



**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

March 31, 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 29 – December 17, 2020 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were taken at our South DeKalb monitoring station in November and December 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	11/29/2020	LK	0.31
South DeKalb	12/05/2020	LK	0.17
South DeKalb	12/11/2020		0.14
South DeKalb QA	12/11/2020		0.22
South DeKalb	12/17/2020	LK	0.29

If you have any questions, please let me know.

DGO/do



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

February 03, 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 12/10/20 11:26 through 12/30/20 11:10.

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: 02/03/21 09:08

SUBMITTED: 12/10/20 to 12/30/20

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	0121015-01	Air	11/29/20 23:59	12/10/20 11:26
South Dekalb	0121641-01	Air	12/05/20 23:59	12/16/20 13:10
South Dekalb	0122328-01	Air	12/11/20 23:59	12/23/20 14:34
South Dekalb QA	0122328-02	Air	12/11/20 23:59	12/23/20 14:34
South Dekalb	0123027-01	Air	12/17/20 23:59	12/30/20 11:10



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AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb

Lab ID: 0121015-01

Sampled: 11/29/20 23:59

Pressure @ Receipt: 5.00" Hg

Canister #: 5100

Received: 12/10/20 11:26

Comments:

Analyzed: 12/17/20 05:38

## 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	0.174	0.31	LK	0.0285



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AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb

Lab ID: 0121641-01

Sampled: 12/05/20 23:59

Pressure @ Receipt: 4.00" Hg

Canister #: 5101

Received: 12/16/20 13:10

Comments:

Analyzed: 12/19/20 00:05

## 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	0.0916	0.17	LK	0.0285



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REPORTED: 02/03/21 09:08

SUBMITTED: 12/10/20 to 12/30/20

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb

Lab ID: 0122328-01

Sampled: 12/11/20 23:59

Pressure @ Receipt: 4.00" Hg

Canister #: A21036

Received: 12/23/20 14:34

Comments:

Analyzed: 12/31/20 01:12

## 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	0.0772	0.14		0.0285



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AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb QA

Lab ID: 0122328-02

Sampled: 12/11/20 23:59

Pressure @ Receipt: 3.50" Hg

Canister #: 35136

Received: 12/23/20 14:34

Comments:

Analyzed: 12/31/20 03:03

## 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	0.120	0.22		0.0285







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**AQS SITE CODE:**  
**SITE CODE:** GA EtO

Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes
<b>Air Toxics by EPA Compendium Method TO-15 - Quality Control</b>						
<i>Batch BOL1603 - Summa Canister Prep</i>						
<b>Blank (BOL1603-BLK1)</b>			Prepared & Analyzed: 12/16/20			
Ethylene oxide	ND	ppbv				U
<i>Batch BOL1805 - Summa Canister Prep</i>						
<b>Blank (BOL1805-BLK1)</b>			Prepared & Analyzed: 12/18/20			
Ethylene oxide	ND	ppbv				U
<i>Batch BOL3006 - Summa Canister Prep</i>						
<b>Blank (BOL3006-BLK1)</b>			Prepared & Analyzed: 12/30/20			
Ethylene oxide	ND	ppbv				U
<b>Duplicate (BOL3006-DUP1)</b>			<b>Source: 0122328-01</b> Prepared: 12/11/20 Analyzed: 12/31/20			
Ethylene oxide	0.0728	ppbv	0.08	5.87	25	
<b>Duplicate (BOL3006-DUP2)</b>			<b>Source: 0122328-02</b> Prepared: 12/11/20 Analyzed: 12/31/20			
Ethylene oxide	0.113	ppbv	0.12	6.53	25	
<i>Batch BOL3104 - Summa Canister Prep</i>						
<b>Blank (BOL3104-BLK1)</b>			Prepared & Analyzed: 12/31/20			
Ethylene oxide	ND	ppbv				U



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

### Sequence 2012029

**Calibration Check (2012029-CCV1)**

Prepared &amp; Analyzed: 12/16/20

Ethylene oxide	2.48	ppbv	2.5	30.00
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### Sequence 2012038

**Calibration Check (2012038-CCV1)**

Prepared &amp; Analyzed: 12/18/20

Ethylene oxide	2.44	ppbv	-2.5	30.00
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### Sequence 2012052

**Calibration Check (2012052-CCV1)**

Prepared &amp; Analyzed: 12/30/20

Ethylene oxide	2.69	ppbv	7.8	30.00
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### Sequence 2012054

**Calibration Check (2012054-CCV1)**

Prepared &amp; Analyzed: 12/31/20

Ethylene oxide	2.60	ppbv	4.2	30.00
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**AQS SITE CODE:**  
**SITE CODE:** GA EtO

## 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.