



Cranmer Engineering, Inc.
Integrated Engineering Services

Sample Results

Paradise Irrigation District
ATTN Jason Bell
6332 Clark Road
Paradise, CA 95969

Work Order: GBC0365
Received: 03/08/19 11:53
Reported: 03/18/19 16:22

Camp Fire

Term and Qualifier Definitions

Item	Definition
ND	None detected at or above the reporting limit

Integrating people, land and water.

1188 East Main Street, Grass Valley, CA 95945

Phone: (530) 273-7284 | Fax: (530) 273-9507 | www.cranmerengineeringinc.com | E.L.A.P. Certification No. 1936

Sampling • Analytical Testing • Courier Service • System Operators • Engineering • Surveying • Technical Reporting • Planning • Construction Mgmt.

Subcontracted Analyses

Sample Site: 786 ROE
Sample Number GBC0365-01
Source Type: Surface

Date Collected: 3/7/2019 10:20:00AM
Collected by: BT
Title 22 Designation:

Analyzing Laboratory: North Coast Laboratories LTD
Analysis Volatile Organic Compounds (VOCs)

Report with Method References attached.

Sample Site: 5276 Buckboard Ln
Sample Number GBC0365-02
Source Type: Surface

Date Collected: 3/7/2019 10:30:00AM
Collected by: BT
Title 22 Designation:

Analyzing Laboratory: North Coast Laboratories LTD
Analysis Volatile Organic Compounds (VOCs)

Report with Method References attached.

Sample Site: 5280 Buckboard Ln
Sample Number GBC0365-03
Source Type: Surface

Date Collected: 3/7/2019 10:35:00AM
Collected by: BT
Title 22 Designation:

Analyzing Laboratory: North Coast Laboratories LTD
Analysis Volatile Organic Compounds (VOCs)

Report with Method References attached.

Sample Site: 5290 Buckboard Ln
Sample Number GBC0365-04
Source Type: Surface

Date Collected: 3/7/2019 10:40:00AM
Collected by: BT
Title 22 Designation:

Analyzing Laboratory: North Coast Laboratories LTD
Analysis Volatile Organic Compounds (VOCs)

Report with Method References attached.

Sample Site: Blow Off Buck Board Ln.
Sample Number GBC0365-05
Source Type: Surface

Date Collected: 3/7/2019 10:45:00AM
Collected by: BT
Title 22 Designation:

Analyzing Laboratory: North Coast Laboratories LTD
Analysis Volatile Organic Compounds (VOCs)

Report with Method References attached.

Sample Site: 602 Boquest
Sample Number GBC0365-06
Source Type: Surface

Date Collected: 3/7/2019 11:30:00AM
Collected by: BT
Title 22 Designation:

Analyzing Laboratory: North Coast Laboratories LTD
Analysis Volatile Organic Compounds (VOCs)

Report with Method References attached.

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Sample Site: Becker Way Blow Off
Sample Number GBC0365-07
Source Type: Surface

Date Collected: 3/7/2019 11:50:00AM
Collected by: BT
Title 22 Designation:

Analyzing Laboratory: North Coast Laboratories LTD
Analysis Volatile Organic Compounds (VOCs)

Report with Method References attached.

Sample Site: 6231 Becker
Sample Number GBC0365-08
Source Type: Surface

Date Collected: 3/7/2019 12:00:00PM
Collected by: BT
Title 22 Designation:

Analyzing Laboratory: North Coast Laboratories LTD
Analysis Volatile Organic Compounds (VOCs)

Report with Method References attached.

Sample Site: 6229 Becker
Sample Number GBC0365-09
Source Type: Surface

Date Collected: 3/7/2019 12:05:00PM
Collected by: BT
Title 22 Designation:

Analyzing Laboratory: North Coast Laboratories LTD
Analysis Volatile Organic Compounds (VOCs)

Report with Method References attached.

Sample Site: Boquest Blow Off
Sample Number GBC0365-10
Source Type: Surface

Date Collected: 3/7/2019 1:20:00PM
Collected by: BT
Title 22 Designation:

Analyzing Laboratory: North Coast Laboratories LTD
Analysis Volatile Organic Compounds (VOCs)

Report with Method References attached.



Justin Smith

Director

Integrating people, land and water.

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1188 East Main Street Grass Valley, CA 95945
Phone: (530) 273-7284
Email: lab@cranmerengineering.com

Required Fields*

Temp:

Report Attention*:

Invoice To*:

PO#:

Phone*: 530-521-6109 Fax:

Additional cc's:

State*:

City*:

Zip*:

Company/Client Name*:
Paradise Irrigation District
6332 Clark Road
Paradise, CA 95969-4146

Address*:

Project #:

Reporting Options:
☐ EDT Type:

Regulatory Carbon Copies
Yes / No

Agency

Regulatory Compliance
☐ EDT to California SWRCB
System Number*:
☐ Geotracker #:

Matrix Types:
A= Cold
B= HNO₃
C= HCL
D= H₂SO₄
E= NaOH
F= NaThio
G= H₂PO₄
H= NH₄CL

Analysis Required

Sample Descriptions

Matrix* Comments/Station Code/WTRAX

Sampled*
Date Time

Preservation

Relinquished By: (Signature and Printed Name)

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**NORTH COAST
LABORATORIES LTD.**

March 15, 2019

Cranmer Analytical Laboratory
1188 E. Main St
Grass Valley, CA 95945

Attn: Michelle Harlin

Order No.: 1903185
Invoice No.: 145319
PO No.:
ELAP No.1247-Expires July 2020

RE: GBC0365

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	GBC0365-01 786 ROE
02A	GBC0365-02 5276 Buckboard Ln
03A	GBC0365-03 5280 Buckboard Ln
04A	GBC0365-04 5290 Buckboard Ln
05A	GBC0365-05 Blow Off Buck Board Ln
06A	GBC0365-06 602 Boquest
07A	GBC0365-07 Becker Way Blow Off
08A	GBC0365-08 6231 Becker
09A	GBC0365-09 6229 Becker
10A	GBC0365-10 Boquest Blow Off

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

Flag = Explanation in Case Narrative

All solid results are expressed on a wet-weight basis unless otherwise noted.

Approved for release by:

Roxanne Moore, Project Manager

Date: 15-Mar-2019
WorkOrder: 1903185

CASE NARRATIVE

EPA 524.2:

The laboratory control sample (LCS) recoveries were above the upper acceptance limits for chloromethane and chloroethane. The elevated recoveries equate to a high bias. There were no detectable levels of these analytes in the sample; therefore, the data were accepted.

The laboratory control sample (LCS) recoveries were below the lower acceptance limits for tert-butyl alcohol, 1,1,2,2-tetrachloroethane, 1,2,3-trichloropropane and naphthalene. The response of the reporting limit standard was such that the analytes would have been detected even with the low recoveries; therefore, the data were accepted.

Date: 15-Mar-2019

WorkOrder: 1903185

ANALYTICAL REPORT

Client Sample ID: GBC0365-01 786 ROE

Received: 3/9/2019

Lab ID: 1903185-01A

Collected: 3/7/2019 10:20

Test Name: EPA 524.2

Reference: EPA 524.2

<u>Parameter</u>	<u>Result</u>	<u>Flag</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Dichlorodifluoromethane	ND		0.50	µg/L	1.0		3/13/2019
Chloromethane	ND		0.50	µg/L	1.0		3/13/2019
Vinyl Chloride	ND		0.50	µg/L	1.0		3/13/2019
Bromomethane	ND		0.50	µg/L	1.0		3/13/2019
Chloroethane	ND		0.50	µg/L	1.0		3/13/2019
Trichlorofluoromethane	ND		0.50	µg/L	1.0		3/13/2019
1,1-Dichloroethene	ND		0.50	µg/L	1.0		3/13/2019
1,1,2-Trichlorotrifluoroethane	ND		0.50	µg/L	1.0		3/13/2019
Methylene Chloride	ND		0.50	µg/L	1.0		3/13/2019
trans-1,2-Dichloroethene	ND		0.50	µg/L	1.0		3/13/2019
Methyl tert-butyl ether (MTBE)	ND		3.0	µg/L	1.0		3/13/2019
Tert-butyl alcohol (TBA)	ND		15	µg/L	1.0		3/13/2019
Di-isopropyl ether (DIPE)	ND		3.0	µg/L	1.0		3/13/2019
1,1-Dichloroethane	ND		0.50	µg/L	1.0		3/13/2019
Ethyl tert-butyl ether (ETBE)	ND		3.0	µg/L	1.0		3/13/2019
cis-1,2-Dichloroethene	ND		0.50	µg/L	1.0		3/13/2019
2,2-Dichloropropane	ND		0.50	µg/L	1.0		3/13/2019
Bromochloromethane	ND		0.50	µg/L	1.0		3/13/2019
Chloroform	35		0.50	µg/L	1.0		3/13/2019
Carbon tetrachloride	ND		0.50	µg/L	1.0		3/13/2019
1,1,1-Trichloroethane	ND		0.50	µg/L	1.0		3/13/2019
1,1-Dichloropropene	ND		0.50	µg/L	1.0		3/13/2019
Benzene	ND		0.50	µg/L	1.0		3/13/2019
1,2-Dichloroethane	ND		0.50	µg/L	1.0		3/13/2019
Tert-amyl methyl ether (TAME)	ND		3.0	µg/L	1.0		3/13/2019
Trichloroethene	ND		0.50	µg/L	1.0		3/13/2019
Dibromomethane	ND		0.50	µg/L	1.0		3/13/2019
1,2-Dichloropropane	ND		0.50	µg/L	1.0		3/13/2019
Bromodichloromethane	2.5		0.50	µg/L	1.0		3/13/2019
cis-1,3-Dichloropropene	ND		0.50	µg/L	1.0		3/13/2019
Toluene	ND		0.50	µg/L	1.0		3/13/2019
Tetrachloroethene	ND		0.50	µg/L	1.0		3/13/2019
trans-1,3-Dichloropropene	ND		0.50	µg/L	1.0		3/13/2019
1,1,2-Trichloroethane	ND		0.50	µg/L	1.0		3/13/2019
Dibromochloromethane	ND		0.50	µg/L	1.0		3/13/2019
1,3-Dichloropropane	ND		0.50	µg/L	1.0		3/13/2019
Chlorobenzene	ND		0.50	µg/L	1.0		3/13/2019
Ethylbenzene	ND		0.50	µg/L	1.0		3/13/2019
1,1,1,2-Tetrachloroethane	ND		0.50	µg/L	1.0		3/13/2019
m,p-Xylene	ND		0.50	µg/L	1.0		3/13/2019
o-Xylene	ND		0.50	µg/L	1.0		3/13/2019
Bromoform	ND		0.50	µg/L	1.0		3/13/2019
Styrene	ND		0.50	µg/L	1.0		3/13/2019
Isopropylbenzene	1.3		0.50	µg/L	1.0		3/13/2019
Bromobenzene	ND		0.50	µg/L	1.0		3/13/2019
n-Propylbenzene	ND		0.50	µg/L	1.0		3/13/2019
1,1,2,2-Tetrachloroethane	ND		0.50	µg/L	1.0		3/13/2019

Date: 15-Mar-2019

WorkOrder: 1903185

ANALYTICAL REPORT

Client Sample ID: GBC0365-01 786 ROE

Received: 3/9/2019

Lab ID: 1903185-01A

Collected: 3/7/2019 10:20

2-Chlorotoluene	ND	0.50	µg/L	1.0	3/13/2019
1,2,3-Trichloropropane	ND	0.50	µg/L	1.0	3/13/2019
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1.0	3/13/2019
4-Chlorotoluene	ND	0.50	µg/L	1.0	3/13/2019
tert-Butylbenzene	ND	0.50	µg/L	1.0	3/13/2019
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1.0	3/13/2019
sec-Butylbenzene	ND	0.50	µg/L	1.0	3/13/2019
p-Isopropyltoluene	ND	0.50	µg/L	1.0	3/13/2019
1,3-Dichlorobenzene	ND	0.50	µg/L	1.0	3/13/2019
1,4-Dichlorobenzene	ND	0.50	µg/L	1.0	3/13/2019
n-Butylbenzene	ND	0.50	µg/L	1.0	3/13/2019
1,2-Dichlorobenzene	ND	0.50	µg/L	1.0	3/13/2019
Hexachlorobutadiene	ND	0.50	µg/L	1.0	3/13/2019
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1.0	3/13/2019
Naphthalene	ND	0.50	µg/L	1.0	3/13/2019
1,2,3-Trichlorobenzene	ND	0.50	µg/L	1.0	3/13/2019
Surrogate: 1,2-Dichlorobenzene-d4	104	70-130	% Rec	1.0	3/13/2019
Surrogate: Dibromofluoromethane	107	70-130	% Rec	1.0	3/13/2019

