

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

November 5, 2020

MEMORANDUM

To: Karen Hays, Air Branch Chief

Through: Dika Kuoh, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: Fulton August 19, 2020 – August 31, 2020 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected during the period of August 19, 2020 – August 31, 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. Sample listed as AO indicate that sample is invalidated because of bad weather. Please note that ERG is now providing values for levels below the detection limit.

Location	Date	Qualifier	EtO Concentration (ug/m³)
F1	08/19/2020		AO
F1	08/25/2020	2	0.34
F1	08/31/2020	2	0.23
F2	08/19/2020		1.06
F2	08/25/2020		0.35
F2	08/31/2020	2	0.99
F3	08/19/2020	2	3.66
F3	08/25/2020	2	0.91
F3	08/31/2020	2	0.99

If you have any questions, please let me know.

DGO/do



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

October 06, 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 08/27/20 13:12 through 09/08/20 10:50.

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 unter 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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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: 10/06/20 12:27

SUBMITTED: 08/27/20 to 09/08/20

AQS SITE CODE:

SITE CODE: Fulton

ANALYTICAL REPORT FOR SAMPLES

<u>SampleName</u>	<u>LabNumber</u>	<u>Matrix</u>	Sampled	Received
F2	0082739-02	Air	08/19/20 23:59	08/27/20 13:12
F3	0082739-03	Air	08/19/20 23:59	08/27/20 13:12
F1	0090238-01	Air	08/25/20 23:59	09/02/20 12:14
F2	0090238-02	Air	08/25/20 23:59	09/02/20 12:14
F3	0090238-03	Air	08/25/20 23:59	09/02/20 12:14
F1	0090830-01	Air	08/31/20 23:59	09/08/20 10:50
F2	0090830-02	Air	08/31/20 23:59	09/08/20 10:50
F3	0090830-03	Air	08/31/20 23:59	09/08/20 10:50



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: 3.00" Hg

FILE #: 4222.00

REPORTED: 10/06/20 12:27

SUBMITTED: 08/27/20 to 09/08/20

Fulton

AQS SITE CODE:

SITE CODE:

Sampled: 08/19/20 23:59

Received: 08/27/20 13:12

Analyzed: 09/03/20 06:06

Air Toxics by EPA Compendium Method TO-15

0082739-02

Results

<u>Flag</u>

Canister #: 19643

Lab ID:

MDL

Ethylene oxide

Analyte

Comments:

ppbv ug/m³ 0.586

1.06

ppbv 0.0285



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Pressure @ Receipt: 14.00" Hg

Atlanta, GA 30354

Description: F3

Comments:

Analyte

Ethylene oxide

ATTN: Ms. Jaime Gore

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

FILE #: 4222.00

REPORTED: 10/06/20 12:27

SUBMITTED: 08/27/20 to 09/08/20

AQS SITE CODE:

SITE CODE: **Fulton**

Sampled: 08/19/20 23:59

Analyzed: 09/03/20 07:03

Received: 08/27/20 13:12

Air Toxics by EPA Compendium Method TO-15

MDL

0082739-03

Results ppbv ug/m³

3.66

2.03

<u>Flag</u>

Canister #: 5103

Lab ID:

ppbv 0.0285

Eastern Research Group



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: F1

ATTN: Ms. Jaime Gore

Pressure @ Receipt: 0.00" Hg

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

FILE #: 4222.00

REPORTED: 10/06/20 12:27

SUBMITTED: 08/27/20 to 09/08/20

AQS SITE CODE:

SITE CODE:

Fulton

Sampled: 08/25/20 23:59 **Received:** 09/02/20 12:14

Analyzed: 09/09/20 16:19

Air Toxics by EPA Compendium Method TO-15

0090238-01

Results

<u>MDL</u> <u>Flag</u>

Canister #: A21089

Ethylene oxide

Analyte

Comments:

ppbv ug/m³ 0.188

0.34

Lab ID:

ppbv 0.0285

Eastern Research Group



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: 3.00" Hg

FILE #: 4222.00

REPORTED: 10/06/20 12:27

SUBMITTED: 08/27/20 to 09/08/20

AQS SITE CODE:

SITE CODE: **Fulton**

0090238-02 Sampled: 08/25/20 23:59 **Canister #:** 5035 **Received:** 09/02/20 12:14

Analyzed: 09/09/20 17:14

Air Toxics by EPA Compendium Method TO-15

Results ppbv ug/m³

0.35

0.193

<u>Flag</u>

Lab ID:

MDL ppbv 0.0285

Eastern Research Group



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: F3

ATTN: Ms. Jaime Gore

Pressure @ Receipt: 0.00" Hg

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

FILE #: 4222.00

REPORTED: 10/06/20 12:27

SUBMITTED: 08/27/20 to 09/08/20

AQS SITE CODE:

SITE CODE: **Fulton**

Lab ID: 0090238-03 Sampled: 08/25/20 23:59 **Canister #:** 18833 **Received:** 09/02/20 12:14 **Analyzed:** 09/09/20 18:09

Air Toxics by EPA Compendium Method TO-15

Results

<u>Flag</u>

MDL

Analyte Ethylene oxide

Comments:

ppbv ug/m³ 0.504

0.91

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: 0.00" Hg

Lab ID:

0090830-01

Canister #: 18822

Fulton

FILE #: 4222.00

AQS SITE CODE:

SITE CODE:

REPORTED: 10/06/20 12:27

SUBMITTED: 08/27/20 to 09/08/20

Sampled: 08/31/20 23:59 **Received:** 09/08/20 10:50

Analyzed: 09/10/20 02:22

Air Toxics by EPA Compendium Method TO-15 <u>MDL</u>

Results ppbv ug/m³

<u>Flag</u>

0.126

0.23

ppbv 0.0285

Eastern Research Group



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: 0.00" Hg

FILE #: 4222.00

REPORTED: 10/06/20 12:27

SUBMITTED: 08/27/20 to 09/08/20

AQS SITE CODE:

SITE CODE: **Fulton**

Sampled: 08/31/20 23:59

Received: 09/08/20 10:50

Analyzed: 09/10/20 03:17

Air Toxics by EPA Compendium Method TO-15

0090830-02

Results

ppbv ug/m³

Lab ID:

<u>Flag</u>

Canister #: SAT076

MDL ppbv

Analyte Ethylene oxide

Comments:

0.548

0.99

0.0285



FILE #: 4222.00

AQS SITE CODE:

SITE CODE:

REPORTED: 10/06/20 12:27

SUBMITTED: 08/27/20 to 09/08/20

U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: F3

Comments:

Analyte

Ethylene oxide

ATTN: Ms. Jaime Gore

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

Pressure @ Receipt: 0.00" Hg

Lab ID:

0090830-03

Canister #: A21040

Fulton

Sampled: 08/31/20 23:59 **Received:** 09/08/20 10:50

Analyzed: 09/10/20 04:12

Air Toxics by EPA Compendium Method TO-15

Results ppbv ug/m³

<u>Flag</u>

0.546

0.99

ppbv 0.0285

MDL



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: 10/06/20 12:27

SUBMITTED: 08/27/20 to 09/08/20

AQS SITE CODE:

SITE CODE: Fulton

Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes
Air Toxics by EPA Compend	lium Method TO-15	- Quality Contr	ol			
Batch B0I0206 - Summa Canis	ster Prep					
Blank (B0I0206-BLK1)			Prepared & Analyzed: 0	9/02/20		
Ethylene oxide	ND	ppbv				U
Batch B0I0910 - Summa Canis	ster Prep					
Blank (B0I0910-BLK1)			Prepared & Analyzed: 0	9/09/20		
Ethylene oxide	ND	ppbv				U



