



Cranmer Engineering, Inc.
Integrated Engineering Services

Sample Results

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

Work Order: GBC0361

Received: 03/08/19 11:33

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: 2212 Richmond Rd**Date Collected:** 3/7/2019 11:30:00AM**Sample Number** GBC0361-01**Collected by:** Ken Capra

Source Type: Surface

Title 22 Designation:

Analyzing Laboratory: North Coast Laboratories LTD

Report with Method References attached.

Analysis Volatile Organic Compounds (VOCs)**Sample Site:** 2216 Richmond Rd**Date Collected:** 3/7/2019 11:40:00AM**Sample Number** GBC0361-02**Collected by:** Ken Capra

Source Type: Surface

Title 22 Designation:

Analyzing Laboratory: North Coast Laboratories LTD

Report with Method References attached.

Analysis Volatile Organic Compounds (VOCs)**Sample Site:** 2213 Richmond Rd**Date Collected:** 3/7/2019 11:50:00AM**Sample Number** GBC0361-03**Collected by:** Ken Capra

Source Type: Surface

Title 22 Designation:

Analyzing Laboratory: North Coast Laboratories LTD

Report with Method References attached.

Analysis Volatile Organic Compounds (VOCs)**Sample Site:** 2220 Richmond Rd**Date Collected:** 3/7/2019 12:00:00PM**Sample Number** GBC0361-04**Collected by:** Ken Capra

Source Type: Surface

Title 22 Designation:

Analyzing Laboratory: North Coast Laboratories LTD

Report with Method References attached.

Analysis Volatile Organic Compounds (VOCs)**Sample Site:** 2217 Richmond Rd**Date Collected:** 3/7/2019 12:05:00PM**Sample Number** GBC0361-05**Collected by:** Ken Capra

Source Type: Surface

Title 22 Designation:

Analyzing Laboratory: North Coast Laboratories LTD

Report with Method References attached.

Analysis Volatile Organic Compounds (VOCs)**Sample Site:** Blow Off 2213 Richmond Rd**Date Collected:** 3/7/2019 12:20:00PM**Sample Number** GBC0361-06**Collected by:** Ken Capra

Source Type: Surface

Title 22 Designation:

Analyzing Laboratory: North Coast Laboratories LTD

Report with Method References attached.

Analysis Volatile Organic Compounds (VOCs)*Integrating people, land and water.*

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Justin Smith

Director

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**NORTH COAST
LABORATORIES LTD.**

March 14, 2019

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

Attn: Michelle Harlin

Order No.: 1903181
Invoice No.: 145316
PO No.:
ELAP No.1247-Expires July 2020

RE: GBC0361

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	GBC0361-01 2212 Richmond Rd
02A	GBC0361-02 2216 Richmond Rd
03A	GBC0361-03 2213 Richmond Rd
04A	GBC0361-04 2220 Richmond Rd
05A	GBC0361-05 2217 Richmond Rd
06A	GBC0361-06 Blow Off 2213 Richmond Rd

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: 14-Mar-2019

WorkOrder: 1903181

ANALYTICAL REPORT

Client Sample ID: GBC0361-01 2212 Richmond Rd

Received: 3/9/2019

Lab ID: 1903181-01A

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		3/12/2019
Chloromethane	ND		0.50	µg/L	1.0		3/12/2019
Vinyl Chloride	ND		0.50	µg/L	1.0		3/12/2019
Bromomethane	ND		0.50	µg/L	1.0		3/12/2019
Chloroethane	ND		0.50	µg/L	1.0		3/12/2019
Trichlorofluoromethane	ND		0.50	µg/L	1.0		3/12/2019
1,1-Dichloroethene	ND		0.50	µg/L	1.0		3/12/2019
1,1,2-Trichlorotrifluoroethane	ND		0.50	µg/L	1.0		3/12/2019
Methylene Chloride	ND		0.50	µg/L	1.0		3/12/2019
trans-1,2-Dichloroethene	ND		0.50	µg/L	1.0		3/12/2019
Methyl tert-butyl ether (MTBE)	ND		3.0	µg/L	1.0		3/12/2019
Tert-butyl alcohol (TBA)	ND		15	µg/L	1.0		3/12/2019
Di-isopropyl ether (DIPE)	ND		3.0	µg/L	1.0		3/12/2019
1,1-Dichloroethane	ND		0.50	µg/L	1.0		3/12/2019
Ethyl tert-butyl ether (ETBE)	ND		3.0	µg/L	1.0		3/12/2019
cis-1,2-Dichloroethene	ND		0.50	µg/L	1.0		3/12/2019
2,2-Dichloropropane	ND		0.50	µg/L	1.0		3/12/2019
Bromochloromethane	ND		0.50	µg/L	1.0		3/12/2019
Chloroform	37		0.50	µg/L	1.0		3/12/2019
Carbon tetrachloride	ND		0.50	µg/L	1.0		3/12/2019
1,1,1-Trichloroethane	ND		0.50	µg/L	1.0		3/12/2019
1,1-Dichloropropene	ND		0.50	µg/L	1.0		3/12/2019
Benzene	2.0		0.50	µg/L	1.0		3/12/2019
1,2-Dichloroethane	ND		0.50	µg/L	1.0		3/12/2019
Tert-amyl methyl ether (TAME)	ND		3.0	µg/L	1.0		3/12/2019
Trichloroethene	ND		0.50	µg/L	1.0		3/12/2019
Dibromomethane	ND		0.50	µg/L	1.0		3/12/2019
1,2-Dichloropropane	ND		0.50	µg/L	1.0		3/12/2019
Bromodichloromethane	2.8		0.50	µg/L	1.0		3/12/2019
cis-1,3-Dichloropropene	ND		0.50	µg/L	1.0		3/12/2019
Toluene	0.70		0.50	µg/L	1.0		3/12/2019
Tetrachloroethene	ND		0.50	µg/L	1.0		3/12/2019
trans-1,3-Dichloropropene	ND		0.50	µg/L	1.0		3/12/2019
1,1,2-Trichloroethane	ND		0.50	µg/L	1.0		3/12/2019
Dibromochloromethane	ND		0.50	µg/L	1.0		3/12/2019
1,3-Dichloropropane	ND		0.50	µg/L	1.0		3/12/2019
Chlorobenzene	ND		0.50	µg/L	1.0		3/12/2019
Ethylbenzene	ND		0.50	µg/L	1.0		3/12/2019
1,1,1,2-Tetrachloroethane	ND		0.50	µg/L	1.0		3/12/2019
m,p-Xylene	ND		0.50	µg/L	1.0		3/12/2019
o-Xylene	ND		0.50	µg/L	1.0		3/12/2019
Bromoform	ND		0.50	µg/L	1.0		3/12/2019
Styrene	ND		0.50	µg/L	1.0		3/12/2019
Isopropylbenzene	ND		0.50	µg/L	1.0		3/12/2019
Bromobenzene	ND		0.50	µg/L	1.0		3/12/2019
n-Propylbenzene	ND		0.50	µg/L	1.0		3/12/2019
1,1,2,2-Tetrachloroethane	ND		0.50	µg/L	1.0		3/12/2019