Date: 15-Mar-2019

WorkOrder: 1903185

ANALYTICAL REPORT

Client Sample ID: GBC0365-02 5276 Buckboard Ln

Received: 3/9/2019

Lab ID: 1903185-02A

Collected: 3/7/2019 10:30

Test Name: EPA 524.2

Reference: EPA 524.2

<u>Parameter</u>	<u>Result</u>	<u>Flag</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Dichlorodifluoromethane	ND		0.50	µg/L	1.0		3/13/2019
Chloromethane	ND		0.50	µg/L	1.0		3/13/2019
Vinyl Chloride	ND		0.50	µg/L	1.0		3/13/2019
Bromomethane	ND		0.50	µg/L	1.0		3/13/2019
Chloroethane	ND		0.50	µg/L	1.0		3/13/2019
Trichlorofluoromethane	ND		0.50	µg/L	1.0		3/13/2019
1,1-Dichloroethene	ND		0.50	µg/L	1.0		3/13/2019
1,1,2-Trichlorotrifluoroethane	ND		0.50	µg/L	1.0		3/13/2019
Methylene Chloride	ND		0.50	µg/L	1.0		3/13/2019
trans-1,2-Dichloroethene	ND		0.50	µg/L	1.0		3/13/2019
Methyl tert-butyl ether (MTBE)	ND		3.0	µg/L	1.0		3/13/2019
Tert-butyl alcohol (TBA)	ND		15	µg/L	1.0		3/13/2019
Di-isopropyl ether (DIPE)	ND		3.0	µg/L	1.0		3/13/2019
1,1-Dichloroethane	ND		0.50	µg/L	1.0		3/13/2019
Ethyl tert-butyl ether (ETBE)	ND		3.0	µg/L	1.0		3/13/2019
cis-1,2-Dichloroethene	ND		0.50	µg/L	1.0		3/13/2019
2,2-Dichloropropane	ND		0.50	µg/L	1.0		3/13/2019
Bromochloromethane	ND		0.50	µg/L	1.0		3/13/2019
Chloroform	39		0.50	µg/L	1.0		3/13/2019
Carbon tetrachloride	ND		0.50	µg/L	1.0		3/13/2019
1,1,1-Trichloroethane	ND		0.50	µg/L	1.0		3/13/2019
1,1-Dichloropropene	ND		0.50	µg/L	1.0		3/13/2019
Benzene	ND		0.50	µg/L	1.0		3/13/2019
1,2-Dichloroethane	ND		0.50	µg/L	1.0		3/13/2019
Tert-amyl methyl ether (TAME)	ND		3.0	µg/L	1.0		3/13/2019
Trichloroethene	ND		0.50	µg/L	1.0		3/13/2019
Dibromomethane	ND		0.50	µg/L	1.0		3/13/2019
1,2-Dichloropropane	ND		0.50	µg/L	1.0		3/13/2019
Bromodichloromethane	3.0		0.50	µg/L	1.0		3/13/2019
cis-1,3-Dichloropropene	ND		0.50	µg/L	1.0		3/13/2019
Toluene	ND		0.50	µg/L	1.0		3/13/2019
Tetrachloroethene	ND		0.50	µg/L	1.0		3/13/2019
trans-1,3-Dichloropropene	ND		0.50	µg/L	1.0		3/13/2019
1,1,2-Trichloroethane	ND		0.50	µg/L	1.0		3/13/2019
Dibromochloromethane	ND		0.50	µg/L	1.0		3/13/2019
1,3-Dichloropropane	ND		0.50	µg/L	1.0		3/13/2019
Chlorobenzene	ND		0.50	µg/L	1.0		3/13/2019
Ethylbenzene	ND		0.50	µg/L	1.0		3/13/2019
1,1,1,2-Tetrachloroethane	ND		0.50	µg/L	1.0		3/13/2019
m,p-Xylene	ND		0.50	µg/L	1.0		3/13/2019
o-Xylene	ND		0.50	µg/L	1.0		3/13/2019
Bromoform	ND		0.50	µg/L	1.0		3/13/2019
Styrene	ND		0.50	µg/L	1.0		3/13/2019
Isopropylbenzene	ND		0.50	µg/L	1.0		3/13/2019
Bromobenzene	ND		0.50	µg/L	1.0		3/13/2019
n-Propylbenzene	ND		0.50	µg/L	1.0		3/13/2019
1,1,2,2-Tetrachloroethane	ND		0.50	µg/L	1.0		3/13/2019

Date: 15-Mar-2019

WorkOrder: 1903185

ANALYTICAL REPORT

Client Sample ID: GBC0365-02 5276 Buckboard Ln

Received: 3/9/2019

Lab ID: 1903185-02A

Collected: 3/7/2019 10:30

2-Chlorotoluene	ND	0.50	µg/L	1.0	3/13/2019
1,2,3-Trichloropropane	ND	0.50	µg/L	1.0	3/13/2019
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1.0	3/13/2019
4-Chlorotoluene	ND	0.50	µg/L	1.0	3/13/2019
tert-Butylbenzene	ND	0.50	µg/L	1.0	3/13/2019
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1.0	3/13/2019
sec-Butylbenzene	ND	0.50	µg/L	1.0	3/13/2019
p-Isopropyltoluene	ND	0.50	µg/L	1.0	3/13/2019
1,3-Dichlorobenzene	ND	0.50	µg/L	1.0	3/13/2019
1,4-Dichlorobenzene	ND	0.50	µg/L	1.0	3/13/2019
n-Butylbenzene	ND	0.50	µg/L	1.0	3/13/2019
1,2-Dichlorobenzene	ND	0.50	µg/L	1.0	3/13/2019
Hexachlorobutadiene	ND	0.50	µg/L	1.0	3/13/2019
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1.0	3/13/2019
Naphthalene	ND	0.50	µg/L	1.0	3/13/2019
1,2,3-Trichlorobenzene	ND	0.50	µg/L	1.0	3/13/2019
Surrogate: 1,2-Dichlorobenzene-d4	103	70-130	% Rec	1.0	3/13/2019
Surrogate: Dibromofluoromethane	107	70-130	% Rec	1.0	3/13/2019

Date: 15-Mar-2019

WorkOrder: 1903185

ANALYTICAL REPORT

Client Sample ID: GBC0365-03 5280 Buckboard Ln

Received: 3/9/2019

Lab ID: 1903185-03A

Collected: 3/7/2019 10:35

Test Name: EPA 524.2

Reference: EPA 524.2

<u>Parameter</u>	<u>Result</u>	<u>Flag</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Dichlorodifluoromethane	ND		0.50	µg/L	1.0		3/13/2019
Chloromethane	ND		0.50	µg/L	1.0		3/13/2019
Vinyl Chloride	ND		0.50	µg/L	1.0		3/13/2019
Bromomethane	ND		0.50	µg/L	1.0		3/13/2019
Chloroethane	ND		0.50	µg/L	1.0		3/13/2019
Trichlorofluoromethane	ND		0.50	µg/L	1.0		3/13/2019
1,1-Dichloroethene	ND		0.50	µg/L	1.0		3/13/2019
1,1,2-Trichlorotrifluoroethane	ND		0.50	µg/L	1.0		3/13/2019
Methylene Chloride	ND		0.50	µg/L	1.0		3/13/2019
trans-1,2-Dichloroethene	ND		0.50	µg/L	1.0		3/13/2019
Methyl tert-butyl ether (MTBE)	ND		3.0	µg/L	1.0		3/13/2019
Tert-butyl alcohol (TBA)	ND		15	µg/L	1.0		3/13/2019
Di-isopropyl ether (DIPE)	ND		3.0	µg/L	1.0		3/13/2019
1,1-Dichloroethane	ND		0.50	µg/L	1.0		3/13/2019
Ethyl tert-butyl ether (ETBE)	ND		3.0	µg/L	1.0		3/13/2019
cis-1,2-Dichloroethene	ND		0.50	µg/L	1.0		3/13/2019
2,2-Dichloropropane	ND		0.50	µg/L	1.0		3/13/2019
Bromochloromethane	ND		0.50	µg/L	1.0		3/13/2019
Chloroform	39		0.50	µg/L	1.0		3/13/2019
Carbon tetrachloride	ND		0.50	µg/L	1.0		3/13/2019
1,1,1-Trichloroethane	ND		0.50	µg/L	1.0		3/13/2019
1,1-Dichloropropene	ND		0.50	µg/L	1.0		3/13/2019
Benzene	ND		0.50	µg/L	1.0		3/13/2019
1,2-Dichloroethane	ND		0.50	µg/L	1.0		3/13/2019
Tert-amyl methyl ether (TAME)	ND		3.0	µg/L	1.0		3/13/2019
Trichloroethene	ND		0.50	µg/L	1.0		3/13/2019
Dibromomethane	ND		0.50	µg/L	1.0		3/13/2019
1,2-Dichloropropane	ND		0.50	µg/L	1.0		3/13/2019
Bromodichloromethane	3.0		0.50	µg/L	1.0		3/13/2019
cis-1,3-Dichloropropene	ND		0.50	µg/L	1.0		3/13/2019
Toluene	ND		0.50	µg/L	1.0		3/13/2019
Tetrachloroethene	ND		0.50	µg/L	1.0		3/13/2019
trans-1,3-Dichloropropene	ND		0.50	µg/L	1.0		3/13/2019
1,1,2-Trichloroethane	ND		0.50	µg/L	1.0		3/13/2019
Dibromochloromethane	ND		0.50	µg/L	1.0		3/13/2019
1,3-Dichloropropane	ND		0.50	µg/L	1.0		3/13/2019
Chlorobenzene	ND		0.50	µg/L	1.0		3/13/2019
Ethylbenzene	ND		0.50	µg/L	1.0		3/13/2019
1,1,1,2-Tetrachloroethane	ND		0.50	µg/L	1.0		3/13/2019
m,p-Xylene	ND		0.50	µg/L	1.0		3/13/2019
o-Xylene	ND		0.50	µg/L	1.0		3/13/2019
Bromoform	ND		0.50	µg/L	1.0		3/13/2019
Styrene	ND		0.50	µg/L	1.0		3/13/2019
Isopropylbenzene	ND		0.50	µg/L	1.0		3/13/2019
Bromobenzene	ND		0.50	µg/L	1.0		3/13/2019
n-Propylbenzene	ND		0.50	µg/L	1.0		3/13/2019
1,1,2,2-Tetrachloroethane	ND		0.50	µg/L	1.0		3/13/2019

Date: 15-Mar-2019

WorkOrder: 1903185

ANALYTICAL REPORT

Client Sample ID: GBC0365-03 5280 Buckboard Ln

Received: 3/9/2019

Lab ID: 1903185-03A

Collected: 3/7/2019 10:35

2-Chlorotoluene	ND	0.50	µg/L	1.0	3/13/2019
1,2,3-Trichloropropane	ND	0.50	µg/L	1.0	3/13/2019
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1.0	3/13/2019
4-Chlorotoluene	ND	0.50	µg/L	1.0	3/13/2019
tert-Butylbenzene	ND	0.50	µg/L	1.0	3/13/2019
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1.0	3/13/2019
sec-Butylbenzene	ND	0.50	µg/L	1.0	3/13/2019
p-Isopropyltoluene	ND	0.50	µg/L	1.0	3/13/2019
1,3-Dichlorobenzene	ND	0.50	µg/L	1.0	3/13/2019
1,4-Dichlorobenzene	ND	0.50	µg/L	1.0	3/13/2019
n-Butylbenzene	ND	0.50	µg/L	1.0	3/13/2019
1,2-Dichlorobenzene	ND	0.50	µg/L	1.0	3/13/2019
Hexachlorobutadiene	ND	0.50	µg/L	1.0	3/13/2019
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1.0	3/13/2019
Naphthalene	ND	0.50	µg/L	1.0	3/13/2019
1,2,3-Trichlorobenzene	ND	0.50	µg/L	1.0	3/13/2019
Surrogate: 1,2-Dichlorobenzene-d4	105	70-130	% Rec	1.0	3/13/2019
Surrogate: Dibromofluoromethane	105	70-130	% Rec	1.0	3/13/2019

