



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: 21-083
GTA ProjNo: 040921-4

Site Addr: SUN STATE GARFIELD A-6

Sampled By: DAN BARTON/OMPC
Date Rec: 4/9/2021
Time Rec: 4:00 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	SS-19	4/9/2021	10:47 AM	SOIL
2	SS-20	4/9/2021	11:07 AM	SOIL
3	SS-21	4/9/2021	11:20 AM	SOIL
4	SS-22	4/9/2021	11:57 AM	SOIL
5	SS-23	4/9/2021	12:06 PM	SOIL
6	SS-24	4/9/2021	12:21 PM	SOIL
7	SS-25	4/9/2021	1:08 PM	SOIL
8	SS-26	4/9/2021	1:41 PM	SOIL
9	SS-27	4/9/2021	1:57 PM	SOIL
10	SS-28	4/9/2021	2:15 PM	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
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COMPANY: BREITBURN OPERATING
PROJECT NO: 21-083
LOCATION: SUN STATE GARFIELD A-6

GTA PROJECT NO: 040921-4
GTA SAMPLE NO: 1

DATE SAMPLED: 4/9/2021
TIME SAMPLED: 10:47 AM
DATE RECEIVED: 4/9/2021
TIME RECEIVED: 4:00 PM

MI
SAMPLED BY: DAN BARTON/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: SS-19							
CHLORIDE EPA 300.0		780	100	mg/Kg (PPM)	TR/AS	4/10/2021	SOIL

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

COMPANY: BREITBURN OPERATING
 PROJECT NO: 21-083
 LOCATION: SUN STATE GARFIELD A-6

GTA PROJECT NO: 040921-4
 GTA SAMPLE NO: 2

DATE SAMPLED: 4/9/2021
 TIME SAMPLED: 11:07 AM
 DATE RECEIVED: 4/9/2021
 TIME RECEIVED: 4:00 PM

MI
 SAMPLED BY: DAN BARTON/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: SS-20 CHLORIDE EPA 300.0	3,200	99	mg/Kg (PPM)	TR/AS	4/10/2021	SOIL

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

COMPANY: BREITBURN OPERATING
 PROJECT NO: 21-083
 LOCATION: SUN STATE GARFIELD A-6

GTA PROJECT NO: 040921-4
 GTA SAMPLE NO: 3

DATE SAMPLED: 4/9/2021
 TIME SAMPLED: 11:20 AM
 DATE RECEIVED: 4/9/2021
 TIME RECEIVED: 4:00 PM

MI
 SAMPLED BY: DAN BARTON/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: SS-21	CHLORIDE EPA 300.0	2,800	90	mg/Kg (PPM)	TR/AS	4/10/2021	SOIL

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

COMPANY: BREITBURN OPERATING
 PROJECT NO: 21-083
 LOCATION: SUN STATE GARFIELD A-6

GTA PROJECT NO: 040921-4
 GTA SAMPLE NO: 4

DATE SAMPLED: 4/9/2021
 TIME SAMPLED: 11:57 AM
 DATE RECEIVED: 4/9/2021
 TIME RECEIVED: 4:00 PM

MI
 SAMPLED BY: DAN BARTON/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: SS-22 CHLORIDE EPA 300.0	2,400	91	mg/Kg (PPM)	TR/AS	4/10/2021	SOIL

ND = NOT DETECTED, RESULT < LOD
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COMPANY: BREITBURN OPERATING
 PROJECT NO: 21-083
 LOCATION: SUN STATE GARFIELD A-6

GTA PROJECT NO: 040921-4
 GTA SAMPLE NO: 5

DATE SAMPLED: 4/9/2021
 TIME SAMPLED: 12:06 PM
 DATE RECEIVED: 4/9/2021
 TIME RECEIVED: 4:00 PM

MI
 SAMPLED BY: DAN BARTON/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: SS-23	CHLORIDE EPA 300.0	ND	95	mg/Kg (PPM)	TR/AS	4/10/2021	SOIL

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

COMPANY: BREITBURN OPERATING
 PROJECT NO: 21-083
 LOCATION: SUN STATE GARFIELD A-6

GTA PROJECT NO: 040921-4
 GTA SAMPLE NO: 6

DATE SAMPLED: 4/9/2021
 TIME SAMPLED: 12:21 PM
 DATE RECEIVED: 4/9/2021
 TIME RECEIVED: 4:00 PM

MI
 SAMPLED BY: DAN BARTON/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: SS-24 CHLORIDE EPA 300.0	1,400	96	mg/Kg (PPM)	TR/AS	4/10/2021	SOIL

ND = NOT DETECTED, RESULT < LOD
 LOD = LIMIT OF DETECTION
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COMPANY: BREITBURN OPERATING
 PROJECT NO: 21-083
 LOCATION: SUN STATE GARFIELD A-6

GTA PROJECT NO: 040921-4
 GTA SAMPLE NO: 7

DATE SAMPLED: 4/9/2021
 TIME SAMPLED: 1:08 PM
 DATE RECEIVED: 4/9/2021
 TIME RECEIVED: 4:00 PM

MI
 SAMPLED BY: DAN BARTON/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: SS-25	CHLORIDE EPA 300.0	3,500	100	mg/Kg (PPM)	TR/AS	4/10/2021	SOIL

