

March 8, 2021

MEMORANDUM

To: Karen Hays, Air Branch Chief *KH*

Through: Dika Kuoh, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: General Coffee November 11- November 23, 2020 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected by the Ambient Monitoring Program at our General Coffee monitoring station November 11- November 23, 2020. The sample was sent to Eastern Research Group (ERG) for analysis. The Qualifier code of "2" was given to samples to indicate that the collection deviated from established procedures, but the integrity of the sample was not compromised. The Qualifier code of "U" was given by ERG to indicate that the sample was under the detection limit. The Qualifier code of "LK" was given by ERG to indicate that the sample may be biased high. Please note that ERG is now providing values for levels below the detection limit.

Location	Date	Qualifier	EtO Concentration (ug/m ³)
General Coffee	11/11/2020	LK, 2	2.78
General Coffee	11/23/2020	U, 2	0.05

If you have any questions, please let me know.

DGO/do



Eastern Research Group
601 Keystone Park Drive
Suite 700
Morrisville, NC 27560

January 07, 2021

Ms. Jaime Gore
U.S. Environmental Protection Agency, Region 4
4244 International Pkwy, Suite 120
Atlanta, GA 30354
Project Name: General Coffee

Dear Ms. Jaime Gore,

This report contains the analytical results for the sample(s) received under chain(s) of custody by Eastern Research Group on 11/23/20 11:09 through 12/04/20 10:58.

Values below the MDL for QC results in this report are recorded as ND, however the actual values are reported in the accompanying Excel report with a "U" flag (Under the detection limit). The actual values are reported in AQS.

This test is accredited under the 2016 TNI Standard for Environmental Laboratories (FL DOH Certification # E87673). All analyses were performed as described in the US EPA-approved QAPP, under the contract for UATMP, NATTS, CSATAM, PAMS and NMOC support (US EPA Contract No. EP-D-14-030). This cover page is an integral part of this report, and any exceptions or comments are noted on the last page.

Release of the data contained in this data package and in the data submitted in the electronic data deliverable, has been authorized by the Program Manager, or the Program Manager's designee as verified by the following signature.

The issuance of the final Certificate of Analysis takes precedence over any previous Report. If you have any questions, please contact me at 919-468-7924.

Sincerely,

Julie Swift
Program Manager
julie.swift@erg.com

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CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 4
4244 International Pkwy, Suite 120
Atlanta, GA 30354
ATTN: Ms. Jaime Gore
PHONE: (404) 362-4912 **FAX:** (919) 541-0516

FILE #: 4222.00
REPORTED: 01/07/21 15:01
SUBMITTED: 11/23/20 to 12/04/20
AQS SITE CODE:
SITE CODE: General Coffee

ANALYTICAL REPORT FOR SAMPLES

<u>SampleName</u>	<u>LabNumber</u>	<u>Matrix</u>	<u>Sampled</u>	<u>Received</u>
General Coffee	0112316-01	Air	11/11/20 23:59	11/23/20 11:09
General Coffee	0120409-01	Air	11/23/20 23:59	12/04/20 10:58



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REPORTED: 01/07/21 15:01

SUBMITTED: 11/23/20 to 12/04/20

AQS SITE CODE:

SITE CODE: General Coffee

Description: General Coffee	Lab ID: 0112316-01	Sampled: 11/11/20 23:59
Pressure @ Receipt: 19.50 psig	Canister #: 35103	Received: 11/23/20 11:09
Comments:		Analyzed: 11/26/20 03:47

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	1.54	2.78	LK	0.0285



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FILE #: 4222.00

REPORTED: 01/07/21 15:01

SUBMITTED: 11/23/20 to 12/04/20

AQS SITE CODE:

SITE CODE: General Coffee

Description: General Coffee

Lab ID: 0120409-01

Sampled: 11/23/20 23:59

Pressure @ Receipt: 22.75 psig

Canister #: 19284

Received: 12/04/20 10:58

Comments:

Analyzed: 12/15/20 00:48

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	0.0256	0.05	U	0.0285



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AQS SITE CODE:
SITE CODE: General Coffee

Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes
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Air Toxics by EPA Compendium Method TO-15 - Quality Control

Batch BOK2502 - Summa Canister Prep

Blank (BOK2502-BLK1)

Prepared & Analyzed: 11/25/20

Ethylene oxide	ND	ppbv				U
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Batch BOL1003 - Summa Canister Prep

Blank (BOL1003-BLK1)

Prepared: 12/10/20 Analyzed: 12/14/20

Ethylene oxide	ND	ppbv				U
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FILE #: 4222.00
REPORTED: 01/07/21 15:01
SUBMITTED: 11/23/20 to 12/04/20
AQS SITE CODE:
SITE CODE: General Coffee

Analyte	Result	Units	% Difference	Limit (%)	Notes
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Air Toxics by EPA Compendium Method TO-15 - Quality Control

Sequence 2011057

Calibration Check (2011057-CCV1)

Prepared & Analyzed: 11/25/20

Ethylene oxide	3.18	ppbv	28.4	30.00
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Sequence 2012018

Calibration Check (2012018-CCV1)

Prepared: 12/10/20 Analyzed: 12/14/20

Ethylene oxide	2.44	ppbv	-2.4	30.00
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FILE #: 4222.00
REPORTED: 01/07/21 15:01
SUBMITTED: 11/23/20 to 12/04/20
AQS SITE CODE:
SITE CODE: General Coffee

Notes and Definitions

U Under Detection Limit
ND Analyte NOT DETECTED
NR Not Reported
MDL Method Detection Limit
RPD Relative Percent Difference
LK Analyte identified; Reported value may be biased high.

Note: This test is accredited under the 2016 TNI Standard; however the following analytes are not accredited: acetylene, bromodichloroethane, dichlorotetrafluoromethane, ethyl tert butyl ether, n-octane, tert amyl methyl ether, trichlorofluoroethane, and bromochloromethane.