Date: 14-Mar-2019

WorkOrder: 1903181

ANALYTICAL REPORT

Client Sample ID: GBC0361-01 2212 Richmond Rd

Received: 3/9/2019

Lab ID: 1903181-01A

Collected: 3/7/2019 11:30

2-Chlorotoluene	ND	0.50 µg/L	1.0	3/12/2019
1,2,3-Trichloropropane	ND	0.50 µg/L	1.0	3/12/2019
1,3,5-Trimethylbenzene	ND	0.50 µg/L	1.0	3/12/2019
4-Chlorotoluene	ND	0.50 µg/L	1.0	3/12/2019
tert-Butylbenzene	ND	0.50 µg/L	1.0	3/12/2019
1,2,4-Trimethylbenzene	ND	0.50 µg/L	1.0	3/12/2019
sec-Butylbenzene	ND	0.50 µg/L	1.0	3/12/2019
p-Isopropyltoluene	ND	0.50 µg/L	1.0	3/12/2019
1,3-Dichlorobenzene	ND	0.50 µg/L	1.0	3/12/2019
1,4-Dichlorobenzene	ND	0.50 µg/L	1.0	3/12/2019
n-Butylbenzene	ND	0.50 µg/L	1.0	3/12/2019
1,2-Dichlorobenzene	ND	0.50 µg/L	1.0	3/12/2019
Hexachlorobutadiene	ND	0.50 µg/L	1.0	3/12/2019
1,2,4-Trichlorobenzene	ND	0.50 µg/L	1.0	3/12/2019
Naphthalene	0.57	0.50 µg/L	1.0	3/12/2019
1,2,3-Trichlorobenzene	ND	0.50 µg/L	1.0	3/12/2019
Surrogate: 1,2-Dichlorobenzene-d4	102	70-130 % Rec	1.0	3/12/2019
Surrogate: Dibromofluoromethane	102	70-130 % Rec	1.0	3/12/2019

Date: 14-Mar-2019

WorkOrder: 1903181

ANALYTICAL REPORT

Client Sample ID: GBC0361-02 2216 Richmond Rd

Received: 3/9/2019

Lab ID: 1903181-02A

Collected: 3/7/2019 11:40

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		3/12/2019
Chloromethane	ND		0.50	µg/L	1.0		3/12/2019
Vinyl Chloride	ND		0.50	µg/L	1.0		3/12/2019
Bromomethane	ND		0.50	µg/L	1.0		3/12/2019
Chloroethane	ND		0.50	µg/L	1.0		3/12/2019
Trichlorofluoromethane	ND		0.50	µg/L	1.0		3/12/2019
1,1-Dichloroethene	ND		0.50	µg/L	1.0		3/12/2019
1,1,2-Trichlorotrifluoroethane	ND		0.50	µg/L	1.0		3/12/2019
Methylene Chloride	ND		0.50	µg/L	1.0		3/12/2019
trans-1,2-Dichloroethene	ND		0.50	µg/L	1.0		3/12/2019
Methyl tert-butyl ether (MTBE)	ND		3.0	µg/L	1.0		3/12/2019
Tert-butyl alcohol (TBA)	ND		15	µg/L	1.0		3/12/2019
Di-isopropyl ether (DIPE)	ND		3.0	µg/L	1.0		3/12/2019
1,1-Dichloroethane	ND		0.50	µg/L	1.0		3/12/2019
Ethyl tert-butyl ether (ETBE)	ND		3.0	µg/L	1.0		3/12/2019
cis-1,2-Dichloroethene	ND		0.50	µg/L	1.0		3/12/2019
2,2-Dichloropropane	ND		0.50	µg/L	1.0		3/12/2019
Bromochloromethane	ND		0.50	µg/L	1.0		3/12/2019
Chloroform	36		0.50	µg/L	1.0		3/12/2019
Carbon tetrachloride	ND		0.50	µg/L	1.0		3/12/2019
1,1,1-Trichloroethane	ND		0.50	µg/L	1.0		3/12/2019
1,1-Dichloropropene	ND		0.50	µg/L	1.0		3/12/2019
Benzene	ND		0.50	µg/L	1.0		3/12/2019
1,2-Dichloroethane	ND		0.50	µg/L	1.0		3/12/2019
Tert-amyl methyl ether (TAME)	ND		3.0	µg/L	1.0		3/12/2019
Trichloroethene	ND		0.50	µg/L	1.0		3/12/2019
Dibromomethane	ND		0.50	µg/L	1.0		3/12/2019
1,2-Dichloropropane	ND		0.50	µg/L	1.0		3/12/2019
Bromodichloromethane	2.8		0.50	µg/L	1.0		3/12/2019
cis-1,3-Dichloropropene	ND		0.50	µg/L	1.0		3/12/2019
Toluene	ND		0.50	µg/L	1.0		3/12/2019
Tetrachloroethene	ND		0.50	µg/L	1.0		3/12/2019
trans-1,3-Dichloropropene	ND		0.50	µg/L	1.0		3/12/2019
1,1,2-Trichloroethane	ND		0.50	µg/L	1.0		3/12/2019
Dibromochloromethane	ND		0.50	µg/L	1.0		3/12/2019
1,3-Dichloropropane	ND		0.50	µg/L	1.0		3/12/2019
Chlorobenzene	ND		0.50	µg/L	1.0		3/12/2019
Ethylbenzene	ND		0.50	µg/L	1.0		3/12/2019
1,1,1,2-Tetrachloroethane	ND		0.50	µg/L	1.0		3/12/2019
m,p-Xylene	ND		0.50	µg/L	1.0		3/12/2019
o-Xylene	ND		0.50	µg/L	1.0		3/12/2019
Bromoform	ND		0.50	µg/L	1.0		3/12/2019
Styrene	ND		0.50	µg/L	1.0		3/12/2019
Isopropylbenzene	ND		0.50	µg/L	1.0		3/12/2019
Bromobenzene	ND		0.50	µg/L	1.0		3/12/2019
n-Propylbenzene	ND		0.50	µg/L	1.0		3/12/2019
1,1,2,2-Tetrachloroethane	ND		0.50	µg/L	1.0		3/12/2019

