



November 20, 2019

MEMORANDUM

To: Karen Hays, Air Branch Chief *KH*

Through: Dika Kuoh, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: General Coffee October 12-24, 2019 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected during the period of October 12 through October 24 by the Ambient Monitoring Program at the General Coffee monitoring station. Each of the samples were sent to Eastern Research Group (ERG) for analysis. Samples listed in the table below as ND were reported below the method detection limit of 0.0452 ug/m³.

| Date | EtO Concentration (ug/m ³) |
|------------|---|
| 10/12/2019 | ND |
| 10/24/2019 | ND |

DGO/do



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

November 15, 2019

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 10/15/19 11:01 through 11/01/19 11:15.

The test results in this report are in compliance with NELAC accreditation requirements for the certified parameters. 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

The information contained in this report and its attachment(s) are intended only for the use of the individual to whom it is addressed and may contain information that is privileged, confidential, or exempt from disclosure. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this report is strictly prohibited. If you have received this report in error, please notify julie.swift@erg.com and delete the report without retaining any copies.



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: 11/15/19 15:22
SUBMITTED: 10/15/19 to 11/01/19
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 | 9101529-01 | Air | 10/12/19 23:59 | 10/15/19 11:01 |
| General Coffee | 9110120-01 | Air | 10/24/19 23:59 | 11/01/19 11:15 |



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: 11/15/19 15:22
 SUBMITTED: 10/15/19 to 11/01/19
 AQS SITE CODE:
 SITE CODE: General Coffee

Description: General Coffee **Lab ID:** 9101529-01 **Sampled:** 10/12/19 23:59
Pressure @ Receipt: 18.00 psig **Canister #:** 2767 **Received:** 10/15/19 11:01
Comments: **Analyzed:** 10/15/19 16:26

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 | ND | ND | U | 0.0250 |

*0.0250 ppbv = 0.0452 ug/m³
 JEG verified on 10/18/19*



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: 11/15/19 15:22
 SUBMITTED: 10/15/19 to 11/01/19
 AQS SITE CODE:
 SITE CODE: General Coffee

| | | |
|---------------------------------------|---------------------------|---------------------------------|
| Description: General Coffee | Lab ID: 9110120-01 | Sampled: 10/24/19 23:59 |
| Pressure @ Receipt: 18.75 psig | Canister #: A21071 | Received: 11/01/19 11:15 |
| Comments: | | Analyzed: 11/06/19 08:08 |

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 | ND | ND | U | 0.0250 |



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: 11/15/19 15:22
 SUBMITTED: 10/15/19 to 11/01/19
 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 B9J1507 - Summa Canister Prep</i> | | | | | | |
| Blank (B9J1507-BLK1) | | | Prepared: 10/09/19 Analyzed: 10/15/19 | | | |
| Ethylene oxide | ND | ppbv | | | | U |
| <i>Batch B9K0506 - Summa Canister Prep</i> | | | | | | |
| Blank (B9K0506-BLK1) | | | Prepared: 10/21/19 Analyzed: 11/05/19 | | | |
| Ethylene oxide | ND | ppbv | | | | U |



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: 11/15/19 15:22
 SUBMITTED: 10/15/19 to 11/01/19
 AQS SITE CODE:
 SITE CODE: General Coffee

| Analyte | Result | Units | % Difference | Limit (%) | Notes |
|---------|--------|-------|--------------|-----------|-------|
|---------|--------|-------|--------------|-----------|-------|

Air Toxics by EPA Compendium Method TO-15 - Quality Control

Sequence 1910035

Calibration Check (1910035-CCV1)

Prepared & Analyzed: 10/15/19

| | | | | |
|----------------|------|------|-------|-------|
| Ethylene oxide | 1.76 | ppbv | -28.4 | 30.00 |
|----------------|------|------|-------|-------|

Sequence 1911008

Calibration Check (1911008-CCV1)

Prepared & Analyzed: 11/05/19

| | | | | |
|----------------|------|------|------|-------|
| Ethylene oxide | 2.36 | ppbv | -5.5 | 30.00 |
|----------------|------|------|------|-------|



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: 11/15/19 15:22
SUBMITTED: 10/15/19 to 11/01/19
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

Note: The test results meet all requirements of NELAC; however the following analytes are not accredited: 1,2,4-trimethylbenzene, 1,2-dibromoethane, 1,2-dichloropropane, 1,3,5-trimethylbenzene, 1,3-butadiene, acetylene, acrolein, bromochloromethane, bromodichloromethane, bromoform, carbon disulfide, dibromochloromethane, dichlorodifluoromethane, dichlorotetrafluoroethane, ethyl acrylate, ethyl tert butyl ether, ethylene oxide, hexachloro-1,3-butadiene, n-octane, propylene, tert amyl methyl ether, tetrachloroethylene, trans-1,2-dichloroethylene, trichlorofluoromethane, and trichlorotrifluoroethane.