

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 14, 2020

MEMORANDUM

To: Karen Hays, Air Branch Chief

Through: Dika Kuoh, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: Fulton March 04, 2020 – March 22, 2020 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected during the period of March 04, 2020 – March 22, 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. Code AL is applied to the sample to indicate that it is voided by operator.

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

Location	Date	Qualifier	EtO Concentration (ug/m³)
F1	03/04/2020		0.86
F1	03/10/2020		AL
F1	03/16/2020	2	0.37
F1	03/22/2020		0.31
F2	03/04/2020	2	2.83
F2	03/10/2020		0.82
F2	03/16/2020		0.80
F2	03/22/2020	2	0.96

If you have any questions, please let me know.

DGO/do



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

April 15, 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 03/11/20 11:53 through 04/01/20 12:18.

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.



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: 04/15/20 15:43

SUBMITTED: 03/11/20 to 04/01/20

AQS SITE CODE:

SITE CODE: Fulton

ANALYTICAL REPORT FOR SAMPLES

<u>SampleName</u>	<u>LabNumber</u>	<u>Matrix</u>	Sampled	Received
F1	0031135-01	Air	03/04/20 23:59	03/11/20 11:53
F2	0031135-02	Air	03/04/20 23:59	03/11/20 11:53
F2	0031834-02	Air	03/10/20 23:59	03/18/20 11:54
F1	0032319-01	Air	03/16/20 23:59	03/23/20 10:18
F2	0032319-02	Air	03/16/20 23:59	03/23/20 10:18
F1	0040113-01	Air	03/22/20 23:59	04/01/20 12:18
F2	0040113-02	Air	03/22/20 23:59	04/01/20 12:18



U.S. Environmental Protection Agency, Region 4

FILE #: 4222.00

4244 International Pkwy, Suite 120

REPORTED: 04/15/20 15:43

Atlanta, GA 30354

Description: F1

SUBMITTED: 03/11/20 to 04/01/20

Fulton

ATTN: Ms. Jaime Gore

AQS SITE CODE:

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

Sampled: 03/04/20 23:59

Pressure @ Receipt: 4.00" Hg

Lab ID: 0031135-01

<u>Flag</u>

Received: 03/11/20 11:53

Comments:

Canister #: SAT163

Analyzed: 03/23/20 22:17

Air Toxics by EPA Compendium Method TO-15

Results

MDL

Analyte Ethylene oxide ppbv ug/m³ 0.477

0.86

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

Received at ambient

FILE #: 4222.00

4244 International Pkwy, Suite 120

REPORTED: 04/15/20 15:43

Atlanta, GA 30354

SUBMITTED: 03/11/20 to 04/01/20

Fulton

ATTN: Ms. Jaime Gore **FAX:** (919) 541-0516

AQS SITE CODE:

SITE CODE:

PHONE: (404) 362-4912

Sampled: 03/04/20 23:59

Description: F2

Lab ID: 0031135-02

Pressure @ Receipt: 0.00" Hg

Canister #: SAT130

2.83

Received: 03/11/20 11:53

Analyzed: 03/23/20 23:21

Air Toxics by EPA Compendium Method TO-15

Results

1.57

MDL

Analyte Ethylene oxide

Comments:

ppbv ug/m³

<u>Flag</u>

ppbv 0.0285



U.S. Environmental Protection Agency, Region 4

FILE #: 4222.00

4244 International Pkwy, Suite 120

REPORTED: 04/15/20 15:43

Atlanta, GA 30354

Description: F2

SUBMITTED: 03/11/20 to 04/01/20

Fulton

ATTN: Ms. Jaime Gore

FAX: (919) 541-0516

AQS SITE CODE:

SITE CODE:

GO SITE CODE.

PHONE: (404) 362-4912

Sampled: 03/10/20 23:59

Pressure @ Receipt: 2.50" Hg

Lab ID:

0031834-02

Received: 03/18/20 11:54

Comments:

Canister #: 5132

Analyzed: 04/02/20 22:17

Air Toxics by EPA Compendium Method TO-15

Results

<u>MDL</u>

Analyte
Ethylene oxide

ppbv ug/m³

0.453

0.82

<u>Flag</u>

<u>ppbv</u> 0.0285



U.S. Environmental Protection Agency, Region 4

FILE #: 4222.00

4244 International Pkwy, Suite 120

REPORTED: 04/15/20 15:43

Atlanta, GA 30354

SUBMITTED: 03/11/20 to 04/01/20

Fulton

ATTN: Ms. Jaime Gore

FAX: (919) 541-0516

AQS SITE CODE:

PHONE: (404) 362-4912

SITE CODE:

