

Richard E. Dunn, Director

EPD Director's Office

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

August 13, 2020

MEMORANDUM

To: Karen Hays, Air Branch Chief

Through: Dika Kuoh, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: Fulton June 14, 2020 – June 26, 2020 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected during the period of June 14, 2020 – June 26,2020 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. Null code "BI" is applied to the sample to indicate the sample was damaged during transit.

Please note that ERG is now providing values for levels below the detection limit.

Location	Date	Qualifier	EtO Concentration (ug/m³)
F1	06/14/2020	2	0.29
F1	06/20/2020	2	0.48
F1	06/26/2020	2	1.17
F2	06/14/2020		BI
F2	06/20/2020	2	0.89
F2	06/26/2020	2	1.72

If you have any questions, please let me know.

DGO/do



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

July 16, 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 06/25/20 11:28 through 07/06/20 10:05.

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

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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: 07/16/20 11:14

SUBMITTED: 06/25/20 to 07/06/20

AQS SITE CODE:

SITE CODE: Fulton

ANALYTICAL REPORT FOR SAMPLES

<u>SampleName</u>	<u>LabNumber</u>	<u>Matrix</u>	<u>Sampled</u>	Received
F1	0062525-01	Air	06/14/20 23:59	06/25/20 11:28
F1	0062612-01	Air	06/20/20 23:59	06/26/20 11:34
F2	0062612-02	Air	06/20/20 23:59	06/26/20 11:34
Fulton FB	0062612-03	Air	06/23/20 23:59	06/26/20 11:34
F1	0070603-01	Air	06/26/20 23:59	07/06/20 10:05
F2	0070603-02	Air	06/26/20 23:59	07/06/20 10:05



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: 6.50" Hg

FILE #: 4222.00

REPORTED: 07/16/20 11:14

SUBMITTED: 06/25/20 to 07/06/20

AQS SITE CODE:

SITE CODE:

Fulton

Sampled: 06/14/20 23:59

Received: 06/25/20 11:28 **Analyzed:** 06/27/20 01:50

Air Toxics by EPA Compendium Method TO-15

0062525-01

Results

Lab ID:

<u>Flag</u>

Canister #: 18879

ppbv ug/m³ 0.158

0.29

ppbv 0.0285

MDL

Eastern Research Group



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: 7.50" Hg

FILE #: 4222.00

REPORTED: 07/16/20 11:14

SUBMITTED: 06/25/20 to 07/06/20

AQS SITE CODE:

SITE CODE:

Fulton

Sampled: 06/20/20 23:59

Received: 06/26/20 11:34 **Analyzed:** 06/30/20 04:47

Air Toxics by EPA Compendium Method TO-15

0062612-01

Results

Lab ID:

<u>Flag</u>

Canister #: 18827

ppbv ug/m³ 0.268

0.48

ppbv 0.0285

MDL

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: 6.50" Hg

FILE #: 4222.00

REPORTED: 07/16/20 11:14

SUBMITTED: 06/25/20 to 07/06/20

AQS SITE CODE:

SITE CODE: **Fulton**

Lab ID: 0062612-02 Sampled: 06/20/20 23:59 **Canister #:** 19284 **Received:** 06/26/20 11:34 **Analyzed:** 06/30/20 05:43

Air Toxics by EPA Compendium Method TO-15

MDL

Results

0.491

ppbv ug/m³ 0.89

<u>Flag</u>

ppbv 0.0285

Eastern Research Group



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

ATTN: Ms. Jaime Gore

Description: Fulton FB

Comments: Field Blank

Pressure @ Receipt: 29.50" Hg

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

FILE #: 4222.00

REPORTED: 07/16/20 11:14

SUBMITTED: 06/25/20 to 07/06/20

AQS SITE CODE:

SITE CODE:

Fulton

Sampled: 06/23/20 23:59 **Received:** 06/26/20 11:34

Analyzed: 07/07/20 16:26

Air Toxics by EPA Compendium Method TO-15

0062612-03

Results

<u>Flag</u> U

Canister #: 19300

Lab ID:

MDL ppbv

Analyte Ethylene oxide ppbv ug/m³ ND

ND

0.0285



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: F1

ATTN: Ms. Jaime Gore

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

Pressure @ Receipt: 7.00" Hg

FILE #: 4222.00

REPORTED: 07/16/20 11:14

SUBMITTED: 06/25/20 to 07/06/20

AQS SITE CODE:

SITE CODE:

Fulton

Sampled: 06/26/20 23:59

Received: 07/06/20 10:05 **Analyzed:** 07/08/20 01:38

Air Toxics by EPA Compendium Method TO-15

0070603-01

Results

<u>Flag</u>

Canister #: SAT039

Lab ID:

MDL

Analyte Ethylene oxide

Comments:

ppbv ug/m³ 0.650

1.17

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: 7.00" Hg

REPORTED: 07/16/20 11:14

SUBMITTED: 06/25/20 to 07/06/20

AQS SITE CODE:

FILE #: 4222.00

SITE CODE: **Fulton**

Sampled: 06/26/20 23:59 Lab ID: 0070603-02 **Received:** 07/06/20 10:05 **Canister #:** 5090

Analyzed: 07/08/20 02:33

Air Toxics by EPA Compendium Method TO-15

0.0285

Results ppbv ug/m³ **MDL** ppbv

Ethylene oxide

Analyte

Comments:

0.950

1.72

<u>Flag</u>



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FILE #: 4222.00

REPORTED: 07/16/20 11:14

SUBMITTED: 06/25/20 to 07/06/20

AQS SITE CODE:

SITE CODE: Fulton

Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes
Air Toxics by EPA Compendiu Batch B0F2607 - Summa Caniste		- Quality Con	trol			
Blank (B0F2607-BLK1)			Prepared & Analyzed: 06/	26/20		
Ethylene oxide	ND	ppbv				U
Batch B0F2906 - Summa Caniste	er Prep					
Blank (B0F2906-BLK1)			Prepared & Analyzed: 06/	29/20		
Ethylene oxide	ND	ppbv				U
Batch B0G0705 - Summa Caniste	er Prep					
Blank (B0G0705-BLK1)			Prepared & Analyzed: 07/	07/20		
Ethylene oxide	ND	ppbv				U



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AQS SITE CODE:

SITE CODE: Fulton

Analyte	Result	Units	% Difference	Limit (%)	Notes
Air Toxics by EPA Compen Sequence 2006073	ndium Method TO-15	- Quality Cor	ntrol		
Calibration Check (200607	3-CCV1)	i	Prepared & Analyze	ed: 06/26/20	
Ethylene oxide	2.47	ppbv	-1.3	30.00	
Sequence 2006077					
Calibration Check (200607	7-CCV1)	i	Prepared & Analyze	ed: 06/29/20	
Ethylene oxide	2.56	ppbv	2.3	30.00	
Sequence 2007010					
Calibration Check (200701	0-CCV1)	i	Prepared & Analyze	ed: 07/07/20	
Ethylene oxide	2.69	ppbv	7.6	30.00	



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FILE #: 4222.00

REPORTED: 07/16/20 11:14

SUBMITTED: 06/25/20 to 07/06/20

AQS SITE CODE:

SITE CODE: Fulton

Notes and Definitions

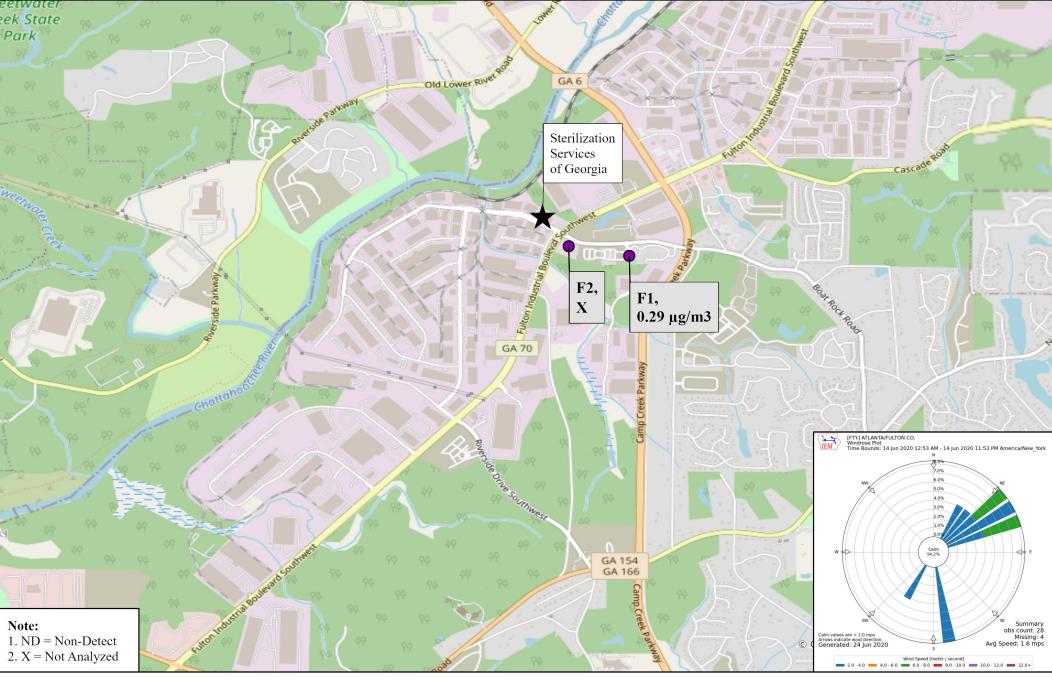
U Under Detection Limit
ND Analyte NOT DETECTED

