00 PM

MI  
 SAMPLED BY: MATT SCOTT/OMPC

**SAMPLE ANALYSIS**

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u>	<u>Sample</u>
SAMPLE ID: GP-11	CHLORIDE EPA 300.0	220	10	mg/L (PPM)	LV	11/15/2019	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: 110719-11  
 GTA SAMPLE NO: 6  
 DATE SAMPLED: 11/6/2019  
 TIME SAMPLED:  
 DATE RECEIVED: 11/7/2019  
 TIME RECEIVED: 4:00 PM

SAMPLED BY: MI  
 MATT SCOTT/OMPC

**SAMPLE ANALYSIS**

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u>	<u>Sample</u>
SAMPLE ID: GP-12	CHLORIDE EPA 300.0	130	10	mg/L (PPM)	LV	11/15/2019	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: MATT SCOTT/OMPC

GTA PROJECT NO: 110719-11  
 GTA SAMPLE NO: 7  
 DATE SAMPLED: 11/6/2019  
 TIME SAMPLED:  
 DATE RECEIVED: 11/7/2019  
 TIME RECEIVED: 4:00 PM

**SAMPLE ANALYSIS**

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u>	<u>Sample</u>
SAMPLE ID: GP-13	CHLORIDE EPA 300.0	160	10	mg/L (PPM)	LV	11/15/2019	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>06-133</i>	SITE NAME/ADDRESS <i>logan rd - 22</i>	COMPANY/NAME
SAMPLED BY <i>[Signature]</i>	COMPANY <i>OMPC</i>	GTA PROJECT # <i>110719-11</i>

**SAMPLE INFORMATION**

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	<i>MW-15</i>	<i>11-6-19</i>		<i>water</i>	<i>Chlorides</i>
2	<i>MW-120</i>	↓		↓	↓
3	<i>MW-2</i>				
4	<i>MW-3</i>				
5	<i>GP-11</i>				
6	<i>GP-12</i>				
7	<i>GP-13</i>	↓		↓	↓

BILL TO: *BB*

REPORT TO: *OMPC*

RELEASED BY <i>[Signature]</i>	DATE/TIME <i>11-7-19 9:00pm</i>	RECEIVED BY <i>[Signature]</i>	DATE/TIME <i>11/7/19 400</i>
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REQUESTED TAT  STANDARD  1 BUSINESS DAY  2 BUSINESS DAYS  3 BUSINESS DAYS