



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

December 8, 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 September 06-24, 2020 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were taken at our South DeKalb monitoring station in September 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. The Qualifier code of "D-F" was given by ERG to indicate that the duplicate exceeds Data Quality Objectives (DQO) criteria. Each of the samples were sent to Eastern Research Group (ERG) for analysis.

Location	Date	Qualifier	EtO Concentration (ug/m ³)
South DeKalb	09/06/2020	2	1.55
South DeKalb	09/12/2020		0.62
South DeKalb	09/18/2020	D-F, 2, LK	7.22
South DeKalb QA	09/18/2020	D-F	0.33
South DeKalb	09/24/2020		0.39

If you have any questions, please let me know.

DGO/do



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

October 26, 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 09/16/20 13:41 through 09/30/20 13:44.

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

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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: 10/26/20 10:56

SUBMITTED: 09/16/20 to 09/30/20

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	0091632-01	Air	09/06/20 23:59	09/16/20 13:41
South Dekalb	0092334-01	Air	09/12/20 23:59	09/23/20 13:16
South Dekalb	0093026-01	Air	09/18/20 23:59	09/30/20 13:44
South Dekalb	0093026-02	Air	09/24/20 23:59	09/30/20 13:44
South Dekalb QA	0093026-03	Air	09/18/20 23:59	09/30/20 13:44



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REPORTED: 10/26/20 10:56

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AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb

Lab ID: 0091632-01

Sampled: 09/06/20 23:59

Pressure @ Receipt: 2.00" Hg

Canister #: 0053

Received: 09/16/20 13:41

Comments:

Analyzed: 09/24/20 17:35

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/m³</u>		<u>ppbv</u>
Ethylene oxide	0.859	1.55		0.0285



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AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb

Lab ID: 0092334-01

Sampled: 09/12/20 23:59

Pressure @ Receipt: 4.00" Hg

Canister #: 5062

Received: 09/23/20 13:16

Comments:

Analyzed: 09/25/20 05:27

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	0.345	0.62		0.0285



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REPORTED: 10/26/20 10:56

SUBMITTED: 09/16/20 to 09/30/20

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb

Lab ID: 0093026-01

Sampled: 09/18/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: 35149

Received: 09/30/20 13:44

Comments:

Analyzed: 10/07/20 06:56

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/m³</u>		<u>ppbv</u>
Ethylene oxide	4.00	7.22	D-F	0.0285



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SUBMITTED: 09/16/20 to 09/30/20

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb

Lab ID: 0093026-02

Sampled: 09/24/20 23:59

Pressure @ Receipt: 3.00" Hg

Canister #: 5072

Received: 09/30/20 13:44

Comments:

Analyzed: 10/08/20 05:41

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	0.213	0.39		0.0285



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REPORTED: 10/26/20 10:56

SUBMITTED: 09/16/20 to 09/30/20

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb QA

Lab ID: 0093026-03

Sampled: 09/18/20 23:59

Pressure @ Receipt: 2.00" Hg

Canister #: 19300

Received: 09/30/20 13:44

Comments:

Analyzed: 10/07/20 08:45

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	0.180	0.33	D-F	0.0285



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FILE #: 4022.00
 REPORTED: 10/26/20 10:56
 SUBMITTED: 09/16/20 to 09/30/20
 AQS SITE CODE:
 SITE CODE: GA EtO

Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes
Air Toxics by EPA Compendium Method TO-15 - Quality Control						
<i>Batch B0I2408 - Summa Canister Prep</i>						
Blank (B0I2408-BLK1)			Prepared & Analyzed: 09/24/20			
Ethylene oxide	ND	ppbv				U
<i>Batch B0J0610 - Summa Canister Prep</i>						
Blank (B0J0610-BLK1)			Prepared & Analyzed: 10/06/20			
Ethylene oxide	ND	ppbv				U
Duplicate (B0J0610-DUP3)			Source: 0093026-01 Prepared: 09/18/20 Analyzed: 10/07/20			
Ethylene oxide	3.58	ppbv	4.00	11.0	25	
Duplicate (B0J0610-DUP4)			Source: 0093026-03 Prepared: 09/18/20 Analyzed: 10/07/20			
Ethylene oxide	0.227	ppbv	0.18	23.0	25	
<i>Batch B0J0707 - Summa Canister Prep</i>						
Blank (B0J0707-BLK1)			Prepared & Analyzed: 10/07/20			
Ethylene oxide	ND	ppbv				U



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FILE #: 4022.00
REPORTED: 10/26/20 10:56
SUBMITTED: 09/16/20 to 09/30/20
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 2009060

Calibration Check (2009060-CCV1)

Prepared & Analyzed: 09/24/20

Ethylene oxide	2.93	ppbv	17.1	30.00
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Sequence 2010014

Calibration Check (2010014-CCV1)

Prepared & Analyzed: 10/06/20

Ethylene oxide	2.49	ppbv	0.6	30.00
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Sequence 2010018

Calibration Check (2010018-CCV1)

Prepared & Analyzed: 10/07/20

Ethylene oxide	2.98	ppbv	20.5	30.00
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AQS SITE CODE:
SITE CODE: GA EtO

Notes and Definitions

U Under Detection Limit
D-F Duplicate exceeds DQO criteria.
ND Analyte NOT DETECTED
NR Not Reported
MDL Method Detection Limit
RPD Relative Percent Difference

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.