



**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

September 16, 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 July 2-20, 2020 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were taken at our South DeKalb monitoring station in July 2020. The Qualifier code of "LK" was given by ERG to indicate that the sample may be biased high. Each of the samples were sent to Eastern Research Group (ERG) for analysis.

Location	Date	Qualifier	EtO Concentration (ug/m <sup>3</sup> )
South DeKalb	07/02/2020	LK	0.80
South DeKalb QA	07/02/2020	LK	0.93
South DeKalb	07/08/2020		0.81
South DeKalb	07/14/2020		1.07
South DeKalb	07/20/2020		3.76

If you have any questions, please let me know.

DGO/do



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

August 25, 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 07/09/20 11:00 through 07/29/20 12:27.

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: 08/25/20 09:04

SUBMITTED: 07/09/20 to 07/29/20

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	0070931-01	Air	07/02/20 23:59	07/09/20 11:00
South Dekalb QA	0070931-02	Air	07/02/20 23:59	07/09/20 11:00
South Dekalb	0071714-01	Air	07/08/20 23:59	07/17/20 12:59
South Dekalb	0072415-01	Air	07/14/20 23:59	07/24/20 12:19
South Dekalb	0072932-01	Air	07/20/20 23:59	07/29/20 12:27



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AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb

Lab ID: 0070931-01

Sampled: 07/02/20 23:59

Pressure @ Receipt: 3.50" Hg

Canister #: 5006

Received: 07/09/20 11:00

Comments:

Analyzed: 08/01/20 12:03

## 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	0.443	0.80	LK	0.0285



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AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb QA

Lab ID: 0070931-02

Sampled: 07/02/20 23:59

Pressure @ Receipt: 5.00" Hg

Canister #: SAT151

Received: 07/09/20 11:00

Comments:

Analyzed: 08/01/20 13:08

## 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	0.514	0.93	LK	0.0285



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AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb

Lab ID: 0071714-01

Sampled: 07/08/20 23:59

Pressure @ Receipt: 2.50" Hg

Canister #: SAT016

Received: 07/17/20 12:59

Comments:

Analyzed: 08/06/20 18:55

## 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	0.451	0.81		0.0285



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SUBMITTED: 07/09/20 to 07/29/20

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb

Lab ID: 0072415-01

Sampled: 07/14/20 23:59

Pressure @ Receipt: 4.00" Hg

Canister #: 5104

Received: 07/24/20 12:19

Comments:

Analyzed: 08/07/20 05:56

## 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	0.595	1.07		0.0285



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REPORTED: 08/25/20 09:04

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AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb

Lab ID: 0072932-01

Sampled: 07/20/20 23:59

Pressure @ Receipt: 3.50" Hg

Canister #: A21050

Received: 07/29/20 12:27

Comments:

Analyzed: 08/08/20 07:31

## 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	2.08	3.76		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 B0H0304 - Summa Canister Prep*

**Blank (B0H0304-BLK1)**

Prepared: 07/28/20 Analyzed: 08/01/20

Ethylene oxide	ND	ppbv				U
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**Duplicate (B0H0304-DUP1)**

**Source: 0070931-02**

Prepared: 07/02/20 Analyzed: 08/01/20

Ethylene oxide	0.497	ppbv	0.51	3.27	25	LK
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*Batch B0H0606 - Summa Canister Prep*

**Blank (B0H0606-BLK1)**

Prepared & Analyzed: 08/06/20

Ethylene oxide	ND	ppbv				U
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*Batch B0H0705 - Summa Canister Prep*

**Blank (B0H0705-BLK1)**

Prepared & Analyzed: 08/07/20

Ethylene oxide	ND	ppbv				U
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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 2007060

#### Initial Cal Check (2007060-ICV2)

Prepared: 07/31/20 Analyzed: 08/01/20

Ethylene oxide	2.26	ppbv	2.6	30.00
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### Sequence 2008012

#### Calibration Check (2008012-CCV1)

Prepared & Analyzed: 08/06/20

Ethylene oxide	2.91	ppbv	17.8	30.00
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### Sequence 2008018

#### Calibration Check (2008018-CCV1)

Prepared & Analyzed: 08/07/20

Ethylene oxide	3.01	ppbv	21.6	30.00
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**AQS SITE CODE:**  
**SITE CODE:** GA EtO

## Notes and Definitions

U Under Detection Limit  
LK Analyte identified; Reported value may be biased high.  
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.