Date: 14-Mar-2019

WorkOrder: 1903181

ANALYTICAL REPORT

Client Sample ID: GBC0361-02 2216 Richmond Rd

Received: 3/9/2019

Lab ID: 1903181-02A

Collected: 3/7/2019 11:40

2-Chlorotoluene	ND	0.50 µg/L	1.0	3/12/2019
1,2,3-Trichloropropane	ND	0.50 µg/L	1.0	3/12/2019
1,3,5-Trimethylbenzene	ND	0.50 µg/L	1.0	3/12/2019
4-Chlorotoluene	ND	0.50 µg/L	1.0	3/12/2019
tert-Butylbenzene	ND	0.50 µg/L	1.0	3/12/2019
1,2,4-Trimethylbenzene	ND	0.50 µg/L	1.0	3/12/2019
sec-Butylbenzene	ND	0.50 µg/L	1.0	3/12/2019
p-Isopropyltoluene	ND	0.50 µg/L	1.0	3/12/2019
1,3-Dichlorobenzene	ND	0.50 µg/L	1.0	3/12/2019
1,4-Dichlorobenzene	ND	0.50 µg/L	1.0	3/12/2019
n-Butylbenzene	ND	0.50 µg/L	1.0	3/12/2019
1,2-Dichlorobenzene	ND	0.50 µg/L	1.0	3/12/2019
Hexachlorobutadiene	ND	0.50 µg/L	1.0	3/12/2019
1,2,4-Trichlorobenzene	ND	0.50 µg/L	1.0	3/12/2019
Naphthalene	ND	0.50 µg/L	1.0	3/12/2019
1,2,3-Trichlorobenzene	ND	0.50 µg/L	1.0	3/12/2019
Surrogate: 1,2-Dichlorobenzene-d4	104	70-130 % Rec	1.0	3/12/2019
Surrogate: Dibromofluoromethane	101	70-130 % Rec	1.0	3/12/2019

Date: 14-Mar-2019

WorkOrder: 1903181

ANALYTICAL REPORT

Client Sample ID: GBC0361-03 2213 Richmond Rd

Received: 3/9/2019

Lab ID: 1903181-03A

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		3/12/2019
Chloromethane	ND		0.50	µg/L	1.0		3/12/2019
Vinyl Chloride	ND		0.50	µg/L	1.0		3/12/2019
Bromomethane	ND		0.50	µg/L	1.0		3/12/2019
Chloroethane	ND		0.50	µg/L	1.0		3/12/2019
Trichlorofluoromethane	ND		0.50	µg/L	1.0		3/12/2019
1,1-Dichloroethene	ND		0.50	µg/L	1.0		3/12/2019
1,1,2-Trichlorotrifluoroethane	ND		0.50	µg/L	1.0		3/12/2019
Methylene Chloride	ND		0.50	µg/L	1.0		3/12/2019
trans-1,2-Dichloroethene	ND		0.50	µg/L	1.0		3/12/2019
Methyl tert-butyl ether (MTBE)	ND		3.0	µg/L	1.0		3/12/2019
Tert-butyl alcohol (TBA)	ND		15	µg/L	1.0		3/12/2019
Di-isopropyl ether (DIPE)	ND		3.0	µg/L	1.0		3/12/2019
1,1-Dichloroethane	ND		0.50	µg/L	1.0		3/12/2019
Ethyl tert-butyl ether (ETBE)	ND		3.0	µg/L	1.0		3/12/2019
cis-1,2-Dichloroethene	ND		0.50	µg/L	1.0		3/12/2019
2,2-Dichloropropane	ND		0.50	µg/L	1.0		3/12/2019
Bromochloromethane	ND		0.50	µg/L	1.0		3/12/2019
Chloroform	38		0.50	µg/L	1.0		3/12/2019
Carbon tetrachloride	ND		0.50	µg/L	1.0		3/12/2019
1,1,1-Trichloroethane	ND		0.50	µg/L	1.0		3/12/2019
1,1-Dichloropropene	ND		0.50	µg/L	1.0		3/12/2019
Benzene	1.8		0.50	µg/L	1.0		3/12/2019
1,2-Dichloroethane	ND		0.50	µg/L	1.0		3/12/2019
Tert-amyl methyl ether (TAME)	ND		3.0	µg/L	1.0		3/12/2019
Trichloroethene	ND		0.50	µg/L	1.0		3/12/2019
Dibromomethane	ND		0.50	µg/L	1.0		3/12/2019
1,2-Dichloropropane	ND		0.50	µg/L	1.0		3/12/2019
Bromodichloromethane	2.7		0.50	µg/L	1.0		3/12/2019
cis-1,3-Dichloropropene	ND		0.50	µg/L	1.0		3/12/2019
Toluene	ND		0.50	µg/L	1.0		3/12/2019
Tetrachloroethene	ND		0.50	µg/L	1.0		3/12/2019
trans-1,3-Dichloropropene	ND		0.50	µg/L	1.0		3/12/2019
1,1,2-Trichloroethane	ND		0.50	µg/L	1.0		3/12/2019
Dibromochloromethane	ND		0.50	µg/L	1.0		3/12/2019
1,3-Dichloropropane	ND		0.50	µg/L	1.0		3/12/2019
Chlorobenzene	ND		0.50	µg/L	1.0		3/12/2019
Ethylbenzene	ND		0.50	µg/L	1.0		3/12/2019
1,1,1,2-Tetrachloroethane	ND		0.50	µg/L	1.0		3/12/2019
m,p-Xylene	ND		0.50	µg/L	1.0		3/12/2019
o-Xylene	ND		0.50	µg/L	1.0		3/12/2019
Bromoform	ND		0.50	µg/L	1.0		3/12/2019
Styrene	ND		0.50	µg/L	1.0		3/12/2019
Isopropylbenzene	ND		0.50	µg/L	1.0		3/12/2019
Bromobenzene	ND		0.50	µg/L	1.0		3/12/2019
n-Propylbenzene	ND		0.50	µg/L	1.0		3/12/2019
1,1,2,2-Tetrachloroethane	ND		0.50	µg/L	1.0		3/12/2019