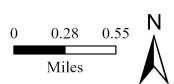
NR Not Reported

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 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 trichlorotrufluoroethane.





Site ID, Concentration (µg/m3)

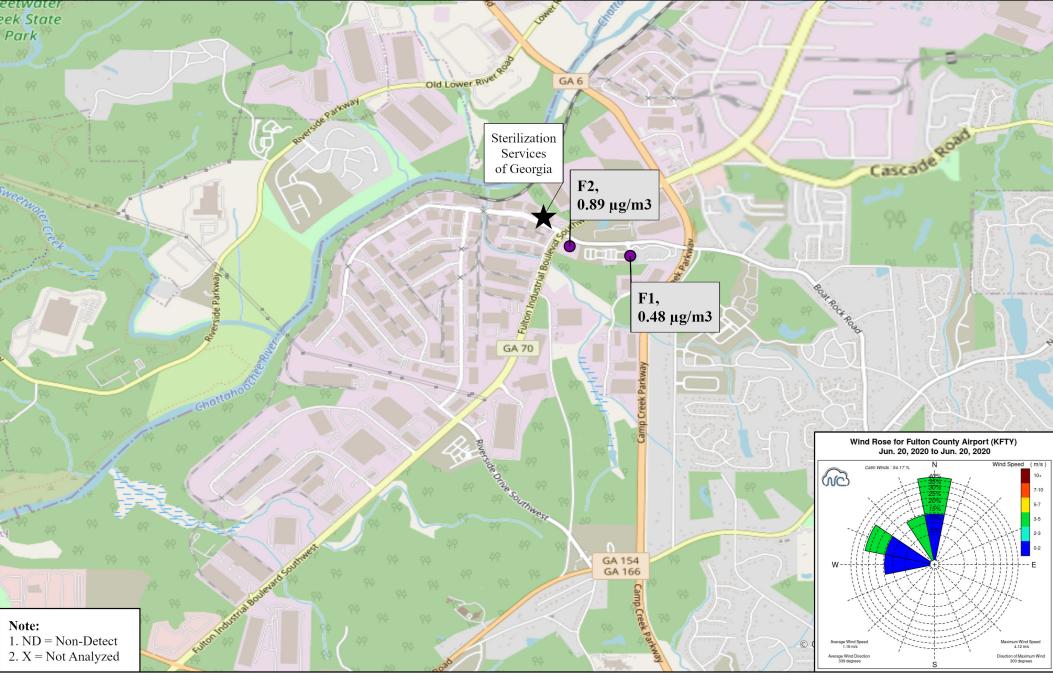
Ethylene Oxide Sampling Fulton County, GA

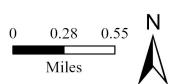
06/14/2020

Sampled By: Georgia Environmental Protection Division

Analyzed By: Eastern Research Group







Site ID, Concentration (µg/m3)

