



**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: 07-031  
GTA ProjNo: 040821-3

Site Addr: FORMER BEAVER CREEK TANK BATTERY  
Sampled By: SEAN CLARK/OMPC  
Date Rec: 4/8/2021  
Time Rec: 9:17 AM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-1	4/5/2021	3:42 PM	WATER
2	MW-2	4/6/2021	2:57 PM	WATER
3	MW-3A	4/6/2021	4:15 PM	WATER
4	MW-4	4/5/2021	3:25 PM	WATER
5	MW-5	4/6/2021	3:02 PM	WATER
6	MW-6A	4/6/2021	3:42 PM	WATER
7	MW-8	4/5/2021	3:00 PM	WATER
8	MW-9	4/6/2021	4:30 PM	WATER
9	MW-10	4/6/2021	4:00 PM	WATER
10	MW-11	4/6/2021	3:21 PM	WATER
11	MW-12	4/6/2021	4:15 PM	WATER
12	MW-13	4/6/2021	4:30 PM	WATER
13	MW-14	4/5/2021	4:32 PM	WATER
14	MW-15	4/5/2021	4:57 PM	WATER
15	MW-16	4/5/2021	4:14 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 Chase*

Kirk L. Chase/Chemist  
Grand Traverse Analytical  
830 Robinwood Court  
Traverse City, MI 49686  
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COMPANY: BREITBURN OPERATING  
 PROJECT NO: 07-031  
 LOCATION: FORMER BEAVER CREEK TANK BATTERY  
 MI  
 SAMPLE MATRIX: WATER  
 SAMPLE ID: MW-1

GTA PROJECT NO: 040821-3  
 GTA SAMPLE NO: 1  
 DATE SAMPLED: 4/5/2021  
 TIME SAMPLED: 3:42 PM  
 DATE RECEIVED: 4/8/2021  
 TIME RECEIVED: 9:17 AM

SAMPLED BY: SEAN CLARK/OMPC

**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		4/8/2021	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Methyl-t-Butyl Ether	ND	5.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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: 07-031  
 LOCATION: FORMER BEAVER CREEK TANK BATTERY  
 MI  
 SAMPLE MATRIX: WATER  
 SAMPLE ID: MW-2

GTA PROJECT NO: 040821-3  
 GTA SAMPLE NO: 2  
 DATE SAMPLED: 4/6/2021  
 TIME SAMPLED: 2:57 PM  
 DATE RECEIVED: 4/8/2021  
 TIME RECEIVED: 9:17 AM

SAMPLED BY: SEAN CLARK/OMPC

**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		4/8/2021	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Methyl-t-Butyl Ether	ND	5.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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 LOD = LIMIT OF DETECTION

COMPANY: BREITBURN OPERATING  
PROJECT NO: 07-031  
LOCATION: FORMER BEAVER CREEK TANK BATTERY  
MI  
SAMPLE MATRIX: WATER  
SAMPLE ID: MW-3A

GTA PROJECT NO: 040821-3  
GTA SAMPLE NO: 3  
DATE SAMPLED: 4/6/2021  
TIME SAMPLED: 4:15 PM  
DATE RECEIVED: 4/8/2021  
TIME RECEIVED: 9:17 AM

SAMPLED BY: SEAN CLARK/OMPC

**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		4/8/2021	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	9.3	1.0					
Xylene(Total)	56	3.0					
1,2,4-Trimethylbenzene	28	1.0					
1,3,5-Trimethylbenzene	6.7	1.0					
Methyl-t-Butyl Ether	ND	5.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: BREITBURN OPERATING  
 PROJECT NO: 07-031  
 LOCATION: FORMER BEAVER CREEK TANK BATTERY  
 MI  
 SAMPLE MATRIX: WATER  
 SAMPLE ID: MW-4

GTA PROJECT NO: 040821-3  
 GTA SAMPLE NO: 4  
 DATE SAMPLED: 4/5/2021  
 TIME SAMPLED: 3:25 PM  
 DATE RECEIVED: 4/8/2021  
 TIME RECEIVED: 9:17 AM

SAMPLED BY: SEAN CLARK/OMPC

**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		4/8/2021	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Methyl-t-Butyl Ether	ND	5.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: BREITBURN OPERATING  
 PROJECT NO: 07-031  
 LOCATION: FORMER BEAVER CREEK TANK BATTERY  
 MI  
 SAMPLE MATRIX: WATER  
 SAMPLE ID: MW-5

GTA PROJECT NO: 040821-3  
 GTA SAMPLE NO: 5  
 DATE SAMPLED: 4/6/2021  
 TIME SAMPLED: 3:02 PM  
 DATE RECEIVED: 4/8/2021  
 TIME RECEIVED: 9:17 AM

SAMPLED BY: SEAN CLARK/OMPC

**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		4/8/2021	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Methyl-t-Butyl Ether	ND	5.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: BREITBURN OPERATING  
 PROJECT NO: 07-031  
 LOCATION: FORMER BEAVER CREEK TANK BATTERY  
 MI  
 SAMPLE MATRIX: WATER  
 SAMPLE ID: MW-6A