Date: 14-Mar-2019

WorkOrder: 1903181

ANALYTICAL REPORT

Client Sample ID: GBC0361-03 2213 Richmond Rd

Received: 3/9/2019

Lab ID: 1903181-03A

Collected: 3/7/2019 11:50

2-Chlorotoluene	ND	0.50 µg/L	1.0	3/12/2019
1,2,3-Trichloropropane	ND	0.50 µg/L	1.0	3/12/2019
1,3,5-Trimethylbenzene	ND	0.50 µg/L	1.0	3/12/2019
4-Chlorotoluene	ND	0.50 µg/L	1.0	3/12/2019
tert-Butylbenzene	ND	0.50 µg/L	1.0	3/12/2019
1,2,4-Trimethylbenzene	ND	0.50 µg/L	1.0	3/12/2019
sec-Butylbenzene	ND	0.50 µg/L	1.0	3/12/2019
p-Isopropyltoluene	ND	0.50 µg/L	1.0	3/12/2019
1,3-Dichlorobenzene	ND	0.50 µg/L	1.0	3/12/2019
1,4-Dichlorobenzene	ND	0.50 µg/L	1.0	3/12/2019
n-Butylbenzene	ND	0.50 µg/L	1.0	3/12/2019
1,2-Dichlorobenzene	ND	0.50 µg/L	1.0	3/12/2019
Hexachlorobutadiene	ND	0.50 µg/L	1.0	3/12/2019
1,2,4-Trichlorobenzene	ND	0.50 µg/L	1.0	3/12/2019
Naphthalene	ND	0.50 µg/L	1.0	3/12/2019
1,2,3-Trichlorobenzene	ND	0.50 µg/L	1.0	3/12/2019
Surrogate: 1,2-Dichlorobenzene-d4	102	70-130 % Rec	1.0	3/12/2019
Surrogate: Dibromofluoromethane	99.0	70-130 % Rec	1.0	3/12/2019

Date: 14-Mar-2019

WorkOrder: 1903181

ANALYTICAL REPORT

Client Sample ID: GBC0361-04 2220 Richmond Rd

Received: 3/9/2019

Lab ID: 1903181-04A

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		3/12/2019
Chloromethane	ND		0.50	µg/L	1.0		3/12/2019
Vinyl Chloride	ND		0.50	µg/L	1.0		3/12/2019
Bromomethane	ND		0.50	µg/L	1.0		3/12/2019
Chloroethane	ND		0.50	µg/L	1.0		3/12/2019
Trichlorofluoromethane	ND		0.50	µg/L	1.0		3/12/2019
1,1-Dichloroethene	ND		0.50	µg/L	1.0		3/12/2019
1,1,2-Trichlorotrifluoroethane	ND		0.50	µg/L	1.0		3/12/2019
Methylene Chloride	ND		0.50	µg/L	1.0		3/12/2019
trans-1,2-Dichloroethene	ND		0.50	µg/L	1.0		3/12/2019
Methyl tert-butyl ether (MTBE)	ND		3.0	µg/L	1.0		3/12/2019
Tert-butyl alcohol (TBA)	ND		15	µg/L	1.0		3/12/2019
Di-isopropyl ether (DIPE)	ND		3.0	µg/L	1.0		3/12/2019
1,1-Dichloroethane	ND		0.50	µg/L	1.0		3/12/2019
Ethyl tert-butyl ether (ETBE)	ND		3.0	µg/L	1.0		3/12/2019
cis-1,2-Dichloroethene	ND		0.50	µg/L	1.0		3/12/2019
2,2-Dichloropropane	ND		0.50	µg/L	1.0		3/12/2019
Bromochloromethane	ND		0.50	µg/L	1.0		3/12/2019
Chloroform	31		0.50	µg/L	1.0		3/12/2019
Carbon tetrachloride	ND		0.50	µg/L	1.0		3/12/2019
1,1,1-Trichloroethane	ND		0.50	µg/L	1.0		3/12/2019
1,1-Dichloropropene	ND		0.50	µg/L	1.0		3/12/2019
Benzene	ND		0.50	µg/L	1.0		3/12/2019
1,2-Dichloroethane	ND		0.50	µg/L	1.0		3/12/2019
Tert-amyl methyl ether (TAME)	ND		3.0	µg/L	1.0		3/12/2019
Trichloroethene	ND		0.50	µg/L	1.0		3/12/2019
Dibromomethane	ND		0.50	µg/L	1.0		3/12/2019
1,2-Dichloropropane	ND		0.50	µg/L	1.0		3/12/2019
Bromodichloromethane	2.5		0.50	µg/L	1.0		3/12/2019
cis-1,3-Dichloropropene	ND		0.50	µg/L	1.0		3/12/2019
Toluene	ND		0.50	µg/L	1.0		3/12/2019
Tetrachloroethene	ND		0.50	µg/L	1.0		3/12/2019
trans-1,3-Dichloropropene	ND		0.50	µg/L	1.0		3/12/2019
1,1,2-Trichloroethane	ND		0.50	µg/L	1.0		3/12/2019
Dibromochloromethane	ND		0.50	µg/L	1.0		3/12/2019
1,3-Dichloropropane	ND		0.50	µg/L	1.0		3/12/2019
Chlorobenzene	ND		0.50	µg/L	1.0		3/12/2019
Ethylbenzene	ND		0.50	µg/L	1.0		3/12/2019
1,1,1,2-Tetrachloroethane	ND		0.50	µg/L	1.0		3/12/2019
m,p-Xylene	ND		0.50	µg/L	1.0		3/12/2019
o-Xylene	ND		0.50	µg/L	1.0		3/12/2019
Bromoform	ND		0.50	µg/L	1.0		3/12/2019
Styrene	ND		0.50	µg/L	1.0		3/12/2019
Isopropylbenzene	ND		0.50	µg/L	1.0		3/12/2019
Bromobenzene	ND		0.50	µg/L	1.0		3/12/2019
n-Propylbenzene	ND		0.50	µg/L	1.0		3/12/2019
1,1,2,2-Tetrachloroethane	ND		0.50	µg/L	1.0		3/12/2019

