

**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: 20-099
GTA ProjNo: 052020-7

Site Addr: BEAVER CREEK B-16

Sampled By: COOPER/OMPC
Date Rec: 5/20/2020
Time Rec: 4:00 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	SW-1	5/20/2020	1:06 PM	SOIL
2	SW-2	5/20/2020	1:09 PM	SOIL
3	SW-3	5/20/2020	1:12 PM	SOIL
4	SW-4	5/20/2020	1:23 PM	SOIL
5	SW-5	5/20/2020	1:30 PM	SOIL
6	SW-6	5/20/2020	1:37 PM	SOIL
7	SW-7	5/20/2020	1:46 PM	SOIL
8	SW-8	5/20/2020	1:48 PM	SOIL
9	B-1	5/20/2020	1:15 PM	SOIL
10	B-2	5/20/2020	1:20 PM	SOIL
11	B-3	5/20/2020	1:26 PM	SOIL
12	B-4	5/20/2020	1:44 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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Traverse City, MI 49686
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830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

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www.gtanalytical.com

COMPANY: BREITBURN OPERATING

PROJECT NO: 20-099

LOCATION: BEAVER CREEK B-16

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: SW-1

GTA PROJECT NO: 052020-7

GTA SAMPLE NO: 1

DATE SAMPLED: 5/20/2020

TIME SAMPLED: 1:06 PM

DATE RECEIVED: 5/20/2020

TIME RECEIVED: 4:00 PM

SAMPLED BY: COOPER/OMPC

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB)	MR	5/20/2020	5/20/2020	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

COMPANY: BREITBURN OPERATING

PROJECT NO: 20-099

LOCATION: BEAVER CREEK B-16

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: SW-2

GTA PROJECT NO: 052020-7

GTA SAMPLE NO: 2

DATE SAMPLED: 5/20/2020

TIME SAMPLED: 1:09 PM

DATE RECEIVED: 5/20/2020

TIME RECEIVED: 4:00 PM

SAMPLED BY: COOPER/OMPC

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB) MR		5/20/2020	5/20/2020	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.

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LOD = LIMIT OF DETECTION

COMPANY: BREITBURN OPERATING

GTA PROJECT NO: 052020-7

PROJECT NO: 20-099

GTA SAMPLE NO: 3

LOCATION: BEAVER CREEK B-16

DATE SAMPLED: 5/20/2020

TIME SAMPLED: 1:12 PM

MI

DATE RECEIVED: 5/20/2020

TIME RECEIVED: 4:00 PM

SAMPLE MATRIX: SOIL

SAMPLE ID: SW-3

SAMPLED BY: COOPER/OMPC

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB)	MR	5/20/2020	5/20/2020	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.

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COMPANY: BREITBURN OPERATING

PROJECT NO: 20-099

LOCATION: BEAVER CREEK B-16

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: SW-4

GTA PROJECT NO: 052020-7

GTA SAMPLE NO: 4

DATE SAMPLED: 5/20/2020

TIME SAMPLED: 1:23 PM

DATE RECEIVED: 5/20/2020

TIME RECEIVED: 4:00 PM

SAMPLED BY: COOPER/OMPC

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB)	MR	5/20/2020	5/20/2020	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

COMPANY: BREITBURN OPERATING

PROJECT NO: 20-099

LOCATION: BEAVER CREEK B-16

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: SW-5

GTA PROJECT NO: 052020-7

GTA SAMPLE NO: 5

DATE SAMPLED: 5/20/2020

TIME SAMPLED: 1:30 PM

DATE RECEIVED: 5/20/2020

TIME RECEIVED: 4:00 PM

SAMPLED BY: COOPER/OMPC

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB)	MR	5/20/2020	5/20/2020	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.

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LOD = LIMIT OF DETECTION

COMPANY: BREITBURN OPERATING

PROJECT NO: 20-099

LOCATION: BEAVER CREEK B-16

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: SW-6

GTA PROJECT NO: 052020-7

GTA SAMPLE NO: 6

DATE SAMPLED: 5/20/2020

TIME SAMPLED: 1:37 PM

DATE RECEIVED: 5/20/2020

TIME RECEIVED: 4:00 PM

SAMPLED BY: COOPER/OMPC

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB)	MR	5/20/2020	5/20/2020	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

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COMPANY: BREITBURN OPERATING

PROJECT NO: 20-099

LOCATION: BEAVER CREEK B-16

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: SW-7

GTA PROJECT NO: 052020-7

GTA SAMPLE NO: 7

DATE SAMPLED: 5/20/2020

TIME SAMPLED: 1:46 PM

DATE RECEIVED: 5/20/2020

TIME RECEIVED: 4:00 PM

SAMPLED BY: COOPER/OMPC

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB) MR		5/20/2020	5/20/2020	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