ND = NOT DETECTED, RESULT < LOD
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COMPANY: BREITBURN OPERATING
 PROJECT NO: 21-083
 LOCATION: SUN STATE GARFIELD A-6

GTA PROJECT NO: 040921-4
 GTA SAMPLE NO: 8

DATE SAMPLED: 4/9/2021
 TIME SAMPLED: 1:41 PM
 DATE RECEIVED: 4/9/2021
 TIME RECEIVED: 4:00 PM

MI
 SAMPLED BY: DAN BARTON/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: SS-26	CHLORIDE EPA 300.0	2,200	93	mg/Kg (PPM)	TR/AS	4/10/2021	SOIL

ND = NOT DETECTED, RESULT < LOD
 LOD = LIMIT OF DETECTION
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COMPANY: BREITBURN OPERATING
 PROJECT NO: 21-083
 LOCATION: SUN STATE GARFIELD A-6

GTA PROJECT NO: 040921-4
 GTA SAMPLE NO: 9

DATE SAMPLED: 4/9/2021
 TIME SAMPLED: 1:57 PM
 DATE RECEIVED: 4/9/2021
 TIME RECEIVED: 4:00 PM

MI
 SAMPLED BY: DAN BARTON/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: SS-27	CHLORIDE EPA 300.0	330	100	mg/Kg (PPM)	TR/AS	4/10/2021	SOIL

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

COMPANY: BREITBURN OPERATING
 PROJECT NO: 21-083
 LOCATION: SUN STATE GARFIELD A-6

GTA PROJECT NO: 040921-4
 GTA SAMPLE NO: 10
 DATE SAMPLED: 4/9/2021
 TIME SAMPLED: 2:15 PM
 DATE RECEIVED: 4/9/2021
 TIME RECEIVED: 4:00 PM

MI
 SAMPLED BY: DAN BARTON/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: SS-28	CHLORIDE EPA 300.0	ND	95	mg/Kg (PPM)	TR/AS	4/10/2021	SOIL

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COMPANY: BREITBURN OPERATING

NAME:
PROJECT NO: 21-083

LOCATION: SUN STATE GARFIELD A-6

MI

GTA PROJECT NO: 040921-
SAMPLED BY: DAN BARTON/OMPC

DATE SAMPLED: 4/9/2021
TIME SAMPLED: 10:47 AM
SAMPLE MATRIX: SOIL

DATE RECEIVED: 4/9/2021
TIME RECEIVED: 4:00 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: SS-19 % MOISTURE EPA 3550C	11	0.050	% OF SAMPLE	AS	4/9/2021
SAMPLE ID: SS-20 % MOISTURE EPA 3550C	5.0	0.050	% OF SAMPLE	AS	4/9/2021
SAMPLE ID: SS-21 % MOISTURE EPA 3550C	4.9	0.050	% OF SAMPLE	AS	4/9/2021
SAMPLE ID: SS-22 % MOISTURE EPA 3550C	2.9	0.050	% OF SAMPLE	AS	4/9/2021
SAMPLE ID: SS-23 % MOISTURE EPA 3550C	3.4	0.050	% OF SAMPLE	AS	4/9/2021
SAMPLE ID: SS-24 % MOISTURE EPA 3550C	2.0	0.050	% OF SAMPLE	AS	4/9/2021
SAMPLE ID: SS-25 % MOISTURE EPA 3550C	5.9	0.050	% OF SAMPLE	AS	4/9/2021
SAMPLE ID: SS-26 % MOISTURE EPA 3550C	7.4	0.050	% OF SAMPLE	AS	4/9/2021
SAMPLE ID: SS-27 % MOISTURE EPA 3550C	6.8	0.050	% OF SAMPLE	AS	4/9/2021
SAMPLE ID: SS-28 % MOISTURE EPA 3550C	5.3	0.050	% OF SAMPLE	AS	4/9/2021

CHAIN OF CUSTODY

PROJECT NUMBER 21-083	SITE NAME/ADDRESS Sun State Garfield A-6	COMPANY/NAME Bretburn
SAMPLED BY Dan Barton	COMPANY Otwell Mawby	GTA PROJECT # 040021-4

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	SS-19	4/9/21	10:47	Soil	Chlorides
2	SS-20	↓	11:07	↓	↓
3	SS-21		11:20		
4	SS-22		11:57		
5	SS-23		12:06		
6	SS-24		12:21		
7	SS-25		13:08		
8	SS-26		13:41		
9	SS-27		13:57		
10	SS-28		14:15		

BILL TO:

Bretburn

REPORT TO:

Melzar Cauter

cc: dbarton@otwellmawby.com

RELEASED BY

DATE/TIME

[Signature]

4/9/21 16:00

RECEIVED BY

DATE/TIME

[Signature] 4/9/21 16:00

REQUESTED TAT

STANDARD

1 BUSINESS DAY

2 BUSINESS DAYS

3 BUSINESS DAYS