

March 8, 2021

**MEMORANDUM**

To: Karen Hays, Air Branch Chief KH

Through: Dika Kuoh, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: South DeKalb November 5-23, 2020 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were taken at our South DeKalb monitoring station in November 2020. The Qualifier code of "2" was given to samples to indicate that the collection deviated from established procedures, but the integrity of the sample was not compromised. 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	11/05/2020	LK, 2	0.82
South DeKalb QA	11/05/2020		0.18
South DeKalb	11/11/2020	LK	0.46
South DeKalb	11/17/2020		0.13
South DeKalb	11/23/2020	LK	0.22

If you have any questions, please let me know.

DGO/do



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

January 07, 2021

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 11/18/20 11:36 through 12/04/20 11:28.

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 under 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](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:** 01/07/21 14:58  
**SUBMITTED:** 11/18/20 to 12/04/20  
**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	0111825-01	Air	11/05/20 23:59	11/18/20 11:36
South Dekalb	0111825-02	Air	11/11/20 23:59	11/18/20 11:36
South Dekalb QA	0111825-03	Air	11/05/20 23:59	11/18/20 11:36
South Dekalb	0112514-01	Air	11/17/20 23:59	11/25/20 12:43
South Dekalb	0120413-01	Air	11/23/20 23:59	12/04/20 11:28



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AQS SITE CODE:

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<b>Description:</b> South Dekalb	<b>Lab ID:</b> 0111825-01	<b>Sampled:</b> 11/05/20 23:59
<b>Pressure @ Receipt:</b> 0.00" Hg	<b>Canister #:</b> SAT164	<b>Received:</b> 11/18/20 11:36
<b>Comments:</b> Received at ambient pressure		<b>Analyzed:</b> 11/25/20 23:13

## 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	0.453	0.82	LK	0.0285



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AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb

Lab ID: 0111825-02

Sampled: 11/11/20 23:59

Pressure @ Receipt: 6.50" Hg

Canister #: SAT151

Received: 11/18/20 11:36

Comments:

Analyzed: 11/26/20 02:52

## 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	0.257	0.46	LK	0.0285



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AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb QA

Lab ID: 0111825-03

Sampled: 11/05/20 23:59

Pressure @ Receipt: 4.00" Hg

Canister #: A21015

Received: 11/18/20 11:36

Comments:

Analyzed: 11/26/20 01:02

## 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	0.101	0.18		0.0285



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REPORTED: 01/07/21 14:58

SUBMITTED: 11/18/20 to 12/04/20

AQS SITE CODE:

SITE CODE: GA EtO

**Description:** South Dekalb

**Lab ID:** 0112514-01

**Sampled:** 11/17/20 23:59

**Pressure @ Receipt:** 3.50" Hg

**Canister #:** A21025

**Received:** 11/25/20 12:43

**Comments:**

**Analyzed:** 12/14/20 22:02

## 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	0.0740	0.13		0.0285



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REPORTED: 01/07/21 14:58

SUBMITTED: 11/18/20 to 12/04/20

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb

Lab ID: 0120413-01

Sampled: 11/23/20 23:59

Pressure @ Receipt: 4.50" Hg

Canister #: 5006

Received: 12/04/20 11:28

Comments:

Analyzed: 12/16/20 05:35

## 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	0.123	0.22	LK	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 BOK2502 - Summa Canister Prep

**Blank (BOK2502-BLK1)**

Prepared &amp; Analyzed: 11/25/20

Ethylene oxide	ND	ppbv				U
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**Duplicate (BOK2502-DUP1)****Source: 0111825-01**

Prepared: 11/05/20 Analyzed: 11/26/20

Ethylene oxide	0.458	ppbv	0.45	1.08	25	
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**Duplicate (BOK2502-DUP2)****Source: 0111825-03**

Prepared: 11/05/20 Analyzed: 11/26/20

Ethylene oxide	0.114	ppbv	0.10	11.9	25	
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### Batch BOL1003 - Summa Canister Prep

**Blank (BOL1003-BLK1)**

Prepared: 12/10/20 Analyzed: 12/14/20

Ethylene oxide	ND	ppbv				U
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### Batch BOL1506 - Summa Canister Prep

**Blank (BOL1506-BLK1)**

Prepared &amp; Analyzed: 12/15/20

Ethylene oxide	ND	ppbv				U
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**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 2011057

#### Calibration Check (2011057-CCV1)

Prepared & Analyzed: 11/25/20

Ethylene oxide	3.18	ppbv	28.4	30.00
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### Sequence 2012018

#### Calibration Check (2012018-CCV1)

Prepared: 12/10/20 Analyzed: 12/14/20

Ethylene oxide	2.44	ppbv	-2.4	30.00
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### Sequence 2012025

#### Calibration Check (2012025-CCV1)

Prepared & Analyzed: 12/15/20

Ethylene oxide	2.57	ppbv	2.7	30.00
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#### Calibration Check (2012025-CCV2)

Prepared & Analyzed: 12/15/20

Ethylene oxide	2.68	ppbv	7.2	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  
LK Analyte identified; Reported value may be biased high.

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.