

June 18, 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 April 15, 2020-May 03, 2020 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were taken at our South DeKalb monitoring station in April 2020 and May 2020. 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. The sample listed as AA indicates a sample pressure was out of limits.

Location	Date	Qualifier	EtO Concentration (ug/m ³)
South DeKalb	04/15/2020	2	0.16
South DeKalb QA	04/15/2020		AA
South DeKalb	04/21/2020	2	0.84
South DeKalb	04/27/2020	2	0.92
South DeKalb	05/03/2020	2	0.40
South DeKalb QA	05/03/2020		0.60

If you have any questions, please let me know.

DGO/do



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

June 05, 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 04/22/20 10:09 through 05/13/20 12:09.

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

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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: 06/05/20 12:26

SUBMITTED: 04/22/20 to 05/13/20

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	0042221-01	Air	04/15/20 23:59	04/22/20 10:09
South Dekalb-Atec	0042221-02	Air	04/15/20 23:59	04/22/20 10:09
South Dekalb	0050115-01	Air	04/21/20 23:59	05/01/20 12:46
South Dekalb	0050618-01	Air	04/27/20 23:59	05/06/20 11:25
South Dekalb	0051325-01	Air	05/03/20 23:59	05/13/20 12:09
South Dekalb QA	0051325-02	Air	05/03/20 23:59	05/13/20 12:09



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AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb

Lab ID: 0042221-01

Sampled: 04/15/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: A21035

Received: 04/22/20 10:09

Comments:

Analyzed: 05/01/20 19:08

Air Toxics by EPA Compendium Method TO-15

Analyte	Results		Flag	MDL
	ppbv	ug/m ³		ppbv
Ethylene oxide	0.0903	0.16		0.0285



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AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb-Atec

Lab ID: 0042221-02

Sampled: 04/15/20 23:59

Pressure @ Receipt: 12.50" psi

Canister #: A21042

Received: 04/22/20 10:09

Comments:

Analyzed: 05/01/20 20:59

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/m³</u>		<u>ppbv</u>
Ethylene oxide	0.0575	0.10		0.0285



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AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb

Lab ID: 0050115-01

Sampled: 04/21/20 23:59

Pressure @ Receipt: 15.00" Hg

Canister #: A21071

Received: 05/01/20 12:46

Comments:

Analyzed: 05/17/20 07:07

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/m³</u>		<u>ppbv</u>
Ethylene oxide	0.467	0.84		0.0285



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SUBMITTED: 04/22/20 to 05/13/20

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb

Lab ID: 0050618-01

Sampled: 04/27/20 23:59

Pressure @ Receipt: 7.00" Hg

Canister #: 5121

Received: 05/06/20 11:25

Comments:

Analyzed: 05/22/20 13:06

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/m³</u>		<u>ppbv</u>
Ethylene oxide	0.507	0.92		0.0285



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SUBMITTED: 04/22/20 to 05/13/20

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb

Lab ID: 0051325-01

Sampled: 05/03/20 23:59

Pressure @ Receipt: 8.50" Hg

Canister #: 5102

Received: 05/13/20 12:09

Comments:

Analyzed: 05/26/20 20:08

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/m³</u>		<u>ppbv</u>
Ethylene oxide	0.220	0.40		0.0285



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AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb QA

Lab ID: 0051325-02

Sampled: 05/03/20 23:59

Pressure @ Receipt: 6.50" Hg

Canister #: 22325

Received: 05/13/20 12:09

Comments:

Analyzed: 05/26/20 21:59

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/m³</u>		<u>ppbv</u>
Ethylene oxide	0.334	0.60		0.0285



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SUBMITTED: 04/22/20 to 05/13/20

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 B0E0102 - Summa Canister Prep

Blank (B0E0102-BLK1)

Prepared & Analyzed: 05/01/20

Ethylene oxide	ND	ppbv				U
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Duplicate (B0E0102-DUP1)

Source: 0042221-01

Prepared: 04/16/20 Analyzed: 05/01/20

Ethylene oxide	0.0816	ppbv	0.09	10.1	25	
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Duplicate (B0E0102-DUP2)

Source: 0042221-02

Prepared: 04/16/20 Analyzed: 05/01/20

Ethylene oxide	0.0600	ppbv	0.06	4.26	25	
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Batch B0E1502 - Summa Canister Prep

Blank (B0E1502-BLK1)

Prepared: 05/15/20 Analyzed: 05/16/20

Ethylene oxide	ND	ppbv				U
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Batch B0E2104 - Summa Canister Prep

Blank (B0E2104-BLK1)

Prepared & Analyzed: 05/21/20

Ethylene oxide	ND	ppbv				U
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Batch B0E2608 - Summa Canister Prep

Blank (B0E2608-BLK1)

Prepared & Analyzed: 05/26/20

Ethylene oxide	ND	ppbv				U
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Duplicate (B0E2608-DUP1)

Source: 0051325-01

Prepared: 05/03/20 Analyzed: 05/26/20

Ethylene oxide	0.212	ppbv	0.22	3.65	25	
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Duplicate (B0E2608-DUP2)

Source: 0051325-02

Prepared: 05/03/20 Analyzed: 05/26/20

Ethylene oxide	0.331	ppbv	0.33	1.02	25	
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REPORTED: 06/05/20 12:26

SUBMITTED: 04/22/20 to 05/13/20

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 2005002

Calibration Check (2005002-CCV1)

Prepared & Analyzed: 05/01/20

Ethylene oxide	2.30	ppbv	-7.9	30.00
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Sequence 2005034

Calibration Check (2005034-CCV1)

Prepared: 05/15/20 Analyzed: 05/16/20

Ethylene oxide	3.15	ppbv	26.0	30.00
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Sequence 2005050

Calibration Check (2005050-CCV1)

Prepared & Analyzed: 05/21/20

Ethylene oxide	2.66	ppbv	6.5	30.00
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Sequence 2005056

Calibration Check (2005056-CCV1)

Prepared & Analyzed: 05/26/20

Ethylene oxide	2.55	ppbv	3.0	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

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.