GTA PROJECT NO: 040821-3  
 GTA SAMPLE NO: 6  
 DATE SAMPLED: 4/6/2021  
 TIME SAMPLED: 3:42 PM  
 DATE RECEIVED: 4/8/2021  
 TIME RECEIVED: 9:17 AM

SAMPLED BY: SEAN CLARK/OMPC

**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	2.3	1.0	ug/L (PPB)	MR		4/8/2021	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	18	3.0					
1,2,4-Trimethylbenzene	53	1.0					
1,3,5-Trimethylbenzene	8.1	1.0					
Methyl-t-Butyl Ether	ND	5.0					
Naphthalene	5.8	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: BREITBURN OPERATING  
 PROJECT NO: 07-031  
 LOCATION: FORMER BEAVER CREEK TANK BATTERY  
 MI  
 SAMPLE MATRIX: WATER  
 SAMPLE ID: MW-8

GTA PROJECT NO: 040821-3  
 GTA SAMPLE NO: 7  
 DATE SAMPLED: 4/5/2021  
 TIME SAMPLED: 3:00 PM  
 DATE RECEIVED: 4/8/2021  
 TIME RECEIVED: 9:17 AM

SAMPLED BY: SEAN CLARK/OMPC

**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		4/8/2021	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Methyl-t-Butyl Ether	ND	5.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.  
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COMPANY: BREITBURN OPERATING  
PROJECT NO: 07-031  
LOCATION: FORMER BEAVER CREEK TANK BATTERY  
MI  
SAMPLE MATRIX: WATER  
SAMPLE ID: MW-9

GTA PROJECT NO: 040821-3  
GTA SAMPLE NO: 8  
DATE SAMPLED: 4/6/2021  
TIME SAMPLED: 4:30 PM  
DATE RECEIVED: 4/8/2021  
TIME RECEIVED: 9:17 AM

SAMPLED BY: SEAN CLARK/OMPC

**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		4/8/2021	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Methyl-t-Butyl Ether	ND	5.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: BREITBURN OPERATING  
 PROJECT NO: 07-031  
 LOCATION: FORMER BEAVER CREEK TANK BATTERY  
 MI  
 SAMPLE MATRIX: WATER  
 SAMPLE ID: MW-10

GTA PROJECT NO: 040821-3  
 GTA SAMPLE NO: 9  
 DATE SAMPLED: 4/6/2021  
 TIME SAMPLED: 4:00 PM  
 DATE RECEIVED: 4/8/2021  
 TIME RECEIVED: 9:17 AM

SAMPLED BY: SEAN CLARK/OMPC

**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		4/8/2021	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Methyl-t-Butyl Ether	ND	5.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: BREITBURN OPERATING  
 PROJECT NO: 07-031  
 LOCATION: FORMER BEAVER CREEK TANK BATTERY  
 MI  
 SAMPLE MATRIX: WATER  
 SAMPLE ID: MW-11

GTA PROJECT NO: 040821-3  
 GTA SAMPLE NO: 10  
 DATE SAMPLED: 4/6/2021  
 TIME SAMPLED: 3:21 PM  
 DATE RECEIVED: 4/8/2021  
 TIME RECEIVED: 9:17 AM

SAMPLED BY: SEAN CLARK/OMPC

**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		4/8/2021	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Methyl-t-Butyl Ether	ND	5.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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

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LOD = LIMIT OF DETECTION

COMPANY: BREITBURN OPERATING  
 PROJECT NO: 07-031  
 LOCATION: FORMER BEAVER CREEK TANK BATTERY  
 MI  
 SAMPLE MATRIX: WATER  
 SAMPLE ID: MW-12

GTA PROJECT NO: 040821-3  
 GTA SAMPLE NO: 11  
 DATE SAMPLED: 4/6/2021  
 TIME SAMPLED: 4:15 PM  
 DATE RECEIVED: 4/8/2021  
 TIME RECEIVED: 9:17 AM

SAMPLED BY: SEAN CLARK/OMPC

**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	2.6	1.0	ug/L (PPB)	MR		4/8/2021	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	21	3.0					
1,2,4-Trimethylbenzene	130	1.0					
1,3,5-Trimethylbenzene	3.2	1.0					
Methyl-t-Butyl Ether	ND	5.0					
Naphthalene	10	5.0					
2-Methylnaphthalene	5.2	5.0					

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COMPANY: BREITBURN OPERATING  
 PROJECT NO: 07-031  
 LOCATION: FORMER BEAVER CREEK TANK BATTERY  
 MI  
 SAMPLE MATRIX: WATER  
 SAMPLE ID: MW-13

GTA PROJECT NO: 040821-3  
 GTA SAMPLE NO: 12  
 DATE SAMPLED: 4/6/2021  
 TIME SAMPLED: 4:30 PM  
 DATE RECEIVED: 4/8/2021  
 TIME RECEIVED: 9:17 AM