Date: 15-Mar-2019

WorkOrder: 1903185

ANALYTICAL REPORT

Client Sample ID: GBC0365-04 5290 Buckboard Ln

Received: 3/9/2019

Lab ID: 1903185-04A

Collected: 3/7/2019 10:40

Test Name: EPA 524.2

Reference: EPA 524.2

<u>Parameter</u>	<u>Result</u>	<u>Flag</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Dichlorodifluoromethane	ND		0.50	µg/L	1.0		3/13/2019
Chloromethane	ND		0.50	µg/L	1.0		3/13/2019
Vinyl Chloride	ND		0.50	µg/L	1.0		3/13/2019
Bromomethane	ND		0.50	µg/L	1.0		3/13/2019
Chloroethane	ND		0.50	µg/L	1.0		3/13/2019
Trichlorofluoromethane	ND		0.50	µg/L	1.0		3/13/2019
1,1-Dichloroethene	ND		0.50	µg/L	1.0		3/13/2019
1,1,2-Trichlorotrifluoroethane	ND		0.50	µg/L	1.0		3/13/2019
Methylene Chloride	ND		0.50	µg/L	1.0		3/13/2019
trans-1,2-Dichloroethene	ND		0.50	µg/L	1.0		3/13/2019
Methyl tert-butyl ether (MTBE)	ND		3.0	µg/L	1.0		3/13/2019
Tert-butyl alcohol (TBA)	ND		15	µg/L	1.0		3/13/2019
Di-isopropyl ether (DIPE)	ND		3.0	µg/L	1.0		3/13/2019
1,1-Dichloroethane	ND		0.50	µg/L	1.0		3/13/2019
Ethyl tert-butyl ether (ETBE)	ND		3.0	µg/L	1.0		3/13/2019
cis-1,2-Dichloroethene	ND		0.50	µg/L	1.0		3/13/2019
2,2-Dichloropropane	ND		0.50	µg/L	1.0		3/13/2019
Bromochloromethane	ND		0.50	µg/L	1.0		3/13/2019
Chloroform	40		0.50	µg/L	1.0		3/13/2019
Carbon tetrachloride	ND		0.50	µg/L	1.0		3/13/2019
1,1,1-Trichloroethane	ND		0.50	µg/L	1.0		3/13/2019
1,1-Dichloropropene	ND		0.50	µg/L	1.0		3/13/2019
Benzene	ND		0.50	µg/L	1.0		3/13/2019
1,2-Dichloroethane	ND		0.50	µg/L	1.0		3/13/2019
Tert-amyl methyl ether (TAME)	ND		3.0	µg/L	1.0		3/13/2019
Trichloroethene	ND		0.50	µg/L	1.0		3/13/2019
Dibromomethane	ND		0.50	µg/L	1.0		3/13/2019
1,2-Dichloropropane	ND		0.50	µg/L	1.0		3/13/2019
Bromodichloromethane	3.0		0.50	µg/L	1.0		3/13/2019
cis-1,3-Dichloropropene	ND		0.50	µg/L	1.0		3/13/2019
Toluene	ND		0.50	µg/L	1.0		3/13/2019
Tetrachloroethene	ND		0.50	µg/L	1.0		3/13/2019
trans-1,3-Dichloropropene	ND		0.50	µg/L	1.0		3/13/2019
1,1,2-Trichloroethane	ND		0.50	µg/L	1.0		3/13/2019
Dibromochloromethane	ND		0.50	µg/L	1.0		3/13/2019
1,3-Dichloropropane	ND		0.50	µg/L	1.0		3/13/2019
Chlorobenzene	ND		0.50	µg/L	1.0		3/13/2019
Ethylbenzene	ND		0.50	µg/L	1.0		3/13/2019
1,1,1,2-Tetrachloroethane	ND		0.50	µg/L	1.0		3/13/2019
m,p-Xylene	ND		0.50	µg/L	1.0		3/13/2019
o-Xylene	ND		0.50	µg/L	1.0		3/13/2019
Bromoform	ND		0.50	µg/L	1.0		3/13/2019
Styrene	ND		0.50	µg/L	1.0		3/13/2019
Isopropylbenzene	ND		0.50	µg/L	1.0		3/13/2019
Bromobenzene	ND		0.50	µg/L	1.0		3/13/2019
n-Propylbenzene	ND		0.50	µg/L	1.0		3/13/2019
1,1,2,2-Tetrachloroethane	ND		0.50	µg/L	1.0		3/13/2019

Date: 15-Mar-2019

WorkOrder: 1903185

ANALYTICAL REPORT

Client Sample ID: GBC0365-04 5290 Buckboard Ln

Received: 3/9/2019

Lab ID: 1903185-04A

Collected: 3/7/2019 10:40

2-Chlorotoluene	ND	0.50	µg/L	1.0	3/13/2019
1,2,3-Trichloropropane	ND	0.50	µg/L	1.0	3/13/2019
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1.0	3/13/2019
4-Chlorotoluene	ND	0.50	µg/L	1.0	3/13/2019
tert-Butylbenzene	ND	0.50	µg/L	1.0	3/13/2019
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1.0	3/13/2019
sec-Butylbenzene	ND	0.50	µg/L	1.0	3/13/2019
p-Isopropyltoluene	ND	0.50	µg/L	1.0	3/13/2019
1,3-Dichlorobenzene	ND	0.50	µg/L	1.0	3/13/2019
1,4-Dichlorobenzene	ND	0.50	µg/L	1.0	3/13/2019
n-Butylbenzene	ND	0.50	µg/L	1.0	3/13/2019
1,2-Dichlorobenzene	ND	0.50	µg/L	1.0	3/13/2019
Hexachlorobutadiene	ND	0.50	µg/L	1.0	3/13/2019
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1.0	3/13/2019
Naphthalene	ND	0.50	µg/L	1.0	3/13/2019
1,2,3-Trichlorobenzene	ND	0.50	µg/L	1.0	3/13/2019
Surrogate: 1,2-Dichlorobenzene-d4	103	70-130	% Rec	1.0	3/13/2019
Surrogate: Dibromofluoromethane	107	70-130	% Rec	1.0	3/13/2019

Date: 15-Mar-2019

WorkOrder: 1903185

ANALYTICAL REPORT

Client Sample ID: GBC0365-05 Blow Off Buck Board Ln

Received: 3/9/2019

Lab ID: 1903185-05A

Collected: 3/7/2019 10:45

Test Name: EPA 524.2

Reference: EPA 524.2

<u>Parameter</u>	<u>Result</u>	<u>Flag</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Dichlorodifluoromethane	ND		0.50	µg/L	1.0		3/11/2019
Chloromethane	ND		0.50	µg/L	1.0		3/11/2019
Vinyl Chloride	ND		0.50	µg/L	1.0		3/11/2019
Bromomethane	ND		0.50	µg/L	1.0		3/11/2019
Chloroethane	ND		0.50	µg/L	1.0		3/11/2019
Trichlorofluoromethane	ND		0.50	µg/L	1.0		3/11/2019
1,1-Dichloroethene	ND		0.50	µg/L	1.0		3/11/2019
1,1,2-Trichlorotrifluoroethane	ND		0.50	µg/L	1.0		3/11/2019
Methylene Chloride	ND		0.50	µg/L	1.0		3/11/2019
trans-1,2-Dichloroethene	ND		0.50	µg/L	1.0		3/11/2019
Methyl tert-butyl ether (MTBE)	ND		3.0	µg/L	1.0		3/11/2019
Tert-butyl alcohol (TBA)	ND		15	µg/L	1.0		3/11/2019
Di-isopropyl ether (DIPE)	ND		3.0	µg/L	1.0		3/11/2019
1,1-Dichloroethane	ND		0.50	µg/L	1.0		3/11/2019
Ethyl tert-butyl ether (ETBE)	ND		3.0	µg/L	1.0		3/11/2019
cis-1,2-Dichloroethene	ND		0.50	µg/L	1.0		3/11/2019
2,2-Dichloropropane	ND		0.50	µg/L	1.0		3/11/2019
Bromochloromethane	ND		0.50	µg/L	1.0		3/11/2019
Chloroform	33		0.50	µg/L	1.0		3/11/2019
Carbon tetrachloride	ND		0.50	µg/L	1.0		3/11/2019
1,1,1-Trichloroethane	ND		0.50	µg/L	1.0		3/11/2019
1,1-Dichloropropene	ND		0.50	µg/L	1.0		3/11/2019
Benzene	ND		0.50	µg/L	1.0		3/11/2019
1,2-Dichloroethane	ND		0.50	µg/L	1.0		3/11/2019
Tert-amyl methyl ether (TAME)	ND		3.0	µg/L	1.0		3/11/2019
Trichloroethene	ND		0.50	µg/L	1.0		3/11/2019
Dibromomethane	ND		0.50	µg/L	1.0		3/11/2019
1,2-Dichloropropane	ND		0.50	µg/L	1.0		3/11/2019
Bromodichloromethane	2.3		0.50	µg/L	1.0		3/11/2019
cis-1,3-Dichloropropene	ND		0.50	µg/L	1.0		3/11/2019
Toluene	ND		0.50	µg/L	1.0		3/11/2019
Tetrachloroethene	ND		0.50	µg/L	1.0		3/11/2019
trans-1,3-Dichloropropene	ND		0.50	µg/L	1.0		3/11/2019
1,1,2-Trichloroethane	ND		0.50	µg/L	1.0		3/11/2019
Dibromochloromethane	ND		0.50	µg/L	1.0		3/11/2019
1,3-Dichloropropane	ND		0.50	µg/L	1.0		3/11/2019
Chlorobenzene	ND		0.50	µg/L	1.0		3/11/2019
Ethylbenzene	ND		0.50	µg/L	1.0		3/11/2019
1,1,1,2-Tetrachloroethane	ND		0.50	µg/L	1.0		3/11/2019
m,p-Xylene	ND		0.50	µg/L	1.0		3/11/2019
o-Xylene	ND		0.50	µg/L	1.0		3/11/2019
Bromoform	ND		0.50	µg/L	1.0		3/11/2019
Styrene	ND		0.50	µg/L	1.0		3/11/2019
Isopropylbenzene	ND		0.50	µg/L	1.0		3/11/2019
Bromobenzene	ND		0.50	µg/L	1.0		3/11/2019
n-Propylbenzene	ND		0.50	µg/L	1.0		3/11/2019
1,1,2,2-Tetrachloroethane	ND		0.50	µg/L	1.0		3/11/2019

Date: 15-Mar-2019

WorkOrder: 1903185

ANALYTICAL REPORT

Client Sample ID: GBC0365-05 Blow Off Buck Board Ln

Received: 3/9/2019

Lab ID: 1903185-05A

Collected: 3/7/2019 10:45

2-Chlorotoluene	ND	0.50	µg/L	1.0	3/11/2019
1,2,3-Trichloropropane	ND	0.50	µg/L	1.0	3/11/2019
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1.0	3/11/2019
4-Chlorotoluene	ND	0.50	µg/L	1.0	3/11/2019
tert-Butylbenzene	ND	0.50	µg/L	1.0	3/11/2019
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1.0	3/11/2019
sec-Butylbenzene	ND	0.50	µg/L	1.0	3/11/2019
p-Isopropyltoluene	ND	0.50	µg/L	1.0	3/11/2019
1,3-Dichlorobenzene	ND	0.50	µg/L	1.0	3/11/2019
1,4-Dichlorobenzene	ND	0.50	µg/L	1.0	3/11/2019
n-Butylbenzene	ND	0.50	µg/L	1.0	3/11/2019
1,2-Dichlorobenzene	ND	0.50	µg/L	1.0	3/11/2019
Hexachlorobutadiene	ND	0.50	µg/L	1.0	3/11/2019
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1.0	3/11/2019
Naphthalene	ND	0.50	µg/L	1.0	3/11/2019
1,2,3-Trichlorobenzene	ND	0.50	µg/L	1.0	3/11/2019
Surrogate: 1,2-Dichlorobenzene-d4	102	70-130	% Rec	1.0	3/11/2019
Surrogate: Dibromofluoromethane	99.0	70-130	% Rec	1.0	3/11/2019

