

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

November 20, 2019

MEMORANDUM

To:

Karen Hays, Air Branch Chief

Through:

Dika Kuoh, Assistant Branch Chief

From:

DeAnna Oser, Ambient Monitoring Program Manager

RE:

Cobb October 12 – October 24 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected during the period of October 6 through October 24, 2019 by the Ambient Monitoring Program in the Cobb area to characterize the EtO concentration. Each of the samples were sent to Eastern Research Group (ERG) for analysis. Samples listed in the table below as ND were reported below the method detection limit of 0.0452 ug/m³.

Location	Date	EtO Concentration (ug/m3)
S1	10/12/2019	ND
S1	10/18/2019	ND
S1	10/24/2019	ND
S2	10/12/2019	ND
S2	10/18/2019	ND
S2	10/24/2019	ND
- S3	10/12/2019	ND
S3	10/18/2019	ND
S3	10/24/2019	ND
S4	10/12/2019	ND
S4	10/18/2019	ND
S4	10/24/2019	ND

If you have any questions, please let me know.

DGO/do



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

November 15, 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 10/18/19 10:18 through 10/30/19 11:25.

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

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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: 11/15/19 15:02

SUBMITTED: 10/18/19 to 10/30/19

AQS SITE CODE:

SITE CODE:

Cobb

ANALYTICAL REPORT FOR SAMPLES

<u>LabNumber</u>	<u>Matrix</u>	<u>Sampled</u>	Received
9101802-01	Air	10/12/19 23:59	10/18/19 10:18
9101802-02	Air	10/12/19 23:59	10/18/19 10:18
9101802-03	Air	10/12/19 23:59	10/18/19 10:18
9101802-04	Air	10/12/19 23:59	10/18/19 10:18
9102414-01	Air	10/18/19 23:59	10/24/19 11:02
9102414-02	Air	10/18/19 23:59	10/24/19 11:02
9102414-03	Air	10/18/19 23:59	10/24/19 11:02
9102414-04	Air	10/18/19 23:59	10/24/19 11:02
9103068-01	Air	10/24/19 23:59	10/30/19 11:25
9103068-02	Air	10/24/19 23:59	10/30/19 11:25
9103068-03	Air	10/24/19 23:59	10/30/19 11:25
9103068-04	Air	10/24/19 23:59	10/30/19 11:25
	9101802-01 9101802-02 9101802-03 9101802-04 9102414-01 9102414-02 9102414-03 9102414-04 9103068-01 9103068-02 9103068-03	9101802-01 Air 9101802-02 Air 9101802-03 Air 9101802-04 Air 9102414-01 Air 9102414-02 Air 9102414-03 Air 9102414-04 Air 9103068-01 Air 9103068-02 Air	9101802-01 Air 10/12/19 23:59 9101802-02 Air 10/12/19 23:59 9101802-03 Air 10/12/19 23:59 9101802-04 Air 10/12/19 23:59 9102414-01 Air 10/18/19 23:59 9102414-02 Air 10/18/19 23:59 9102414-03 Air 10/18/19 23:59 9102414-04 Air 10/18/19 23:59 9103068-01 Air 10/24/19 23:59 9103068-02 Air 10/24/19 23:59 9103068-03 Air 10/24/19 23:59



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FILE #: 4222.00

REPORTED: 11/15/19 15:02

SUBMITTED: 10/18/19 to 10/30/19

AQS SITE CODE:

SITE CODE:

Cobb

Description: S1

9101802-01 Lab ID:

Sampled: 10/12/19 23:59

Pressure @ Receipt: 6.50" Hg

Received: 10/18/19 10:18

Canister #: 5013

Analyzed: 10/22/19 01:33

Comments:

Air Toxics by EPA Compendium Method TO-15

Results

ppbv ug/m³

<u>Flag</u>

MDL ppbv

Analyte Ethylene oxide

ND ND U

0.0250

0.0250 ppbv = 0.0452 ng/m3
ventred
10/18/19



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: S2

ATTN: Ms. Jaime Gore

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

Lab ID: 9101802-02

Canister #: 5040

Pressure @ Receipt: 6.50" Hg **Comments:**

FILE #: 4222.00

REPORTED: 11/15/19 15:02

SUBMITTED: 10/18/19 to 10/30/19

AQS SITE CODE:

SITE CODE: Cobb

Sampled: 10/12/19 23:59

Received: 10/18/19 10:18

Analyzed: 10/22/19 02:41

Air Toxics by EPA Compendium Method TO-15

Results

ppbv ug/m³

<u>Flaq</u> U

MDL <u>ppbv</u>

Analyte Ethylene oxide

ND ND



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: S3

ATTN: Ms. Jaime Gore

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

Pressure @ Receipt: 9.00" Hg

9101802-03

Canister #: SAT058

Lab ID:

Cobb

FILE #: 4222.00

AQS SITE CODE:

SITE CODE:

REPORTED: 11/15/19 15:02

SUBMITTED: 10/18/19 to 10/30/19

Sampled: 10/12/19 23:59

Received: 10/18/19 10:18

Analyzed: 10/22/19 03:50

Air Toxics by EPA Compendium Method TO-15

ppbv ug/m3

<u>Flaq</u>

MDL <u>ppbv</u>

Analyte Ethylene oxide

Comments:

ND



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

Description: S4 Pressure @ Receipt: 3.50" Hg

Lab ID:

9101802-04

Canister #: 5012

FILE #: 4222.00

REPORTED: 11/15/19 15:02

SUBMITTED: 10/18/19 to 10/30/19

AQS SITE CODE:

SITE CODE:

Cobb

Sampled: 10/12/19 23:59

Received: 10/18/19 10:18

Analyzed: 10/22/19 05:00

Air Toxics by EPA Compendium Method TO-15

MDL

<u>Analyte</u> Ethylene oxide

Comments:

ppbv ug/m³ ND

ND

<u>Flag</u>

ppbv 0,0250



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: S1

ATTN; Ms. Jaime Gore

PHONE: (404) 362-4912

FAX: (919) 541-0516

9102414-01

Canister #: 5017

Lab ID:

Pressure @ Receipt: 5.00" Hg Comments:

Cobb

FILE #: 4222.00

AQS SITE CODE:

SITE CODE:

REPORTED: 11/15/19 15:02

SUBMITTED: 10/18/19 to 10/30/19

Sampled: 10/18/19 23:59

Received: 10/24/19 11:02

Analyzed: 10/25/19 17:21

Air Toxics by EPA Compendium Method TO-15

Results

ppbv uq/m3

<u>Flag</u> U

MDL ppby

Analyte Ethylene oxide

ND



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ATTN: Ms. Jaime Gore

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

FILE #: 4222.00

REPORTED: 11/15/19 15:02

SUBMITTED: 10/18/19 to 10/30/19

AQS SITE CODE:

SITE CODE:

Cobb

Description: S2 Pressure @ Receipt: 4.50" Hg

9102414-02 Lab ID:

Sampled: 10/18/19 23:59

Received: 10/24/19 11:02

Comments:

Canister #: 18882

Analyzed: 10/25/19 18:58

Air Toxics by EPA Compendium Method TO-15

Results

MDL

Analyte Ethylene oxide

ppbv ug/m³ ND ND

<u>Flaq</u>

ppby 0.0250



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

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Description: S3

ATTN: Ms. Jaime Gore

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

Pressure @ Receipt: 8.00" Hg

9102414-03

Lab ID:

Canister #: SAT110

SITE CODE: Cobb

REPORTED: 11/15/19 15:02

SUBMITTED: 10/18/19 to 10/30/19

FILE #: 4222.00

AQS SITE CODE:

Sampled: 10/18/19 23:59 Received: 10/24/19 11:02

Analyzed: 10/25/19 18:09

Air Toxics by EPA Compendium Method TO-15

ppbv uq/m3

<u>Flaq</u>

MDL ppbv

Analyte Ethylene oxide

Comments:

ND

ND

U



U.S. Environmental Protection Agency, Region 4

FILE #: 4222.00

4244 International Pkwy, Suite 120

REPORTED: 11/15/19 15:02

Atlanta, GA 30354

SUBMITTED: 10/18/19 to 10/30/19

ATTN: Ms. Jaime Gore

AQS SITE CODE:

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

SITE CODE:

Cobb

Description: S4

9102414-04 Lab ID:

Sampled: 10/18/19 23:59

Pressure @ Receipt: 4.00" Hg

Received: 10/24/19 11:02

Canister #: 5138

Comments:

Analyzed: 10/25/19 19:46

Air Toxics by EPA Compendium Method TO-15

ND

MDL

Analyte Ethylene oxide ppbv ug/m3

ND

<u>Flag</u>

ppbv 0,0250



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

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ATTN: Ms. Jaime Gore

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

Pressure @ Receipt: 4.50" Hg

FILE #: 4222.00

REPORTED: 11/15/19 15:02

SUBMITTED: 10/18/19 to 10/30/19

AQS SITE CODE:

SITE CODE:

Cobb

9103068-01 Lab ID: **Description:** S1

Canister #: A21069

Sampled: 10/24/19 23:59

Received: 10/30/19 11:25 Analyzed: 11/01/19 16:40

Air Toxics by EPA Compendium Method TO-15

Results

ppbv ug/m³

Flag

<u>MDL</u> ppby

Analyte Ethylene oxide

Comments:

U



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

Pressure @ Receipt: 4.50" Hg

FILE #: 4222.00

REPORTED: 11/15/19 15:02

SUBMITTED: 10/18/19 to 10/30/19

AQS SITE CODE:

SITE CODE:

Cobb

Description: S2

Lab ID:

9103068-02

Canister #: 19300

Sampled: 10/24/19 23:59

Received: 10/30/19 11:25

Analyzed: 11/01/19 17:28

Air Toxics by EPA Compendium Method TO-15

Results

ppbv uq/m3

<u>Flaq</u> U

<u>MDL</u> ppbv

Analyte Ethylene oxide

Comments:

ND ND



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

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ATTN: Ms. Jaime Gore

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

Pressure @ Receipt: 7.50" Hg

FILE #: 4222.00

REPORTED: 11/15/19 15:02

SUBMITTED: 10/18/19 to 10/30/19

AQS SITE CODE:

SITE CODE:

Cobb

Description: S3

9103068-03 Lab ID: Canister #: A21104

Sampled: 10/24/19 23:59 Received: 10/30/19 11:25

Analyzed: 11/01/19 18:16

Air Toxics by EPA Compendium Method TO-15

MDL

Analyte

ppbv uq/m3

<u>Flag</u>

ppby

Ethylene oxide

Comments:

ND



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ATTN: Ms. Jaime Gore

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

Pressure @ Receipt: 3.00" Hg

FILE #: 4222.00

REPORTED: 11/15/19 15:02

SUBMITTED: 10/18/19 to 10/30/19

AQS SITE CODE:

SITE CODE:

Cobb

Description: S4

Lab ID:

9103068-04

Sampled: 10/24/19 23:59

Received: 10/30/19 11:25

Comments:

Canister #: 19646

Analyzed: 11/01/19 19:05

Air Toxics by EPA Compendium Method TO-15

Results

ppbv ug/m3

ND

<u>Flaq</u>

MDL ppbv

Analyte Ethylene oxide



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FILE #: 4222.00

REPORTED: 11/15/19 15:02

SUBMITTED: 10/18/19 to 10/30/19

AQS SITE CODE:

SITE CODE:

Cobb

Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes
Air Toxics by EPA Compendion Batch B9J2105 - Summa Canist		- Quality Con	trol			
Blank (B9J2105-BLK1)			Prepared & Analyzed: :	10/21/19		
Ethylene oxide	ND	ppbv				U
Batch B9J2503 - Summa Canist	er Prep					
Blank (B9J2503-BLK1)			Prepared: 10/21/19 A	nalyzed: 10/25/19		
Ethylene oxide	ND	ppbv				U
Batch B9K0105 - Summa Canise	ter Prep					
Blank (B9K0105-BLK1)			Prepared: 10/21/19 A	nalyzed: 11/01/19		
Ethylene oxide	ND	ppbv				U



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FILE #: 4222.00

REPORTED: 11/15/19 15:02

SUBMITTED: 10/18/19 to 10/30/19

AQS SITE CODE:

SITE CODE:

Cobb

Analyte	Result	Units	% Difference	Limit (%)	Notes
Air Toxics by EPA Compend Sequence 1910046	dium Method TO-15	- Quality Con	trol		
Calibration Check (1910046-CCV1)		F	Prepared & Analyzed: 10/21/19		
Ethylene oxide	2,24	ppbv	-9.0	30.00	
Sequence 1910064					
Calibration Check (1910064	-CCV1)	Prepared & Analyzed: 10/25/19		ed: 10/25/19	
Ethylene oxide	2.49	ppbv	-0.4	30.00	
Sequence 1911003					
Calibration Check (1911003	3-CCV1)	F	Prepared & Analyzed: 11/01/19		
Ethylene oxide	2.44	ppbv	-2.6	30.00	



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REPORTED: 11/15/19 15:02

SUBMITTED: 10/18/19 to 10/30/19

AQS SITE CODE:

SITE CODE:

Cobb

Notes and Definitions

U

Under Detection Limit

ND

Analyte NOT DETECTED

NR MDL Not Reported

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, bromodichloromethane, 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.