SAMPLED BY: SEAN CLARK/OMPC

**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		4/8/2021	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Methyl-t-Butyl Ether	ND	5.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: BREITBURN OPERATING  
 PROJECT NO: 07-031  
 LOCATION: FORMER BEAVER CREEK TANK BATTERY  
 MI  
 SAMPLE MATRIX: WATER  
 SAMPLE ID: MW-14

GTA PROJECT NO: 040821-3  
 GTA SAMPLE NO: 13  
 DATE SAMPLED: 4/5/2021  
 TIME SAMPLED: 4:32 PM  
 DATE RECEIVED: 4/8/2021  
 TIME RECEIVED: 9:17 AM

SAMPLED BY: SEAN CLARK/OMPC

**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		4/8/2021	EPA 5030B
Toluene	2.7	1.0					
Ethylbenzene	35	1.0					
Xylene(Total)	83	3.0					
1,2,4-Trimethylbenzene	18	1.0					
1,3,5-Trimethylbenzene	7.1	1.0					
Methyl-t-Butyl Ether	ND	5.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: BREITBURN OPERATING  
 PROJECT NO: 07-031  
 LOCATION: FORMER BEAVER CREEK TANK BATTERY  
 MI  
 SAMPLE MATRIX: WATER  
 SAMPLE ID: MW-15

GTA PROJECT NO: 040821-3  
 GTA SAMPLE NO: 14  
 DATE SAMPLED: 4/5/2021  
 TIME SAMPLED: 4:57 PM  
 DATE RECEIVED: 4/8/2021  
 TIME RECEIVED: 9:17 AM

SAMPLED BY: SEAN CLARK/OMPC

**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	3.5	1.0	ug/L (PPB)	MR		4/8/2021	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	5.0	3.0					
1,2,4-Trimethylbenzene	4.3	1.0					
1,3,5-Trimethylbenzene	1.7	1.0					
Methyl-t-Butyl Ether	ND	5.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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PH: 231-929-0905

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COMPANY: BREITBURN OPERATING  
 PROJECT NO: 07-031  
 LOCATION: FORMER BEAVER CREEK TANK BATTERY  
 MI  
 SAMPLE MATRIX: WATER  
 SAMPLE ID: MW-16

GTA PROJECT NO: 040821-3  
 GTA SAMPLE NO: 15  
 DATE SAMPLED: 4/5/2021  
 TIME SAMPLED: 4:14 PM  
 DATE RECEIVED: 4/8/2021  
 TIME RECEIVED: 9:17 AM

SAMPLED BY: SEAN CLARK/OMPC

**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		4/8/2021	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Methyl-t-Butyl Ether	ND	5.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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

**CHAIN OF CUSTODY**

PROJECT NUMBER <b>07-031</b>	SITE NAME/ADDRESS <b>Former Beaver Creek Tank Battery</b>	COMPANY/NAME <b>BreitBurn</b>
SAMPLED BY <b>Sean Clark</b>	COMPANY <b>Ottwell Mawby</b>	GTA PROJECT # <b>040821-3</b>

**SAMPLE INFORMATION**

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	MW-1	3/5/21	3:42	H <sub>2</sub> O	ULG
2	MW-2	3/6/21	2:57	H <sub>2</sub> O	ULG
3	MW-3A	3/6/21	4:15	H <sub>2</sub> O	ULG
4	MW-4	3/5/21	3:25	H <sub>2</sub> O	ULG
5	MW-5	3/6/21	3:02	H <sub>2</sub> O	ULG
6	MW-6A	3/6/21	3:42	H <sub>2</sub> O	ULG
7	MW-8	3/5/21	3:00	H <sub>2</sub> O	ULG
8	MW-9	3/6/21	4:30	H <sub>2</sub> O	ULG
9	MW-10	3/6/21	4:00	H <sub>2</sub> O	ULG
10	MW-11	3/6/21	3:21	H <sub>2</sub> O	ULG
11	MW-12	3/6/21	4:15	H <sub>2</sub> O	ULG
12	MW-13	3/6/21	4:30	H <sub>2</sub> O	ULG
13	MW-14	3/5/21	4:32	H <sub>2</sub> O	ULG
14	MW-15	3/5/21	4:57	H <sub>2</sub> O	ULG
15	MW-16	3/5/21	4:14	H <sub>2</sub> O	ULG

**TOP ICE!**

**BILL TO:**

**BreitBurn**

**to 4/1/20**

**REPORT TO:**

**Ottwell Mawby**

**2.5<sup>c</sup>**

RELEASED BY	DATE/TIME	RECEIVED BY	DATE/TIME
<i>Sean Clark</i>	4/8/21 @ 9:17 pm	<i>Trevor Ruel</i>	4-8-21 9:17 am
			re 4.0 <sup>oc</sup> onice

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