



**ENVIRONMENTAL PROTECTION DIVISION**

**Richard E. Dunn, Director**

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**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 *KH*

Through: Dika Kuoh, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: South DeKalb May 27, 2020 - June 8, 2020 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were taken at our South DeKalb monitoring station in May 2020 and June 2020. Each of the samples were sent to Eastern Research Group (ERG) for analysis. The sample listed as AO indicate that bad weather occurred causing an issue with the sample.

Location	Date	Qualifier	EtO Concentration (ug/m <sup>3</sup> )
South DeKalb	05/27/2020		AO
South DeKalb	06/02/2020		0.53
South DeKalb QA	06/02/2020		0.14
South DeKalb	06/08/2020		1.15

If you have any questions, please let me know.

DGO/do



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

July 01, 2020

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

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 06/10/20 11:52 through 06/17/20 11:49.

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](mailto:julie.swift@erg.com)

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# 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 #: 4022.00

REPORTED: 07/01/20 13:04

SUBMITTED: 06/10/20 to 06/17/20

AQS SITE CODE:

SITE CODE: GA EtO

## ANALYTICAL REPORT FOR SAMPLES

<u>SampleName</u>	<u>LabNumber</u>	<u>Matrix</u>	<u>Sampled</u>	<u>Received</u>
South Dekalb	0061041-01	Air	06/02/20 23:59	06/10/20 11:52
South Dekalb QA	0061041-02	Air	06/02/20 23:59	06/10/20 11:52
South Dekalb	0061734-01	Air	06/08/20 23:59	06/17/20 11:49



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AQS SITE CODE:

SITE CODE: GA EtO

**Description:** South Dekalb

**Lab ID:** 0061041-01

**Sampled:** 06/02/20 23:59

**Pressure @ Receipt:** 2.50" Hg

**Canister #:** A21001

**Received:** 06/10/20 11:52

**Comments:**

**Analyzed:** 06/12/20 20:01

## 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.294	0.53		0.0285



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SUBMITTED: 06/10/20 to 06/17/20

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb QA

Lab ID: 0061041-02

Sampled: 06/02/20 23:59

Pressure @ Receipt: 5.00" Hg

Canister #: 33297

Received: 06/10/20 11:52

Comments:

Analyzed: 06/12/20 21:51

## 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.0785	0.14		0.0285



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REPORTED: 07/01/20 13:04

SUBMITTED: 06/10/20 to 06/17/20

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb

Lab ID: 0061734-01

Sampled: 06/08/20 23:59

Pressure @ Receipt: 3.00" Hg

Canister #: 35117

Received: 06/17/20 11:49

Comments:

Analyzed: 06/19/20 07:46

## 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.637	1.15		0.0285



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 AQS SITE CODE:  
 SITE CODE: GA EtO

Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes
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## Air Toxics by EPA Compendium Method TO-15 - Quality Control

*Batch B0F1206 - Summa Canister Prep*

**Blank (B0F1206-BLK1)**

Prepared & Analyzed: 06/12/20

Ethylene oxide	ND	ppbv				U
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**Duplicate (B0F1206-DUP1)**

Source: 0061041-01

Prepared: 06/02/20 Analyzed: 06/12/20

Ethylene oxide	0.287	ppbv	0.29	2.44	25	
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**Duplicate (B0F1206-DUP2)**

Source: 0061041-02

Prepared: 06/02/20 Analyzed: 06/12/20

Ethylene oxide	0.0688	ppbv	0.08	13.2	25	
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*Batch B0F1806 - Summa Canister Prep*

**Blank (B0F1806-BLK1)**

Prepared & Analyzed: 06/18/20

Ethylene oxide	ND	ppbv				U
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**FILE #:** 4022.00  
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**AQS SITE CODE:**  
**SITE CODE:** GA EtO

Analyte	Result	Units	% Difference	Limit (%)	Notes
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## Air Toxics by EPA Compendium Method TO-15 - Quality Control

*Sequence 2006041*

**Calibration Check (2006041-CCV1)**

Prepared & Analyzed: 06/12/20

Ethylene oxide	2.88	ppbv	16.6	30.00	
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*Sequence 2006056*

**Calibration Check (2006056-CCV1)**

Prepared & Analyzed: 06/18/20

Ethylene oxide	3.16	ppbv	28.0	30.00	
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## 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.