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LOD = LIMIT OF DETECTION

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COMPANY: BREITBURN OPERATING

PROJECT NO: 20-099

LOCATION: BEAVER CREEK B-16

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: SW-8

GTA PROJECT NO: 052020-7

GTA SAMPLE NO: 8

DATE SAMPLED: 5/20/2020

TIME SAMPLED: 1:48 PM

DATE RECEIVED: 5/20/2020

TIME RECEIVED: 4:00 PM

SAMPLED BY: COOPER/OMPC

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB) MR		5/20/2020	5/20/2020	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.

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LOD = LIMIT OF DETECTION

COMPANY: BREITBURN OPERATING

PROJECT NO: 20-099

LOCATION: BEAVER CREEK B-16

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: B-1

GTA PROJECT NO: 052020-7

GTA SAMPLE NO: 9

DATE SAMPLED: 5/20/2020

TIME SAMPLED: 1:15 PM

DATE RECEIVED: 5/20/2020

TIME RECEIVED: 4:00 PM

SAMPLED BY: COOPER/OMPC

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	770	50	ug/Kg (PPB)	MR	5/20/2020	5/20/2020	EPA 5035A
Toluene	4,500	50					
Ethylbenzene	2,000	50					
Xylene(Total)	6,200	150					
1,2,4-Trimethylbenzene	2,500	50					
1,3,5-Trimethylbenzene	850	50					
Naphthalene	ND	250					
2-Methylnaphthalene	660	250					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.

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LOD = LIMIT OF DETECTION

COMPANY: BREITBURN OPERATING

PROJECT NO: 20-099

LOCATION: BEAVER CREEK B-16

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: B-2

GTA PROJECT NO: 052020-7

GTA SAMPLE NO: 10

DATE SAMPLED: 5/20/2020

TIME SAMPLED: 1:20 PM

DATE RECEIVED: 5/20/2020

TIME RECEIVED: 4:00 PM

SAMPLED BY: COOPER/OMPC

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	1,200	50	ug/Kg (PPB)	MR	5/20/2020	5/21/2020	EPA 5035A
Toluene	4,700	50					
Ethylbenzene	1,600	50					
Xylene(Total)	4,900	150					
1,2,4-Trimethylbenzene	1,700	50					
1,3,5-Trimethylbenzene	590	50					
Naphthalene	ND	250					
2-Methylnaphthalene	580	250					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

COMPANY: BREITBURN OPERATING

PROJECT NO: 20-099

LOCATION: BEAVER CREEK B-16

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: B-3

GTA PROJECT NO: 052020-7

GTA SAMPLE NO: 11

DATE SAMPLED: 5/20/2020

TIME SAMPLED: 1:26 PM

DATE RECEIVED: 5/20/2020

TIME RECEIVED: 4:00 PM

SAMPLED BY: COOPER/OMPC

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	130	50	ug/Kg (PPB)	MR	5/20/2020	5/20/2020	EPA 5035A
Toluene	210	50					
Ethylbenzene	59	50					
Xylene(Total)	210	150					
1,2,4-Trimethylbenzene	72	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.

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LOD = LIMIT OF DETECTION

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COMPANY: BREITBURN OPERATING

PROJECT NO: 20-099

LOCATION: BEAVER CREEK B-16

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: B-4

GTA PROJECT NO: 052020-7

GTA SAMPLE NO: 12

DATE SAMPLED: 5/20/2020

TIME SAMPLED: 1:44 PM

DATE RECEIVED: 5/20/2020

TIME RECEIVED: 4:00 PM

SAMPLED BY: COOPER/OMPC

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	27,000	270	ug/Kg (PPB) MR		5/20/2020	5/21/2020	EPA 5035A
Toluene	130,000	270					
Ethylbenzene	48,000	270					
Xylene(Total)	140,000	810					
1,2,4-Trimethylbenzene	50,000	270					
1,3,5-Trimethylbenzene	17,000	270					
Naphthalene	3,700	250					
2-Methylnaphthalene	13,000	270					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.

