

**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

Company: BREITBURN/MAVERICK
Name:
ClientProj:

Site Addr: B2 & B3 INJ. LINE

GTA ProjNo: 110818-5

Sampled By: HASSO/MAVERICK
Date Rec: 11/8/2018
Time Rec: 3:29 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	N1 6' BG	11/8/2018	8:00 AM	SOIL
2	W3 8' BG	11/8/2018	8:10 AM	SOIL
3	W1 8' BG	11/8/2018	8:10 AM	SOIL
4	W2 6' BG	11/8/2018	8:15 AM	SOIL
5	B1 8' BG	11/8/2018	8:15 AM	SOIL
6	BR 8' 12' BG	11/8/2018	8:15 AM	SOIL
7	B4 6' BG	11/8/2018	8:20 AM	SOIL
8	E2 5' BG	11/8/2018	8:30 AM	SOIL
9	B3 4' BG	11/8/2018	8:30 AM	SOIL
10	E1 5' BG	11/8/2018	8:40 AM	SOIL
11	B2 6' BG	11/8/2018	8:40 AM	SOIL
12	S1 6' BG	11/8/2018	8:45 AM	SOIL
13	S2 6' BG	11/8/2018	8:45 AM	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
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SP: 231-590-0291
kirk@gtanalytical.com

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COMPANY: BREITBURN/MAVERICK

GTA PROJECT NO: 110818-5

GTA SAMPLE NO: 1

PROJECT NO:

LOCATION: B2 & B3 INJ. LINE

DATE SAMPLED: 11/8/2018

TIME SAMPLED: 8:00 AM

DATE RECEIVED: 11/8/2018

TIME RECEIVED: 3:29 PM

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: N1 6' BG

SAMPLED BY: HASSO/MAVERICK

**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)	MR	11/8/2018	11/8/2018	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					

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/MAVERICK

GTA PROJECT NO: 110818-5

PROJECT NO:

GTA SAMPLE NO: 2

LOCATION: B2 & B3 INJ. LINE

DATE SAMPLED: 11/8/2018

TIME SAMPLED: 8:10 AM

MI

DATE RECEIVED: 11/8/2018

TIME RECEIVED: 3:29 PM

SAMPLE MATRIX: SOIL

SAMPLE ID: W3 8' BG

SAMPLED BY: HASSO/MAVERICK

**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>
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Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					

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COMPANY: BREITBURN/MAVERICK

GTA PROJECT NO: 110818-5

PROJECT NO:

GTA SAMPLE NO: 3

LOCATION: B2 & B3 INJ. LINE

DATE SAMPLED: 11/8/2018

TIME SAMPLED: 8:10 AM

MI

DATE RECEIVED: 11/8/2018

TIME RECEIVED: 3:29 PM

SAMPLE MATRIX: SOIL

SAMPLE ID: W1 8' BG

SAMPLED BY: HASSO/MAVERICK

**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>
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Ethylbenzene	ND	50					
Xylene(Total)	ND	150					

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COMPANY: BREITBURN/MAVERICK

GTA PROJECT NO: 110818-5

GTA SAMPLE NO: 4

PROJECT NO:

LOCATION: B2 & B3 INJ. LINE

DATE SAMPLED: 11/8/2018

TIME SAMPLED: 8:15 AM

DATE RECEIVED: 11/8/2018

TIME RECEIVED: 3:29 PM

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: W2 6' BG

SAMPLED BY: HASSO/MAVERICK

**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>
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Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					

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COMPANY: BREITBURN/MAVERICK

GTA PROJECT NO: 110818-5

GTA SAMPLE NO: 5

PROJECT NO:

LOCATION: B2 & B3 INJ. LINE

DATE SAMPLED: 11/8/2018

TIME SAMPLED: 8:15 AM

DATE RECEIVED: 11/8/2018

TIME RECEIVED: 3:29 PM

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: B1 8' BG

SAMPLED BY: HASSO/MAVERICK

**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>
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Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					