Sampled: 03/16/20 23:59

Description: F1 **Pressure @ Receipt:** 12.50" Hg

Lab ID:

0032319-01

Received: 03/23/20 10:18

Comments:

Canister #: 19289

Analyzed: 04/03/20 07:29

Air Toxics by EPA Compendium Method TO-15

Results

0.204

MDL

Analyte
Ethylene oxide

ppbv ug/m³

0.37

<u>Flag</u>

<u>ppbv</u> 0.0285



U.S. Environmental Protection Agency, Region 4

FILE #: 4222.00

4244 International Pkwy, Suite 120

REPORTED: 04/15/20 15:43

Atlanta, GA 30354

SUBMITTED: 03/11/20 to 04/01/20

ATTN: Ms. Jaime Gore

AQS SITE CODE:

PHONE: (404) 362-4912

FAX: (919) 541-0516

SITE CODE: **Fulton**

Description: F2

Lab ID:

Sampled: 03/16/20 23:59

Pressure @ Receipt: 2.00" Hg

Canister #: 5045

0032319-02

Received: 03/23/20 10:18

Comments:

Analyzed: 04/03/20 08:25

Air Toxics by EPA Compendium Method TO-15

Results

0.444

MDL

Analyte Ethylene oxide ppbv ug/m³

0.80

<u>Flag</u>

ppbv 0.0285



U.S. Environmental Protection Agency, Region 4

FILE #: 4222.00

4244 International Pkwy, Suite 120

REPORTED: 04/15/20 15:43

Atlanta, GA 30354

SUBMITTED: 03/11/20 to 04/01/20

Fulton

ATTN: Ms. Jaime Gore

FAX: (919) 541-0516

AQS SITE CODE:

PHONE: (404) 362-4912

SITE CODE:

Sampled: 03/22/20 23:59

Description: F1

Lab ID:

0040113-01

Received: 04/01/20 12:18

Pressure @ Receipt: 0.00" Hg **Comments:**

Canister #: 18829

Analyzed: 04/03/20 20:06

Air Toxics by EPA Compendium Method TO-15

Results

0.31

MDL

Analyte Ethylene oxide ppbv ug/m³

0.172

<u>Flag</u>

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.

Page 8 of 12



U.S. Environmental Protection Agency, Region 4

FILE #: 4222.00

4244 International Pkwy, Suite 120

REPORTED: 04/15/20 15:43

Atlanta, GA 30354

SUBMITTED: 03/11/20 to 04/01/20

Fulton

ATTN: Ms. Jaime Gore

FAX: (919) 541-0516

AQS SITE CODE:

PHONE: (404) 362-4912

SITE CODE:

Sampled: 03/22/20 23:59

Description: F2 Pressure @ Receipt: 0.00" Hg Lab ID: 0040113-02

Received: 04/01/20 12:18

Comments:

Received at ambient

Canister #: SAT070

Analyzed: 04/03/20 21:01

Air Toxics by EPA Compendium Method TO-15

Results

0.534

MDL

Analyte Ethylene oxide ppbv ug/m³

0.96

<u>Flag</u>

ppbv 0.0285



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: 04/15/20 15:43

SUBMITTED: 03/11/20 to 04/01/20

AQS SITE CODE:

SITE CODE: Fulton

Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes				
Air Toxics by EPA Compendium Method TO-15 - Quality Control Batch B0C2305 - Summa Canister Prep										
Blank (B0C2305-BLK1)			Prepared: 03/09/20 Analy	zed: 03/23/20						
Ethylene oxide	ND	ppbv				U				
Batch B0D0204 - Summa Canister	r <i>Prep</i>									
Blank (B0D0204-BLK1)			Prepared & Analyzed: 04/0	2/20						
Ethylene oxide	ND	ppbv				U				
Batch B0D0302 - Summa Canister	r Prep									
Blank (B0D0302-BLK1)			Prepared & Analyzed: 04/03/20							
Ethylene oxide	ND	ppbv				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: 04/15/20 15:43

SUBMITTED: 03/11/20 to 04/01/20

AQS SITE CODE:

SITE CODE: Fulton

Analyte Result Units % Difference Limit (%) Notes

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

Sequence 2003049

Calibration Check (2003049-CCV1) Prepared & Analyzed: 03/23/20

Ethylene oxide 2.72 ppbv 10.0 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.

Page 11 of 12



FILE #: 4222.00

REPORTED: 04/15/20 15:43

SUBMITTED: 03/11/20 to 04/01/20

U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

ATTN: Ms. Jaime Gore AQS SITE CODE:

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





03/04/2020

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







03/10/2020

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







03/16/2020

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







03/22/2020

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