Date: 15-Mar-2019

WorkOrder: 1903185

ANALYTICAL REPORT

Client Sample ID: GBC0365-06 602 Boquest

Received: 3/9/2019

Lab ID: 1903185-06A

Collected: 3/7/2019 11:30

Test Name: EPA 524.2

Reference: EPA 524.2

<u>Parameter</u>	<u>Result</u>	<u>Flag</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Dichlorodifluoromethane	ND		0.50	µg/L	1.0		3/11/2019
Chloromethane	ND		0.50	µg/L	1.0		3/11/2019
Vinyl Chloride	ND		0.50	µg/L	1.0		3/11/2019
Bromomethane	ND		0.50	µg/L	1.0		3/11/2019
Chloroethane	ND		0.50	µg/L	1.0		3/11/2019
Trichlorofluoromethane	ND		0.50	µg/L	1.0		3/11/2019
1,1-Dichloroethene	ND		0.50	µg/L	1.0		3/11/2019
1,1,2-Trichlorotrifluoroethane	ND		0.50	µg/L	1.0		3/11/2019
Methylene Chloride	ND		0.50	µg/L	1.0		3/11/2019
trans-1,2-Dichloroethene	ND		0.50	µg/L	1.0		3/11/2019
Methyl tert-butyl ether (MTBE)	ND		3.0	µg/L	1.0		3/11/2019
Tert-butyl alcohol (TBA)	ND		15	µg/L	1.0		3/11/2019
Di-isopropyl ether (DIPE)	ND		3.0	µg/L	1.0		3/11/2019
1,1-Dichloroethane	ND		0.50	µg/L	1.0		3/11/2019
Ethyl tert-butyl ether (ETBE)	ND		3.0	µg/L	1.0		3/11/2019
cis-1,2-Dichloroethene	ND		0.50	µg/L	1.0		3/11/2019
2,2-Dichloropropane	ND		0.50	µg/L	1.0		3/11/2019
Bromochloromethane	ND		0.50	µg/L	1.0		3/11/2019
Chloroform	39		0.50	µg/L	1.0		3/11/2019
Carbon tetrachloride	ND		0.50	µg/L	1.0		3/11/2019
1,1,1-Trichloroethane	ND		0.50	µg/L	1.0		3/11/2019
1,1-Dichloropropene	ND		0.50	µg/L	1.0		3/11/2019
Benzene	ND		0.50	µg/L	1.0		3/11/2019
1,2-Dichloroethane	ND		0.50	µg/L	1.0		3/11/2019
Tert-amyl methyl ether (TAME)	ND		3.0	µg/L	1.0		3/11/2019
Trichloroethene	ND		0.50	µg/L	1.0		3/11/2019
Dibromomethane	ND		0.50	µg/L	1.0		3/11/2019
1,2-Dichloropropane	ND		0.50	µg/L	1.0		3/11/2019
Bromodichloromethane	2.9		0.50	µg/L	1.0		3/11/2019
cis-1,3-Dichloropropene	ND		0.50	µg/L	1.0		3/11/2019
Toluene	ND		0.50	µg/L	1.0		3/11/2019
Tetrachloroethene	ND		0.50	µg/L	1.0		3/11/2019
trans-1,3-Dichloropropene	ND		0.50	µg/L	1.0		3/11/2019
1,1,2-Trichloroethane	ND		0.50	µg/L	1.0		3/11/2019
Dibromochloromethane	ND		0.50	µg/L	1.0		3/11/2019
1,3-Dichloropropane	ND		0.50	µg/L	1.0		3/11/2019
Chlorobenzene	ND		0.50	µg/L	1.0		3/11/2019
Ethylbenzene	ND		0.50	µg/L	1.0		3/11/2019
1,1,1,2-Tetrachloroethane	ND		0.50	µg/L	1.0		3/11/2019
m,p-Xylene	ND		0.50	µg/L	1.0		3/11/2019
o-Xylene	ND		0.50	µg/L	1.0		3/11/2019
Bromoform	ND		0.50	µg/L	1.0		3/11/2019
Styrene	ND		0.50	µg/L	1.0		3/11/2019
Isopropylbenzene	ND		0.50	µg/L	1.0		3/11/2019
Bromobenzene	ND		0.50	µg/L	1.0		3/11/2019
n-Propylbenzene	ND		0.50	µg/L	1.0		3/11/2019
1,1,2,2-Tetrachloroethane	ND		0.50	µg/L	1.0		3/11/2019

Date: 15-Mar-2019

WorkOrder: 1903185

ANALYTICAL REPORT

Client Sample ID: GBC0365-06 602 Boquest

Received: 3/9/2019

Lab ID: 1903185-06A

Collected: 3/7/2019 11:30

2-Chlorotoluene	ND	0.50	µg/L	1.0	3/11/2019
1,2,3-Trichloropropane	ND	0.50	µg/L	1.0	3/11/2019
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1.0	3/11/2019
4-Chlorotoluene	ND	0.50	µg/L	1.0	3/11/2019
tert-Butylbenzene	ND	0.50	µg/L	1.0	3/11/2019
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1.0	3/11/2019
sec-Butylbenzene	ND	0.50	µg/L	1.0	3/11/2019
p-Isopropyltoluene	ND	0.50	µg/L	1.0	3/11/2019
1,3-Dichlorobenzene	ND	0.50	µg/L	1.0	3/11/2019
1,4-Dichlorobenzene	ND	0.50	µg/L	1.0	3/11/2019
n-Butylbenzene	ND	0.50	µg/L	1.0	3/11/2019
1,2-Dichlorobenzene	ND	0.50	µg/L	1.0	3/11/2019
Hexachlorobutadiene	ND	0.50	µg/L	1.0	3/11/2019
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1.0	3/11/2019
Naphthalene	ND	0.50	µg/L	1.0	3/11/2019
1,2,3-Trichlorobenzene	ND	0.50	µg/L	1.0	3/11/2019
Surrogate: 1,2-Dichlorobenzene-d4	101	70-130	% Rec	1.0	3/11/2019
Surrogate: Dibromofluoromethane	100	70-130	% Rec	1.0	3/11/2019

Date: 15-Mar-2019

WorkOrder: 1903185

ANALYTICAL REPORT

Client Sample ID: GBC0365-07 Becker Way Blow Off

Received: 3/9/2019

Lab ID: 1903185-07A

Collected: 3/7/2019 11:50

Test Name: EPA 524.2

Reference: EPA 524.2

<u>Parameter</u>	<u>Result</u>	<u>Flag</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Dichlorodifluoromethane	ND		0.50	µg/L	1.0		3/11/2019
Chloromethane	ND		0.50	µg/L	1.0		3/11/2019
Vinyl Chloride	ND		0.50	µg/L	1.0		3/11/2019
Bromomethane	ND		0.50	µg/L	1.0		3/11/2019
Chloroethane	ND		0.50	µg/L	1.0		3/11/2019
Trichlorofluoromethane	ND		0.50	µg/L	1.0		3/11/2019
1,1-Dichloroethene	ND		0.50	µg/L	1.0		3/11/2019
1,1,2-Trichlorotrifluoroethane	ND		0.50	µg/L	1.0		3/11/2019
Methylene Chloride	ND		0.50	µg/L	1.0		3/11/2019
trans-1,2-Dichloroethene	ND		0.50	µg/L	1.0		3/11/2019
Methyl tert-butyl ether (MTBE)	ND		3.0	µg/L	1.0		3/11/2019
Tert-butyl alcohol (TBA)	ND		15	µg/L	1.0		3/11/2019
Di-isopropyl ether (DIPE)	ND		3.0	µg/L	1.0		3/11/2019
1,1-Dichloroethane	ND		0.50	µg/L	1.0		3/11/2019
Ethyl tert-butyl ether (ETBE)	ND		3.0	µg/L	1.0		3/11/2019
cis-1,2-Dichloroethene	ND		0.50	µg/L	1.0		3/11/2019
2,2-Dichloropropane	ND		0.50	µg/L	1.0		3/11/2019
Bromochloromethane	ND		0.50	µg/L	1.0		3/11/2019
Chloroform	40		0.50	µg/L	1.0		3/11/2019
Carbon tetrachloride	ND		0.50	µg/L	1.0		3/11/2019
1,1,1-Trichloroethane	ND		0.50	µg/L	1.0		3/11/2019
1,1-Dichloropropene	ND		0.50	µg/L	1.0		3/11/2019
Benzene	1.9		0.50	µg/L	1.0		3/11/2019
1,2-Dichloroethane	ND		0.50	µg/L	1.0		3/11/2019
Tert-amyl methyl ether (TAME)	ND		3.0	µg/L	1.0		3/11/2019
Trichloroethene	ND		0.50	µg/L	1.0		3/11/2019
Dibromomethane	ND		0.50	µg/L	1.0		3/11/2019
1,2-Dichloropropane	ND		0.50	µg/L	1.0		3/11/2019
Bromodichloromethane	2.2		0.50	µg/L	1.0		3/11/2019
cis-1,3-Dichloropropene	ND		0.50	µg/L	1.0		3/11/2019
Toluene	ND		0.50	µg/L	1.0		3/11/2019
Tetrachloroethene	ND		0.50	µg/L	1.0		3/11/2019
trans-1,3-Dichloropropene	ND		0.50	µg/L	1.0		3/11/2019
1,1,2-Trichloroethane	ND		0.50	µg/L	1.0		3/11/2019
Dibromochloromethane	ND		0.50	µg/L	1.0		3/11/2019
1,3-Dichloropropane	ND		0.50	µg/L	1.0		3/11/2019
Chlorobenzene	ND		0.50	µg/L	1.0		3/11/2019
Ethylbenzene	ND		0.50	µg/L	1.0		3/11/2019
1,1,1,2-Tetrachloroethane	ND		0.50	µg/L	1.0		3/11/2019
m,p-Xylene	ND		0.50	µg/L	1.0		3/11/2019
o-Xylene	ND		0.50	µg/L	1.0		3/11/2019
Bromoform	ND		0.50	µg/L	1.0		3/11/2019
Styrene	ND		0.50	µg/L	1.0		3/11/2019
Isopropylbenzene	ND		0.50	µg/L	1.0		3/11/2019
Bromobenzene	ND		0.50	µg/L	1.0		3/11/2019
n-Propylbenzene	ND		0.50	µg/L	1.0		3/11/2019
1,1,2,2-Tetrachloroethane	ND		0.50	µg/L	1.0		3/11/2019

Date: 15-Mar-2019

WorkOrder: 1903185

ANALYTICAL REPORT

Client Sample ID: GBC0365-07 Becker Way Blow Off

Received: 3/9/2019

Lab ID: 1903185-07A

Collected: 3/7/2019 11:50

2-Chlorotoluene	ND	0.50	µg/L	1.0	3/11/2019
1,2,3-Trichloropropane	ND	0.50	µg/L	1.0	3/11/2019
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1.0	3/11/2019
4-Chlorotoluene	ND	0.50	µg/L	1.0	3/11/2019
tert-Butylbenzene	ND	0.50	µg/L	1.0	3/11/2019
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1.0	3/11/2019
sec-Butylbenzene	ND	0.50	µg/L	1.0	3/11/2019
p-Isopropyltoluene	ND	0.50	µg/L	1.0	3/11/2019
1,3-Dichlorobenzene	ND	0.50	µg/L	1.0	3/11/2019
1,4-Dichlorobenzene	ND	0.50	µg/L	1.0	3/11/2019
n-Butylbenzene	ND	0.50	µg/L	1.0	3/11/2019
1,2-Dichlorobenzene	ND	0.50	µg/L	1.0	3/11/2019
Hexachlorobutadiene	ND	0.50	µg/L	1.0	3/11/2019
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1.0	3/11/2019
Naphthalene	ND	0.50	µg/L	1.0	3/11/2019
1,2,3-Trichlorobenzene	ND	0.50	µg/L	1.0	3/11/2019
Surrogate: 1,2-Dichlorobenzene-d4	99.0	70-130	% Rec	1.0	3/11/2019
Surrogate: Dibromofluoromethane	100	70-130	% Rec	1.0	3/11/2019