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LOD = LIMIT OF DETECTION

COMPANY: BREITBURN/MAVERICK

GTA PROJECT NO: 110818-5

GTA SAMPLE NO: 6

PROJECT NO:

LOCATION: B2 & B3 INJ. LINE

DATE SAMPLED: 11/8/2018

TIME SAMPLED: 8:15 AM

DATE RECEIVED: 11/8/2018

TIME RECEIVED: 3:29 PM

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: BR 8' 12' BG

SAMPLED BY: HASSO/MAVERICK

**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>
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Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					

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COMPANY: BREITBURN/MAVERICK

GTA PROJECT NO: 110818-5

PROJECT NO:

GTA SAMPLE NO: 7

LOCATION: B2 & B3 INJ. LINE

DATE SAMPLED: 11/8/2018

TIME SAMPLED: 8:20 AM

MI

DATE RECEIVED: 11/8/2018

TIME RECEIVED: 3:29 PM

SAMPLE MATRIX: SOIL

SAMPLE ID: B4 6' BG

SAMPLED BY: HASSO/MAVERICK

**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>
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Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					

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COMPANY: BREITBURN/MAVERICK

GTA PROJECT NO: 110818-5

GTA SAMPLE NO: 1

NAME:

PROJECT NO:

DATE SAMPLED: 11/8/2018

LOCATION: B2 & B3 INJ. LINE

TIME SAMPLED: 8:00 AM

DATE RECEIVED: 11/8/2018

TIME RECEIVED: 3:29 PM

SAMPLED BY: MI
HASSO/MAVERICK**ORGANICS**

<u>No:</u>	<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>
SAMPLE ID:	N1 6' BG							
SAMPLE MATRIX:	SOIL							
DIESEL RANGE ORGANICS (DRO C10-C20)		ND	4.0	mg/Kg (PPM)	KC/M	11/8/2018	11/9/2018	EPA 3550B
EPA 8015M								

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

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LOD = LIMIT OF DETECTION

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GTA PROJECT NO: 110818-5

GTA SAMPLE NO: 2

NAME:

PROJECT NO:

DATE SAMPLED: 11/8/2018

LOCATION: B2 & B3 INJ. LINE

TIME SAMPLED: 8:10 AM

DATE RECEIVED: 11/8/2018

TIME RECEIVED: 3:29 PM

SAMPLED BY: MI
HASSO/MAVERICK**ORGANICS**

<u>No:</u>	<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>
SAMPLE ID:	W3 8' BG							
SAMPLE MATRIX:	SOIL							
DIESEL RANGE ORGANICS (DRO C10-C20)		ND	4.0	mg/Kg (PPM)	KC/M	11/8/2018	11/9/2018	EPA 3550B
EPA 8015M								

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COMPANY: BREITBURN/MAVERICK

GTA PROJECT NO: 110818-5

GTA SAMPLE NO: 3

NAME:

PROJECT NO:

DATE SAMPLED: 11/8/2018

LOCATION: B2 & B3 INJ. LINE

TIME SAMPLED: 8:10 AM

DATE RECEIVED: 11/8/2018

TIME RECEIVED: 3:29 PM

SAMPLED BY: MI
HASSO/MAVERICK**ORGANICS**

<u>No:</u>	<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>
SAMPLE ID:	W1 8' BG							
SAMPLE MATRIX:	SOIL							
DIESEL RANGE ORGANICS (DRO C10-C20)		ND	4.0	mg/Kg (PPM)	KC/M	11/8/2018	11/9/2018	EPA 3550B
EPA 8015M								

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COMPANY: BREITBURN/MAVERICK

GTA PROJECT NO: 110818-5

GTA SAMPLE NO: 4

NAME:

PROJECT NO:

DATE SAMPLED: 11/8/2018

LOCATION: B2 & B3 INJ. LINE

TIME SAMPLED: 8:15 AM

DATE RECEIVED: 11/8/2018

TIME RECEIVED: 3:29 PM

SAMPLED BY: MI
HASSO/MAVERICK**ORGANICS**

<u>No:</u>	<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>
SAMPLE ID:	W2 6' BG							
SAMPLE MATRIX:	SOIL							
DIESEL RANGE ORGANICS (DRO C10-C20)		ND	4.0	mg/Kg (PPM)	KC/M	11/8/2018	11/9/2018	EPA 3550B
EPA 8015M								

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COMPANY: BREITBURN/MAVERICK

GTA PROJECT NO: 110818-5

GTA SAMPLE NO: 5

NAME:

PROJECT NO:

DATE SAMPLED: 11/8/2018

LOCATION: B2 & B3 INJ. LINE

TIME SAMPLED: 8:15 AM

DATE RECEIVED: 11/8/2018

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SAMPLED BY: MI
HASSO/MAVERICK**ORGANICS**

<u>No:</u>	<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>
SAMPLE ID:	B1 8' BG							
SAMPLE MATRIX:	SOIL							
DIESEL RANGE ORGANICS (DRO C10-C20)	ND	4.0	mg/Kg (PPM)	KC/M	11/8/2018	11/9/2018	EPA 3550B	
EPA 8015M								

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COMPANY: BREITBURN/MAVERICK

GTA PROJECT NO: 110818-5

GTA SAMPLE NO: 6

NAME:

PROJECT NO:

DATE SAMPLED: 11/8/2018

LOCATION: B2 & B3 INJ. LINE

TIME SAMPLED: 8:15 AM

DATE RECEIVED: 11/8/2018

TIME RECEIVED: 3:29 PM

SAMPLED BY: MI
HASSO/MAVERICK**ORGANICS**

<u>No:</u>	<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>
SAMPLE ID:	BR 8' 12' BG							
SAMPLE MATRIX:	SOIL							
DIESEL RANGE ORGANICS (DRO C10-C20)		ND	4.0	mg/Kg (PPM)	KC/M	11/8/2018	11/9/2018	EPA 3550B
EPA 8015M								

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COMPANY: BREITBURN/MAVERICK

GTA PROJECT NO: 110818-5

GTA SAMPLE NO: 7

NAME:

PROJECT NO:

DATE SAMPLED: 11/8/2018

LOCATION: B2 & B3 INJ. LINE

TIME SAMPLED: 8:20 AM

DATE RECEIVED: 11/8/2018

TIME RECEIVED: 3:29 PM

SAMPLED BY: MI
HASSO/MAVERICK**ORGANICS**

<u>No:</u>	<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>
SAMPLE ID:	B4 6' BG							
SAMPLE MATRIX:	SOIL							
DIESEL RANGE ORGANICS (DRO C10-C20)		ND	4.0	mg/Kg (PPM)	KC/M	11/8/2018	11/9/2018	EPA 3550B
EPA 8015M								

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GTA PROJECT NO: 110818-5

PROJECT NO:

GTA SAMPLE NO: 1

LOCATION: B2 & B3 INJ. LINE

DATE SAMPLED: 11/8/2018

TIME SAMPLED: 8:00 AM

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MI

SAMPLED BY: HASSO/MAVERICK

INORGANICS**No: Analysis**

SAMPLE ID: N1 6' BG

CHLORIDE EPA 300.0

Concentration

ND

LOD

25

Units

mg/Kg (PPM)

Analyst

KC

Date

11/9/2018

Sample

SOIL

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

COMPANY: BREITBURN/MAVERICK

GTA PROJECT NO: 110818-5

PROJECT NO:

GTA SAMPLE NO: 2

LOCATION: B2 & B3 INJ. LINE

DATE SAMPLED: 11/8/2018

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MI

SAMPLED BY: HASSO/MAVERICK

INORGANICS

No: Analysis

SAMPLE ID: W3 8' BG

CHLORIDE EPA 300.0

Concentration

LOD

Units

Analyst

Date

Sample

ND

23

mg/Kg (PPM) KC

11/9/2018

SOIL

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

COMPANY: BREITBURN/MAVERICK

GTA PROJECT NO: 110818-5

PROJECT NO:

GTA SAMPLE NO: 3

LOCATION: B2 & B3 INJ. LINE

DATE SAMPLED: 11/8/2018

TIME SAMPLED: 8:10 AM

DATE RECEIVED: 11/8/2018

TIME RECEIVED: 3:29 PM

SAMPLED BY: MI
HASSO/MAVERICK

INORGANICS

<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: W1 8' BG CHLORIDE EPA 300.0	ND	23	mg/Kg (PPM)	KC	11/9/2018	SOIL

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

COMPANY: BREITBURN/MAVERICK

GTA PROJECT NO: 110818-5

PROJECT NO:

GTA SAMPLE NO: 4

LOCATION: B2 & B3 INJ. LINE

DATE SAMPLED: 11/8/2018

TIME SAMPLED: 8:15 AM

DATE RECEIVED: 11/8/2018

TIME RECEIVED: 3:29 PM

MI

SAMPLED BY: HASSO/MAVERICK

INORGANICS

No: Analysis

SAMPLE ID: W2 6' BG

CHLORIDE EPA 300.0

Concentration

ND

LOD

26

Units

mg/Kg (PPM)

Analyst

KC

Date

11/9/2018

Sample

SOIL

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

COMPANY: BREITBURN/MAVERICK

GTA PROJECT NO: 110818-5

GTA SAMPLE NO: 5

PROJECT NO:

LOCATION: B2 & B3 INJ. LINE

DATE SAMPLED: 11/8/2018

TIME SAMPLED: 8:15 AM

DATE RECEIVED: 11/8/2018

TIME RECEIVED: 3:29 PM

MI

SAMPLED BY: HASSO/MAVERICK

INORGANICS

No: Analysis

SAMPLE ID: B1 8' BG

CHLORIDE EPA 300.0

Concentration

ND

LOD

22

Units

mg/Kg (PPM) KC

Analyst

Date

11/9/2018

Sample

SOIL

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

COMPANY: BREITBURN/MAVERICK

GTA PROJECT NO: 110818-5

PROJECT NO:

GTA SAMPLE NO: 6

LOCATION: B2 & B3 INJ. LINE

DATE SAMPLED: 11/8/2018

TIME SAMPLED: 8:15 AM

DATE RECEIVED: 11/8/2018

TIME RECEIVED: 3:29 PM

MI

SAMPLED BY: HASSO/MAVERICK

INORGANICS

No: Analysis

SAMPLE ID: BR 8' 12' BG

CHLORIDE EPA 300.0

Concentration

41

LOD

22

Units

mg/Kg (PPM)

Analyst

KC

Date

11/9/2018

Sample

SOIL

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

COMPANY: BREITBURN/MAVERICK

GTA PROJECT NO: 110818-5

PROJECT NO:

GTA SAMPLE NO: 7

LOCATION: B2 & B3 INJ. LINE

DATE SAMPLED: 11/8/2018

TIME SAMPLED: 8:20 AM

DATE RECEIVED: 11/8/2018

TIME RECEIVED: 3:29 PM

MI

SAMPLED BY: HASSO/MAVERICK

INORGANICS

No: Analysis

SAMPLE ID: B4 6' BG

CHLORIDE EPA 300.0

Concentration

ND

LOD

23

Units

mg/Kg (PPM)

Analyst

KC

Date

11/9/2018

Sample

SOIL

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

COMPANY: BREITBURN/MAVERICK
PROJECT NO:
LOCATION: B2 & B3 INJ. LINE
MI
SAMPLED BY: HASSO/MAVERICK

GTA PROJECT NO: 110818-5
GTA SAMPLE NO: 8
DATE SAMPLED: 11/8/2018
TIME SAMPLED: 8:30 AM
DATE RECEIVED: 11/8/2018
TIME RECEIVED: 3:29 PM