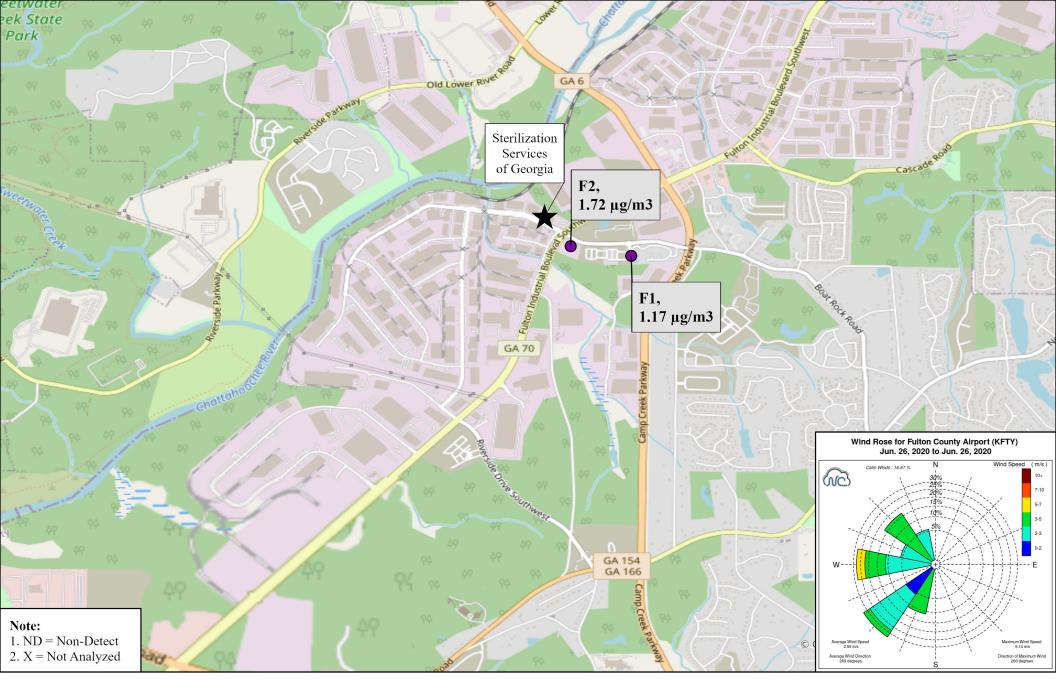
Ethylene Oxide Sampling Fulton County, GA

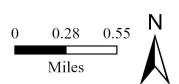
06/20/2020

Sampled By: Georgia Environmental Protection Division

Analyzed By: Eastern Research Group







Site ID, Concentration (µg/m3)

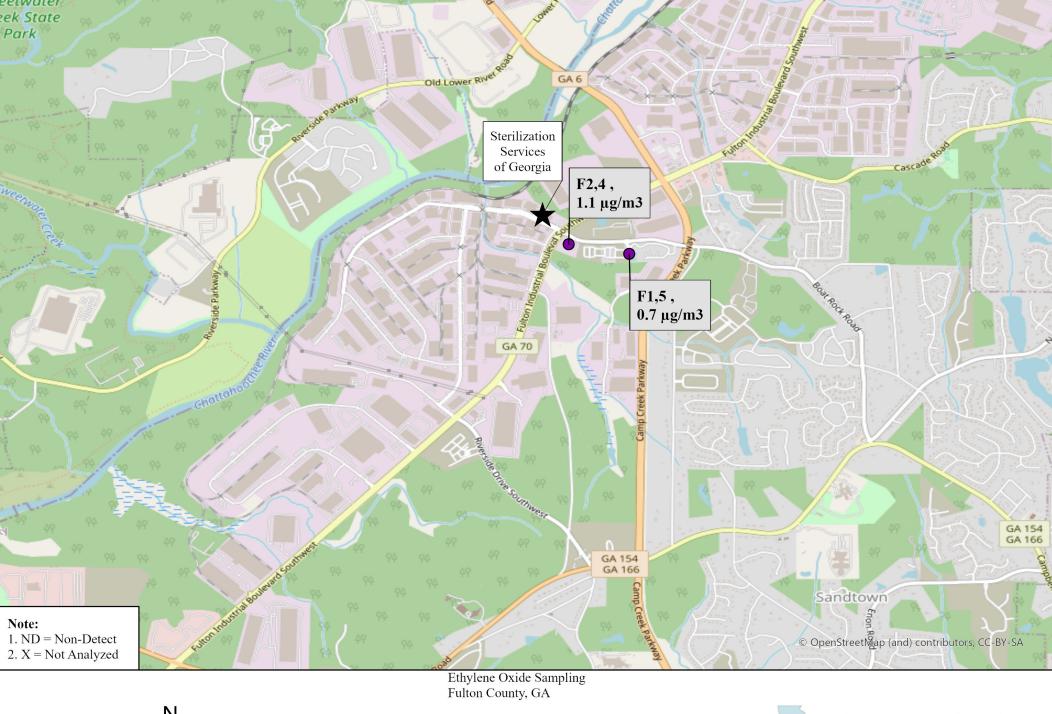
Ethylene Oxide Sampling Fulton County, GA

06/26/2020

Sampled By: Georgia Environmental Protection Division

Analyzed By: Eastern Research Group





0 0.28 0.55 Niles

Site ID, Number of Samples, Concentration (μg/m3) June 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