Date: 15-Mar-2019

WorkOrder: 1903185

ANALYTICAL REPORT

Client Sample ID: GBC0365-08 6231 Becker

Received: 3/9/2019

Lab ID: 1903185-08A

Collected: 3/7/2019 12:00

Test Name: EPA 524.2

Reference: EPA 524.2

<u>Parameter</u>	<u>Result</u>	<u>Flag</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Dichlorodifluoromethane	ND		0.50	µg/L	1.0		3/13/2019
Chloromethane	ND		0.50	µg/L	1.0		3/13/2019
Vinyl Chloride	ND		0.50	µg/L	1.0		3/13/2019
Bromomethane	ND		0.50	µg/L	1.0		3/13/2019
Chloroethane	ND		0.50	µg/L	1.0		3/13/2019
Trichlorofluoromethane	ND		0.50	µg/L	1.0		3/13/2019
1,1-Dichloroethene	ND		0.50	µg/L	1.0		3/13/2019
1,1,2-Trichlorotrifluoroethane	ND		0.50	µg/L	1.0		3/13/2019
Methylene Chloride	ND		0.50	µg/L	1.0		3/13/2019
trans-1,2-Dichloroethene	ND		0.50	µg/L	1.0		3/13/2019
Methyl tert-butyl ether (MTBE)	ND		3.0	µg/L	1.0		3/13/2019
Tert-butyl alcohol (TBA)	ND		15	µg/L	1.0		3/13/2019
Di-isopropyl ether (DIPE)	ND		3.0	µg/L	1.0		3/13/2019
1,1-Dichloroethane	ND		0.50	µg/L	1.0		3/13/2019
Ethyl tert-butyl ether (ETBE)	ND		3.0	µg/L	1.0		3/13/2019
cis-1,2-Dichloroethene	ND		0.50	µg/L	1.0		3/13/2019
2,2-Dichloropropane	ND		0.50	µg/L	1.0		3/13/2019
Bromochloromethane	ND		0.50	µg/L	1.0		3/13/2019
Chloroform	41		0.50	µg/L	1.0		3/13/2019
Carbon tetrachloride	ND		0.50	µg/L	1.0		3/13/2019
1,1,1-Trichloroethane	ND		0.50	µg/L	1.0		3/13/2019
1,1-Dichloropropene	ND		0.50	µg/L	1.0		3/13/2019
Benzene	11		0.50	µg/L	1.0		3/13/2019
1,2-Dichloroethane	ND		0.50	µg/L	1.0		3/13/2019
Tert-amyl methyl ether (TAME)	ND		3.0	µg/L	1.0		3/13/2019
Trichloroethene	ND		0.50	µg/L	1.0		3/13/2019
Dibromomethane	ND		0.50	µg/L	1.0		3/13/2019
1,2-Dichloropropane	ND		0.50	µg/L	1.0		3/13/2019
Bromodichloromethane	2.2		0.50	µg/L	1.0		3/13/2019
cis-1,3-Dichloropropene	ND		0.50	µg/L	1.0		3/13/2019
Toluene	5.3		0.50	µg/L	1.0		3/13/2019
Tetrachloroethene	ND		0.50	µg/L	1.0		3/13/2019
trans-1,3-Dichloropropene	ND		0.50	µg/L	1.0		3/13/2019
1,1,2-Trichloroethane	ND		0.50	µg/L	1.0		3/13/2019
Dibromochloromethane	ND		0.50	µg/L	1.0		3/13/2019
1,3-Dichloropropane	ND		0.50	µg/L	1.0		3/13/2019
Chlorobenzene	ND		0.50	µg/L	1.0		3/13/2019
Ethylbenzene	2.1		0.50	µg/L	1.0		3/13/2019
1,1,1,2-Tetrachloroethane	ND		0.50	µg/L	1.0		3/13/2019
m,p-Xylene	1.1		0.50	µg/L	1.0		3/13/2019
o-Xylene	0.57		0.50	µg/L	1.0		3/13/2019
Bromoform	ND		0.50	µg/L	1.0		3/13/2019
Styrene	ND		0.50	µg/L	1.0		3/13/2019
Isopropylbenzene	ND		0.50	µg/L	1.0		3/13/2019
Bromobenzene	ND		0.50	µg/L	1.0		3/13/2019
n-Propylbenzene	ND		0.50	µg/L	1.0		3/13/2019
1,1,2,2-Tetrachloroethane	ND		0.50	µg/L	1.0		3/13/2019

Date: 15-Mar-2019

WorkOrder: 1903185

ANALYTICAL REPORT

Client Sample ID: GBC0365-08 6231 Becker

Received: 3/9/2019

Lab ID: 1903185-08A

Collected: 3/7/2019 12:00

2-Chlorotoluene	ND	0.50	µg/L	1.0	3/13/2019
1,2,3-Trichloropropane	ND	0.50	µg/L	1.0	3/13/2019
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1.0	3/13/2019
4-Chlorotoluene	ND	0.50	µg/L	1.0	3/13/2019
tert-Butylbenzene	ND	0.50	µg/L	1.0	3/13/2019
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1.0	3/13/2019
sec-Butylbenzene	ND	0.50	µg/L	1.0	3/13/2019
p-Isopropyltoluene	ND	0.50	µg/L	1.0	3/13/2019
1,3-Dichlorobenzene	ND	0.50	µg/L	1.0	3/13/2019
1,4-Dichlorobenzene	ND	0.50	µg/L	1.0	3/13/2019
n-Butylbenzene	ND	0.50	µg/L	1.0	3/13/2019
1,2-Dichlorobenzene	ND	0.50	µg/L	1.0	3/13/2019
Hexachlorobutadiene	ND	0.50	µg/L	1.0	3/13/2019
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1.0	3/13/2019
Naphthalene	ND	0.50	µg/L	1.0	3/13/2019
1,2,3-Trichlorobenzene	ND	0.50	µg/L	1.0	3/13/2019
Surrogate: 1,2-Dichlorobenzene-d4	100	70-130	% Rec	1.0	3/13/2019
Surrogate: Dibromofluoromethane	113	70-130	% Rec	1.0	3/13/2019

Date: 15-Mar-2019

WorkOrder: 1903185

ANALYTICAL REPORT

Client Sample ID: GBC0365-09 6229 Becker

Received: 3/9/2019

Lab ID: 1903185-09A

Collected: 3/7/2019 12:05

Test Name: EPA 524.2

Reference: EPA 524.2

<u>Parameter</u>	<u>Result</u>	<u>Flag</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Dichlorodifluoromethane	ND		0.50	µg/L	1.0		3/14/2019
Chloromethane	ND		0.50	µg/L	1.0		3/14/2019
Vinyl Chloride	ND		0.50	µg/L	1.0		3/14/2019
Bromomethane	ND		0.50	µg/L	1.0		3/14/2019
Chloroethane	ND		0.50	µg/L	1.0		3/14/2019
Trichlorofluoromethane	ND		0.50	µg/L	1.0		3/14/2019
1,1-Dichloroethene	ND		0.50	µg/L	1.0		3/14/2019
1,1,2-Trichlorotrifluoroethane	ND		0.50	µg/L	1.0		3/14/2019
Methylene Chloride	ND		0.50	µg/L	1.0		3/14/2019
trans-1,2-Dichloroethene	ND		0.50	µg/L	1.0		3/14/2019
Methyl tert-butyl ether (MTBE)	ND		3.0	µg/L	1.0		3/14/2019
Tert-butyl alcohol (TBA)	ND		15	µg/L	1.0		3/14/2019
Di-isopropyl ether (DIPE)	ND		3.0	µg/L	1.0		3/14/2019
1,1-Dichloroethane	ND		0.50	µg/L	1.0		3/14/2019
Ethyl tert-butyl ether (ETBE)	ND		3.0	µg/L	1.0		3/14/2019
cis-1,2-Dichloroethene	ND		0.50	µg/L	1.0		3/14/2019
2,2-Dichloropropane	ND		0.50	µg/L	1.0		3/14/2019
Bromochloromethane	ND		0.50	µg/L	1.0		3/14/2019
Chloroform	26		0.50	µg/L	1.0		3/14/2019
Carbon tetrachloride	ND		0.50	µg/L	1.0		3/14/2019
1,1,1-Trichloroethane	ND		0.50	µg/L	1.0		3/14/2019
1,1-Dichloropropene	ND		0.50	µg/L	1.0		3/14/2019
Benzene	1.0		0.50	µg/L	1.0		3/14/2019
1,2-Dichloroethane	ND		0.50	µg/L	1.0		3/14/2019
Tert-amyl methyl ether (TAME)	ND		3.0	µg/L	1.0		3/14/2019
Trichloroethene	ND		0.50	µg/L	1.0		3/14/2019
Dibromomethane	ND		0.50	µg/L	1.0		3/14/2019
1,2-Dichloropropane	ND		0.50	µg/L	1.0		3/14/2019
Bromodichloromethane	1.6		0.50	µg/L	1.0		3/14/2019
cis-1,3-Dichloropropene	ND		0.50	µg/L	1.0		3/14/2019
Toluene	ND		0.50	µg/L	1.0		3/14/2019
Tetrachloroethene	ND		0.50	µg/L	1.0		3/14/2019
trans-1,3-Dichloropropene	ND		0.50	µg/L	1.0		3/14/2019
1,1,2-Trichloroethane	ND		0.50	µg/L	1.0		3/14/2019
Dibromochloromethane	ND		0.50	µg/L	1.0		3/14/2019
1,3-Dichloropropane	ND		0.50	µg/L	1.0		3/14/2019
Chlorobenzene	ND		0.50	µg/L	1.0		3/14/2019
Ethylbenzene	ND		0.50	µg/L	1.0		3/14/2019
1,1,1,2-Tetrachloroethane	ND		0.50	µg/L	1.0		3/14/2019
m,p-Xylene	ND		0.50	µg/L	1.0		3/14/2019
o-Xylene	ND		0.50	µg/L	1.0		3/14/2019
Bromoform	ND		0.50	µg/L	1.0		3/14/2019
Styrene	ND		0.50	µg/L	1.0		3/14/2019
Isopropylbenzene	ND		0.50	µg/L	1.0		3/14/2019
Bromobenzene	ND		0.50	µg/L	1.0		3/14/2019
n-Propylbenzene	ND		0.50	µg/L	1.0		3/14/2019
1,1,2,2-Tetrachloroethane	ND		0.50	µg/L	1.0		3/14/2019

Date: 15-Mar-2019

WorkOrder: 1903185

ANALYTICAL REPORT

Client Sample ID: GBC0365-09 6229 Becker

Received: 3/9/2019

Lab ID: 1903185-09A

Collected: 3/7/2019 12:05

2-Chlorotoluene	ND	0.50	µg/L	1.0	3/14/2019
1,2,3-Trichloropropane	ND	0.50	µg/L	1.0	3/14/2019
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1.0	3/14/2019
4-Chlorotoluene	ND	0.50	µg/L	1.0	3/14/2019
tert-Butylbenzene	ND	0.50	µg/L	1.0	3/14/2019
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1.0	3/14/2019
sec-Butylbenzene	ND	0.50	µg/L	1.0	3/14/2019
p-Isopropyltoluene	ND	0.50	µg/L	1.0	3/14/2019
1,3-Dichlorobenzene	ND	0.50	µg/L	1.0	3/14/2019
1,4-Dichlorobenzene	ND	0.50	µg/L	1.0	3/14/2019
n-Butylbenzene	ND	0.50	µg/L	1.0	3/14/2019
1,2-Dichlorobenzene	ND	0.50	µg/L	1.0	3/14/2019
Hexachlorobutadiene	ND	0.50	µg/L	1.0	3/14/2019
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1.0	3/14/2019
Naphthalene	ND	0.50	µg/L	1.0	3/14/2019
1,2,3-Trichlorobenzene	ND	0.50	µg/L	1.0	3/14/2019
Surrogate: 1,2-Dichlorobenzene-d4	104	70-130	% Rec	1.0	3/14/2019
Surrogate: Dibromofluoromethane	106	70-130	% Rec	1.0	3/14/2019