Date: 14-Mar-2019

WorkOrder: 1903181

ANALYTICAL REPORT

Client Sample ID: GBC0361-04 2220 Richmond Rd

Received: 3/9/2019

Lab ID: 1903181-04A

Collected: 3/7/2019 12:00

2-Chlorotoluene	ND	0.50 µg/L	1.0	3/12/2019
1,2,3-Trichloropropane	ND	0.50 µg/L	1.0	3/12/2019
1,3,5-Trimethylbenzene	ND	0.50 µg/L	1.0	3/12/2019
4-Chlorotoluene	ND	0.50 µg/L	1.0	3/12/2019
tert-Butylbenzene	ND	0.50 µg/L	1.0	3/12/2019
1,2,4-Trimethylbenzene	ND	0.50 µg/L	1.0	3/12/2019
sec-Butylbenzene	ND	0.50 µg/L	1.0	3/12/2019
p-Isopropyltoluene	ND	0.50 µg/L	1.0	3/12/2019
1,3-Dichlorobenzene	ND	0.50 µg/L	1.0	3/12/2019
1,4-Dichlorobenzene	ND	0.50 µg/L	1.0	3/12/2019
n-Butylbenzene	ND	0.50 µg/L	1.0	3/12/2019
1,2-Dichlorobenzene	ND	0.50 µg/L	1.0	3/12/2019
Hexachlorobutadiene	ND	0.50 µg/L	1.0	3/12/2019
1,2,4-Trichlorobenzene	ND	0.50 µg/L	1.0	3/12/2019
Naphthalene	ND	0.50 µg/L	1.0	3/12/2019
1,2,3-Trichlorobenzene	ND	0.50 µg/L	1.0	3/12/2019
Surrogate: 1,2-Dichlorobenzene-d4	104	70-130 % Rec	1.0	3/12/2019
Surrogate: Dibromofluoromethane	98.0	70-130 % Rec	1.0	3/12/2019

Date: 14-Mar-2019

WorkOrder: 1903181

ANALYTICAL REPORT

Client Sample ID: GBC0361-05 2217 Richmond Rd

Received: 3/9/2019

Lab ID: 1903181-05A

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		3/12/2019
Chloromethane	ND		0.50	µg/L	1.0		3/12/2019
Vinyl Chloride	ND		0.50	µg/L	1.0		3/12/2019
Bromomethane	ND		0.50	µg/L	1.0		3/12/2019
Chloroethane	ND		0.50	µg/L	1.0		3/12/2019
Trichlorofluoromethane	ND		0.50	µg/L	1.0		3/12/2019
1,1-Dichloroethene	ND		0.50	µg/L	1.0		3/12/2019
1,1,2-Trichlorotrifluoroethane	ND		0.50	µg/L	1.0		3/12/2019
Methylene Chloride	ND		0.50	µg/L	1.0		3/12/2019
trans-1,2-Dichloroethene	ND		0.50	µg/L	1.0		3/12/2019
Methyl tert-butyl ether (MTBE)	ND		3.0	µg/L	1.0		3/12/2019
Tert-butyl alcohol (TBA)	ND		15	µg/L	1.0		3/12/2019
Di-isopropyl ether (DIPE)	ND		3.0	µg/L	1.0		3/12/2019
1,1-Dichloroethane	ND		0.50	µg/L	1.0		3/12/2019
Ethyl tert-butyl ether (ETBE)	ND		3.0	µg/L	1.0		3/12/2019
cis-1,2-Dichloroethene	ND		0.50	µg/L	1.0		3/12/2019
2,2-Dichloropropane	ND		0.50	µg/L	1.0		3/12/2019
Bromochloromethane	ND		0.50	µg/L	1.0		3/12/2019
Chloroform	42		0.50	µg/L	1.0		3/12/2019
Carbon tetrachloride	ND		0.50	µg/L	1.0		3/12/2019
1,1,1-Trichloroethane	ND		0.50	µg/L	1.0		3/12/2019
1,1-Dichloropropene	ND		0.50	µg/L	1.0		3/12/2019
Benzene	2.1		0.50	µg/L	1.0		3/12/2019
1,2-Dichloroethane	ND		0.50	µg/L	1.0		3/12/2019
Tert-amyl methyl ether (TAME)	ND		3.0	µg/L	1.0		3/12/2019
Trichloroethene	ND		0.50	µg/L	1.0		3/12/2019
Dibromomethane	ND		0.50	µg/L	1.0		3/12/2019
1,2-Dichloropropane	ND		0.50	µg/L	1.0		3/12/2019
Bromodichloromethane	2.8		0.50	µg/L	1.0		3/12/2019
cis-1,3-Dichloropropene	ND		0.50	µg/L	1.0		3/12/2019
Toluene	ND		0.50	µg/L	1.0		3/12/2019
Tetrachloroethene	ND		0.50	µg/L	1.0		3/12/2019
trans-1,3-Dichloropropene	ND		0.50	µg/L	1.0		3/12/2019
1,1,2-Trichloroethane	ND		0.50	µg/L	1.0		3/12/2019
Dibromochloromethane	ND		0.50	µg/L	1.0		3/12/2019
1,3-Dichloropropane	ND		0.50	µg/L	1.0		3/12/2019
Chlorobenzene	ND		0.50	µg/L	1.0		3/12/2019
Ethylbenzene	ND		0.50	µg/L	1.0		3/12/2019
1,1,1,2-Tetrachloroethane	ND		0.50	µg/L	1.0		3/12/2019
m,p-Xylene	ND		0.50	µg/L	1.0		3/12/2019
o-Xylene	ND		0.50	µg/L	1.0		3/12/2019
Bromoform	ND		0.50	µg/L	1.0		3/12/2019
Styrene	ND		0.50	µg/L	1.0		3/12/2019
Isopropylbenzene	ND		0.50	µg/L	1.0		3/12/2019
Bromobenzene	ND		0.50	µg/L	1.0		3/12/2019
n-Propylbenzene	ND		0.50	µg/L	1.0		3/12/2019
1,1,2,2-Tetrachloroethane	ND		0.50	µg/L	1.0		3/12/2019

