

#### **ENVIRONMENTAL PROTECTION DIVISION**

#### Richard E. Dunn, Director

#### **EPD Director's Office**

2 Martin Luther King, Jr. Drive Suite 1456, East Tower Atlanta, Georgia 30334 404-656-4713

May 18, 2020

#### **MEMORANDUM**

To: Karen Hays, Air Branch Chief

Through: Dika Kuoh, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: Fulton March 28, 2020 – April 03, 2020 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected during the period of March 28, 2020 – April 03, 2020 in the south Fulton area to characterize the EtO concentrations. The samples were sent to Eastern Research Group (ERG) for analysis. The Qualifier code of "2" is applied to samples to indicate that the collection deviated from established procedures, but the integrity of the sample was not compromised. The sample listed as AN indicate that the machine malfunctioned while collecting the sample. Please note that ERG is now providing values for levels below the detection limit.

Location	Date	Qualifier	EtO Concentration (ug/m³)
F1	03/28/2020		AN
F1	04/03/2020	2	1.62
F2	03/28/2020		0.69
F2	04/03/2020	2	2.36

If you have any questions, please let me know.

DGO/do



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

April 30, 2020

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

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 04/08/20 11:07 through 04/10/20 10:39.

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 <a href="mailto:julie.swift@erg.com">julie.swift@erg.com</a> and delete the report without retaining any copies.



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:** 04/30/20 11:43

**SUBMITTED:** 04/08/20 to 04/10/20

**AQS SITE CODE:** 

SITE CODE: Fulton

#### **ANALYTICAL REPORT FOR SAMPLES**

<u>SampleName</u>	<u>LabNumber</u>	<u>Matrix</u>	<u>Sampled</u>	Received
F2	0040816-02	Air	03/28/20 23:59	04/08/20 11:07
F1	0041002-01	Air	04/03/20 23:59	04/10/20 10:39
F2	0041002-02	Air	04/03/20 23:59	04/10/20 10:39



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

**Description:** F2

ATTN: Ms. Jaime Gore

**PHONE:** (404) 362-4912 **FAX:** (919) 541-0516

Pressure @ Receipt: 2.50" Hg

**Comments:** Received at ambient

FILE #: 4222.00

**REPORTED:** 04/30/20 11:43

**SUBMITTED:** 04/08/20 to 04/10/20

**AQS SITE CODE:** 

SITE CODE: **Fulton** 

Sampled: 03/28/20 23:59

Canister #: SAT123 Received: 04/08/20 11:07 **Analyzed:** 04/10/20 00:39

**Air Toxics by EPA Compendium Method TO-15** 

0040816-02

Results

<u>Flag</u>

Lab ID:

MDL

Ethylene oxide

**Analyte** 

ppbv ug/m<sup>3</sup> 0.380

0.69

ppbv 0.0285



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

**Description:** F1

**Comments:** 

**Analyte** 

Ethylene oxide

ATTN: Ms. Jaime Gore

**PHONE:** (404) 362-4912 **FAX:** (919) 541-0516

Pressure @ Receipt: 8.50" Hg

0.899

FILE #: 4222.00

**REPORTED:** 04/30/20 11:43

**SUBMITTED:** 04/08/20 to 04/10/20

AQS SITE CODE:

SITE CODE: **Fulton** 

Lab ID: 0041002-01 Sampled: 04/03/20 23:59 **Canister #:** 5048 Received: 04/10/20 10:39 **Analyzed:** 04/17/20 22:06

**Air Toxics by EPA Compendium Method TO-15** 

**MDL** 

Results ppbv ug/m<sup>3</sup> <u>Flag</u>

1.62

ppbv 0.0285

Eastern Research Group

The results in this report apply only to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

**Description:** F2

**Comments:** 

**Analyte** 

Ethylene oxide

ATTN: Ms. Jaime Gore

**PHONE:** (404) 362-4912 **FAX:** (919) 541-0516

Pressure @ Receipt: 2.00" Hg

AQS SITE CODE:

FILE #: 4222.00

SITE CODE:

**REPORTED:** 04/30/20 11:43

**SUBMITTED:** 04/08/20 to 04/10/20

**Fulton** 

0041002-02

**Canister #:** 5081

Sampled: 04/03/20 23:59

Received: 04/10/20 10:39 **Analyzed:** 04/17/20 23:01

**Air Toxics by EPA Compendium Method TO-15** 

**Results** ppbv ug/m<sup>3</sup>

2.36

1.31

<u>Flag</u>

Lab ID:

**MDL** ppbv 0.0285

Eastern Research Group

The results in this report apply only to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Ethylene oxide