INORGANICS

<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: E2 5'	BG						
CHLORIDE EPA 300.0		201	25	mg/Kg (PPM)	KC	11/9/2018	SOIL

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

COMPANY: BREITBURN/MAVERICK

GTA PROJECT NO: 110818-5

PROJECT NO:

GTA SAMPLE NO: 9

LOCATION: B2 & B3 INJ. LINE

DATE SAMPLED: 11/8/2018

TIME SAMPLED: 8:30 AM

DATE RECEIVED: 11/8/2018

TIME RECEIVED: 3:29 PM

MI

SAMPLED BY: HASSO/MAVERICK

INORGANICS

No: Analysis

SAMPLE ID: B3 4' BG

CHLORIDE EPA 300.0

Concentration

ND

LOD

24

Units

mg/Kg (PPM)

Analyst

KC

Date

11/9/2018

Sample

SOIL

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

COMPANY: BREITBURN/MAVERICK

GTA PROJECT NO: 110818-5

GTA SAMPLE NO: 10

PROJECT NO:

LOCATION: B2 & B3 INJ. LINE

DATE SAMPLED: 11/8/2018

TIME SAMPLED: 8:40 AM

DATE RECEIVED: 11/8/2018

TIME RECEIVED: 3:29 PM

MI

SAMPLED BY: HASSO/MAVERICK

INORGANICS

No: Analysis

SAMPLE ID: E1 5' BG

CHLORIDE EPA 300.0

Concentration

LOD

Units

Analyst

Date

Sample

ND

25

mg/Kg (PPM) KC

11/9/2018

SOIL

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

COMPANY: BREITBURN/MAVERICK

GTA PROJECT NO: 110818-5

GTA SAMPLE NO: 11

PROJECT NO:

LOCATION: B2 & B3 INJ. LINE

DATE SAMPLED: 11/8/2018

TIME SAMPLED: 8:40 AM

DATE RECEIVED: 11/8/2018

TIME RECEIVED: 3:29 PM

MI

SAMPLED BY: HASSO/MAVERICK

INORGANICS

No: Analysis

SAMPLE ID: B2 6' BG

CHLORIDE EPA 300.0

Concentration

ND

LOD

24

Units

mg/Kg (PPM)

Analyst

KC

Date

11/9/2018

Sample

SOIL

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

COMPANY: BREITBURN/MAVERICK

GTA PROJECT NO: 110818-5

GTA SAMPLE NO: 12

PROJECT NO:

LOCATION: B2 & B3 INJ. LINE

DATE SAMPLED: 11/8/2018

TIME SAMPLED: 8:45 AM

DATE RECEIVED: 11/8/2018

TIME RECEIVED: 3:29 PM

MI

SAMPLED BY: HASSO/MAVERICK

INORGANICS

No: Analysis

SAMPLE ID: S1 6' BG

CHLORIDE EPA 300.0

Concentration

LOD

Units

Analyst

Date

Sample

ND

23

mg/Kg (PPM) KC

11/9/2018

SOIL

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

COMPANY: BREITBURN/MAVERICK

GTA PROJECT NO: 110818-5

PROJECT NO:

GTA SAMPLE NO: 13

LOCATION: B2 & B3 INJ. LINE

DATE SAMPLED: 11/8/2018

TIME SAMPLED: 8:45 AM

DATE RECEIVED: 11/8/2018

TIME RECEIVED: 3:29 PM

MI

SAMPLED BY: HASSO/MAVERICK

INORGANICS

No: Analysis

SAMPLE ID: S2 6' BG

CHLORIDE EPA 300.0

Concentration

LOD

Units

Analyst

Date

Sample

ND

25

mg/Kg (PPM) KC

11/9/2018

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/MAVERICK

GTA PROJECT NO: 110818-5

NAME:

SAMPLED BY: HASSO/MAVERICK

PROJECT NO:

