

Richard E. Dunn, Director

EPD Director's Office

2 Martin Luther King, Jr. Drive Suite 1456, East Tower Atlanta, Georgia 30334 404-656-4713

May 12, 2020

MEMORANDUM

To: Karen Hays, Air Branch Chief

Through: Dika Kuoh, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: Cobb March 4, 2020- March 10, 2020 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected during the period of March 4, 2020- March 10, 2020 by the Ambient Monitoring Program in the Cobb area to characterize the EtO concentration. Sample collection was temporarily stopped in Cobb County on March 16, 2020 and resumed when we were notified that Sterigenics was resuming operations. 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. 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. Please note that ERG is now providing values for levels below the detection limit.

Location	Date	Qualifier	EtO Concentration (ug/m³)
S1	03/04/2020	LK, 2	0.18
S1	03/10/2020		0.33
S2	03/04/2020	LK	0.41
S2	03/10/2020		0.24
S3	03/04/2020	LK, 2	0.44
S3	03/10/2020		0.21
S4	03/04/2020		0.62
S4	03/10/2020		0.30

If you have any questions, please let me know.

DGO/do



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

April 15, 2020

Ms. Jaime Gore U.S. Environmental Protection Agency, Region 4 4244 International Pkwy, Suite 120 Atlanta, GA 30354 Project Name: Cobb

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 03/10/20 11:25 through 03/18/20 11:58.

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.



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 #: 4222.00

REPORTED: 04/15/20 15:40

SUBMITTED: 03/10/20 to 03/18/20

AQS SITE CODE:

SITE CODE: Cobb

ANALYTICAL REPORT FOR SAMPLES

<u>SampleName</u>	<u>LabNumber</u>	<u>Matrix</u>	Sampled	Received
S1	0031013-01	Air	03/04/20 23:59	03/10/20 11:25
S4	0031013-02	Air	03/04/20 23:59	03/10/20 11:25
S2	0031136-01	Air	03/04/20 23:59	03/11/20 11:55
S3	0031136-02	Air	03/04/20 23:59	03/11/20 11:55
S1	0031722-01	Air	03/10/20 23:59	03/17/20 10:59
S2	0031722-02	Air	03/10/20 23:59	03/17/20 10:59
S4	0031722-03	Air	03/10/20 23:59	03/17/20 10:59
S3	0031835-01	Air	03/10/20 23:59	03/18/20 11:58



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Atlanta, GA 30354

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ATTN: Ms. Jaime Gore AQS SITE CODE:

PHONE: (404) 362-4912 **FAX:** (919) 541-0516 **SITE CODE:** Cobb

 Description:
 S1
 Lab ID:
 0031013-01
 Sampled: 03/04/20 23:59

 Pressure @ Receipt:
 0.00" Hg
 Canister #:
 19650
 Received: 03/10/20 11:25

 Comments:
 Received at ambient
 Analyzed: 03/23/20 20:07

Air Toxics by EPA Compendium Method TO-15



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Cobb

ATTN: Ms. Jaime Gore

AQS SITE CODE:

SITE CODE:

PHONE: (404) 362-4912

Description: S4

Sampled: 03/04/20 23:59

Pressure @ Receipt: 4.00" Hg

Lab ID: 0031013-02

Received: 03/10/20 11:25

Comments:

Canister #: A21094

Analyzed: 03/23/20 21:12

Air Toxics by EPA Compendium Method TO-15

Results

0.341

FAX: (919) 541-0516

<u>MDL</u>

Analyte
Ethylene oxide

ppbv ug/m³

0.62

<u>Flag</u>

<u>ppbv</u> 0.0285



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REPORTED: 04/15/20 15:40

Atlanta, GA 30354

Description: S2

SUBMITTED: 03/10/20 to 03/18/20

Cobb

ATTN: Ms. Jaime Gore

AQS SITE CODE:

PHONE: (404) 362-4912

SITE CODE:

Sampled: 03/04/20 23:59

Pressure @ Receipt: 4.50" Hg

Lab ID: 0031136-01

Canister #: SAT179

Received: 03/11/20 11:55 **Analyzed:** 03/24/20 00:25

Air Toxics by EPA Compendium Method TO-15

Results

0.225

FAX: (919) 541-0516

MDL

Analyte Ethylene oxide

Comments:

ppbv ug/m³

0.41

<u>Flag</u> LK



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SUBMITTED: 03/10/20 to 03/18/20

Cobb

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FAX: (919) 541-0516

AQS SITE CODE: SITE CODE:

PHONE: (404) 362-4912

0031136-02

Sampled: 03/04/20 23:59

Description: S3 Pressure @ Receipt: 7.00" Hg Lab ID:

Received: 03/11/20 11:55

Comments:

Canister #: 5044

Analyzed: 03/24/20 01:29

Air Toxics by EPA Compendium Method TO-15

Results

0.44

MDL

Analyte Ethylene oxide ppbv ug/m³

0.241

<u>Flag</u> LK

ppbv 0.0285

Eastern Research Group

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.

