



**ENVIRONMENTAL PROTECTION DIVISION**

**Richard E. Dunn, Director**

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**EPD Director's Office**  
2 Martin Luther King, Jr. Drive  
Suite 1456, East Tower  
Atlanta, Georgia 30334  
404-656-4713

February 2, 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 September 30- October 30, 2020 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected by the Ambient Monitoring Program at our General Coffee monitoring station September 30- October 30, 2020. 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. Please note that ERG is now providing values for levels below the detection limit.

Location	Date	Qualifier	EtO Concentration (ug/m <sup>3</sup> )
General Coffee	09/30/2020	2	0.11
General Coffee	10/06/2020	2	0.21
General Coffee	10/18/2020	2	0.24
General Coffee	10/30/2020	2	0.22

If you have any questions, please let me know.

DGO/do



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

December 04, 2020

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 10/09/20 11:30 through 11/06/20 10:45.

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](mailto: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:** 12/04/20 16:00

**SUBMITTED:** 10/09/20 to 11/06/20

**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	0100913-01	Air	09/30/20 23:59	10/09/20 11:30
General Coffee	0101607-01	Air	10/06/20 23:59	10/16/20 12:07
General Coffee	0102918-01	Air	10/18/20 23:59	10/29/20 12:17
General Coffee	0110605-01	Air	10/30/20 23:59	11/06/20 10:45



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AQS SITE CODE:

SITE CODE: General Coffee

Description: General Coffee

Lab ID: 0100913-01

Sampled: 09/30/20 23:59

Pressure @ Receipt: 21.25 psig

Canister #: 18835

Received: 10/09/20 11:30

Comments:

Analyzed: 10/16/20 21:20

## 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.0601	0.11		0.0285



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AQS SITE CODE:

SITE CODE: General Coffee

Description: General Coffee

Lab ID: 0101607-01

Sampled: 10/06/20 23:59

Pressure @ Receipt: 20.00 psig

Canister #: 19641

Received: 10/16/20 12:07

Comments:

Analyzed: 11/03/20 00:35

## 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.118	0.21		0.0285



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REPORTED: 12/04/20 16:00

SUBMITTED: 10/09/20 to 11/06/20

AQS SITE CODE:

SITE CODE: General Coffee

Description: General Coffee

Lab ID: 0102918-01

Sampled: 10/18/20 23:59

Pressure @ Receipt: 18.50 psig

Canister #: A21086

Received: 10/29/20 12:17

Comments:

Analyzed: 11/09/20 20:44

## 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.135	0.24		0.0285



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FILE #: 4222.00

REPORTED: 12/04/20 16:00

SUBMITTED: 10/09/20 to 11/06/20

AQS SITE CODE:

SITE CODE: General Coffee

Description: General Coffee

Lab ID: 0110605-01

Sampled: 10/30/20 23:59

Pressure @ Receipt: 21.50 psig

Canister #: A21028

Received: 11/06/20 10:45

Comments:

Analyzed: 11/23/20 20:40

## 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.119	0.22		0.0285



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**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 B0J1604 - Summa Canister Prep*

**Blank (B0J1604-BLK1)**

Prepared & Analyzed: 10/16/20

Ethylene oxide	ND	ppbv				U
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*Batch B0K0204 - Summa Canister Prep*

**Blank (B0K0204-BLK1)**

Prepared & Analyzed: 11/02/20

Ethylene oxide	ND	ppbv				U
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*Batch B0K0906 - Summa Canister Prep*

**Blank (B0K0906-BLK1)**

Prepared & Analyzed: 11/09/20

Ethylene oxide	ND	ppbv				U
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*Batch B0K2310 - Summa Canister Prep*

**Blank (B0K2310-BLK1)**

Prepared & Analyzed: 11/23/20

Ethylene oxide	ND	ppbv				U
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**SUBMITTED:** 10/09/20 to 11/06/20  
**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 2010035

**Calibration Check (2010035-CCV1)**

Prepared &amp; Analyzed: 10/16/20

Ethylene oxide	3.08	ppbv	24.6	30.00
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### Sequence 2011002

**Calibration Check (2011002-CCV1)**

Prepared &amp; Analyzed: 11/02/20

Ethylene oxide	2.73	ppbv	9.2	30.00
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### Sequence 2011016

**Calibration Check (2011016-CCV1)**

Prepared &amp; Analyzed: 11/09/20

Ethylene oxide	2.94	ppbv	17.6	30.00
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### Sequence 2011048

**Calibration Check (2011048-CCV1)**

Prepared &amp; Analyzed: 11/23/20

Ethylene oxide	2.79	ppbv	13.0	30.00
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**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

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.