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Calibration Check (2009005-CCV1)

Atlanta, GA 30354

ATTN: Ms. Jaime Gore

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

FILE #: 4222.00

REPORTED: 10/06/20 12:27

SUBMITTED: 08/27/20 to 09/08/20

30.00

AQS SITE CODE:

SITE CODE: Fulton

Prepared & Analyzed: 09/02/20

-7.5

Analyte	Result	Units	% Difference	Limit (%)	Notes
Air Toxics by EPA Comper Sequence 2009005	ndium Method TO-15	- Quality Cor	ntrol		

ppbv

Ethylene oxide

Sequence 2009019

 Calibration Check (2009019-CCV1)
 Prepared & Analyzed: 09/09/20

 Ethylene oxide
 2.96
 ppbv
 18.5
 30.00

2.31

Eastern Research Group



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: 10/06/20 12:27

SUBMITTED: 08/27/20 to 09/08/20

AQS SITE CODE:

SITE CODE: Fulton

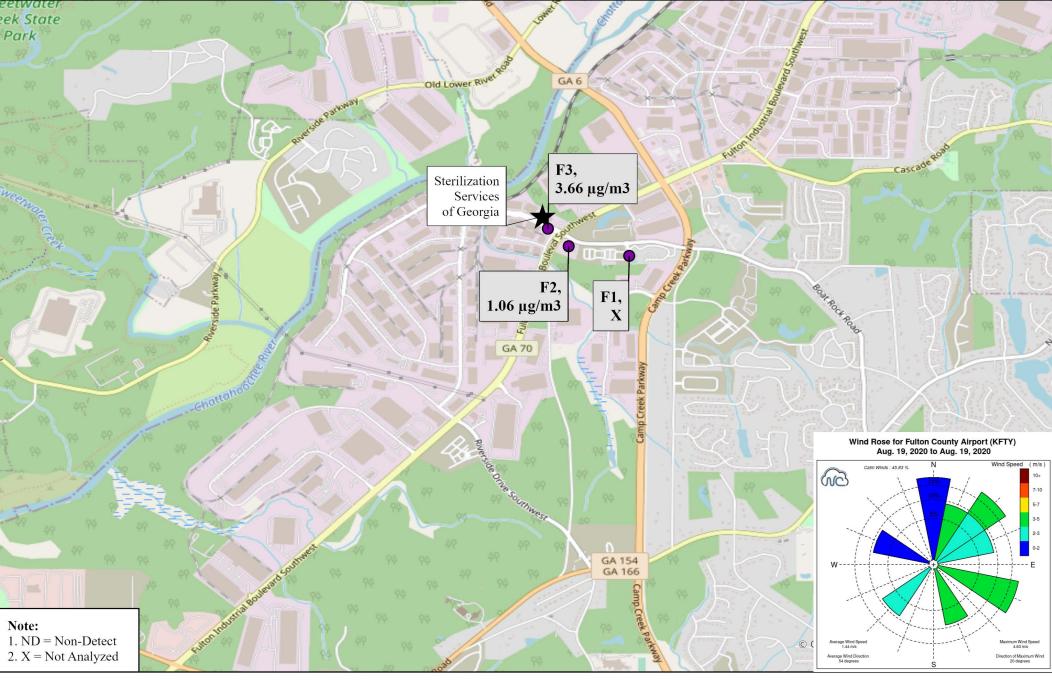
Notes and Definitions

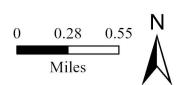
U Under Detection Limit
ND Analyte NOT DETECTED

NR Not Reported

MDL Method Detection Limit
RPD Relative Percent Difference

Note: 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.