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Atlanta, GA 30354

SUBMITTED: 03/10/20 to 03/18/20

Cobb

ATTN: Ms. Jaime Gore

FAX: (919) 541-0516

AQS SITE CODE:

PHONE: (404) 362-4912

Sampled: 03/10/20 23:59

Description: S1 Pressure @ Receipt: 5.50" Hg 0031722-01

Lab ID:

Received: 03/17/20 10:59

Comments:

Canister #: 2240

<u>Flag</u>

Analyzed: 04/02/20 18:35

Air Toxics by EPA Compendium Method TO-15

Results

MDL

Analyte Ethylene oxide ppbv ug/m³ 0.184

0.33



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Cobb

ATTN: Ms. Jaime Gore

AQS SITE CODE:

PHONE: (404) 362-4912

SITE CODE:

Sampled: 03/10/20 23:59

Description: S2

Lab ID: 0031722-02

Pressure @ Receipt: 5.00" Hg

Canister #: 18877

Received: 03/17/20 10:59 **Analyzed:** 04/02/20 19:30

Air Toxics by EPA Compendium Method TO-15

Results

0.131

FAX: (919) 541-0516

MDL

Analyte Ethylene oxide

Comments:

ppbv ug/m³

0.24

<u>Flag</u>



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SUBMITTED: 03/10/20 to 03/18/20

Cobb

ATTN: Ms. Jaime Gore **FAX:** (919) 541-0516

AQS SITE CODE:

PHONE: (404) 362-4912

SITE CODE:

Sampled: 03/10/20 23:59

Description: S4 Pressure @ Receipt: 5.00" Hg Lab ID: 0031722-03

Received: 03/17/20 10:59

Comments:

Canister #: A21040

Analyzed: 04/02/20 20:26

Air Toxics by EPA Compendium Method TO-15

Results

0.30

MDL

Analyte Ethylene oxide ppbv ug/m³

0.165

<u>Flag</u>



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Cobb

ATTN: Ms. Jaime Gore

AQS SITE CODE:

PHONE: (404) 362-4912

SITE CODE:

Sampled: 03/10/20 23:59

Description: S3 **Pressure @ Receipt:** 6.50" Hg

Lab ID: 0031835-01

Received: 03/18/20 11:58

Comments:

Canister #: SAT051

Analyzed: 04/02/20 23:12

Air Toxics by EPA Compendium Method TO-15

<u>Results</u>

0.21

<u>MDL</u>

Analyte
Ethylene oxide

ppbv ug/m³

0.118

FAX: (919) 541-0516

<u>Flag</u>

<u>ppbv</u> 0.0285



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Ethylene oxide

ATTN: Ms. Jaime Gore

PHONE: (404) 362-4912 **FAX:** (919) 541-0516

FILE #: 4222.00

REPORTED: 04/15/20 15:40

SUBMITTED: 03/10/20 to 03/18/20

AQS SITE CODE:

SITE CODE: Cobb

Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes
Air Toxics by EPA Compendiu Batch B0C2305 - Summa Canisto	-	uality Control				
Blank (B0C2305-BLK1)			Prepared: 03/09/20	Analyzed: 03/23/20		
Ethylene oxide	ND	ppbv				U
Batch B0D0204 - Summa Canist	er Prep					
Blank (B0D0204-BLK1)			Prepared & Analyzed	: 04/02/20		

ppbv

ND



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AQS SITE CODE:

SITE CODE: Cobb

Analyte	Result	Units	% Difference	Limit (%)	Notes
Air Toxics by EPA Compendiu Sequence 2003049	m Method TO-15 - Q	uality Control			

FAX: (919) 541-0516

Calibration Check (2003049-CCV1) Prepared & Analyzed: 03/23/20 Ethylene oxide 2.72 ppbv 10.0 Sequence 2004009 Calibration Check (2004009-CCV1) Prepared & Analyzed: 04/02/20

Ethylene oxide 3.4 2.56 ppbv

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Atlanta, GA 30354

ATTN: Ms. Jaime Gore AQS SITE CODE:

PHONE: (404) 362-4912 **FAX:** (919) 541-0516 **SITE CODE:** Cobb

Notes and Definitions

U Under Detection Limit

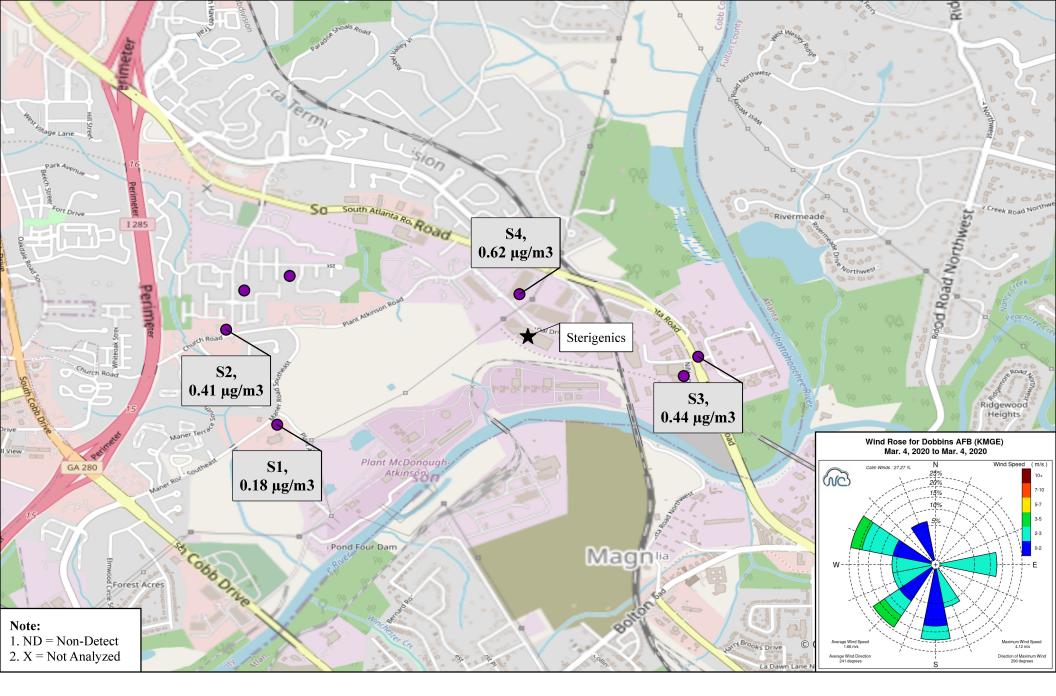
LK Analyte identified; Reported value may be biased high.

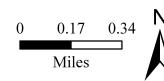
ND Analyte NOT DETECTED

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 tert butyl ether, ethylene oxide, hexachloro-1,3-butadiene, n-octane, propylene, tert amyl methyl ether, tetrachloroethylene, trans-1,2-dichloroethylene, trichlorofluoromethane, and trichlorotrufluoroethane.





Site ID, Concentration (µg/m3)

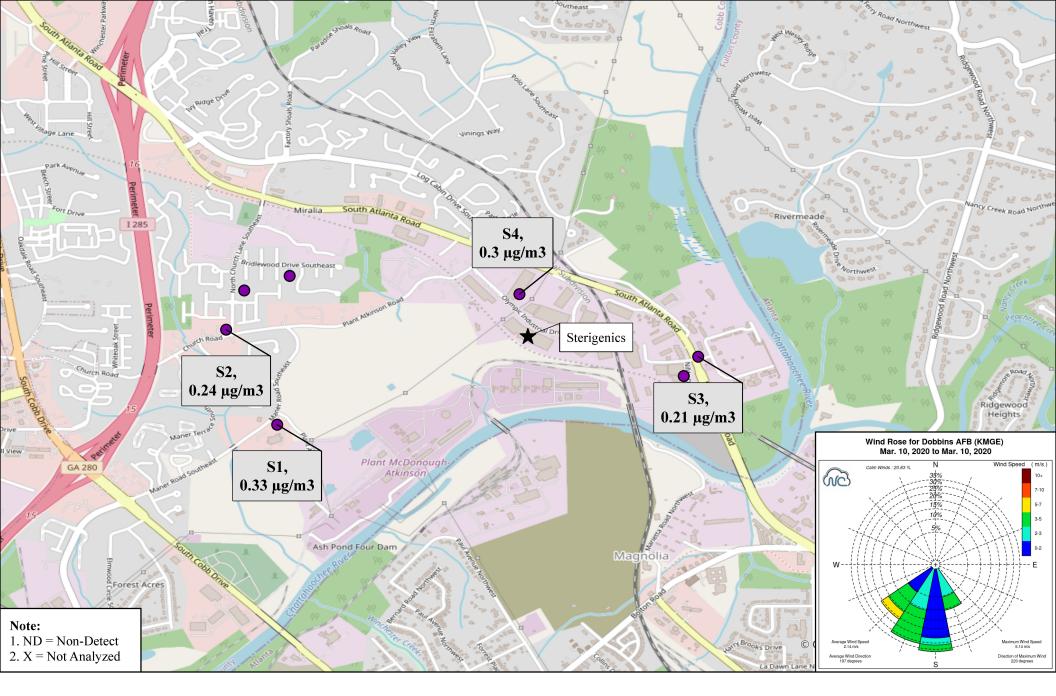
Ethylene Oxide Sampling Cobb County, GA

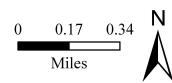
03/04/2020

Sampled By: Georgia Environmental Protection Division

Analyzed By: Eastern Research Group







Site ID, Concentration (µg/m3)

Ethylene Oxide Sampling Cobb County, GA

03/10/2020

Sampled By: Georgia Environmental Protection Division

Analyzed By: Eastern Research Group

