

Richard E. Dunn, Director

EPD Director's Office 2 Martin Luther King, Jr. Drive Suite 1456, East Tower Atlanta, Georgia 30334 404-656-4713

ENVIRONMENTAL PROTECTION DIVISION

March 12, 2020

11

MEMORANDUM

To:	Karen Hays	Air Branch	Chief	V1	X
	,			N	

Through: Dika Kuoh, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: South DeKalb December 19, 2019 – January 16, 2020 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were taken at our South DeKalb monitoring station in December 2019 and January 2020. Each of the samples were sent to Eastern Research Group (ERG) for analysis.

The Qualifier code of "LK" was given by ERG to indicate that the sample may be biased high. The qualifier code "U" was given by ERG to indicate that the sample is under the detection limit. Please note that ERG is now providing values for levels below the detection limit. The samples listed as AF indicate that the sample was scheduled but not collected. On previous memos, this was listed as an X rather than AF, but we have changed the code to be more consistent with our other documentation. The samples listed as AN indicate that the machine malfunctioned while collecting the sample. The Qualifier code of "2" was given to the sample to indicate that the collection deviated from established procedures, but the integrity of the sample was not compromised. Please note that ERG is now providing values for levels below the detection limit. As of January 1, this site began sampling once every 6 days consistent with the other compounds for the National Air Toxics Trends Station (NATTS).

Date	Qualifier	EtO Concentration (ug/m ³)
12/19/2019	2	0.28
12/23/2019		AN
12/31/2019		0.13
01/04/2020	2	0.16
01/07/2020	U, 2	0.04
01/10/2020		AF
01/16/2020	LK	0.24

If you have any questions, please let me know.



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

February 20, 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 01/07/20 10:35 through 01/23/20 12:19.

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.

NERG

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: 02/20/20 12:45 SUBMITTED: 01/07/20 to 01/23/20 AQS SITE CODE: SITE CODE: GA EtO

ANALYTICAL REPORT FOR SAMPLES

SampleName	LabNumber	<u>Matrix</u>	Sampled	Received
South Dekalb	0010718-01	Air	12/19/19 23:59	01/07/20 10:35
South Dekalb	0010718-02	Air	12/31/19 23:59	01/07/20 10:35
South Dekalb	0010908-01	Air	01/04/20 23:59	01/09/20 11:20
South Dekalb	0011706-01	Air	01/07/20 23:59	01/17/20 11:14
South Dekalb	0012314-01	Air	01/16/20 23:59	01/23/20 12:19

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The results in this report apply only to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Page 2 of 10

U.S. Environmental Protection Agency, Region 4				FILE #: 4022.00			
4244 International Pkwy, Suite 120				REPORTED: 02/20/20 12:45			
Atlanta, GA 30354 SUBMITTED: 01/07/20 to 01/23/20			: 01/07/20 to 01/23/20				
ATTN: Ms. Jaime Gore				AQS SITE C	ODE:		
PHONE: (404) 362-4912 FAX:	(919) 541-0516			SITE CODE:	GA EtO		
Description: South Dekalb		Lab ID:	0010718-01		Sampled: 12/19/19 23:59		
Pressure @ Receipt: 0.75" Hg		Canister #:	SAT110		Received: 01/07/20 10:35		
Comments:					Analyzed: 01/09/20 21:06		
	Air To	xics by EPA	Compend	ium Metho	i TO-15		
	<u>Results</u>		<u>MDL</u>				
<u>Analyte</u>	<u>ppbv</u> <u>ug/m³</u>	<u>Flag</u>	<u>ppbv</u>				
Ethylene oxide	0.154 0.28		0.0250				

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Atlanta, GA 30354			SUBMITTED:	01/07/20 to 01/23/20		
ATTN: Ms. Jaime Gore AQS SITE CODE:				DE:		
PHONE: (404) 362-4912 FAX:	(919) 541-0516			SITE CODE:	GA EtO	
Description: South Dekalb		Lab ID:	0010718-02		Sampled: 12/31/19 23:59	
Pressure @ Receipt: 0" Hg		Canister #:	5004		Received: 01/07/20 10:35	
Comments: Received at ambien	t				Analyzed: 01/09/20 22:01	
	Air To	xics by EPA	A Compend	ium Method	ГО-15	
	<u>Results</u>		<u>MDL</u>			
<u>Analyte</u>	<u>ppbv</u> _ug/m ³	<u>Flag</u>	<u>ppbv</u>			
Ethylene oxide	0.0709 0.13		0.0250			

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ATTN: Ms. Jaime Gore AQS SITE CODE:				DE:			
PHONE: (404) 362-4912 FAX: (91	9) 541-0516			SITE CODE:	GA EtO		
Description: South Dekalb	L	ab ID:	0010908-01		Sampled: 01/04/20 23:59		
Pressure @ Receipt: 0" Hg	(Canister #:	A21084		Received: 01/09/20 11:20		
Comments: Received at ambient					Analyzed: 01/15/20 11:37		
	Air Tox	ics by EPA	Compend	ium Method	TO-15		
	<u>Results</u>		<u>MDL</u>				
Analyte pr	<u>pbv ug/m³</u>	<u>Flag</u>	<u>ppbv</u>				
Ethylene oxide 0.0	888 0.16		0.0250				

