



**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: 21-163  
GTA ProjNo: 081021-5

Site Addr: BEAVER CREEK B-18

Sampled By: DAN BARTON/OMPC  
Date Rec: 8/10/2021  
Time Rec: 9:00 AM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	SS-1 @ 15'	8/9/2021	2:55 PM	SOIL
2	SS-2 @ 18'	8/9/2021	5:15 PM	SOIL
3	SS-3 @ 10'	8/9/2021	4:40 PM	SOIL
4	SS-4 @ 12'	8/9/2021	4:50 PM	SOIL
5	SS-5 @ 6.5'	8/9/2021	4:20 PM	SOIL
6	SS-6 @ 6.5'	8/9/2021	4:00 PM	SOIL
7	SS-7 @ 6.5'	8/9/2021	3:40 PM	SOIL
8	SS-8 @ 6.5'	8/9/2021	3:35 PM	SOIL
9	SS-9 @ 6.5'	8/9/2021	2:45 PM	SOIL
10	SS-10 @ 6.5'	8/9/2021	2:20 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  
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](mailto:kirk@gtanalytical.com)



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FAX: 231-929-0894

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COMPANY: BREITBURN OPERATING  
 PROJECT NO: 21-163  
 LOCATION: BEAVER CREEK B-18  
 MI  
 SAMPLE MATRIX: SOIL  
 SAMPLE ID: SS-1 @ 15'

GTA PROJECT NO: 081021-5  
 GTA SAMPLE NO: 1  
 DATE SAMPLED: 8/9/2021  
 TIME SAMPLED: 2:55 PM  
 DATE RECEIVED: 8/10/2021  
 TIME RECEIVED: 9:00 AM

SAMPLED BY: DAN BARTON/OMPC  
 \*\*THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

**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)	KC	8/9/2021	8/10/2021	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



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COMPANY: BREITBURN OPERATING  
 PROJECT NO: 21-163  
 LOCATION: BEAVER CREEK B-18  
 MI  
 SAMPLE MATRIX: SOIL  
 SAMPLE ID: SS-2 @ 18'

GTA PROJECT NO: 081021-5  
 GTA SAMPLE NO: 2  
 DATE SAMPLED: 8/9/2021  
 TIME SAMPLED: 5:15 PM  
 DATE RECEIVED: 8/10/2021  
 TIME RECEIVED: 9:00 AM

SAMPLED BY: DAN BARTON/OMPC  
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**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)	KC	8/9/2021	8/10/2021	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: 21-163  
 LOCATION: BEAVER CREEK B-18  
 MI  
 SAMPLE MATRIX: SOIL  
 SAMPLE ID: SS-3 @ 10'

GTA PROJECT NO: 081021-5  
 GTA SAMPLE NO: 3  
 DATE SAMPLED: 8/9/2021  
 TIME SAMPLED: 4:40 PM  
 DATE RECEIVED: 8/10/2021  
 TIME RECEIVED: 9:00 AM

SAMPLED BY: DAN BARTON/OMPC  
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**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)	KC	8/9/2021	8/10/2021	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: 21-163  
LOCATION: BEAVER CREEK B-18  
MI  
SAMPLE MATRIX: SOIL  
SAMPLE ID: SS-4 @ 12'

GTA PROJECT NO: 081021-5  
GTA SAMPLE NO: 4  
DATE SAMPLED: 8/9/2021  
TIME SAMPLED: 4:50 PM  
DATE RECEIVED: 8/10/2021  
TIME RECEIVED: 9:00 AM

SAMPLED BY: DAN BARTON/OMPC  
\*\*THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

**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) KC		8/9/2021	8/10/2021	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: 21-163  
 LOCATION: BEAVER CREEK B-18  
 MI  
 SAMPLE MATRIX: SOIL  
 SAMPLE ID: SS-5 @ 6.5'

GTA PROJECT NO: 081021-5  
 GTA SAMPLE NO: 5  
 DATE SAMPLED: 8/9/2021  
 TIME SAMPLED: 4:20 PM  
 DATE RECEIVED: 8/10/2021  
 TIME RECEIVED: 9:00 AM

