

#### Richard E. Dunn, Director

#### **EPD Director's Office**

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

June 1, 2020

#### **MEMORANDUM**

To: Karen Hays, Air Branch Chief

Through: Dika Kuoh, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: Covington April 9, 2020 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected during the period of April 9, 2020 by the Ambient Monitoring Program in the Covington area to characterize the EtO concentration. Each of the samples were sent to Eastern Research Group (ERG) for analysis.

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. No samples were taken at location C1, C6, C7, C8, or C9 during this period.

Location	Date	Qualifier	EtO Concentration (ug/m³)
C2	04/09/20		0.63
C3	04/09/20		0.16
C4	04/09/20	2	0.56
C4 QA	04/09/20		0.33
C5	04/09/20	2	0.57

If you have any questions, please let me know.



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

May 19, 2020

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

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 04/17/20 15:59.

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 <a href="mailto:julie.swift@erg.com">julie.swift@erg.com</a> 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:** 05/19/20 11:07

**SUBMITTED:** 04/17/20

**AQS SITE CODE:** 

SITE CODE: Covington

#### **ANALYTICAL REPORT FOR SAMPLES**

<u>SampleName</u>	<u>LabNumber</u>	<u>Matrix</u>	Sampled	Received
C2	0041707-01	Air	04/09/20 23:59	04/17/20 15:59
C3	0041707-02	Air	04/09/20 23:59	04/17/20 15:59
C4	0041707-03	Air	04/09/20 23:59	04/17/20 15:59
C4 QA	0041707-04	Air	04/09/20 23:59	04/17/20 15:59
C5	0041707-05	Air	04/09/20 23:59	04/17/20 15:59



U.S. Environmental Protection Agency, Region 4

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ATTN: Ms. Jaime Gore **AQS SITE CODE:** 

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

0041707-01 Sampled: 04/09/20 23:59 **Description:** C2 Lab ID: Pressure @ Receipt: 4.50" Hg **Canister #:** 5046 Received: 04/17/20 15:59 **Comments: Analyzed:** 04/27/20 19:32

Air Toxics by EPA Compendium Method TO-15

**MDL Results Analyte** ppbv ug/m³ ppbv <u>Flag</u> Ethylene oxide 0.350 0.63 0.0285



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

**Description:** C3

ATTN: Ms. Jaime Gore

**PHONE:** (404) 362-4912

Pressure @ Receipt: 7.00" Hg

**FAX:** (919) 541-0516

0041707-02 Lab ID:

Canister #: 18824

FILE #: 4222.00

**AQS SITE CODE:** 

SITE CODE:

**REPORTED:** 05/19/20 11:07

**SUBMITTED:** 04/17/20

Covington Sampled: 04/09/20 23:59

Received: 04/17/20 15:59

Analyzed: 04/27/20 20:27

Air Toxics by EPA Compendium Method TO-15

0.0285

**Results** 

**MDL** ppbv

Ethylene oxide

**Analyte** 

**Comments:** 

ppbv ug/m³ 0.0858

0.16

<u>Flag</u>

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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SITE CODE:

**REPORTED:** 05/19/20 11:07

Covington

**SUBMITTED:** 04/17/20

U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Pressure @ Receipt: 10.50" Hg

Atlanta, GA 30354

**Description:** C4

ATTN: Ms. Jaime Gore

**PHONE:** (404) 362-4912

**FAX:** (919) 541-0516

Lab ID:

0041707-03

Canister #: SAT114

Received: 04/17/20 15:59 **Analyzed:** 04/27/20 21:23

Sampled: 04/09/20 23:59

Air Toxics by EPA Compendium Method TO-15

**Results** ppbv ug/m³

0.310

**MDL** <u>Flag</u>

Ethylene oxide

**Analyte** 

**Comments:** 

0.56

ppbv 0.0285

Eastern Research Group

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U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

ATTN: Ms. Jaime Gore

Description: C4 QA

**Comments:** 

**Analyte** 

Ethylene oxide

**PHONE:** (404) 362-4912

**FAX:** (919) 541-0516

Pressure @ Receipt: 3.50" Hg

Lab ID:

0041707-04 Canister #: SAT144

Received: 04/17/20 15:59

Covington

Analyzed: 04/27/20 23:14

Sampled: 04/09/20 23:59

Air Toxics by EPA Compendium Method TO-15

**Results** ppbv ug/m³

0.184

0.33

<u>Flag</u>

**MDL** ppbv 0.0285

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U.S. Environmental Protection Agency, Region 4

