



**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: BCOC  
Name:  
ClientProj: 4035  
GTA ProjNo: 112320-2

Site Addr: SPIRIT OF ONEKAMA  
5028 MAIN ST.  
ONEKAMA  
Sampled By: DOUG HULL/COMPLIANCE INC.  
Date Rec: 11/23/2020  
Time Rec: 3:45 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	EX-1 SE	11/20/2020	9:20 AM	SOIL
2	EX-1 SW	11/20/2020	9:30 AM	SOIL
3	EX-1 E	11/20/2020	10:14 AM	SOIL
4	EX-1 W	11/20/2020	10:30 AM	SOIL
5	EX-2 E	11/20/2020	11:00 AM	SOIL
6	EX-2 SW	11/20/2020	11:10 AM	SOIL
7	EX-2 W	11/20/2020	11:40 AM	SOIL
8	EX-2 SE	11/20/2020	11:50 AM	SOIL

ELECTRONIC SIGNITURE 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](mailto:kirk@gtanalytical.com)



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COMPANY: BCOC  
 PROJECT NO: 4035  
 LOCATION: SPIRIT OF ONEKAMA  
 5028 MAIN ST.  
 ONEKAMA  
 MI  
 SAMPLE MATRIX: SOIL  
 SAMPLE ID: EX-1 SE

GTA PROJECT NO: 112320-2  
 GTA SAMPLE NO: 1  
 DATE SAMPLED: 11/20/2020  
 TIME SAMPLED: 9:20 AM  
 DATE RECEIVED: 11/23/2020  
 TIME RECEIVED: 3:45 PM

SAMPLED BY: DOUG HULL/COMPLIANCE INC.  
 \*\*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>Completed</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB)	MR	11/20/2020	11/26/2020	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	200	150					
1,2,4-Trimethylbenzene	460	50					
1,3,5-Trimethylbenzene	1,200	50					
Methyl-t-Butyl Ether	ND	250					
Naphthalene	270	250					
2-Methylnaphthalene	840	250					

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

COMPANY: BCOC  
PROJECT NO: 4035  
LOCATION: SPIRIT OF ONEKAMA  
5028 MAIN ST.  
ONEKAMA  
MI

GTA PROJECT NO: 112320-2  
GTA SAMPLE NO: 2

DATE SAMPLED: 11/20/2020  
TIME SAMPLED: 9:30 AM  
DATE RECEIVED: 11/23/2020  
TIME RECEIVED: 3:45 PM

SAMPLE MATRIX: SOIL  
SAMPLE ID: EX-1 SW

SAMPLED BY: DOUG HULL/COMPLIANCE INC.  
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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>Completed</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB)	MR	11/20/2020	11/26/2020	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Methyl-t-Butyl Ether	ND	250					
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: BCOC  
 PROJECT NO: 4035  
 LOCATION: SPIRIT OF ONEKAMA  
 5028 MAIN ST.  
 ONEKAMA  
 MI  
 SAMPLE MATRIX: SOIL  
 SAMPLE ID: EX-1 E

GTA PROJECT NO: 112320-2  
 GTA SAMPLE NO: 3  
 DATE SAMPLED: 11/20/2020  
 TIME SAMPLED: 10:14 AM  
 DATE RECEIVED: 11/23/2020  
 TIME RECEIVED: 3:45 PM

SAMPLED BY: DOUG HULL/COMPLIANCE INC.  
 \*\*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>Completed</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB)	MR	11/20/2020	11/26/2020	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Methyl-t-Butyl Ether	ND	250					
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: BCOC  
 PROJECT NO: 4035  
 LOCATION: SPIRIT OF ONEKAMA  
 5028 MAIN ST.  
 ONEKAMA  
 MI  
 SAMPLE MATRIX: SOIL  
 SAMPLE ID: EX-1 W

GTA PROJECT NO: 112320-2  
 GTA SAMPLE NO: 4  
 DATE SAMPLED: 11/20/2020  
 TIME SAMPLED: 10:30 AM  
 DATE RECEIVED: 11/23/2020  
 TIME RECEIVED: 3:45 PM

SAMPLED BY: DOUG HULL/COMPLIANCE INC.  
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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>Completed</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB)	MR	11/20/2020	11/26/2020	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Methyl-t-Butyl Ether	ND	250					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

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COMPANY: BCOC  
 PROJECT NO: 4035  
 LOCATION: SPIRIT OF ONEKAMA  
 5028 MAIN ST.  
 ONEKAMA  
 MI  
 SAMPLE MATRIX: SOIL  
 SAMPLE ID: EX-2 E

GTA PROJECT NO: 112320-2  
 GTA SAMPLE NO: 5  
 DATE SAMPLED: 11/20/2020  
 TIME SAMPLED: 11:00 AM  
 DATE RECEIVED: 11/23/2020  
 TIME RECEIVED: 3:45 PM

SAMPLED BY: DOUG HULL/COMPLIANCE INC.  
 \*\*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>Completed</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB)	MR	11/20/2020	11/26/2020	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Methyl-t-Butyl Ether	ND	250					
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: BCOC  
 PROJECT NO: 4035  
 LOCATION: SPIRIT OF ONEKAMA  
 5028 MAIN ST.  
 ONEKAMA  
 MI  
 SAMPLE MATRIX: SOIL  
 SAMPLE ID: EX-2 SW