Date: 14-Mar-2019

WorkOrder: 1903181

ANALYTICAL REPORT

Client Sample ID: GBC0361-05 2217 Richmond Rd

Received: 3/9/2019

Lab ID: 1903181-05A

Collected: 3/7/2019 12:05

2-Chlorotoluene	ND	0.50 µg/L	1.0	3/12/2019
1,2,3-Trichloropropane	ND	0.50 µg/L	1.0	3/12/2019
1,3,5-Trimethylbenzene	ND	0.50 µg/L	1.0	3/12/2019
4-Chlorotoluene	ND	0.50 µg/L	1.0	3/12/2019
tert-Butylbenzene	ND	0.50 µg/L	1.0	3/12/2019
1,2,4-Trimethylbenzene	ND	0.50 µg/L	1.0	3/12/2019
sec-Butylbenzene	ND	0.50 µg/L	1.0	3/12/2019
p-Isopropyltoluene	ND	0.50 µg/L	1.0	3/12/2019
1,3-Dichlorobenzene	ND	0.50 µg/L	1.0	3/12/2019
1,4-Dichlorobenzene	ND	0.50 µg/L	1.0	3/12/2019
n-Butylbenzene	ND	0.50 µg/L	1.0	3/12/2019
1,2-Dichlorobenzene	ND	0.50 µg/L	1.0	3/12/2019
Hexachlorobutadiene	ND	0.50 µg/L	1.0	3/12/2019
1,2,4-Trichlorobenzene	ND	0.50 µg/L	1.0	3/12/2019
Naphthalene	ND	0.50 µg/L	1.0	3/12/2019
1,2,3-Trichlorobenzene	ND	0.50 µg/L	1.0	3/12/2019
Surrogate: 1,2-Dichlorobenzene-d4	103	70-130 % Rec	1.0	3/12/2019
Surrogate: Dibromofluoromethane	98.0	70-130 % Rec	1.0	3/12/2019

Date: 14-Mar-2019

WorkOrder: 1903181

ANALYTICAL REPORT

Client Sample ID: GBC0361-06 Blow Off 2213 Richmond Rd

Received: 3/9/2019

Lab ID: 1903181-06A

Collected: 3/7/2019 12:20

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		3/12/2019
Chloromethane	ND		0.50	µg/L	1.0		3/12/2019
Vinyl Chloride	ND		0.50	µg/L	1.0		3/12/2019
Bromomethane	ND		0.50	µg/L	1.0		3/12/2019
Chloroethane	ND		0.50	µg/L	1.0		3/12/2019
Trichlorofluoromethane	ND		0.50	µg/L	1.0		3/12/2019
1,1-Dichloroethene	ND		0.50	µg/L	1.0		3/12/2019
1,1,2-Trichlorotrifluoroethane	ND		0.50	µg/L	1.0		3/12/2019
Methylene Chloride	ND		0.50	µg/L	1.0		3/12/2019
trans-1,2-Dichloroethene	ND		0.50	µg/L	1.0		3/12/2019
Methyl tert-butyl ether (MTBE)	ND		3.0	µg/L	1.0		3/12/2019
Tert-butyl alcohol (TBA)	ND		15	µg/L	1.0		3/12/2019
Di-isopropyl ether (DIPE)	ND		3.0	µg/L	1.0		3/12/2019
1,1-Dichloroethane	ND		0.50	µg/L	1.0		3/12/2019
Ethyl tert-butyl ether (ETBE)	ND		3.0	µg/L	1.0		3/12/2019
cis-1,2-Dichloroethene	ND		0.50	µg/L	1.0		3/12/2019
2,2-Dichloropropane	ND		0.50	µg/L	1.0		3/12/2019
Bromochloromethane	ND		0.50	µg/L	1.0		3/12/2019
Chloroform	36		0.50	µg/L	1.0		3/12/2019
Carbon tetrachloride	ND		0.50	µg/L	1.0		3/12/2019
1,1,1-Trichloroethane	ND		0.50	µg/L	1.0		3/12/2019
1,1-Dichloropropene	ND		0.50	µg/L	1.0		3/12/2019
Benzene	ND		0.50	µg/L	1.0		3/12/2019
1,2-Dichloroethane	ND		0.50	µg/L	1.0		3/12/2019
Tert-amyl methyl ether (TAME)	ND		3.0	µg/L	1.0		3/12/2019
Trichloroethene	ND		0.50	µg/L	1.0		3/12/2019
Dibromomethane	ND		0.50	µg/L	1.0		3/12/2019
1,2-Dichloropropane	ND		0.50	µg/L	1.0		3/12/2019
Bromodichloromethane	2.7		0.50	µg/L	1.0		3/12/2019
cis-1,3-Dichloropropene	ND		0.50	µg/L	1.0		3/12/2019
Toluene	ND		0.50	µg/L	1.0		3/12/2019
Tetrachloroethene	ND		0.50	µg/L	1.0		3/12/2019
trans-1,3-Dichloropropene	ND		0.50	µg/L	1.0		3/12/2019
1,1,2-Trichloroethane	ND		0.50	µg/L	1.0		3/12/2019
Dibromochloromethane	ND		0.50	µg/L	1.0		3/12/2019
1,3-Dichloropropane	ND		0.50	µg/L	1.0		3/12/2019
Chlorobenzene	ND		0.50	µg/L	1.0		3/12/2019
Ethylbenzene	ND		0.50	µg/L	1.0		3/12/2019
1,1,1,2-Tetrachloroethane	ND		0.50	µg/L	1.0		3/12/2019
m,p-Xylene	ND		0.50	µg/L	1.0		3/12/2019
o-Xylene	ND		0.50	µg/L	1.0		3/12/2019
Bromoform	ND		0.50	µg/L	1.0		3/12/2019
Styrene	ND		0.50	µg/L	1.0		3/12/2019
Isopropylbenzene	ND		0.50	µg/L	1.0		3/12/2019
Bromobenzene	ND		0.50	µg/L	1.0		3/12/2019
n-Propylbenzene	ND		0.50	µg/L	1.0		3/12/2019
1,1,2,2-Tetrachloroethane	ND		0.50	µg/L	1.0		3/12/2019