Date: 15-Mar-2019

WorkOrder: 1903185

ANALYTICAL REPORT

Client Sample ID: GBC0365-10 Boquest Blow Off

Received: 3/9/2019

Lab ID: 1903185-10A

Collected: 3/7/2019 13:20

Test Name: EPA 524.2

Reference: EPA 524.2

<u>Parameter</u>	<u>Result</u>	<u>Flag</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Dichlorodifluoromethane	ND		0.50	µg/L	1.0		3/14/2019
Chloromethane	ND		0.50	µg/L	1.0		3/14/2019
Vinyl Chloride	ND		0.50	µg/L	1.0		3/14/2019
Bromomethane	ND		0.50	µg/L	1.0		3/14/2019
Chloroethane	ND		0.50	µg/L	1.0		3/14/2019
Trichlorofluoromethane	ND		0.50	µg/L	1.0		3/14/2019
1,1-Dichloroethene	ND		0.50	µg/L	1.0		3/14/2019
1,1,2-Trichlorotrifluoroethane	ND		0.50	µg/L	1.0		3/14/2019
Methylene Chloride	ND		0.50	µg/L	1.0		3/14/2019
trans-1,2-Dichloroethene	ND		0.50	µg/L	1.0		3/14/2019
Methyl tert-butyl ether (MTBE)	ND		3.0	µg/L	1.0		3/14/2019
Tert-butyl alcohol (TBA)	ND		15	µg/L	1.0		3/14/2019
Di-isopropyl ether (DIPE)	ND		3.0	µg/L	1.0		3/14/2019
1,1-Dichloroethane	ND		0.50	µg/L	1.0		3/14/2019
Ethyl tert-butyl ether (ETBE)	ND		3.0	µg/L	1.0		3/14/2019
cis-1,2-Dichloroethene	ND		0.50	µg/L	1.0		3/14/2019
2,2-Dichloropropane	ND		0.50	µg/L	1.0		3/14/2019
Bromochloromethane	ND		0.50	µg/L	1.0		3/14/2019
Chloroform	27		0.50	µg/L	1.0		3/14/2019
Carbon tetrachloride	ND		0.50	µg/L	1.0		3/14/2019
1,1,1-Trichloroethane	ND		0.50	µg/L	1.0		3/14/2019
1,1-Dichloropropene	ND		0.50	µg/L	1.0		3/14/2019
Benzene	ND		0.50	µg/L	1.0		3/14/2019
1,2-Dichloroethane	ND		0.50	µg/L	1.0		3/14/2019
Tert-amyl methyl ether (TAME)	ND		3.0	µg/L	1.0		3/14/2019
Trichloroethene	ND		0.50	µg/L	1.0		3/14/2019
Dibromomethane	ND		0.50	µg/L	1.0		3/14/2019
1,2-Dichloropropane	ND		0.50	µg/L	1.0		3/14/2019
Bromodichloromethane	1.8		0.50	µg/L	1.0		3/14/2019
cis-1,3-Dichloropropene	ND		0.50	µg/L	1.0		3/14/2019
Toluene	ND		0.50	µg/L	1.0		3/14/2019
Tetrachloroethene	ND		0.50	µg/L	1.0		3/14/2019
trans-1,3-Dichloropropene	ND		0.50	µg/L	1.0		3/14/2019
1,1,2-Trichloroethane	ND		0.50	µg/L	1.0		3/14/2019
Dibromochloromethane	ND		0.50	µg/L	1.0		3/14/2019
1,3-Dichloropropane	ND		0.50	µg/L	1.0		3/14/2019
Chlorobenzene	ND		0.50	µg/L	1.0		3/14/2019
Ethylbenzene	ND		0.50	µg/L	1.0		3/14/2019
1,1,1,2-Tetrachloroethane	ND		0.50	µg/L	1.0		3/14/2019
m,p-Xylene	ND		0.50	µg/L	1.0		3/14/2019
o-Xylene	ND		0.50	µg/L	1.0		3/14/2019
Bromoform	ND		0.50	µg/L	1.0		3/14/2019
Styrene	ND		0.50	µg/L	1.0		3/14/2019
Isopropylbenzene	ND		0.50	µg/L	1.0		3/14/2019
Bromobenzene	ND		0.50	µg/L	1.0		3/14/2019
n-Propylbenzene	ND		0.50	µg/L	1.0		3/14/2019
1,1,2,2-Tetrachloroethane	ND		0.50	µg/L	1.0		3/14/2019

Date: 15-Mar-2019

WorkOrder: 1903185

ANALYTICAL REPORT

Client Sample ID: GBC0365-10 Boquest Blow Off

Received: 3/9/2019

Lab ID: 1903185-10A

Collected: 3/7/2019 13:20

2-Chlorotoluene	ND	0.50	µg/L	1.0	3/14/2019
1,2,3-Trichloropropane	ND	0.50	µg/L	1.0	3/14/2019
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1.0	3/14/2019
4-Chlorotoluene	ND	0.50	µg/L	1.0	3/14/2019
tert-Butylbenzene	ND	0.50	µg/L	1.0	3/14/2019
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1.0	3/14/2019
sec-Butylbenzene	ND	0.50	µg/L	1.0	3/14/2019
p-Isopropyltoluene	ND	0.50	µg/L	1.0	3/14/2019
1,3-Dichlorobenzene	ND	0.50	µg/L	1.0	3/14/2019
1,4-Dichlorobenzene	ND	0.50	µg/L	1.0	3/14/2019
n-Butylbenzene	ND	0.50	µg/L	1.0	3/14/2019
1,2-Dichlorobenzene	ND	0.50	µg/L	1.0	3/14/2019
Hexachlorobutadiene	ND	0.50	µg/L	1.0	3/14/2019
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1.0	3/14/2019
Naphthalene	ND	0.50	µg/L	1.0	3/14/2019
1,2,3-Trichlorobenzene	ND	0.50	µg/L	1.0	3/14/2019
Surrogate: 1,2-Dichlorobenzene-d4	104	70-130	% Rec	1.0	3/14/2019
Surrogate: Dibromofluoromethane	105	70-130	% Rec	1.0	3/14/2019

North Coast Laboratories, Ltd.

Date: 3/15/2019

CLIENT: Cranmer Analytical Laboratory**Work Order:** 1903185**Project:** GBC0365**QC SUMMARY REPORT**

Method Blank

Sample ID	MB 031119	Batch ID:	R98676	Test Code:	524W	Units:	µg/L	Analysis Date	3/11/2019 9:49:00 AM	Prep Date	
Client ID:		Run ID:	ORGCMS3_190311A	SeqNo:	1403337						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	0.50									
Chloromethane	ND	0.50									
Vinyl Chloride	ND	0.50									
Bromomethane	ND	0.50									
Chloroethane	ND	0.50									
Trichlorofluoromethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1,2-Trichlorotrifluoroethane	ND	0.50									
Methylene Chloride	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Methyl tert-butyl ether (MTBE)	ND	3.0									
Tert-butyl alcohol (TBA)	ND	15									
Di-isopropyl ether (DIPE)	ND	3.0									
1,1-Dichloroethane	ND	0.50									
Ethyl tert-butyl ether (ETBE)	ND	3.0									
cis-1,2-Dichloroethene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
Bromochloromethane	ND	0.50									
Chloroform	ND	0.50									
Carbon tetrachloride	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1-Dichloropropene	ND	0.50									
Benzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
Tert-amyl methyl ether (TAME)	ND	3.0									
Trichloroethene	ND	0.50									
Dibromomethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

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CLIENT: Cranmer Analytical Laboratory
Work Order: 1903185
Project: GBC0365

QC SUMMARY REPORT

Method Blank

Bromodichloromethane	ND	0.50
cis-1,3-Dichloropropene	ND	0.50
Toluene	ND	0.50
Tetrachloroethene	ND	0.50
trans-1,3-Dichloropropene	ND	0.50
1,1,2-Trichloroethane	ND	0.50
Dibromochloromethane	ND	0.50
1,3-Dichloropropane	ND	0.50
Chlorobenzene	ND	0.50
Ethylbenzene	ND	0.50
1,1,1,2-Tetrachloroethane	ND	0.50
m,p-Xylene	ND	0.50
o-Xylene	ND	0.50
Bromoform	ND	0.50
Styrene	ND	0.50
Isopropylbenzene	ND	0.50
Bromobenzene	ND	0.50
n-Propylbenzene	ND	0.50
1,1,2,2-Tetrachloroethane	ND	0.50
2-Chlorotoluene	ND	0.50
1,2,3-Trichloropropane	ND	0.50
1,3,5-Trimethylbenzene	ND	0.50
4-Chlorotoluene	ND	0.50
tert-Butylbenzene	ND	0.50
1,2,4-Trimethylbenzene	ND	0.50
sec-Butylbenzene	ND	0.50
p-Isopropyltoluene	ND	0.50
1,3-Dichlorobenzene	ND	0.50
1,4-Dichlorobenzene	ND	0.50
n-Butylbenzene	ND	0.50
1,2-Dichlorobenzene	ND	0.50
Hexachlorobutadiene	ND	0.50
1,2,4-Trichlorobenzene	ND	0.50
Naphthalene	ND	0.50

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

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CLIENT: Cranmer Analytical Laboratory**Work Order:** 1903185**Project:** GBC0365**QC SUMMARY REPORT**

Method Blank

1,2,3-Trichlorobenzene	ND	0.50						
Surrogate: Dibromofluoromethane	0.980	0.10	1.00	0	98.0%	70	130	0
Surrogate: 1,2-Dichlorobenzene-d4	0.990	0.10	1.00	0	99.0%	70	130	0

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

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CLIENT: Cranmer Analytical Laboratory
Work Order: 1903185
Project: GBC0365

QC SUMMARY REPORT

Method Blank

Sample ID	MB 031319	Batch ID:	R98701	Test Code:	524W	Units:	µg/L	Analysis Date	3/13/2019 11:12:00 AM	Prep Date	
Client ID:		Run ID:	ORGCMS2_190313A	SeqNo:	1403779						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	0.50									
Chloromethane	ND	0.50									
Vinyl Chloride	ND	0.50									
Bromomethane	ND	0.50									
Chloroethane	ND	0.50									
Trichlorofluoromethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1,2-Trichlorotrifluoroethane	ND	0.50									
Methylene Chloride	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Methyl tert-butyl ether (MTBE)	ND	3.0									
Tert-butyl alcohol (TBA)	ND	15									
Di-isopropyl ether (DIPE)	ND	3.0									
1,1-Dichloroethane	ND	0.50									
Ethyl tert-butyl ether (ETBE)	ND	3.0									
cis-1,2-Dichloroethene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
Bromochloromethane	ND	0.50									
Chloroform	ND	0.50									
Carbon tetrachloride	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1-Dichloropropene	ND	0.50									
Benzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
Tert-amyl methyl ether (TAME)	ND	3.0									
Trichloroethene	ND	0.50									
Dibromomethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									
Bromodichloromethane	ND	0.50									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Cranmer Analytical Laboratory
Work Order: 1903185
Project: GBC0365

QC SUMMARY REPORT

Method Blank

cis-1,3-Dichloropropene	ND	0.50
Toluene	ND	0.50
Tetrachloroethene	ND	0.50
trans-1,3-Dichloropropene	ND	0.50
1,1,2-Trichloroethane	ND	0.50
Dibromochloromethane	ND	0.50
1,3-Dichloropropane	ND	0.50
Chlorobenzene	ND	0.50
Ethylbenzene	ND	0.50
1,1,1,2-Tetrachloroethane	ND	0.50
m,p-Xylene	ND	0.50
o-Xylene	ND	0.50
Bromoform	ND	0.50
Styrene	ND	0.50
Isopropylbenzene	ND	0.50
Bromobenzene	ND	0.50
n-Propylbenzene	ND	0.50
1,1,2,2-Tetrachloroethane	ND	0.50
2-Chlorotoluene	ND	0.50
1,2,3-Trichloropropane	ND	0.50
1,3,5-Trimethylbenzene	ND	0.50
4-Chlorotoluene	ND	0.50
tert-Butylbenzene	ND	0.50
1,2,4-Trimethylbenzene	ND	0.50
sec-Butylbenzene	ND	0.50
p-Isopropyltoluene	ND	0.50
1,3-Dichlorobenzene	ND	0.50
1,4-Dichlorobenzene	ND	0.50
n-Butylbenzene	ND	0.50
1,2-Dichlorobenzene	ND	0.50
Hexachlorobutadiene	ND	0.50
1,2,4-Trichlorobenzene	ND	0.50
Naphthalene	ND	0.50
1,2,3-Trichlorobenzene	ND	0.50

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Cranmer Analytical Laboratory

Work Order: 1903185

Project: GBC0365

QC SUMMARY REPORT

Method Blank

Surrogate: Dibromofluoromethane	1.10	0.10	1.00	0	110%	70	130	0
Surrogate: 1,2-Dichlorobenzene-d4	1.02	0.10	1.00	0	102%	70	130	0

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

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CLIENT: Cranmer Analytical Laboratory
Work Order: 1903185
Project: GBC0365

QC SUMMARY REPORT

Method Blank

Sample ID	MB 031419	Batch ID:	R98713	Test Code:	524W	Units:	µg/L	Analysis Date	3/14/2019 10:48:00 AM	Prep Date	
Client ID:		Run ID:	ORGCMS2_190314A	SeqNo:	1403965						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	0.50									
Chloromethane	ND	0.50									
Vinyl Chloride	ND	0.50									
Bromomethane	ND	0.50									
Chloroethane	ND	0.50									
Trichlorofluoromethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1,2-Trichlorotrifluoroethane	ND	0.50									
Methylene Chloride	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Methyl tert-butyl ether (MTBE)	ND	3.0									
Tert-butyl alcohol (TBA)	ND	15									
Di-isopropyl ether (DIPE)	ND	3.0									
1,1-Dichloroethane	ND	0.50									
Ethyl tert-butyl ether (ETBE)	ND	3.0									
cis-1,2-Dichloroethene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
Bromochloromethane	ND	0.50									
Chloroform	ND	0.50									
Carbon tetrachloride	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1-Dichloropropene	ND	0.50									
Benzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
Tert-amyl methyl ether (TAME)	ND	3.0									
Trichloroethene	ND	0.50									
Dibromomethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									
Bromodichloromethane	ND	0.50									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Cranmer Analytical Laboratory
Work Order: 1903185
Project: GBC0365

QC SUMMARY REPORT

Method Blank

cis-1,3-Dichloropropene	ND	0.50
Toluene	ND	0.50
Tetrachloroethene	ND	0.50
trans-1,3-Dichloropropene	ND	0.50
1,1,2-Trichloroethane	ND	0.50
Dibromochloromethane	ND	0.50
1,3-Dichloropropane	ND	0.50
Chlorobenzene	ND	0.50
Ethylbenzene	ND	0.50
1,1,1,2-Tetrachloroethane	ND	0.50
m,p-Xylene	ND	0.50
o-Xylene	ND	0.50
Bromoform	ND	0.50
Styrene	ND	0.50
Isopropylbenzene	ND	0.50
Bromobenzene	ND	0.50
n-Propylbenzene	ND	0.50
1,1,2,2-Tetrachloroethane	ND	0.50
2-Chlorotoluene	ND	0.50
1,2,3-Trichloropropane	ND	0.50
1,3,5-Trimethylbenzene	ND	0.50
4-Chlorotoluene	ND	0.50
tert-Butylbenzene	ND	0.50
1,2,4-Trimethylbenzene	ND	0.50
sec-Butylbenzene	ND	0.50
p-Isopropyltoluene	ND	0.50
1,3-Dichlorobenzene	ND	0.50
1,4-Dichlorobenzene	ND	0.50
n-Butylbenzene	ND	0.50
1,2-Dichlorobenzene	ND	0.50
Hexachlorobutadiene	ND	0.50
1,2,4-Trichlorobenzene	ND	0.50
Naphthalene	ND	0.50
1,2,3-Trichlorobenzene	ND	0.50

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

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CLIENT: Cranmer Analytical Laboratory

Work Order: 1903185

Project: GBC0365

QC SUMMARY REPORT

Method Blank

Surrogate: Dibromofluoromethane	1.07	0.10	1.00	0	107%	70	130	0
Surrogate: 1,2-Dichlorobenzene-d4	1.03	0.10	1.00	0	103%	70	130	0

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

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North Coast Laboratories, Ltd.

