



**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: 20-338  
GTA ProjNo: 101220-4

Site Addr: IMPROV. C4-31

Sampled By: SEAN CLARK/OMPC  
Date Rec: 10/12/2020  
Time Rec: 12:48 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	HA-1 @ 6"	10/12/2020	10:40 AM	SOIL
2	HA-1 @ 2'	10/12/2020	10:40 AM	SOIL
3	HA-1 @ 4'	10/12/2020	10:40 AM	SOIL
4	HA-2 @ 6"	10/12/2020	10:50 AM	SOIL
5	HA-2 @ 2'	10/12/2020	10:50 AM	SOIL

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  
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[kirk@gtanalytical.com](mailto:kirk@gtanalytical.com)

COMPANY: BREITBURN OPERATING  
 PROJECT NO: 20-338  
 LOCATION: IMPROV. C4-31

GTA PROJECT NO: 101220-4  
 GTA SAMPLE NO: 1  
 DATE SAMPLED: 10/12/2020  
 TIME SAMPLED: 10:40 AM  
 DATE RECEIVED: 10/12/2020  
 TIME RECEIVED: 12:48 PM

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: HA-1 @ 6" CHLORIDE EPA 300.0	430	100	mg/Kg (PPM)	LV	10/13/2020	SOIL

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

COMPANY: BREITBURN OPERATING  
 PROJECT NO: 20-338  
 LOCATION: IMPROV. C4-31

GTA PROJECT NO: 101220-4  
 GTA SAMPLE NO: 2  
 DATE SAMPLED: 10/12/2020  
 TIME SAMPLED: 10:40 AM  
 DATE RECEIVED: 10/12/2020  
 TIME RECEIVED: 12:48 PM

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: HA-1 @ 2' CHLORIDE EPA 300.0	1,100	110	mg/Kg (PPM)	LV	10/13/2020	SOIL

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

COMPANY: BREITBURN OPERATING  
 PROJECT NO: 20-338  
 LOCATION: IMPROV. C4-31

GTA PROJECT NO: 101220-4  
 GTA SAMPLE NO: 3  
 DATE SAMPLED: 10/12/2020  
 TIME SAMPLED: 10:40 AM  
 DATE RECEIVED: 10/12/2020  
 TIME RECEIVED: 12:48 PM

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: HA-1 @ 4' CHLORIDE EPA 300.0	900	100	mg/Kg (PPM)	LV	10/13/2020	SOIL

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

COMPANY: BREITBURN OPERATING  
PROJECT NO: 20-338  
LOCATION: IMPROV. C4-31  
MI  
SAMPLED BY: SEAN CLARK/OMPC

GTA PROJECT NO: 101220-4  
GTA SAMPLE NO: 4  
DATE SAMPLED: 10/12/2020  
TIME SAMPLED: 10:50 AM  
DATE RECEIVED: 10/12/2020  
TIME RECEIVED: 12:48 PM

**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: HA-2 @ 6" CHLORIDE EPA 300.0	ND	110	mg/Kg (PPM)	LV	10/13/2020	SOIL

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

COMPANY: BREITBURN OPERATING  
 PROJECT NO: 20-338  
 LOCATION: IMPROV. C4-31  
 MI  
 SAMPLED BY: SEAN CLARK/OMPC

GTA PROJECT NO: 101220-4  
 GTA SAMPLE NO: 5  
 DATE SAMPLED: 10/12/2020  
 TIME SAMPLED: 10:50 AM  
 DATE RECEIVED: 10/12/2020  
 TIME RECEIVED: 12:48 PM

**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: HA-2 @ 2' CHLORIDE EPA 300.0	ND	110	mg/Kg (PPM)	LV	10/13/2020	SOIL

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



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COMPANY: BREITBURN OPERATING

NAME:  
PROJECT NO: 20-338

LOCATION: IMPROV. C4-31

MI

GTA PROJECT NO: 101220-  
SAMPLED BY: SEAN CLARK/OMPC

DATE SAMPLED: 10/12/2020  
TIME SAMPLED: 10:40 AM

SAMPLE MATRIX: SOIL

DATE RECEIVED: 10/12/2020  
TIME RECEIVED: 12:48 PM

**MOISTURE**

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
	SAMPLE ID: HA-1 @ 6" % MOISTURE EPA 3550C	6.5	0.050	% OF SAMPLE	AS	10/12/2020
	SAMPLE ID: HA-1 @ 2' % MOISTURE EPA 3550C	8.2	0.050	% OF SAMPLE	AS	10/12/2020
	SAMPLE ID: HA-1 @ 4' % MOISTURE EPA 3550C	6.4	0.050	% OF SAMPLE	AS	10/12/2020
	SAMPLE ID: HA-2 @ 6" % MOISTURE EPA 3550C	10	0.050	% OF SAMPLE	AS	10/12/2020
	SAMPLE ID: HA-2 @ 2' % MOISTURE EPA 3550C	9.3	0.050	% OF SAMPLE	AS	10/12/2020