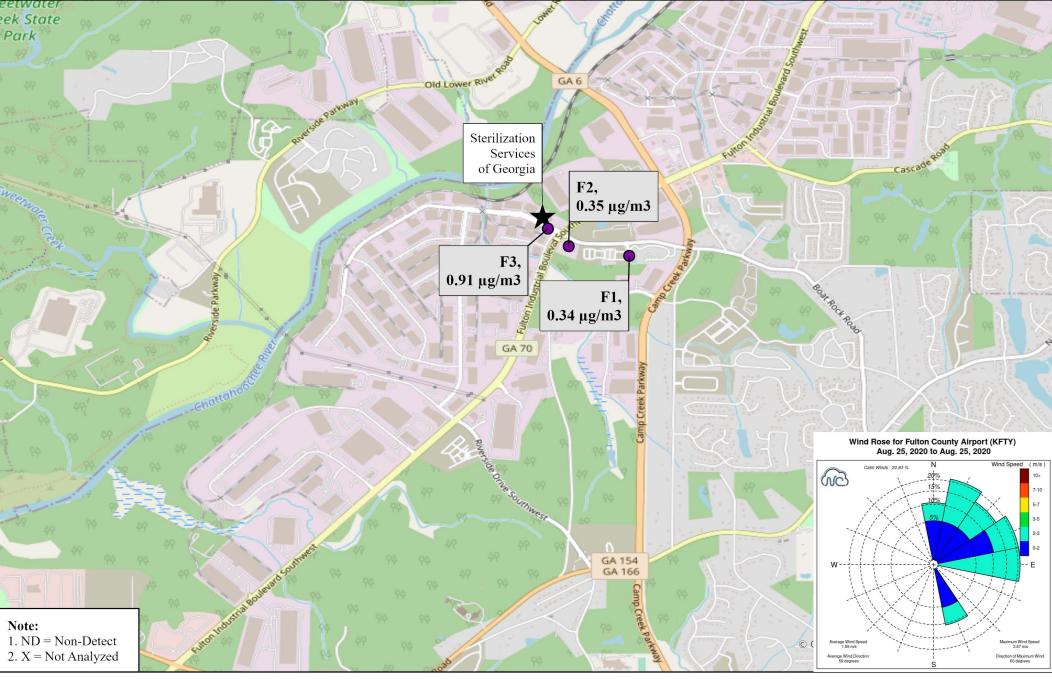


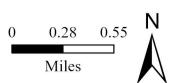
Site ID, Concentration (µg/m3)