SAMPLED BY: DAN BARTON/OMPC  
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**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)	KC	8/9/2021	8/10/2021	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: 21-163  
LOCATION: BEAVER CREEK B-18  
MI  
SAMPLE MATRIX: SOIL  
SAMPLE ID: SS-6 @ 6.5'

GTA PROJECT NO: 081021-5  
GTA SAMPLE NO: 6  
DATE SAMPLED: 8/9/2021  
TIME SAMPLED: 4:00 PM  
DATE RECEIVED: 8/10/2021  
TIME RECEIVED: 9:00 AM

SAMPLED BY: DAN BARTON/OMPC  
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**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) KC		8/9/2021	8/11/2021	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: 21-163  
LOCATION: BEAVER CREEK B-18  
MI  
SAMPLE MATRIX: SOIL  
SAMPLE ID: SS-7 @ 6.5'

GTA PROJECT NO: 081021-5  
GTA SAMPLE NO: 7  
DATE SAMPLED: 8/9/2021  
TIME SAMPLED: 3:40 PM  
DATE RECEIVED: 8/10/2021  
TIME RECEIVED: 9:00 AM

SAMPLED BY: DAN BARTON/OMPC  
\*\*THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

**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)	KC	8/9/2021	8/10/2021	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: 21-163  
 LOCATION: BEAVER CREEK B-18  
 MI  
 SAMPLE MATRIX: SOIL  
 SAMPLE ID: SS-8 @ 6.5'

GTA PROJECT NO: 081021-5  
 GTA SAMPLE NO: 8  
 DATE SAMPLED: 8/9/2021  
 TIME SAMPLED: 3:35 PM  
 DATE RECEIVED: 8/10/2021  
 TIME RECEIVED: 9:00 AM

SAMPLED BY: DAN BARTON/OMPC  
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**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)	KC	8/9/2021	8/10/2021	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: 21-163  
LOCATION: BEAVER CREEK B-18  
MI  
SAMPLE MATRIX: SOIL  
SAMPLE ID: SS-9 @ 6.5'

GTA PROJECT NO: 081021-5  
GTA SAMPLE NO: 9  
DATE SAMPLED: 8/9/2021  
TIME SAMPLED: 2:45 PM  
DATE RECEIVED: 8/10/2021  
TIME RECEIVED: 9:00 AM

SAMPLED BY: DAN BARTON/OMPC  
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**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) KC		8/9/2021	8/10/2021	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: 21-163  
LOCATION: BEAVER CREEK B-18  
MI  
SAMPLE MATRIX: SOIL  
SAMPLE ID: SS-10 @ 6.5'

GTA PROJECT NO: 081021-5  
GTA SAMPLE NO: 10  
DATE SAMPLED: 8/9/2021  
TIME SAMPLED: 2:20 PM  
DATE RECEIVED: 8/10/2021  
TIME RECEIVED: 9:00 AM

SAMPLED BY: DAN BARTON/OMPC  
\*\*THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

**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) KC		8/9/2021	8/10/2021	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: 21-163  
LOCATION: BEAVER CREEK B-18

GTA PROJECT NO: 081021-5  
GTA SAMPLE NO: 1

DATE SAMPLED: 8/9/2021  
TIME SAMPLED: 2:55 PM  
DATE RECEIVED: 8/10/2021  
TIME RECEIVED: 9:00 AM

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-1 @ 15' CHLORIDE EPA 300.0	320	97	mg/Kg (PPM)	KC	8/10/2021	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  
PROJECT NO: 21-163  
LOCATION: BEAVER CREEK B-18  
MI  
SAMPLED BY: DAN BARTON/OMPC

GTA PROJECT NO: 081021-5  
GTA SAMPLE NO: 2  
DATE SAMPLED: 8/9/2021  
TIME SAMPLED: 5:15 PM  
DATE RECEIVED: 8/10/2021  
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</u>
	SAMPLE ID: SS-2 @ 18' CHLORIDE EPA 300.0	420	100	mg/Kg (PPM)	KC	8/10/2021	SOIL