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COMPANY: BREITBURN OPERATING

PROJECT NO: 20-099

LOCATION: BEAVER CREEK B-16

GTA PROJECT NO: 052020-7

GTA SAMPLE NO: 1

DATE SAMPLED: 5/20/2020

TIME SAMPLED: 1:06 PM

DATE RECEIVED: 5/20/2020

TIME RECEIVED: 4:00 PM

SAMPLED BY: MI
COOPER/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: SW-1						
	CHLORIDE EPA 300.0	3,500	450	mg/L (PPM)	KC/AS	5/21/2020	SOIL

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

s.u. = STANDARD pH UNITS REPORTED AT 25 C

**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

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COMPANY: BREITBURN OPERATING
PROJECT NO: 20-099
LOCATION: BEAVER CREEK B-16

GTA PROJECT NO: 052020-7
GTA SAMPLE NO: 2

DATE SAMPLED: 5/20/2020
TIME SAMPLED: 1:09 PM
DATE RECEIVED: 5/20/2020
TIME RECEIVED: 4:00 PM

MI
SAMPLED BY: COOPER/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: SW-2						
	CHLORIDE EPA 300.0	11,000	480	mg/L (PPM)	KC/AS	5/21/2020	SOIL

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: BREITBURN OPERATING

GTA PROJECT NO: 052020-7

PROJECT NO: 20-099

GTA SAMPLE NO: 3

LOCATION: BEAVER CREEK B-16

DATE SAMPLED: 5/20/2020

TIME SAMPLED: 1:12 PM

DATE RECEIVED: 5/20/2020

TIME RECEIVED: 4:00 PM

MI

SAMPLED BY: COOPER/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: SW-3							
CHLORIDE EPA 300.0		160	97	mg/L (PPM)	KC/AS	5/21/2020	SOIL

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: BREITBURN OPERATING
PROJECT NO: 20-099
LOCATION: BEAVER CREEK B-16

GTA PROJECT NO: 052020-7
GTA SAMPLE NO: 4

DATE SAMPLED: 5/20/2020
TIME SAMPLED: 1:23 PM
DATE RECEIVED: 5/20/2020
TIME RECEIVED: 4:00 PM

MI
SAMPLED BY: COOPER/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: SW-4						
	CHLORIDE EPA 300.0	ND	94	mg/L (PPM)	KC/AS	5/21/2020	SOIL

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

COMPANY: BREITBURN OPERATING
PROJECT NO: 20-099
LOCATION: BEAVER CREEK B-16

GTA PROJECT NO: 052020-7
GTA SAMPLE NO: 5

DATE SAMPLED: 5/20/2020
TIME SAMPLED: 1:30 PM
DATE RECEIVED: 5/20/2020
TIME RECEIVED: 4:00 PM

MI
SAMPLED BY: COOPER/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: SW-5 CHLORIDE EPA 300.0	ND	94	mg/L (PPM)	KC/AS	5/21/2020	SOIL

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

COMPANY: BREITBURN OPERATING

GTA PROJECT NO: 052020-7

PROJECT NO: 20-099

GTA SAMPLE NO: 6

LOCATION: BEAVER CREEK B-16

DATE SAMPLED: 5/20/2020

TIME SAMPLED: 1:37 PM

DATE RECEIVED: 5/20/2020

TIME RECEIVED: 4:00 PM

MI

SAMPLED BY: COOPER/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: SW-6						
	CHLORIDE EPA 300.0	1,400	95	mg/L (PPM)	KC/AS	5/21/2020	SOIL

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

s.u. = STANDARD pH UNITS REPORTED AT 25 C

**INDEPENDENT TESTING LAB**

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COMPANY: BREITBURN OPERATING
PROJECT NO: 20-099
LOCATION: BEAVER CREEK B-16

GTA PROJECT NO: 052020-7
GTA SAMPLE NO: 7

DATE SAMPLED: 5/20/2020
TIME SAMPLED: 1:46 PM
DATE RECEIVED: 5/20/2020
TIME RECEIVED: 4:00 PM

MI
SAMPLED BY: COOPER/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: SW-7						
	CHLORIDE EPA 300.0	2,000	96	mg/L (PPM)	KC/AS	5/21/2020	SOIL

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

**INDEPENDENT TESTING LAB**

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COMPANY: BREITBURN OPERATING

PROJECT NO: 20-099

LOCATION: BEAVER CREEK B-16

GTA PROJECT NO: 052020-7

GTA SAMPLE NO: 8

DATE SAMPLED: 5/20/2020

TIME SAMPLED: 1:48 PM

DATE RECEIVED: 5/20/2020

TIME RECEIVED: 4:00 PM

SAMPLED BY: MI
COOPER/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: SW-8						
	CHLORIDE EPA 300.0	2,100	95	mg/L (PPM)	KC/AS	5/21/2020	SOIL