DATE SAMPLED: 11/8/2018

TIME SAMPLED: 8:00 AM

LOCATION: B2 & B3 INJ. LINE

SAMPLE MATRIX: SOIL

DATE RECEIVED: 11/8/2018

TIME RECEIVED: 3:29 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: N1 6' BG	% MOISTURE EPA 3550C	5.5	0.050	% OF SAMPLE	AS	11/8/2018
SAMPLE ID: W3 8' BG	% MOISTURE EPA 3550C	6.2	0.050	% OF SAMPLE	AS	11/8/2018
SAMPLE ID: W1 8' BG	% MOISTURE EPA 3550C	4.6	0.050	% OF SAMPLE	AS	11/8/2018
SAMPLE ID: W2 6' BG	% MOISTURE EPA 3550C	5.8	0.050	% OF SAMPLE	AS	11/8/2018
SAMPLE ID: B1 8' BG	% MOISTURE EPA 3550C	3.5	0.050	% OF SAMPLE	AS	11/8/2018
SAMPLE ID: BR 8' 12' BG	% MOISTURE EPA 3550C	3.7	0.050	% OF SAMPLE	AS	11/8/2018
SAMPLE ID: B4 6' BG	% MOISTURE EPA 3550C	3.6	0.050	% OF SAMPLE	AS	11/8/2018
SAMPLE ID: E2 5' BG	% MOISTURE EPA 3550C	4.6	0.050	% OF SAMPLE	AS	11/8/2018
SAMPLE ID: B3 4' BG	% MOISTURE EPA 3550C	5.9	0.050	% OF SAMPLE	AS	11/8/2018
SAMPLE ID: E1 5' BG	% MOISTURE EPA 3550C	5.7	0.050	% OF SAMPLE	AS	11/8/2018
SAMPLE ID: B2 6' BG	% MOISTURE EPA 3550C	6.1	0.050	% OF SAMPLE	AS	11/8/2018
SAMPLE ID: S1 6' BG	% MOISTURE EPA 3550C	5.8	0.050	% OF SAMPLE	AS	11/8/2018
SAMPLE ID: S2 6' BG	% MOISTURE EPA 3550C	4.6	0.050	% OF SAMPLE	AS	11/8/2018

CHAIN OF CUSTODY

PROJECT NUMBER	SITE NAME/ADDRESS	COMPANY/NAME
	B2+B3 Inj. Line	Breitbart/Maverick
SAMPLED BY	COMPANY	GTA PROJECT #
Hasso	Maverick	1108/8-5

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	#1 N1 6' BG	11/18/18	8:00	Soil	CI, BTEX, DRG
2	#2 W3 8' BG	"	8:10	"	"
3	#3 W1 8' BG	"	8:10	"	"
4	#4 W2 6' BG	"	8:15	"	"
5	#5 B1 8' BG	"	8:15	"	"
6	#6 BR 8' 12' BG	"	8:15	"	"
7	#7 B4 6' BG	"	8:20	"	"
8	#8 E2 5' BG	"	8:30	"	CI Only
9	#9 B3 4' BG	"	8:30	"	CI Only
10	#10 E1 5' BG	"	8:40	"	CI Only
11	#11 B2 6' BG	"	8:40	"	CI Only
12	#12 S1 6' BG	"	8:45	"	CI Only
13	#13 S2 6' BG	"	8:45	"	CI Only

BILL TO:

Breitbart/Maverick

REPORT TO:

Breitbart/Maverick

RELEASED BY

DATE/TIME

C. Glass

11/18/18 @ 12:30pm

C. Glass

11/18/18 @ 3:29pm

RECEIVED BY

DATE/TIME

C. Glass

11/18/18 @ 12:30pm

Don

11/18/18 3:29

recovered

REQUESTED TAT

☐ STANDARD

☒ 1 BUSINESS DAY

☐ 2 BUSINESS DAYS

☐ 3 BUSINESS DAYS