



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: 228907.073
GTA ProjNo: 072219-2

Site Addr: STATE BEAVER CREEK M#3

Sampled By: HOLLIS THOMAS/DARCY
Date Rec: 7/22/2019
Time Rec: 12:25 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-2	7/21/2019	11:00 AM	WATER
2	MW-4D	7/21/2019	11:30 AM	WATER
3	MW-5	7/21/2019	12:00 PM	WATER
4	MW-9	7/21/2019	12:45 PM	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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COMPANY: BREITBURN OPERATING
PROJECT NO: 228907.073
LOCATION: STATE BEAVER CREEK M#3

GTA PROJECT NO: 072219-2
GTA SAMPLE NO: 1

DATE SAMPLED: 7/21/2019
TIME SAMPLED: 11:00 AM
DATE RECEIVED: 7/22/2019
TIME RECEIVED: 12:25 PM

MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-2

SAMPLED BY: HOLLIS THOMAS/DARCY

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	2.0	1.0	ug/L (PPB)	MR		7/23/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	43	1.0					
Xylene(Total)	130	3.0					

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: 228907.073
LOCATION: STATE BEAVER CREEK M#3

GTA PROJECT NO: 072219-2
GTA SAMPLE NO: 2

DATE SAMPLED: 7/21/2019
TIME SAMPLED: 11:30 AM
DATE RECEIVED: 7/22/2019
TIME RECEIVED: 12:25 PM

MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-4D

SAMPLED BY: HOLLIS THOMAS/DARCY

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		7/23/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

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COMPANY: BREITBURN OPERATING
PROJECT NO: 228907.073
LOCATION: STATE BEAVER CREEK M#3

GTA PROJECT NO: 072219-2
GTA SAMPLE NO: 3

DATE SAMPLED: 7/21/2019
TIME SAMPLED: 12:00 PM
DATE RECEIVED: 7/22/2019
TIME RECEIVED: 12:25 PM

MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-5

SAMPLED BY: HOLLIS THOMAS/DARCY

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	1.2	1.0	ug/L (PPB)	MR		7/23/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	9.1	1.0					
Xylene(Total)	ND	3.0					

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COMPANY: BREITBURN OPERATING
PROJECT NO: 228907.073
LOCATION: STATE BEAVER CREEK M#3

GTA PROJECT NO: 072219-2
GTA SAMPLE NO: 4

DATE SAMPLED: 7/21/2019
TIME SAMPLED: 12:45 PM
DATE RECEIVED: 7/22/2019
TIME RECEIVED: 12:25 PM

MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-9

SAMPLED BY: HOLLIS THOMAS/DARCY

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		7/23/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	130	1.0					
Xylene(Total)	31	3.0					

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COMPANY: BREITBURN OPERATING
PROJECT NO: 228907.073
LOCATION: STATE BEAVER CREEK M#3

GTA PROJECT NO: 072219-2
GTA SAMPLE NO: 1

DATE SAMPLED: 7/21/2019
TIME SAMPLED: 11:00 AM

DATE RECEIVED: 7/22/2019
TIME RECEIVED: 12:25 PM

MI
SAMPLED BY: HOLLIS THOMAS/DARCY

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 Matrix</u>
	SAMPLE ID: MW-2						
	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	7/22/2019	WATER
	CONDUCTIVITY SM2510-B	890	1.0	uS/cm@25C	LV	7/22/2019	WATER

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

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LOCATION: STATE BEAVER CREEK M#3

GTA PROJECT NO: 072219-2
GTA SAMPLE NO: 2

DATE SAMPLED: 7/21/2019
TIME SAMPLED: 11:30 AM

DATE RECEIVED: 7/22/2019
TIME RECEIVED: 12:25 PM

MI
SAMPLED BY: HOLLIS THOMAS/DARCY

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 Matrix</u>
	SAMPLE ID: MW-4D						
	CHLORIDE EPA 300.0	280	10	mg/L (PPM)	LV	7/22/2019	WATER
	CONDUCTIVITY SM2510-B	1,200	1.0	uS/cm@25C	LV	7/22/2019	WATER

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TIME SAMPLED: 12:00 PM

DATE RECEIVED: 7/22/2019
TIME RECEIVED: 12:25 PM

MI
SAMPLED BY: HOLLIS THOMAS/DARCY

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 Matrix</u>
	SAMPLE ID: MW-5						
	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	7/22/2019	WATER
	CONDUCTIVITY SM2510-B	520	1.0	uS/cm@25C	LV	7/22/2019	WATER

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LOCATION: STATE BEAVER CREEK M#3

GTA PROJECT NO: 072219-2
GTA SAMPLE NO: 4

DATE SAMPLED: 7/21/2019
TIME SAMPLED: 12:45 PM

DATE RECEIVED: 7/22/2019
TIME RECEIVED: 12:25 PM

MI
SAMPLED BY: HOLLIS THOMAS/DARCY

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 Matrix</u>
	SAMPLE ID: MW-9						
	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	7/22/2019	WATER
	CONDUCTIVITY SM2510-B	600	1.0	uS/cm@25C	LV	7/22/2019	WATER

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

CHAIN OF CUSTODY

PROJECT NUMBER 228907.073	SITE NAME/ADDRESS STATE BEAVER CREEK M #3	COMPANY/NAME Brittany LP
SAMPLED BY <i>[Signature]</i>	COMPANY Dery	GTA PROJECT # 072219-2

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	MW-2	7/21/19	11am	GW	BTEX, C1-5SC
2	MW-4d	7/21/19	11:30am		↓ ↓ ↓
3	MW-5	7/21/19	12pm		↓ ↓ ↓
4	MW-9	7/21/19	12:45pm	↓	↓ ↓ ↓

BILL TO:

BB

REPORT TO:

Dery

RELEASED BY

DATE/TIME

[Signature]

7/22/19 12:26pm

RECEIVED BY

DATE/TIME

Lisa Viollette 7/22/19 12:25p

per 5.40 on ice

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