Date: 14-Mar-2019

WorkOrder: 1903181

ANALYTICAL REPORT

Client Sample ID: GBC0361-06 Blow Off 2213 Richmond Rd

Received: 3/9/2019

Lab ID: 1903181-06A

Collected: 3/7/2019 12:20

2-Chlorotoluene	ND	0.50 µg/L	1.0	3/12/2019
1,2,3-Trichloropropane	ND	0.50 µg/L	1.0	3/12/2019
1,3,5-Trimethylbenzene	ND	0.50 µg/L	1.0	3/12/2019
4-Chlorotoluene	ND	0.50 µg/L	1.0	3/12/2019
tert-Butylbenzene	ND	0.50 µg/L	1.0	3/12/2019
1,2,4-Trimethylbenzene	ND	0.50 µg/L	1.0	3/12/2019
sec-Butylbenzene	ND	0.50 µg/L	1.0	3/12/2019
p-Isopropyltoluene	ND	0.50 µg/L	1.0	3/12/2019
1,3-Dichlorobenzene	ND	0.50 µg/L	1.0	3/12/2019
1,4-Dichlorobenzene	ND	0.50 µg/L	1.0	3/12/2019
n-Butylbenzene	ND	0.50 µg/L	1.0	3/12/2019
1,2-Dichlorobenzene	ND	0.50 µg/L	1.0	3/12/2019
Hexachlorobutadiene	ND	0.50 µg/L	1.0	3/12/2019
1,2,4-Trichlorobenzene	ND	0.50 µg/L	1.0	3/12/2019
Naphthalene	ND	0.50 µg/L	1.0	3/12/2019
1,2,3-Trichlorobenzene	ND	0.50 µg/L	1.0	3/12/2019
Surrogate: 1,2-Dichlorobenzene-d4	102	70-130 % Rec	1.0	3/12/2019
Surrogate: Dibromofluoromethane	98.0	70-130 % Rec	1.0	3/12/2019

North Coast Laboratories, Ltd.

Date: 3/14/2019

CLIENT: Cranmer Analytical Laboratory
Work Order: 1903181
Project: GBC0361

QC SUMMARY REPORT

Method Blank

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
MB 031219	R98698	524W	µg/L	3/12/2019 12:25:00 PM							
Client ID:	Run ID:	SeqNo:									
	ORGCMS3_190312B	1403718									
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

Page 1 of 3

CLIENT: Cranmer Analytical Laboratory
Work Order: 1903181
Project: GBC0361

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

Page 2 of 3

CLIENT: Cranmer Analytical Laboratory

Work Order: 1903181

Project: GBC0361

QC SUMMARY REPORT

Method Blank

1,2,3-Trichlorobenzene	ND	0.50						
Surrogate: Dibromofluoromethane	1.00	0.10	1.00	0	100%	70	130	0
Surrogate: 1,2-Dichlorobenzene-d4	1.01	0.10	1.00	0	101%	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: 3/14/2019

CLIENT: Cranmer Analytical Laboratory
Work Order: 1903181
Project: GBC0361

QC SUMMARY REPORT
 Laboratory Control Spike

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
LCS-19050	R98698	524W	µg/L	3/12/2019 11:50:00 AM							
Client ID:	Run ID:	SeqNo:									
	ORGCMS3_190312B	1403717									
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	4.408	0.50	5.00	0	88.2%	70	130	0			
Chloromethane	6.019	0.50	5.00	0	120%	70	130	0			
Vinyl Chloride	5.743	0.50	5.00	0	115%	70	130	0			
Bromomethane	5.881	0.50	5.00	0	118%	70	130	0			
Chloroethane	5.930	0.50	5.00	0	119%	70	130	0			
Trichlorofluoromethane	5.832	0.50	5.00	0	117%	70	130	0			
1,1-Dichloroethene	4.453	0.50	5.00	0	89.1%	70	130	0			
1,1,2-Trichlorotrifluoroethane	3.578	0.50	5.00	0	71.6%	70	130	0			
Methylene Chloride	4.947	0.50	5.00	0	98.9%	70	130	0			
trans-1,2-Dichloroethene	4.898	0.50	5.00	0	98.0%	70	130	0			
Methyl tert-butyl ether (MTBE)	4.434	3.0	5.00	0	88.7%	70	130	0			
Tert-butyl alcohol (TBA)	85.64	15	100	0	85.6%	70	130	0			
Di-isopropyl ether (DIPE)	4.697	3.0	5.00	0	93.9%	70	130	0			
1,1-Dichloroethane	4.792	0.50	5.00	0	95.8%	70	130	0			
Ethyl tert-butyl ether (ETBE)	4.406	3.0	5.00	0	88.1%	70	130	0			
cis-1,2-Dichloroethene	4.883	0.50	5.00	0	97.7%	70	130	0			
2,2-Dichloropropane	4.874	0.50	5.00	0	97.5%	70	130	0			
Bromochloromethane	4.610	0.50	5.00	0	92.2%	70	130	0			
Chloroform	4.867	0.50	5.00	0	97.3%	70	130	0			
Carbon tetrachloride	4.119	0.50	5.00	0	82.4%	70	130	0			
1,1,1-Trichloroethane	4.497	0.50	5.00	0	89.9%	70	130	0			
1,1-Dichloropropene	4.363	0.50	5.00	0	87.3%	70	130	0			
Benzene	4.796	0.50	5.00	0	95.9%	70	130	0			
1,2-Dichloroethane	4.773	0.50	5.00	0	95.5%	70	130	0			
Tert-amyl methyl ether (TAME)	4.452	3.0	5.00	0	89.0%	70	130	0			
Trichloroethene	4.657	0.50	5.00	0	93.1%	70	130	0			
Dibromomethane	4.757	0.50	5.00	0	95.1%	70	130	0			
1,2-Dichloropropane	4.712	0.50	5.00	0	94.2%	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: 1903181
Project: GBC0361

