

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 26, 2019

MEMORANDUM

To: Karen Hays, Air Branch Chief

Through: Dika Kuoh, Assistant Branch Chief DM

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: Cobb November 20, 2019 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected November 20 by the Ambient Monitoring Program in the Cobb area to characterize the EtO concentration. The sampling was paused from October 24 through November 19 while additional sampling was conducted at another location.

Each of the samples were sent to Eastern Research Group (ERG) for analysis. The sample listed as QA is a sample taken side by side during the same time period to compare the precision of the measurement. 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 indicate that the collection deviated from established procedures, but the integrity of the sample was not compromised.

Location	Date	Qualifier	EtO Concentration (ug/m3)
S1	11/20/2019	LK	0.27
S2	11/20/2019	LK	0.19
S3	11/20/2019	LK	0.33
S4	11/20/2019	LK	0.15
S4	11/20/2019	QA, 2	0.26

If you have any questions, please let me know.

DGO/do



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

December 10, 2019

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 11/22/19 11:11.

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

FAX: (919) 541-0516

4244 International Pkwy, Suite 120

Atlanta, GA 30354

ATTN: Ms. Jaime Gore

PHONE: (404) 362-4912

FILE #: 4222.00

REPORTED: 12/10/19 08:49

SUBMITTED: 11/22/19

AQS SITE CODE:

SITE CODE:

Cobb

ANALYTICAL REPORT FOR SAMPLES

<u>SampleName</u>	<u>LabNumber</u>	<u>Matrix</u>	Sampled	Received
S1	9112204-01	Air	11/20/19 23:59	11/22/19 11:11
S2	9112204-02	Air	11/20/19 23:59	11/22/19 11:11
S3	9112204-03	Air	11/20/19 23:59	11/22/19 11:11
S4 Col 1	9112204-04	Air	11/20/19 23:59	11/22/19 11:11
S4 Col 2	9112204-05	Air	11/20/19 23:59	11/22/19 11:11



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ATTN: Ms. Jaime Gore

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PHONE: (404) 362-4912

FAX: (919) 541-0516

Cobb

Description: S1

Lab ID: 9112204-01

Sampled: 11/20/19 23:59

Pressure @ Receipt: 7.00" Hg

Received: 11/22/19 11:11

Comments:

Canister #: SAT003

Analyzed: 12/02/19 19:53

Air Toxics by EPA Compendium Method TO-15

Results

MDL

Analyte Ethylene oxide <u>ppbv</u>

0.151

ug/m³

0.27

<u>Flag</u>

К

<u>ppbv</u> 0.0250

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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4244 International Pkwy, Suite 120

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4244 International Lawy, Carte 12

SUBMITTED: 11/22/19

Atlanta, GA 30354

AQS SITE CODE:

ATTN: Ms. Jaime Gore

AGO OITE GOD

PHONE: (404) 362-4912

SITE CODE:

Sampled: 11/20/19 23:59

Description: S2

Lab ID: 9112204-02

Sampled: 11/20/13 23:33

Pressure @ Receipt: 4.00" Hg

Canister #: 5005

Received: 11/22/19 11:11

Comments:

Analyzed: 12/02/19 20:42

Cobb

Air Toxics by EPA Compendium Method TO-15

<u>Results</u>

FAX: (919) 541-0516

MDL

Analyte
Ethylene oxide

ppbv u

ug/m³ Flag

ppby

0.103 0.19

LK

0.0250



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Atlanta, GA 30354

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AQS SITE CODE:

ATTN: Ms. Jaime Gore

SITE CODE:

Cobb

PHONE: (404) 362-4912

FAX: (919) 541-0516

Lab ID:

Description: S3

9112204-03

Sampled: 11/20/19 23:59

Pressure @ Receipt: 7.00" Hg

Comments:

Canister #: SAT012

Received: 11/22/19 11:11

Analyzed: 12/02/19 21:30

Air Toxics by EPA Compendium Method TO-15

Results

MDL

Analyte

ppbv

ug/m³

<u>Flag</u>

ppbv

Ethylene oxide

0.33 0.180

ЦK

0.0250



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AQS SITE CODE:

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SITE CODE:

Cobb

Description: S4 Col 1

9112204-04

Sampled: 11/20/19 23:59

Pressure @ Receipt: 2.50" Hg

Lab ID:

Received: 11/22/19 11:11

Comments: Col 1 Canister #: A22329 Analyzed: 12/02/19 22:19

Air Toxics by EPA Compendium Method TO-15

Results

<u>MDL</u>

Analyte

<u>vdqq</u>

ug/m³

<u>Flag</u>

<u>ppbv</u>

Ethylene oxide

0.0813

0.15

LK

0,0250



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FILE #: 4222.00

REPORTED: 12/10/19 08:49

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AQS SITE CODE:

SITE CODE:

Cobb

Description: S4 Col 2

Pressure @ Receipt: 0 psig

Lab ID: 9112204-05

Canister #: 9570

Sampled: 11/20/19 23:59

Received: 11/22/19 11:11

Analyzed: 12/02/19 23:07

Col 2-received at ambient

Air Toxics by EPA Compendium Method TO-15

<u>Results</u>

ppbv ug/m³

<u>Flag</u>

<u>MDL</u> ppbv

Analyte Ethylene oxide

Comments:

0.142 0.26 0,0250



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Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes
Air Toxics by EPA Compendium Batch B9L0205 - Summa Canister		Quality Control				
Blank (B9L0205-BLK1)			Prepared: 11/18/19	Analyzed: 12/02/19		
Ethylene oxide	ND	ppbv				IJ
Duplicate (B9L0205-DUP1)	Source: 9112204-04		Prepared: 11/20/19	Analyzed: 12/02/19		
Ethylene oxide	0.0825	ppbv	0.08	1.47	25	
Duplicate (89L0205-DUP2)	Source:	9112204-05	Prepared: 11/20/19	Analyzed: 12/03/19		
Ethylene oxide	0.131	ppbv	0.14	7.84	25	



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Analyte Units % Difference Limit (%) Notes Result

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

Sequence 1912002

Ethylene oxide

Calibration Check (1912002-CCV1)

2.69

ppbv

7.7

Prepared & Analyzed: 12/02/19

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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.