



**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: 20-189  
GTA ProjNo: 102120-3

Site Addr: GARFIELD 1-9

Sampled By: MS/OMPS  
Date Rec: 10/21/2020  
Time Rec: 9:25 AM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-1	10/20/2020		WATER
2	MW-3	10/20/2020		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 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)

COMPANY:	BREITBURN OPERATING	GTA PROJECT NO:	102120-3
PROJECT NO:	20-189	GTA SAMPLE NO:	1
LOCATION:	GARFIELD 1-9	DATE SAMPLED:	10/20/2020
		TIME SAMPLED:	
	MI	DATE RECEIVED:	10/21/2020
		TIME RECEIVED:	9:25 AM
SAMPLE MATRIX:	WATER		
SAMPLE ID:	MW-1	SAMPLED BY:	MS/OMPS

**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		10/22/2020	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.  
 ND = NOT DETECTED, RESULT < LOD  
 LOD = LIMIT OF DETECTION



**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: 20-189  
 LOCATION: GARFIELD 1-9  
 MI  
 SAMPLE MATRIX: WATER  
 SAMPLE ID: MW-3

GTA PROJECT NO: 102120-3  
 GTA SAMPLE NO: 2  
 DATE SAMPLED: 10/20/2020  
 TIME SAMPLED:  
 DATE RECEIVED: 10/21/2020  
 TIME RECEIVED: 9:25 AM

SAMPLED BY: MS/OMPS

**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	2.5	1.0	ug/L (PPB)	MR		10/22/2020	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.  
 ND = NOT DETECTED, RESULT < LOD  
 LOD = LIMIT OF DETECTION



**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: 20-189  
LOCATION: GARFIELD 1-9

GTA PROJECT NO: 102120-3  
GTA SAMPLE NO: 1  
DATE SAMPLED: 10/20/2020  
TIME SAMPLED:  
DATE RECEIVED: 10/21/2020  
TIME RECEIVED: 9:25 AM

SAMPLED BY: MI  
MS/OMPS

**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-1						
	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	10/23/2020	WATER
	CONDUCTIVITY SM2510-B	62	1.0	uS/cm@25C	LV	10/23/2020	WATER

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



**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: 20-189  
LOCATION: GARFIELD 1-9

GTA PROJECT NO: 102120-3  
GTA SAMPLE NO: 2  
DATE SAMPLED: 10/20/2020  
TIME SAMPLED:  
DATE RECEIVED: 10/21/2020  
TIME RECEIVED: 9:25 AM

SAMPLED BY: MI  
MS/OMPS

**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-3						
	CHLORIDE EPA 300.0	90	10	mg/L (PPM)	LV	10/23/2020	WATER
	CONDUCTIVITY SM2510-B	540	1.0	uS/cm@25C	LV	10/23/2020	WATER

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