GTA PROJECT NO: 112320-2  
 GTA SAMPLE NO: 6  
 DATE SAMPLED: 11/20/2020  
 TIME SAMPLED: 11:10 AM  
 DATE RECEIVED: 11/23/2020  
 TIME RECEIVED: 3:45 PM

SAMPLED BY: DOUG HULL/COMPLIANCE INC.  
 \*\*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>Completed</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB)	MR	11/20/2020	11/26/2020	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Methyl-t-Butyl Ether	ND	250					
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: BCOC  
PROJECT NO: 4035  
LOCATION: SPIRIT OF ONEKAMA  
5028 MAIN ST.  
ONEKAMA  
MI

GTA PROJECT NO: 112320-2  
GTA SAMPLE NO: 7

DATE SAMPLED: 11/20/2020  
TIME SAMPLED: 11:40 AM  
DATE RECEIVED: 11/23/2020  
TIME RECEIVED: 3:45 PM

SAMPLE MATRIX: SOIL  
SAMPLE ID: EX-2 W

SAMPLED BY: DOUG HULL/COMPLIANCE INC.  
\*\*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>Completed</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB)	MR	11/20/2020	11/26/2020	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Methyl-t-Butyl Ether	ND	250					
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: BCOC  
PROJECT NO: 4035  
LOCATION: SPIRIT OF ONEKAMA  
5028 MAIN ST.  
ONEKAMA  
MI  
SAMPLE MATRIX: SOIL  
SAMPLE ID: EX-2 SE

GTA PROJECT NO: 112320-2  
GTA SAMPLE NO: 8  
DATE SAMPLED: 11/20/2020  
TIME SAMPLED: 11:50 AM  
DATE RECEIVED: 11/23/2020  
TIME RECEIVED: 3:45 PM

SAMPLED BY: DOUG HULL/COMPLIANCE INC.  
\*\*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>Completed</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB)	MR	11/20/2020	11/26/2020	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Methyl-t-Butyl Ether	ND	250					
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: BCOG

NAME:  
PROJECT NO: 4035

LOCATION: SPIRIT OF ONEKAMA  
5028 MAIN ST.  
ONEKAMA  
MI

GTA PROJECT NO: 112320-2  
SAMPLED BY: DOUG HULL/COMPLIANCE INC.

DATE SAMPLED: 11/20/2020  
TIME SAMPLED: 9:20 AM

SAMPLE SOIL

DATE RECEIVED: 11/23/2020  
TIME RECEIVED: 3:45 PM

**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: EX-1 SE % MOISTURE EPA 3550C	14	0.050	% OF SAMPLE	AS	11/23/2020
SAMPLE ID: EX-1 SW % MOISTURE EPA 3550C	14	0.050	% OF SAMPLE	AS	11/23/2020
SAMPLE ID: EX-1 E % MOISTURE EPA 3550C	14	0.050	% OF SAMPLE	AS	11/23/2020
SAMPLE ID: EX-1 W % MOISTURE EPA 3550C	7.0	0.050	% OF SAMPLE	AS	11/23/2020
SAMPLE ID: EX-2 E % MOISTURE EPA 3550C	5.6	0.050	% OF SAMPLE	AS	11/23/2020
SAMPLE ID: EX-2 SW % MOISTURE EPA 3550C	9.5	0.050	% OF SAMPLE	AS	11/23/2020
SAMPLE ID: EX-2 W % MOISTURE EPA 3550C	10	0.050	% OF SAMPLE	AS	11/23/2020
SAMPLE ID: EX-2 SE % MOISTURE EPA 3550C	15	0.050	% OF SAMPLE	AS	11/23/2020

### CHAIN OF CUSTODY

PROJECT NUMBER <b>4035</b>	SITE NAME/ADDRESS <i>Spirit of Onekama 5028 Main St., Onekama, MI</i>	COMPANY/NAME <i>Blarney Castle Oil Co.</i>
SAMPLED BY <i>Doug Hull</i>	COMPANY <i>Compliance, Inc.</i>	GTA PROJECT # <i>112320-2</i>

### SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
-	EX-1 SE	11-20-20	9:20 A	Soil	(A) BTEX
-	EX-1 SW	↓	9:30 A	↓	(A) MTBE
-	EX-1 E		10:14 A		(A) (A) Naphthalene
-	EX-1 W		10:30 A		(A) (A) 2-Methylnaphthalene
-	EX-2 E		11:00 A		(A) 1,2,4-TMB
-	EX-2 SW		11:10 A		(A) 1,3,5-TMB
-	EX-2 W		11:40 A		(A)
-	EX-2 SE		11:50 A		(A)

BILL TO:

*Compliance, Inc.*

REPORT TO:

*Doug Hull*

RELEASED BY

DATE/TIME

RECEIVED BY

DATE/TIME

*Doug Hull* 11-20-20 5:20 PM

*Compliance, Inc. 4°C Storage* 11-20-20 5:20 PM

*Compliance, Inc. 4°C Storage* 11-23-20 3:25 PM

*Doug Hull* 11-23-20 3:25 PM

*Doug Hull* 11-23-20 3:45 PM

*Doug Hull* 11/23/20 3:45 rec 4.0°C ONCE

REQUESTED TAT

STANDARD

1 BUSINESS DAY

2 BUSINESS DAYS

3 BUSINESS DAYS