QC SUMMARY REPORT
 Laboratory Control Spike

Bromodichloromethane	4.800	0.50	5.00	0	96.0%	70	130	0
cis-1,3-Dichloropropene	4.718	0.50	5.00	0	94.4%	70	130	0
Toluene	4.743	0.50	5.00	0	94.9%	70	130	0
Tetrachloroethene	4.488	0.50	5.00	0	89.8%	70	130	0
trans-1,3-Dichloropropene	3.892	0.50	5.00	0	77.8%	70	130	0
1,1,2-Trichloroethane	4.612	0.50	5.00	0	92.2%	70	130	0
Dibromochloromethane	4.616	0.50	5.00	0	92.3%	70	130	0
1,3-Dichloropropane	4.698	0.50	5.00	0	94.0%	70	130	0
Chlorobenzene	4.758	0.50	5.00	0	95.2%	70	130	0
Ethylbenzene	4.578	0.50	5.00	0	91.6%	70	130	0
1,1,1,2-Tetrachloroethane	4.738	0.50	5.00	0	94.8%	70	130	0
m,p-Xylene	9.400	0.50	10.0	0	94.0%	70	130	0
o-Xylene	4.473	0.50	5.00	0	89.5%	70	130	0
Bromoform	4.688	0.50	5.00	0	93.8%	70	130	0
Styrene	4.798	0.50	5.00	0	96.0%	70	130	0
Isopropylbenzene	4.548	0.50	5.00	0	91.0%	70	130	0
Bromobenzene	4.698	0.50	5.00	0	94.0%	70	130	0
n-Propylbenzene	4.671	0.50	5.00	0	93.4%	70	130	0
1,1,2,2-Tetrachloroethane	4.494	0.50	5.00	0	89.9%	70	130	0
2-Chlorotoluene	4.694	0.50	5.00	0	93.9%	70	130	0
1,2,3-Trichloropropane	4.380	0.50	5.00	0	87.6%	70	130	0
1,3,5-Trimethylbenzene	4.646	0.50	5.00	0	92.9%	70	130	0
4-Chlorotoluene	4.894	0.50	5.00	0	97.9%	70	130	0
tert-Butylbenzene	4.563	0.50	5.00	0	91.3%	70	130	0
1,2,4-Trimethylbenzene	4.685	0.50	5.00	0	93.7%	70	130	0
sec-Butylbenzene	4.651	0.50	5.00	0	93.0%	70	130	0
p-Isopropyltoluene	4.524	0.50	5.00	0	90.5%	70	130	0
1,3-Dichlorobenzene	4.924	0.50	5.00	0	98.5%	70	130	0
1,4-Dichlorobenzene	4.761	0.50	5.00	0	95.2%	70	130	0
n-Butylbenzene	4.553	0.50	5.00	0	91.1%	70	130	0
1,2-Dichlorobenzene	4.713	0.50	5.00	0	94.3%	70	130	0
Hexachlorobutadiene	4.267	0.50	5.00	0	85.3%	70	130	0
1,2,4-Trichlorobenzene	4.445	0.50	5.00	0	88.9%	70	130	0
Naphthalene	3.594	0.50	5.00	0	71.9%	70	130	0

Qualifiers: ND - Not Detected at the Reporting Limit
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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: 1903181**Project:** GBC0361**QC SUMMARY REPORT**

Laboratory Control Spike

1,2,3-Trichlorobenzene	4.648	0.50	5.00	0	93.0%	70	130	0
Surrogate: Dibromofluoromethane	1.01	0.10	1.00	0	101%	70	130	0
Surrogate: 1,2-Dichlorobenzene-d4	0.980	0.10	1.00	0	98.0%	70	130	0

Qualifiers: ND - Not Detected at the Reporting Limit
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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: GBC0361

Analysis	Comments
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Sample ID: GBC0361-01 2212 Richmond Rd

Drinking Water Sampled: 03/07/2019 11:30

Volatile Organic Compounds (VOCs)

Containers Supplied:

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

Sample ID: GBC0361-02 2216 Richmond Rd

Drinking Water Sampled: 03/07/2019 11:40

Volatile Organic Compounds (VOCs)

Containers Supplied:

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

Sample ID: GBC0361-03 2213 Richmond Rd

Drinking Water Sampled: 03/07/2019 11:50

Volatile Organic Compounds (VOCs)

Containers Supplied:

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

Sample ID: GBC0361-04 2220 Richmond Rd

Drinking Water Sampled: 03/07/2019 12:00

Volatile Organic Compounds (VOCs)

Containers Supplied:

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

Sample ID: GBC0361-05 2217 Richmond Rd

Drinking Water Sampled: 03/07/2019 12:05

Volatile Organic Compounds (VOCs)

Containers Supplied:

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

EDT Upload YES NO

R. Murphy
Released By

30819
Date

[Signature]
Received By

1.20c
3/9/19
Date

SUBCONTRACT ORDER (Continued)



Cranmer Engineering, Inc.
Integrated Engineering Services

Work Order: GBC0361 (Continued)

Analysis	Comments
Sample ID: GBC0361-06 Blow Off 2213 Richmond Rd	
<i>Drinking Water Sampled: 03/07/2019 12:20</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

 1.2°C 3/19/19