Date: 3/15/2019

CLIENT: Cranmer Analytical Laboratory
Work Order: 1903185
Project: GBC0365

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID	LCS-19049	Batch ID:	R98676	Test Code:	524W	Units:	µg/L	Analysis Date	3/11/2019 9:15:00 AM	Prep Date	
Client ID:		Run ID:	ORGCMS3_190311A	SeqNo:	1403336						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	3.758	0.50	5.00	0	75.2%	70	130	0			
Chloromethane	4.510	0.50	5.00	0	90.2%	70	130	0			
Vinyl Chloride	4.350	0.50	5.00	0	87.0%	70	130	0			
Bromomethane	5.042	0.50	5.00	0	101%	70	130	0			
Chloroethane	4.528	0.50	5.00	0	90.6%	70	130	0			
Trichlorofluoromethane	4.473	0.50	5.00	0	89.5%	70	130	0			
1,1-Dichloroethene	4.704	0.50	5.00	0	94.1%	70	130	0			
1,1,2-Trichlorotrifluoroethane	4.514	0.50	5.00	0	90.3%	70	130	0			
Methylene Chloride	4.608	0.50	5.00	0	92.2%	70	130	0			
trans-1,2-Dichloroethene	4.671	0.50	5.00	0	93.4%	70	130	0			
Methyl tert-butyl ether (MTBE)	4.287	3.0	5.00	0	85.7%	70	130	0			
Tert-butyl alcohol (TBA)	66.72	15	100	0	66.7%	70	130	0			S
Di-isopropyl ether (DIPE)	4.596	3.0	5.00	0	91.9%	70	130	0			
1,1-Dichloroethane	4.823	0.50	5.00	0	96.5%	70	130	0			
Ethyl tert-butyl ether (ETBE)	4.640	3.0	5.00	0	92.8%	70	130	0			
cis-1,2-Dichloroethene	4.715	0.50	5.00	0	94.3%	70	130	0			
2,2-Dichloropropane	5.242	0.50	5.00	0	105%	70	130	0			
Bromochloromethane	4.220	0.50	5.00	0	84.4%	70	130	0			
Chloroform	4.688	0.50	5.00	0	93.8%	70	130	0			
Carbon tetrachloride	4.659	0.50	5.00	0	93.2%	70	130	0			
1,1,1-Trichloroethane	4.826	0.50	5.00	0	96.5%	70	130	0			
1,1-Dichloropropene	4.602	0.50	5.00	0	92.0%	70	130	0			
Benzene	4.613	0.50	5.00	0	92.3%	70	130	0			
1,2-Dichloroethane	4.480	0.50	5.00	0	89.6%	70	130	0			
Tert-amyl methyl ether (TAME)	4.392	3.0	5.00	0	87.8%	70	130	0			
Trichloroethene	4.565	0.50	5.00	0	91.3%	70	130	0			
Dibromomethane	4.266	0.50	5.00	0	85.3%	70	130	0			
1,2-Dichloropropane	4.705	0.50	5.00	0	94.1%	70	130	0			

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

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CLIENT: Cranmer Analytical Laboratory
Work Order: 1903185
Project: GBC0365

QC SUMMARY REPORT

Laboratory Control Spike

Bromodichloromethane	4.673	0.50	5.00	0	93.5%	70	130	0
cis-1,3-Dichloropropene	4.526	0.50	5.00	0	90.5%	70	130	0
Toluene	4.666	0.50	5.00	0	93.3%	70	130	0
Tetrachloroethene	4.508	0.50	5.00	0	90.2%	70	130	0
trans-1,3-Dichloropropene	3.707	0.50	5.00	0	74.1%	70	130	0
1,1,2-Trichloroethane	4.013	0.50	5.00	0	80.3%	70	130	0
Dibromochloromethane	4.636	0.50	5.00	0	92.7%	70	130	0
1,3-Dichloropropane	4.449	0.50	5.00	0	89.0%	70	130	0
Chlorobenzene	4.861	0.50	5.00	0	97.2%	70	130	0
Ethylbenzene	4.768	0.50	5.00	0	95.4%	70	130	0
1,1,1,2-Tetrachloroethane	4.918	0.50	5.00	0	98.4%	70	130	0
m,p-Xylene	9.786	0.50	10.0	0	97.9%	70	130	0
o-Xylene	4.853	0.50	5.00	0	97.1%	70	130	0
Bromoform	4.358	0.50	5.00	0	87.2%	70	130	0
Styrene	5.041	0.50	5.00	0	101%	70	130	0
Isopropylbenzene	4.717	0.50	5.00	0	94.3%	70	130	0
Bromobenzene	4.760	0.50	5.00	0	95.2%	70	130	0
n-Propylbenzene	4.928	0.50	5.00	0	98.6%	70	130	0
1,1,2,2-Tetrachloroethane	3.918	0.50	5.00	0	78.4%	70	130	0
2-Chlorotoluene	4.859	0.50	5.00	0	97.2%	70	130	0
1,2,3-Trichloropropane	3.888	0.50	5.00	0	77.8%	70	130	0
1,3,5-Trimethylbenzene	5.100	0.50	5.00	0	102%	70	130	0
4-Chlorotoluene	4.874	0.50	5.00	0	97.5%	70	130	0
tert-Butylbenzene	4.897	0.50	5.00	0	97.9%	70	130	0
1,2,4-Trimethylbenzene	5.054	0.50	5.00	0	101%	70	130	0
sec-Butylbenzene	4.887	0.50	5.00	0	97.7%	70	130	0
p-Isopropyltoluene	4.934	0.50	5.00	0	98.7%	70	130	0
1,3-Dichlorobenzene	4.894	0.50	5.00	0	97.9%	70	130	0
1,4-Dichlorobenzene	4.701	0.50	5.00	0	94.0%	70	130	0
n-Butylbenzene	4.731	0.50	5.00	0	94.6%	70	130	0
1,2-Dichlorobenzene	4.603	0.50	5.00	0	92.1%	70	130	0
Hexachlorobutadiene	4.500	0.50	5.00	0	90.0%	70	130	0
1,2,4-Trichlorobenzene	4.380	0.50	5.00	0	87.6%	70	130	0
Naphthalene	3.262	0.50	5.00	0	65.3%	70	130	0

S

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

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CLIENT: Cranmer Analytical Laboratory**Work Order:** 1903185**Project:** GBC0365**QC SUMMARY REPORT**

Laboratory Control Spike

1,2,3-Trichlorobenzene	4.158	0.50	5.00	0	83.2%	70	130	0
Surrogate: Dibromofluoromethane	1.00	0.10	1.00	0	100%	70	130	0
Surrogate: 1,2-Dichlorobenzene-d4	0.940	0.10	1.00	0	94.0%	70	130	0

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

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CLIENT: Cranmer Analytical Laboratory
Work Order: 1903185
Project: GBC0365

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID	LCS-19052	Batch ID:	R98701	Test Code:	524W	Units:	µg/L	Analysis Date	3/13/2019 10:26:00 AM	Prep Date	
Client ID:		Run ID:	ORGCMS2_190313A	SeqNo:	1403778						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	6.403	0.50	5.00	0	128%	70	130	0			
Chloromethane	7.966	0.50	5.00	0	159%	70	130	0			S
Vinyl Chloride	5.000	0.50	5.00	0	100%	70	130	0			
Bromomethane	6.473	0.50	5.00	0	129%	70	130	0			
Chloroethane	6.676	0.50	5.00	0	134%	70	130	0			S
Trichlorofluoromethane	6.395	0.50	5.00	0	128%	70	130	0			
1,1-Dichloroethene	4.932	0.50	5.00	0	98.6%	70	130	0			
1,1,2-Trichlorotrifluoroethane	4.936	0.50	5.00	0	98.7%	70	130	0			
Methylene Chloride	4.811	0.50	5.00	0	96.2%	70	130	0			
trans-1,2-Dichloroethene	5.172	0.50	5.00	0	103%	70	130	0			
Methyl tert-butyl ether (MTBE)	3.729	3.0	5.00	0	74.6%	70	130	0			
Tert-butyl alcohol (TBA)	51.34	15	100	0	51.3%	70	130	0			S
Di-isopropyl ether (DIPE)	4.512	3.0	5.00	0	90.2%	70	130	0			
1,1-Dichloroethane	5.081	0.50	5.00	0	102%	70	130	0			
Ethyl tert-butyl ether (ETBE)	4.106	3.0	5.00	0	82.1%	70	130	0			
cis-1,2-Dichloroethene	4.949	0.50	5.00	0	99.0%	70	130	0			
2,2-Dichloropropane	4.905	0.50	5.00	0	98.1%	70	130	0			
Bromochloromethane	5.083	0.50	5.00	0	102%	70	130	0			
Chloroform	5.192	0.50	5.00	0	104%	70	130	0			
Carbon tetrachloride	5.139	0.50	5.00	0	103%	70	130	0			
1,1,1-Trichloroethane	5.214	0.50	5.00	0	104%	70	130	0			
1,1-Dichloropropene	4.990	0.50	5.00	0	99.8%	70	130	0			
Benzene	4.921	0.50	5.00	0	98.4%	70	130	0			
1,2-Dichloroethane	4.505	0.50	5.00	0	90.1%	70	130	0			
Tert-amyl methyl ether (TAME)	3.730	3.0	5.00	0	74.6%	70	130	0			
Trichloroethene	5.030	0.50	5.00	0	101%	70	130	0			
Dibromomethane	4.300	0.50	5.00	0	86.0%	70	130	0			
1,2-Dichloropropane	4.822	0.50	5.00	0	96.4%	70	130	0			
Bromodichloromethane	5.019	0.50	5.00	0	100%	70	130	0			

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Cranmer Analytical Laboratory
Work Order: 1903185
Project: GBC0365