ND = NOT DETECTED, RESULT < LOD  
LOD = LIMIT OF DETECTION  
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COMPANY: BREITBURN OPERATING  
 PROJECT NO: 21-163  
 LOCATION: BEAVER CREEK B-18

GTA PROJECT NO: 081021-5  
 GTA SAMPLE NO: 3  
 DATE SAMPLED: 8/9/2021  
 TIME SAMPLED: 4:40 PM  
 DATE RECEIVED: 8/10/2021  
 TIME RECEIVED: 9:00 AM

SAMPLED BY: MI  
 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-3 @ 10' CHLORIDE EPA 300.0	ND	98	mg/Kg (PPM)	KC	8/10/2021	SOIL

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

COMPANY: BREITBURN OPERATING  
 PROJECT NO: 21-163  
 LOCATION: BEAVER CREEK B-18  
 MI  
 SAMPLED BY: DAN BARTON/OMPC

GTA PROJECT NO: 081021-5  
 GTA SAMPLE NO: 4  
 DATE SAMPLED: 8/9/2021  
 TIME SAMPLED: 4:50 PM  
 DATE RECEIVED: 8/10/2021  
 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</u>
	SAMPLE ID: SS-4 @ 12' CHLORIDE EPA 300.0	ND	93	mg/Kg (PPM)	KC	8/10/2021	SOIL

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

COMPANY: BREITBURN OPERATING  
 PROJECT NO: 21-163  
 LOCATION: BEAVER CREEK B-18

GTA PROJECT NO: 081021-5  
 GTA SAMPLE NO: 5  
 DATE SAMPLED: 8/9/2021  
 TIME SAMPLED: 4:20 PM  
 DATE RECEIVED: 8/10/2021  
 TIME RECEIVED: 9:00 AM

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-5 @ 6.5' CHLORIDE EPA 300.0	570	100	mg/Kg (PPM)	KC	8/10/2021	SOIL

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

COMPANY: BREITBURN OPERATING  
 PROJECT NO: 21-163  
 LOCATION: BEAVER CREEK B-18

GTA PROJECT NO: 081021-5  
 GTA SAMPLE NO: 6  
 DATE SAMPLED: 8/9/2021  
 TIME SAMPLED: 4:00 PM  
 DATE RECEIVED: 8/10/2021  
 TIME RECEIVED: 9:00 AM

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-6 @ 6.5' CHLORIDE EPA 300.0	ND	99	mg/Kg (PPM)	KC	8/10/2021	SOIL

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

COMPANY: BREITBURN OPERATING  
 PROJECT NO: 21-163  
 LOCATION: BEAVER CREEK B-18

GTA PROJECT NO: 081021-5  
 GTA SAMPLE NO: 7

DATE SAMPLED: 8/9/2021  
 TIME SAMPLED: 3:40 PM  
 DATE RECEIVED: 8/10/2021  
 TIME RECEIVED: 9:00 AM

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-7 @ 6.5' CHLORIDE EPA 300.0	ND	100	mg/Kg (PPM)	KC	8/10/2021	SOIL

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

COMPANY: BREITBURN OPERATING  
 PROJECT NO: 21-163  
 LOCATION: BEAVER CREEK B-18

GTA PROJECT NO: 081021-5  
 GTA SAMPLE NO: 8  
 DATE SAMPLED: 8/9/2021  
 TIME SAMPLED: 3:35 PM  
 DATE RECEIVED: 8/10/2021  
 TIME RECEIVED: 9:00 AM

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-8 @ 6.5' CHLORIDE EPA 300.0	ND	87	mg/Kg (PPM)	KC	8/10/2021	SOIL

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

COMPANY: BREITBURN OPERATING  
 PROJECT NO: 21-163  
 LOCATION: BEAVER CREEK B-18

GTA PROJECT NO: 081021-5  
 GTA SAMPLE NO: 9

DATE SAMPLED: 8/9/2021  
 TIME SAMPLED: 2:45 PM  
 DATE RECEIVED: 8/10/2021  
 TIME RECEIVED: 9:00 AM

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-9 @ 6.5' CHLORIDE EPA 300.0	160	92	mg/Kg (PPM)	KC	8/10/2021	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: 21-163  
LOCATION: BEAVER CREEK B-18