U.S. Environmental Protection Agency, Region 4		FILE #: 4022.00			
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Atlanta, GA 30354		SUBMITTED: 01/07/20 to 01/23/20			
ATTN: Ms. Jaime Gore AQS SITE CODE:					
PHONE: (404) 362-4912 FAX: (919) 541-0516		SITE CODE: GA EtO			
Description: South Dekalb	Lab ID: 0011706-01	Sampled: 01/07/20 23:59			
Pressure @ Receipt: 2.00" Hg	Canister #: A21058	Received: 01/17/20 11:14			
Comments:		Analyzed: 01/21/20 22:22			
Air Toxics by EPA Compendium Method TO-15					
<u>Results</u>	<u>MDL</u>				
Analyte ppbv ug/m ³	<u>Flag ppbv</u>				

0.0250

NERG

Ethylene oxide

0.0235

0.04

U

U.S. Environmental Protection Agency, Region 4		FILE #: 4022.00			
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ATTN: Ms. Jaime Gore AQS SITE CODE:					
PHONE: (404) 362-4912 FAX: (919) 541-0516		SITE CODE: GA EtO			
Description: South Dekalb	Lab ID: 0012314-01	Sampled: 01/16/20 23:59			
Pressure @ Receipt: 6.50" Hg	Canister #: SAT178	Received: 01/23/20 12:19			
Comments:		Analyzed: 01/27/20 23:40			
Air Toxics by EPA Compendium Method TO-15					
<u>Results</u>	<u>MDL</u>				
Analyte ppbv ug/m ³	<u>Flag</u> <u>ppbv</u>				

0.0250

LK

0.134 0.24

NERG

Ethylene oxide

Page 7 of 10

NERG	CERTIFICATE OF ANALYSIS				
U.S. Environmental Protection Agency, R	legion 4	FILE #: 4022.00			
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Atlanta, GA 30354		SUBMITTED: 01/07/20 to 01/23/20			
ATTN: Ms. Jaime Gore		AQS SITE CODE:			
PHONE: (404) 362-4912 FAX: (919	9) 541-0516	SITE CODE: GA EtO			

Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes
Air Toxics by EPA Compendiu	m Method TO-15 - C	Quality Control				
Batch B0A0903 - Summa Caniste	er Prep					
Blank (B0A0903-BLK1)			Prepared: 12/31/19 A	nalyzed: 01/09/20		
Ethylene oxide	ND	ppbv				U
Batch B0A1407 - Summa Caniste	er Prep					
Blank (B0A1407-BLK1)			Prepared: 12/31/19 A	nalyzed: 01/14/20		
Ethylene oxide	ND	ppbv				U
Batch B0A2105 - Summa Caniste	er Prep					
Blank (B0A2105-BLK1)			Prepared & Analyzed:	01/21/20		
Ethylene oxide	ND	ppbv				U
Batch B0A2707 - Summa Caniste	er Prep					
Blank (B0A2707-BLK1)			Prepared & Analyzed:	01/27/20		
Ethylene oxide	ND	ppbv				U

U.S. Environmental Protection Agency, Region 4	FILE #: 4022.00		
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Atlanta, GA 30354	SUBMITTED: 01/07/20 to 01/23/20		
ATTN: Ms. Jaime Gore	AQS SITE CODE:		
PHONE: (404) 362-4912 FAX: (919) 541-0516	SITE CODE: GA EtO		

Analyte	Result	Units	% Difference	Limit (%)	Notes
Air Toxics by EPA Compendiu	ım Method TO-15 - (Quality Contro	I		
Sequence 2001026					
Calibration Check (2001026-C	CV1)		Prepared & Analyzed	d: 01/09/20	
Ethylene oxide	2.40	ppbv	-4.1	30.00	
Sequence 2001043					
Calibration Check (2001043-C	CV1)		Prepared & Analyzed	d: 01/14/20	
Ethylene oxide	2.55	ppbv	2.1	30.00	
Sequence 2001057					
Calibration Check (2001057-C	CV1)		Prepared & Analyzed	d: 01/21/20	
Ethylene oxide	3.14	ppbv	25.7	30.00	
Sequence 2001070					
Calibration Check (2001070-C	CV1)		Prepared & Analyzed	d: 01/27/20	
Ethylene oxide	2.77	ppbv	10.7	30.00	

U.S. Environmental Protection Agency, Region 4

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Atlanta, GA 30354

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 FILE #: 4022.00

 REPORTED: 02/20/20 12:45

 SUBMITTED: 01/07/20 to 01/23/20

 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 trichlorotrufluoroethane.

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Page 10 of 10