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

s.u. = STANDARD pH UNITS REPORTED AT 25 C

**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

COMPANY: BREITBURN OPERATING
PROJECT NO: 20-099
LOCATION: BEAVER CREEK B-16

GTA PROJECT NO: 052020-7
GTA SAMPLE NO: 9

DATE SAMPLED: 5/20/2020
TIME SAMPLED: 1:15 PM
DATE RECEIVED: 5/20/2020
TIME RECEIVED: 4:00 PM

MI
SAMPLED BY: COOPER/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: B-1							
CHLORIDE EPA 300.0		6,600	480	mg/L (PPM)	KC/AS	5/21/2020	SOIL

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COMPANY: BREITBURN OPERATING

GTA PROJECT NO: 052020-7

PROJECT NO: 20-099

GTA SAMPLE NO: 10

LOCATION: BEAVER CREEK B-16

DATE SAMPLED: 5/20/2020

TIME SAMPLED: 1:20 PM

DATE RECEIVED: 5/20/2020

TIME RECEIVED: 4:00 PM

MI

SAMPLED BY: COOPER/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: B-2							
CHLORIDE EPA 300.0		3,500	490	mg/L (PPM)	KC/AS	5/21/2020	SOIL

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

s.u. = STANDARD pH UNITS REPORTED AT 25 C

**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

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COMPANY: BREITBURN OPERATING
PROJECT NO: 20-099
LOCATION: BEAVER CREEK B-16

GTA PROJECT NO: 052020-7
GTA SAMPLE NO: 11

DATE SAMPLED: 5/20/2020
TIME SAMPLED: 1:26 PM
DATE RECEIVED: 5/20/2020
TIME RECEIVED: 4:00 PM

MI
SAMPLED BY: COOPER/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: B-3							
CHLORIDE EPA 300.0		3,000	97	mg/L (PPM)	KC/AS	5/21/2020	SOIL

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



INDEPENDENT TESTING LAB

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

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COMPANY: BREITBURN OPERATING
PROJECT NO: 20-099
LOCATION: BEAVER CREEK B-16

GTA PROJECT NO: 052020-7
GTA SAMPLE NO: 12

DATE SAMPLED: 5/20/2020
TIME SAMPLED: 1:44 PM
DATE RECEIVED: 5/20/2020
TIME RECEIVED: 4:00 PM

MI
SAMPLED BY: COOPER/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: B-4							
CHLORIDE EPA 300.0		6,200	98	mg/L (PPM)	KC/AS	5/21/2020	SOIL

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

**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

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COMPANY: BREITBURN OPERATING

GTA PROJECT NO: 052020-7

NAME:

SAMPLED BY: COOPER/OMPC

PROJECT NO: 20-099

DATE SAMPLED: 5/20/2020

TIME SAMPLED: 1:06 PM

LOCATION: BEAVER CREEK B-16

SAMPLE MATRIX: SOIL

DATE RECEIVED: 5/20/2020

TIME RECEIVED: 4:00 PM

MI

MOISTURE

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Complete</u>
SAMPLE ID: SW-1	% MOISTURE EPA 3550C	5.2	0.050	% OF SAMPLE	AS	5/20/2020
SAMPLE ID: SW-2	% MOISTURE EPA 3550C	5.2	0.050	% OF SAMPLE	AS	5/20/2020
SAMPLE ID: SW-3	% MOISTURE EPA 3550C	7.7	0.050	% OF SAMPLE	AS	5/20/2020
SAMPLE ID: SW-4	% MOISTURE EPA 3550C	5.0	0.050	% OF SAMPLE	AS	5/20/2020
SAMPLE ID: SW-5	% MOISTURE EPA 3550C	5.5	0.050	% OF SAMPLE	AS	5/20/2020
SAMPLE ID: SW-6	% MOISTURE EPA 3550C	5.5	0.050	% OF SAMPLE	AS	5/20/2020
SAMPLE ID: SW-7	% MOISTURE EPA 3550C	7.1	0.050	% OF SAMPLE	AS	5/20/2020
SAMPLE ID: SW-8	% MOISTURE EPA 3550C	6.0	0.050	% OF SAMPLE	AS	5/20/2020
SAMPLE ID: B-1	% MOISTURE EPA 3550C	7.1	0.050	% OF SAMPLE	AS	5/20/2020
SAMPLE ID: B-2	% MOISTURE EPA 3550C	8.7	0.050	% OF SAMPLE	AS	5/20/2020
SAMPLE ID: B-3	% MOISTURE EPA 3550C	7.3	0.050	% OF SAMPLE	AS	5/20/2020
SAMPLE ID: B-4	% MOISTURE EPA 3550C	8.9	0.050	% OF SAMPLE	AS	5/20/2020