GTA PROJECT NO: 081021-5  
GTA SAMPLE NO: 10

DATE SAMPLED: 8/9/2021  
TIME SAMPLED: 2:20 PM  
DATE RECEIVED: 8/10/2021  
TIME RECEIVED: 9:00 AM

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-10 @ 6.5' CHLORIDE EPA 300.0	280	100	mg/Kg (PPM)	KC	8/10/2021	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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FAX: 231-929-0894

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COMPANY: BREITBURN OPERATING

NAME:  
PROJECT NO: 21-163

LOCATION: BEAVER CREEK B-18

MI

GTA PROJECT NO: 081021-  
SAMPLED BY: DAN BARTON/OMPC

DATE SAMPLED: 8/9/2021  
TIME SAMPLED: 2:55 PM

SAMPLE MATRIX: SOIL

DATE RECEIVED: 8/10/2021  
TIME RECEIVED: 9:00 AM

**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-1 @ 15' % MOISTURE EPA 3550C	4.4	0.050	% OF SAMPLE	KC	8/10/2021
SAMPLE ID: SS-2 @ 18' % MOISTURE EPA 3550C	5.7	0.050	% OF SAMPLE	KC	8/10/2021
SAMPLE ID: SS-3 @ 10' % MOISTURE EPA 3550C	7.4	0.050	% OF SAMPLE	KC	8/10/2021
SAMPLE ID: SS-4 @ 12' % MOISTURE EPA 3550C	3.8	0.050	% OF SAMPLE	KC	8/10/2021
SAMPLE ID: SS-5 @ 6.5' % MOISTURE EPA 3550C	7.5	0.050	% OF SAMPLE	KC	8/10/2021
SAMPLE ID: SS-6 @ 6.5' % MOISTURE EPA 3550C	6.4	0.050	% OF SAMPLE	KC	8/10/2021
SAMPLE ID: SS-7 @ 6.5' % MOISTURE EPA 3550C	6.7	0.050	% OF SAMPLE	KC	8/10/2021
SAMPLE ID: SS-8 @ 6.5' % MOISTURE EPA 3550C	3.4	0.050	% OF SAMPLE	KC	8/10/2021
SAMPLE ID: SS-9 @ 6.5' % MOISTURE EPA 3550C	3.6	0.050	% OF SAMPLE	KC	8/10/2021
SAMPLE ID: SS-10 @ 6.5' % MOISTURE EPA 3550C	7.1	0.050	% OF SAMPLE	KC	8/10/2021

**CHAIN OF CUSTODY**

PROJECT NUMBER 21-163	SITE NAME/ADDRESS Bever Crk B-18	COMPANY/NAME Breitburn
SAMPLED BY Dan Barton	COMPANY OMPC	GTA PROJECT # 081021-5

**SAMPLE INFORMATION**

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
	SS-1 @ 15'	8/9/21	14:55	Soil	BTEX+4, Chlorides
	SS-2 @ 18'	↓	17:15	↓	↓
	SS-3 @ 10'	↓	16:40	↓	↓
	SS-4 @ 12'	↓	16:50	↓	↓
	SS-5 @ 6.5'	↓	16:20	↓	↓
	SS-6 @ 6.5'	↓	16:00	↓	↓
	SS-7 @ 6.5'	↓	15:40	↓	↓
	SS-8 @ 6.5'	↓	15:35	↓	↓
	SS-9 @ 6.5'	↓	14:45	↓	↓
	SS-10 @ 6.5'	↓	14:20	↓	↓

<b>BILL TO:</b> Breitburn	<b>REPORT TO:</b> Dan Barton
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<b>RELEASED BY</b> <i>[Signature]</i>	<b>DATE/TIME</b> 8/16/21 9:00	<b>RECEIVED BY</b> <i>[Signature]</i>	<b>DATE/TIME</b> 8/16/21 9:00
		<i>see 5.6 on ice</i>	

REQUESTED TAT  STANDARD  1 BUSINESS DAY  2 BUSINESS DAYS  3 BUSINESS DAYS