FILE #: 4222.00

4244 International Pkwy, Suite 120 **REPORTED:** 05/19/20 11:07 Atlanta, GA 30354 **SUBMITTED:** 04/17/20

ATTN: Ms. Jaime Gore **AQS SITE CODE:** 

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

0041707-05 Sampled: 04/09/20 23:59 **Description:** C5 Lab ID: Pressure @ Receipt: 6.00" Hg Canister #: SAT061 Received: 04/17/20 15:59 **Comments: Analyzed:** 04/28/20 01:05

Air Toxics by EPA Compendium Method TO-15

**MDL Results Analyte** ppbv ug/m³ ppbv <u>Flag</u> Ethylene oxide 0.314 0.57 0.0285



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

ATTN: Ms. Jaime Gore

Duplicate (B0D2706-DUP4)

Ethylene oxide

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

FILE #: 4222.00

**REPORTED:** 05/19/20 11:07

**SUBMITTED:** 04/17/20

**AQS SITE CODE:** 

0.18

SITE CODE: Covington

Prepared: 04/09/20 Analyzed: 04/28/20

0.109

25

Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes				
Air Toxics by EPA Compendium Method TO-15 - Quality Control  Batch B0D2706 - Summa Canister Prep										
Blank (B0D2706-BLK1)			Prepared: 04/09/20	Analyzed: 04/27/20						
Ethylene oxide	ND	ppbv				U				
Duplicate (B0D2706-DUP3)	Source:	0041707-03	Prepared: 04/09/20	Analyzed: 04/27/20						
Ethylene oxide	0.315	ppbv	0.31	1.53	25					

Source: 0041707-04

0.183



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**AQS SITE CODE:** 

SITE CODE: Covington

Analyte Result Units % Difference Limit (%) Notes

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

Sequence 2004060

Calibration Check (2004060-CCV1) Prepared & Analyzed: 04/27/20

Ethylene oxide 2.90 ppbv 15.8 30.00

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**Notes and Definitions** 

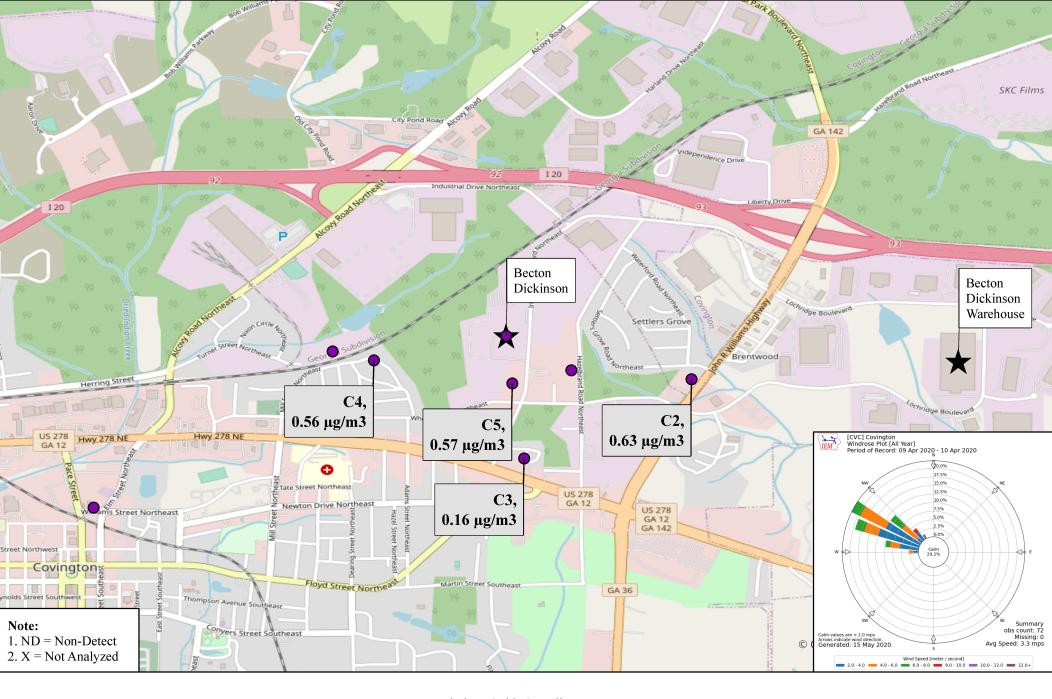
U Under Detection Limit
ND Analyte NOT DETECTED

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, 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.





Ethylene Oxide Sampling Covington, GA

04/09/2020

Sampled By: Georgia Environmental Protection Division Analyzed By: Eastern Research Group

