



GEORGIA

DEPARTMENT OF NATURAL RESOURCES

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

October 19, 2020

MEMORANDUM

KH

To: Karen Hays, Air Branch Chief

Through: Dika Kuoh, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: South DeKalb July 26, 2020 – August 13, 2020 Sampling Results for Ethylene Oxide

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

Location	Date	Qualifier	EtO Concentration (ug/m ³)
South DeKalb	07/26/2020		0.51
South DeKalb	08/01/2020	LK, 2	0.20
South DeKalb QA	08/01/2020		0.46
South DeKalb	08/07/2020		0.95
South DeKalb	08/13/2020		2.91

If you have any questions, please let me know.

DGO/do



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

September 10, 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 08/05/20 14:40 through 08/21/20 12:57.

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

The information contained in this report and its attachment(s) are intended only for the use of the individual to whom it is addressed and may contain information that is privileged, confidential, or exempt from disclosure. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this report is strictly prohibited. If you have received this report in error, please notify julie.swift@erg.com and delete the report without retaining any copies.



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: 09/10/20 14:01

SUBMITTED: 08/05/20 to 08/21/20

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	0080537-01	Air	07/26/20 23:59	08/05/20 14:40
South Dekalb	0081409-01	Air	08/01/20 23:59	08/14/20 11:54
South Dekalb	0081409-02	Air	08/07/20 23:59	08/14/20 11:54
South Dekalb QA	0081409-03	Air	08/01/20 23:59	08/14/20 11:54
South Dekalb	0082119-01	Air	08/13/20 23:59	08/21/20 12:57



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: 09/10/20 14:01

SUBMITTED: 08/05/20 to 08/21/20

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb

Lab ID: 0080537-01

Sampled: 07/26/20 23:59

Pressure @ Receipt: 3.00" Hg

Canister #: SAT064

Received: 08/05/20 14:40

Comments:

Analyzed: 08/21/20 05:13

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/m³</u>		<u>ppbv</u>
Ethylene oxide	0.284	0.51		0.0285



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: 09/10/20 14:01

SUBMITTED: 08/05/20 to 08/21/20

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb	Lab ID: 0081409-01	Sampled: 08/01/20 23:59
Pressure @ Receipt: 0.00" Hg	Canister #: A21074	Received: 08/14/20 11:54
Comments: Received at ambient pressure		Analyzed: 08/28/20 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/m³</u>		<u>ppbv</u>
Ethylene oxide	0.112	0.20	LK	0.0285



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: 09/10/20 14:01

SUBMITTED: 08/05/20 to 08/21/20

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb	Lab ID: 0081409-02	Sampled: 08/07/20 23:59
Pressure @ Receipt: 0.00" Hg	Canister #: A21098	Received: 08/14/20 11:54
Comments: Received at ambient pressure		Analyzed: 09/02/20 06:18

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	0.526	0.95		0.0285



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: 09/10/20 14:01

SUBMITTED: 08/05/20 to 08/21/20

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb QA

Lab ID: 0081409-03

Sampled: 08/01/20 23:59

Pressure @ Receipt: 2.00" Hg

Canister #: A21065

Received: 08/14/20 11:54

Comments:

Analyzed: 08/28/20 23:07

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	0.252	0.46		0.0285



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: 09/10/20 14:01

SUBMITTED: 08/05/20 to 08/21/20

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb

Lab ID: 0082119-01

Sampled: 08/13/20 23:59

Pressure @ Receipt: 7.50" Hg

Canister #: SAT077

Received: 08/21/20 12:57

Comments:

Analyzed: 09/03/20 05:11

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	1.61	2.91		0.0285



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: 09/10/20 14:01

SUBMITTED: 08/05/20 to 08/21/20

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

Batch B0H2009 - Summa Canister Prep

Blank (B0H2009-BLK1)

Prepared & Analyzed: 08/20/20

Ethylene oxide	ND	ppbv				U
----------------	----	------	--	--	--	---

Duplicate (B0H2009-DUP1)

Source: 0080537-01

Prepared: 07/26/20 Analyzed: 08/21/20

Ethylene oxide	0.278	ppbv	0.28	2.24	25	
----------------	-------	------	------	------	----	--

Batch B0H2802 - Summa Canister Prep

Blank (B0H2802-BLK1)

Prepared: 08/11/20 Analyzed: 08/28/20

Ethylene oxide	ND	ppbv				U
----------------	----	------	--	--	--	---

Duplicate (B0H2802-DUP1)

Source: 0081409-01

Prepared: 08/01/20 Analyzed: 08/29/20

Ethylene oxide	0.114	ppbv	0.11	1.85	25	LK
----------------	-------	------	------	------	----	----

Duplicate (B0H2802-DUP2)

Source: 0081409-03

Prepared: 08/01/20 Analyzed: 08/29/20

Ethylene oxide	0.259	ppbv	0.25	2.70	25	
----------------	-------	------	------	------	----	--

Batch B0I0108 - Summa Canister Prep

Blank (B0I0108-BLK1)

Prepared & Analyzed: 09/01/20

Ethylene oxide	ND	ppbv				U
----------------	----	------	--	--	--	---

Batch B0I0206 - Summa Canister Prep

Blank (B0I0206-BLK1)

Prepared & Analyzed: 09/02/20

Ethylene oxide	ND	ppbv				U
----------------	----	------	--	--	--	---



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: 09/10/20 14:01

SUBMITTED: 08/05/20 to 08/21/20

AQS SITE CODE:

SITE CODE: GA EtO

Analyte	Result	Units	% Difference	Limit (%)	Notes
---------	--------	-------	--------------	-----------	-------

Air Toxics by EPA Compendium Method TO-15 - Quality Control

Sequence 2008048

Calibration Check (2008048-CCV1)

Prepared & Analyzed: 08/20/20

Ethylene oxide	2.51	ppbv	0.3	30.00
----------------	------	------	-----	-------

Sequence 2008066

Calibration Check (2008066-CCV1)

Prepared & Analyzed: 08/28/20

Ethylene oxide	2.31	ppbv	-6.7	30.00
----------------	------	------	------	-------

Sequence 2009001

Calibration Check (2009001-CCV1)

Prepared & Analyzed: 09/01/20

Ethylene oxide	2.22	ppbv	-11.3	30.00
----------------	------	------	-------	-------

Sequence 2009005

Calibration Check (2009005-CCV1)

Prepared & Analyzed: 09/02/20

Ethylene oxide	2.31	ppbv	-7.5	30.00
----------------	------	------	------	-------



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: 09/10/20 14:01

SUBMITTED: 08/05/20 to 08/21/20

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.