

October 12, 2022

MEMORANDUM

To: Karen Hays, Air Branch Chief *KH*

Through: James Boylan, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: General Coffee August 14- September 25, 2021, Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected by the Ambient Monitoring Program at our General Coffee monitoring station August 14- September 25, 2021. The samples were 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 Null code of "AN" was given to show that there was a machine malfunction. 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	08/14/2021		AN
General Coffee	08/20/2021	2	0.08
General Coffee	09/13/2021	2, LK	0.50
General Coffee	09/25/2021		0.13

If you have any questions, please let me know.

DGO/do



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

October 29, 2021

Ms. Jaime Gore
GA Ambient Monitoring Program
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 08/26/21 11:37 through 10/08/21 14:41.

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: 10/29/21 14:34

SUBMITTED: 08/26/21 to 10/08/21

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	1082630-01	Air	08/20/21 23:59	08/26/21 11:37
General Coffee	1100430-01	Air	09/13/21 23:59	10/04/21 11:21
General Coffee	1100811-01	Air	09/25/21 23:59	10/08/21 14:41



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AQS SITE CODE:

SITE CODE: General Coffee

Description: General Coffee

Lab ID: 1082630-01

Sampled: 08/20/21 23:59

Pressure @ Receipt: 19.5 psig

Canister #: 19658

Received: 08/26/21 11:37

Comments:

Analyzed: 09/02/21 00:44

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	0.0436	0.08		0.0261



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AQS SITE CODE:

SITE CODE: General Coffee

Description: General Coffee

Lab ID: 1100430-01

Sampled: 09/13/21 23:59

Pressure @ Receipt: 21.00 psig

Canister #: SAT068

Received: 10/04/21 11:21

Comments:

Analyzed: 10/07/21 23:11

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	0.275	0.50		0.0261

10/12/22 LK flag added through updated information from ERG *dgo*



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AQS SITE CODE:

SITE CODE: General Coffee

Description: General Coffee

Lab ID: 1100811-01

Sampled: 09/25/21 23:59

Pressure @ Receipt: 21.50 psig

Canister #: 114344

Received: 10/08/21 14:41

Comments:

Analyzed: 10/14/21 19:29

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	0.0724	0.13	LK	0.0261

10/12/22 LK flag removed through updated information from ERG *dgo*



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SUBMITTED: 08/26/21 to 10/08/21
AQS SITE CODE:
SITE CODE: General Coffee

Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes
Air Toxics by EPA Compendium Method TO-15 - Quality Control						
<i>Batch B1I0109 - Summa Canister Prep</i>						
Blank (B1I0109-BLK1)			Prepared: 08/16/21 Analyzed: 09/01/21			
Ethylene oxide	ND	ppbv				U
<i>Batch B1J0704 - Summa Canister Prep</i>						
Blank (B1J0704-BLK1)			Prepared & Analyzed: 10/07/21			
Ethylene oxide	ND	ppbv				U
<i>Batch B1J1406 - Summa Canister Prep</i>						
Blank (B1J1406-BLK1)			Prepared & Analyzed: 10/14/21			
Ethylene oxide	ND	ppbv				U
Duplicate (B1J1406-DUP1)			Source: 1100811-01		Prepared: 09/25/21 Analyzed: 10/14/21	
Ethylene oxide	0.0624	ppbv	0.07	14.8	25	



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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 2109007

Calibration Check (2109007-CCV1)

Prepared & Analyzed: 09/01/21

Ethylene oxide	2.36	ppbv	-5.6	30.00	
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Sequence 2110016

Calibration Check (2110016-CCV1)

Prepared & Analyzed: 10/07/21

Ethylene oxide	3.02	ppbv	24.9	30.00	
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Sequence 2110028

Calibration Check (2110028-CCV1)

Prepared & Analyzed: 10/14/21

Ethylene oxide	3.19	ppbv	27.4	30.00	
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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.