QC SUMMARY REPORT

Laboratory Control Spike

cis-1,3-Dichloropropene	4.700	0.50	5.00	0	94.0%	70	130	0	
Toluene	4.718	0.50	5.00	0	94.4%	70	130	0	
Tetrachloroethene	4.853	0.50	5.00	0	97.1%	70	130	0	
trans-1,3-Dichloropropene	4.298	0.50	5.00	0	86.0%	70	130	0	
1,1,2-Trichloroethane	4.001	0.50	5.00	0	80.0%	70	130	0	
Dibromochloromethane	4.399	0.50	5.00	0	88.0%	70	130	0	
1,3-Dichloropropane	3.900	0.50	5.00	0	78.0%	70	130	0	
Chlorobenzene	4.694	0.50	5.00	0	93.9%	70	130	0	
Ethylbenzene	4.586	0.50	5.00	0	91.7%	70	130	0	
1,1,1,2-Tetrachloroethane	4.406	0.50	5.00	0	88.1%	70	130	0	
m,p-Xylene	9.596	0.50	10.0	0	96.0%	70	130	0	
o-Xylene	4.627	0.50	5.00	0	92.5%	70	130	0	
Bromoform	4.099	0.50	5.00	0	82.0%	70	130	0	
Styrene	4.823	0.50	5.00	0	96.5%	70	130	0	
Isopropylbenzene	4.817	0.50	5.00	0	96.3%	70	130	0	
Bromobenzene	4.745	0.50	5.00	0	94.9%	70	130	0	
n-Propylbenzene	4.940	0.50	5.00	0	98.8%	70	130	0	
1,1,2,2-Tetrachloroethane	3.445	0.50	5.00	0	68.9%	70	130	0	S
2-Chlorotoluene	5.009	0.50	5.00	0	100%	70	130	0	
1,2,3-Trichloropropane	3.445	0.50	5.00	0	68.9%	70	130	0	S
1,3,5-Trimethylbenzene	4.927	0.50	5.00	0	98.5%	70	130	0	
4-Chlorotoluene	5.055	0.50	5.00	0	101%	70	130	0	
tert-Butylbenzene	4.882	0.50	5.00	0	97.6%	70	130	0	
1,2,4-Trimethylbenzene	5.023	0.50	5.00	0	100%	70	130	0	
sec-Butylbenzene	4.978	0.50	5.00	0	99.6%	70	130	0	
p-Isopropyltoluene	5.080	0.50	5.00	0	102%	70	130	0	
1,3-Dichlorobenzene	5.169	0.50	5.00	0	103%	70	130	0	
1,4-Dichlorobenzene	4.994	0.50	5.00	0	99.9%	70	130	0	
n-Butylbenzene	5.050	0.50	5.00	0	101%	70	130	0	
1,2-Dichlorobenzene	4.873	0.50	5.00	0	97.5%	70	130	0	
Hexachlorobutadiene	5.178	0.50	5.00	0	104%	70	130	0	
1,2,4-Trichlorobenzene	4.565	0.50	5.00	0	91.3%	70	130	0	
Naphthalene	3.383	0.50	5.00	0	67.7%	70	130	0	S
1,2,3-Trichlorobenzene	4.333	0.50	5.00	0	86.7%	70	130	0	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

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CLIENT: Cranmer Analytical Laboratory

Work Order: 1903185

Project: GBC0365

QC SUMMARY REPORT

Laboratory Control Spike

Surrogate: Dibromofluoromethane	1.05	0.10	1.00	0	105%	70	130	0
Surrogate: 1,2-Dichlorobenzene-d4	0.995	0.10	1.00	0	99.5%	70	130	0

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

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CLIENT: Cranmer Analytical Laboratory
Work Order: 1903185
Project: GBC0365

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID	LCS-19053	Batch ID:	R98713	Test Code:	524W	Units:	µg/L	Analysis Date	3/14/2019 10:13:00 AM	Prep Date	
Client ID:		Run ID:	ORGCMS2_190314A	SeqNo:	1403964						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	5.187	0.50	5.00	0	104%	70	130	0			
Chloromethane	7.366	0.50	5.00	0	147%	70	130	0			S
Vinyl Chloride	5.268	0.50	5.00	0	105%	70	130	0			
Bromomethane	6.125	0.50	5.00	0	122%	70	130	0			
Chloroethane	5.860	0.50	5.00	0	117%	70	130	0			
Trichlorofluoromethane	5.972	0.50	5.00	0	119%	70	130	0			
1,1-Dichloroethene	5.686	0.50	5.00	0	114%	70	130	0			
1,1,2-Trichlorotrifluoroethane	5.731	0.50	5.00	0	115%	70	130	0			
Methylene Chloride	5.318	0.50	5.00	0	106%	70	130	0			
trans-1,2-Dichloroethene	5.827	0.50	5.00	0	117%	70	130	0			
Methyl tert-butyl ether (MTBE)	4.599	3.0	5.00	0	92.0%	70	130	0			
Tert-butyl alcohol (TBA)	68.38	15	100	0	68.4%	70	130	0			S
Di-isopropyl ether (DIPE)	5.202	3.0	5.00	0	104%	70	130	0			
1,1-Dichloroethane	5.731	0.50	5.00	0	115%	70	130	0			
Ethyl tert-butyl ether (ETBE)	4.787	3.0	5.00	0	95.7%	70	130	0			
cis-1,2-Dichloroethene	5.798	0.50	5.00	0	116%	70	130	0			
2,2-Dichloropropane	5.531	0.50	5.00	0	111%	70	130	0			
Bromochloromethane	5.908	0.50	5.00	0	118%	70	130	0			
Chloroform	5.923	0.50	5.00	0	118%	70	130	0			
Carbon tetrachloride	5.716	0.50	5.00	0	114%	70	130	0			
1,1,1-Trichloroethane	5.870	0.50	5.00	0	117%	70	130	0			
1,1-Dichloropropene	5.764	0.50	5.00	0	115%	70	130	0			
Benzene	5.622	0.50	5.00	0	112%	70	130	0			
1,2-Dichloroethane	5.341	0.50	5.00	0	107%	70	130	0			
Tert-amyl methyl ether (TAME)	4.439	3.0	5.00	0	88.8%	70	130	0			
Trichloroethene	5.607	0.50	5.00	0	112%	70	130	0			
Dibromomethane	4.975	0.50	5.00	0	99.5%	70	130	0			
1,2-Dichloropropane	5.517	0.50	5.00	0	110%	70	130	0			
Bromodichloromethane	5.675	0.50	5.00	0	113%	70	130	0			

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

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CLIENT: Cranmer Analytical Laboratory
Work Order: 1903185
Project: GBC0365

QC SUMMARY REPORT

Laboratory Control Spike

cis-1,3-Dichloropropene	5.260	0.50	5.00	0	105%	70	130	0
Toluene	5.394	0.50	5.00	0	108%	70	130	0
Tetrachloroethene	5.476	0.50	5.00	0	110%	70	130	0
trans-1,3-Dichloropropene	4.730	0.50	5.00	0	94.6%	70	130	0
1,1,2-Trichloroethane	4.696	0.50	5.00	0	93.9%	70	130	0
Dibromochloromethane	4.943	0.50	5.00	0	98.9%	70	130	0
1,3-Dichloropropane	4.441	0.50	5.00	0	88.8%	70	130	0
Chlorobenzene	5.150	0.50	5.00	0	103%	70	130	0
Ethylbenzene	4.968	0.50	5.00	0	99.4%	70	130	0
1,1,1,2-Tetrachloroethane	4.876	0.50	5.00	0	97.5%	70	130	0
m,p-Xylene	10.39	0.50	10.0	0	104%	70	130	0
o-Xylene	4.963	0.50	5.00	0	99.3%	70	130	0
Bromoform	4.570	0.50	5.00	0	91.4%	70	130	0
Styrene	5.163	0.50	5.00	0	103%	70	130	0
Isopropylbenzene	5.129	0.50	5.00	0	103%	70	130	0
Bromobenzene	5.269	0.50	5.00	0	105%	70	130	0
n-Propylbenzene	5.359	0.50	5.00	0	107%	70	130	0
1,1,2,2-Tetrachloroethane	4.133	0.50	5.00	0	82.7%	70	130	0
2-Chlorotoluene	5.412	0.50	5.00	0	108%	70	130	0
1,2,3-Trichloropropane	4.121	0.50	5.00	0	82.4%	70	130	0
1,3,5-Trimethylbenzene	5.451	0.50	5.00	0	109%	70	130	0
4-Chlorotoluene	5.473	0.50	5.00	0	109%	70	130	0
tert-Butylbenzene	5.287	0.50	5.00	0	106%	70	130	0
1,2,4-Trimethylbenzene	5.434	0.50	5.00	0	109%	70	130	0
sec-Butylbenzene	5.504	0.50	5.00	0	110%	70	130	0
p-Isopropyltoluene	5.398	0.50	5.00	0	108%	70	130	0
1,3-Dichlorobenzene	5.600	0.50	5.00	0	112%	70	130	0
1,4-Dichlorobenzene	5.536	0.50	5.00	0	111%	70	130	0
n-Butylbenzene	5.397	0.50	5.00	0	108%	70	130	0
1,2-Dichlorobenzene	5.359	0.50	5.00	0	107%	70	130	0
Hexachlorobutadiene	5.589	0.50	5.00	0	112%	70	130	0
1,2,4-Trichlorobenzene	4.955	0.50	5.00	0	99.1%	70	130	0
Naphthalene	3.851	0.50	5.00	0	77.0%	70	130	0
1,2,3-Trichlorobenzene	4.790	0.50	5.00	0	95.8%	70	130	0

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Cranmer Analytical Laboratory

Work Order: 1903185

Project: GBC0365

QC SUMMARY REPORT

Laboratory Control Spike

Surrogate: Dibromofluoromethane	1.07	0.10	1.00	0	107%	70	130	0
Surrogate: 1,2-Dichlorobenzene-d4	0.990	0.10	1.00	0	99.0%	70	130	0

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

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Cranmer Engineering, Inc.
Integrated Engineering Services

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**SUBCONTRACT
ORDER**

Sending Laboratory:

CEI
1188 East Main Street
Grass Valley, CA 98021
Phone: 530-273-7284
Fax: -

Project Manager: Justin Smith

Subcontracted Laboratory:

North Coast Laboratories LTD
5680 West End Road
Arcata, CA 955219202
Phone: (707) 822-4649
Fax:

Work Order: GBC0365

Analysis	Comments
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Sample ID: GBC0365-01 786 ROE

Drinking Water Sampled: 03/07/2019 10:20

Volatile Organic Compounds (VOCs)

Containers Supplied:

VOA w/HCl (A) VOA w/HCl (B) VOA w/HCl (C)

Sample ID: GBC0365-02 5276 Buckboard Ln

Drinking Water Sampled: 03/07/2019 10:30

Volatile Organic Compounds (VOCs)

Containers Supplied:

VOA w/HCl (A) VOA w/HCl (B) VOA w/HCl (C)

Sample ID: GBC0365-03 5280 Buckboard Ln

Drinking Water Sampled: 03/07/2019 10:35

Volatile Organic Compounds (VOCs)

Containers Supplied:

VOA w/HCl (A) VOA w/HCl (B) VOA w/HCl (C)

Sample ID: GBC0365-04 5290 Buckboard Ln

Drinking Water Sampled: 03/07/2019 10:40

Volatile Organic Compounds (VOCs)

Containers Supplied:

VOA w/HCl (A) VOA w/HCl (B) VOA w/HCl (C)

Sample ID: GBC0365-05 Blow Off Buck Board Ln.

Drinking Water Sampled: 03/07/2019 10:45

Volatile Organic Compounds (VOCs)

Containers Supplied:

VOA w/HCl (A) VOA w/HCl (B) VOA w/HCl (C)

EDT Upload YES ☐ NO ☒

HAS/CAL
Released By

3/8/19
Date

1.2°C
Received By

3/9/19
Date



SUBCONTRACT ORDER (Continued)

Work Order: GBC0365 (Continued)

Analysis	Comments
Sample ID: GBC0365-06 602 Boquest <i>Drinking Water Sampled: 03/07/2019 11:30</i>	
Volatile Organic Compounds (VOCs)	
<i>Containers Supplied:</i>	
VOA w/HCl (A)	VOA w/HCl (B) VOA w/HCl (C)
Sample ID: GBC0365-07 Becker Way Blow Off <i>Drinking Water Sampled: 03/07/2019 11:50</i>	
Volatile Organic Compounds (VOCs)	
<i>Containers Supplied:</i>	
VOA w/HCl (A)	VOA w/HCl (B) VOA w/HCl (C)
Sample ID: GBC0365-08 6231 Becker <i>Drinking Water Sampled: 03/07/2019 12:00</i>	
Volatile Organic Compounds (VOCs)	
<i>Containers Supplied:</i>	
VOA w/HCl (A)	VOA w/HCl (B) VOA w/HCl (C)
Sample ID: GBC0365-09 6229 Becker <i>Drinking Water Sampled: 03/07/2019 12:05</i>	
Volatile Organic Compounds (VOCs)	
<i>Containers Supplied:</i>	
VOA w/HCl (A)	VOA w/HCl (B) VOA w/HCl (C)
Sample ID: GBC0365-10 Boquest Blow Off <i>Drinking Water Sampled: 03/07/2019 13:20</i>	
Volatile Organic Compounds (VOCs)	
<i>Containers Supplied:</i>	
VOA w/HCl (A)	VOA w/HCl (B) VOA w/HCl (C)

EDT Upload YES ☐ NO ☐

Released By

Date

Received By

Date

2.2°C *3/9/19*