Ethylene Oxide Sampling Fulton County, GA

08/19/2020





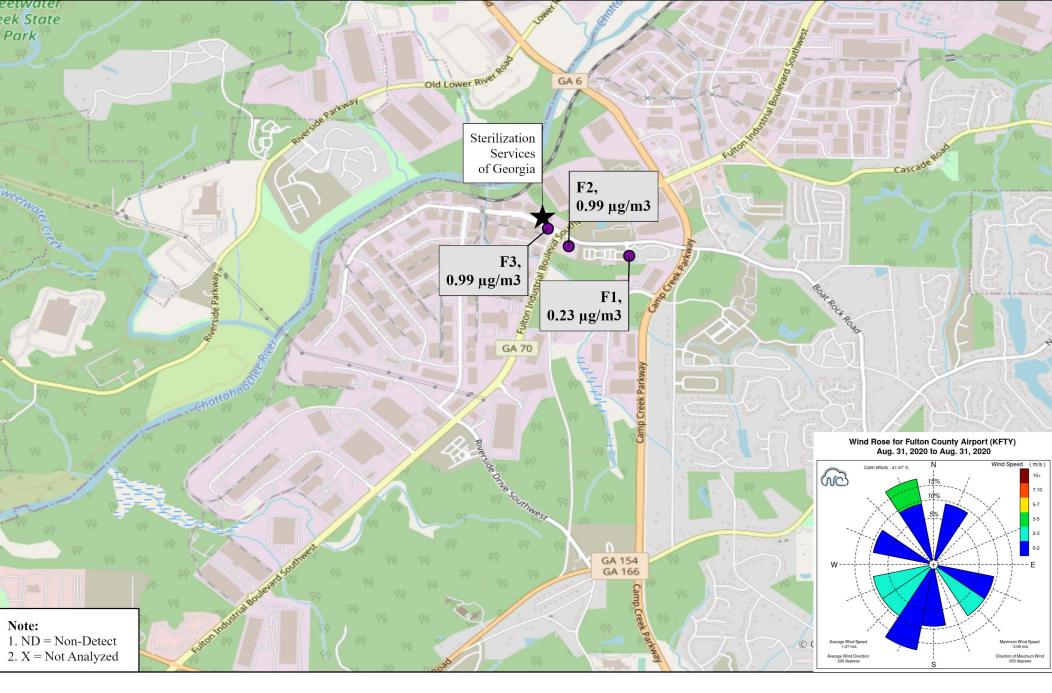


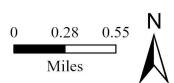
Site ID, Concentration (µg/m3)

Ethylene Oxide Sampling Fulton County, GA

08/25/2020





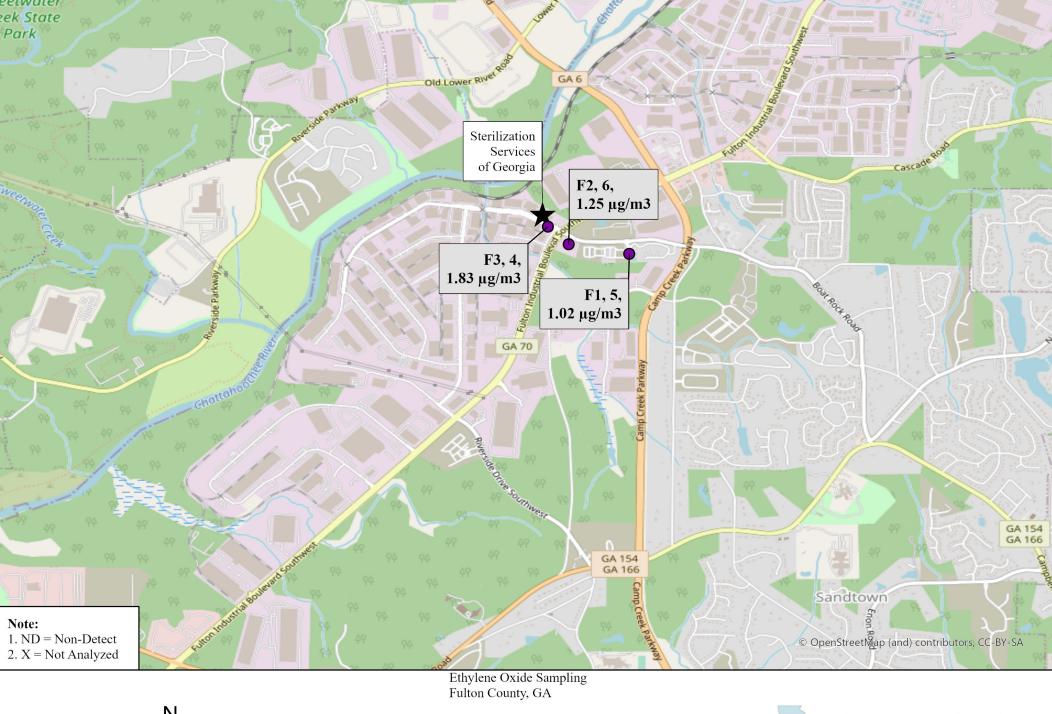


Site ID, Concentration (µg/m3)

Ethylene Oxide Sampling Fulton County, GA

08/31/2020





0 0.28 0.55 Niles

Site ID, Number of Samples, Concentration (μg/m3) August 2020 Site Average Values

Note: Not detectable values were included in average

calculations as a value of 0.

