



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

November 20, 2019

MEMORANDUM

To: Karen Hays, Air Branch Chief *KH*

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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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 #: 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>SampleName</u>	<u>LabNumber</u>	<u>Matrix</u>	<u>Sampled</u>	<u>Received</u>
S1	9101802-01	Air	10/12/19 23:59	10/18/19 10:18
S2	9101802-02	Air	10/12/19 23:59	10/18/19 10:18
S3	9101802-03	Air	10/12/19 23:59	10/18/19 10:18
S4	9101802-04	Air	10/12/19 23:59	10/18/19 10:18
S1	9102414-01	Air	10/18/19 23:59	10/24/19 11:02
S2	9102414-02	Air	10/18/19 23:59	10/24/19 11:02
S3	9102414-03	Air	10/18/19 23:59	10/24/19 11:02
S4	9102414-04	Air	10/18/19 23:59	10/24/19 11:02
S1	9103068-01	Air	10/24/19 23:59	10/30/19 11:25
S2	9103068-02	Air	10/24/19 23:59	10/30/19 11:25
S3	9103068-03	Air	10/24/19 23:59	10/30/19 11:25
S4	9103068-04	Air	10/24/19 23:59	10/30/19 11:25



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 SITE CODE: Cobb

Description: S3	Lab ID: 9101802-03	Sampled: 10/12/19 23:59
Pressure @ Receipt: 9.00" Hg	Canister #: SAT058	Received: 10/18/19 10:18
Comments:		Analyzed: 10/22/19 03:50

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	ND	ND	U	0.0250



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 AQS SITE CODE:
 SITE CODE: Cobb

Description: S4	Lab ID: 9101802-04	Sampled: 10/12/19 23:59
Pressure @ Receipt: 3.50" Hg	Canister #: 5012	Received: 10/18/19 10:18
Comments:		Analyzed: 10/22/19 05:00

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	ND	ND	U	0.0250



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 AQS SITE CODE:
 SITE CODE: Cobb

Description: S4	Lab ID: 9102414-04	Sampled: 10/18/19 23:59
Pressure @ Receipt: 4.00" Hg	Canister #: 5138	Received: 10/24/19 11:02
Comments:		Analyzed: 10/25/19 19:46

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	ND	ND	U	0.0250



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 AQS SITE CODE:
 SITE CODE: Cobb

Description: S2	Lab ID: 9103068-02	Sampled: 10/24/19 23:59
Pressure @ Receipt: 4.50" Hg	Canister #: 19300	Received: 10/30/19 11:25
Comments:		Analyzed: 11/01/19 17:28

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	ND	ND	U	0.0250



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

AQS SITE CODE:

SITE CODE: Cobb

Description: S3

Lab ID: 9103068-03

Sampled: 10/24/19 23:59

Pressure @ Receipt: 7.50" Hg

Canister #: A21104

Received: 10/30/19 11:25

Comments:

Analyzed: 11/01/19 18:16

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	ND	ND	U	0.0250



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 SITE CODE: Cobb

Description: S4	Lab ID: 9103068-04	Sampled: 10/24/19 23:59
Pressure @ Receipt: 3.00" Hg	Canister #: 19646	Received: 10/30/19 11:25
Comments:		Analyzed: 11/01/19 19:05

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	ND	ND	U	0.0250



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Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes
Air Toxics by EPA Compendium Method TO-15 - Quality Control						
<i>Batch B9J2105 - Summa Canister Prep</i>						
Blank (B9J2105-BLK1)			Prepared & Analyzed: 10/21/19			
Ethylene oxide	ND	ppbv				U
<i>Batch B9J2503 - Summa Canister Prep</i>						
Blank (B9J2503-BLK1)			Prepared: 10/21/19 Analyzed: 10/25/19			
Ethylene oxide	ND	ppbv				U
<i>Batch B9K0105 - Summa Canister Prep</i>						
Blank (B9K0105-BLK1)			Prepared: 10/21/19 Analyzed: 11/01/19			
Ethylene oxide	ND	ppbv				U



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 AQS SITE CODE:
 SITE CODE: Cobb

Analyte	Result	Units	% Difference	Limit (%)	Notes
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Air Toxics by EPA Compendium Method TO-15 - Quality Control

Sequence 1910046

Calibration Check (1910046-CCV1)

Prepared & Analyzed: 10/21/19

Ethylene oxide	2.24	ppbv	-9.0	30.00	
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Sequence 1910064

Calibration Check (1910064-CCV1)

Prepared & Analyzed: 10/25/19

Ethylene oxide	2.49	ppbv	-0.4	30.00	
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Sequence 1911003

Calibration Check (1911003-CCV1)

Prepared & Analyzed: 11/01/19

Ethylene oxide	2.44	ppbv	-2.6	30.00	
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Notes and Definitions

U	Under Detection Limit
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.