ATTN: Ms. Jaime Gore

**PHONE:** (404) 362-4912 **FAX:** (919) 541-0516

FILE #: 4222.00

**REPORTED:** 04/30/20 11:43

**SUBMITTED:** 04/08/20 to 04/10/20

**AQS SITE CODE:** 

SITE CODE: Fulton

Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes
Air Toxics by EPA Compen Batch B0D0805 - Summa Cal		- Quality Cont	rol			
Blank (B0D0805-BLK1)			Prepared: 04/08/20 An	alyzed: 04/09/20	0	
Ethylene oxide	ND	ppbv				U
Batch B0D1701 - Summa Cal	nister Prep					
Blank (B0D1701-BLK1)	•		Prepared & Analyzed: 0	4/17/20		

ppbv

ND

U



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:** 04/30/20 11:43

**SUBMITTED:** 04/08/20 to 04/10/20

**AQS SITE CODE:** 

SITE CODE: Fulton

Analyte	Result	Units	% Difference	Limit (%)	Notes

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

Sequence 2004021

**Calibration Check (2004021-CCV1)** Prepared: 04/08/20 Analyzed: 04/09/20

Ethylene oxide 2.36 ppbv -4.4 30.00

Sequence 2004040

Calibration Check (2004040-CCV1)Prepared & Analyzed: 04/17/20

Ethylene oxide 2.58 ppbv 3.2 30.00

Eastern Research Group

The results in this report apply only to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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:** 04/30/20 11:43

**SUBMITTED:** 04/08/20 to 04/10/20

**AQS SITE CODE:** 

SITE CODE: Fulton

#### **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 tert butyl ether, ethylene oxide, hexachloro-1,3-butadiene, n-octane, propylene, tert amyl methyl ether, tetrachloroethylene, trans-1,2-dichloroethylene, trichlorofluoromethane, and trichlorotrufluoroethane.



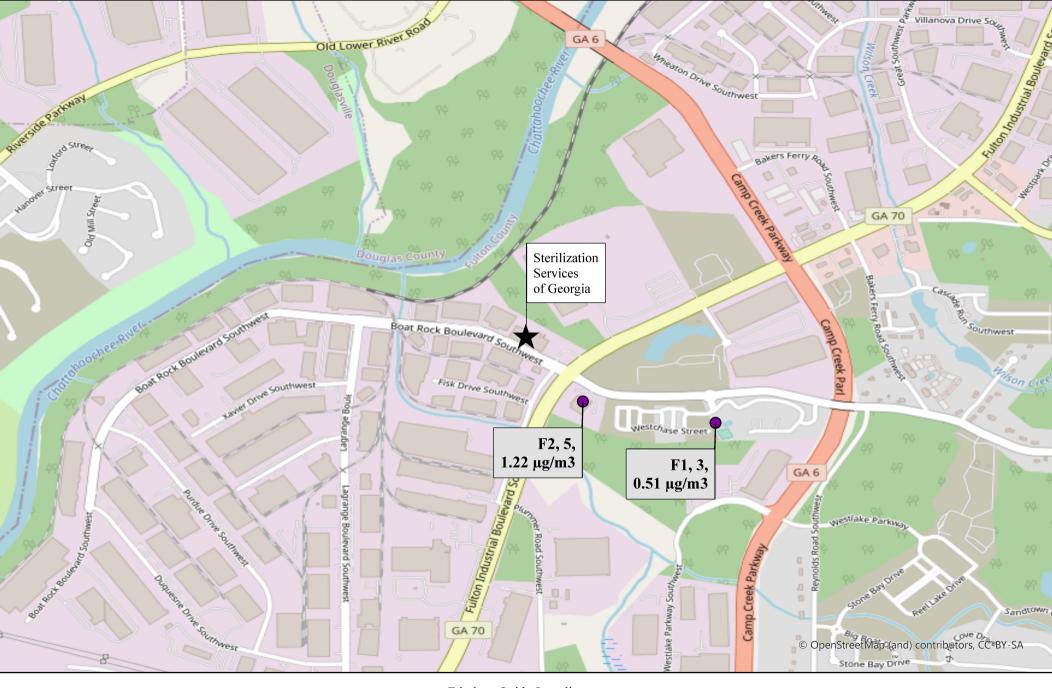


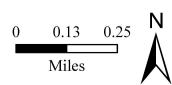
Ethylene Oxide Sampling Fulton County, GA

03/28/2020

Sampled By: Georgia Environmental Protection Division Analyzed By: Eastern Research Group







Site ID, Number of Samples, Concentration (μg/m3) Ethylene Oxide Sampling Fulton County, GA

March 2020 Site Average Values

Note: Not detectable values were included in average calculations as a value of 0.

Sampled By: Georgia Environmental Protection Division Analyzed By: Eastern Research Group



ENVIRONMENTAL PROTECTION DIVISION





Ethylene Oxide Sampling Fulton County, GA

04/03/2020

Sampled By: Georgia Environmental Protection Division Analyzed By: Eastern Research Group

