

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

August 17, 2020

MEMORANDUM

	Karen Hays, Air Branch Chief	
To:	Karen Hays, Air Branch Chief	

Through: Dika Kuoh, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: Covington June 26- July 2, 2020 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected during the period of June 26- July 2, 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/m ³)
C2	06/26/2020		1.14
C2	07/02/2020		0.27
C3	06/26/2020		1.03
C3	07/02/2020	2	0.27
C4	06/26/2020	2	0.35
C4	07/02/2020	2	0.24
C5	06/26/2020		1.23
C5	07/02/2020		0.65

If you have any questions, please let me know.

DGO/do



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

August 06, 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 07/08/20 11:57 through 07/09/20 10:48.

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

NERG

 FILE #: 4222.00

 REPORTED: 08/06/20 14:38

 SUBMITTED: 07/08/20 to 07/09/20

 AQS SITE CODE:

 SITE CODE:

 Covington

ANALYTICAL REPORT FOR SAMPLES

SampleName	LabNumber	<u>Matrix</u>	Sampled	<u>Received</u>
C2	0070840-01	Air	06/26/20 23:59	07/08/20 11:57
C3	0070840-02	Air	06/26/20 23:59	07/08/20 11:57
C4	0070840-03	Air	06/26/20 23:59	07/08/20 11:57
C5	0070840-04	Air	06/26/20 23:59	07/08/20 11:57
C2	0070928-01	Air	07/02/20 23:59	07/09/20 10:48
C3	0070928-02	Air	07/02/20 23:59	07/09/20 10:48
C4	0070928-03	Air	07/02/20 23:59	07/09/20 10:48
C5	0070928-04	Air	07/02/20 23:59	07/09/20 10:48

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3. 3, 3.		FILE #: 4222.00	FILE #: 4222.00	
		REPORTED: 08/	06/20 14:38	
Atlanta, GA 30354		SUBMITTED: 0	7/08/20 to 07/09/20	
ATTN: Ms. Jaime Gore		AQS SITE CODE	:	
PHONE: (404) 362-4912 FAX	(: (919) 541-0516	SITE CODE:	Covington	
Description: C2	Lab ID: 00708	40-01	Sampled: 06/26/20 23:59	
Pressure @ Receipt: 4.00" He	Canister #: 503	3	Received: 07/08/20 11:57	
Comments:			Analyzed: 07/13/20 19:48	
	Air Toxics by EPA Com	pendium Method TC)-15	
	<u>Results</u>	MDL		
<u>Analyte</u>	<u>ppbv_ug/m³Flag</u>	<u>opbv</u>		
Ethylene oxide	0.632 1.14 0	.0285		

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4244 International Pkwy, Suite 120 Atlanta, GA 30354		FILE #: 4222.00 REPORTED: 08/06/20 14:38 SUBMITTED: 07/08/20 to 07/09/20 AQS SITE CODE:					
				PHONE: (404) 362-4912 FAX: (919) 541-051	3	SITE CODE:	Covington
				Description: C3	Lab ID: 0070840-02		Sampled: 06/26/20 23:59
				Pressure @ Receipt: 6.50" Hg	Canister #: 5013		Received: 07/08/20 11:57
Comments:			Analyzed: 07/13/20 20:44				
	cics by EPA Compend	ium Method	TO-15				
Analyte <u>ppbv</u> ug/m	<u>MDL</u> <u>Flag ppbv</u>						
Ethylene oxide 0.573 1.03	<u>0.0285</u>						

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3. 3, 3.		FILE #: 4	FILE #: 4222.00 REPORTED: 08/06/20 14:38	
		REPORTE		
Atlanta, GA 30354		SUBMITTE	ED: 07/08/20 to 07/09/20	
ATTN: Ms. Jaime Gore		AQS SITE	CODE:	
PHONE: (404) 362-4912 F	AX: (919) 541-0516	SITE COD	E: Covington	
Description: C4	Lab ID:	0070840-03	Sampled: 06/26/20 23:59	
Pressure @ Receipt: 10.00	" Hg Canister a	#: 5094	Received: 07/08/20 11:57	
Comments:			Analyzed: 07/13/20 21:39	
	Air Toxics by EP	A Compendium Meth	od TO-15	
	<u>Results</u>	<u>MDL</u>		
<u>Analyte</u>	<u>ppbv_ug/m³Flag</u>	ppbv		
Ethylene oxide	0.196 0.35	0.0285		

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		FILE #: 422	FILE #: 4222.00	
		REPORTED:	08/06/20 14:38	
Atlanta, GA 30354		SUBMITTED	: 07/08/20 to 07/09/20	
ATTN: Ms. Jaime Gore		AQS SITE C	ODE:	
PHONE: (404) 362-4912 F	AX: (919) 541-0516	SITE CODE:	Covington	
Description: C5	Lab ID:	0070840-04	Sampled: 06/26/20 23:59	
Pressure @ Receipt: 5.00"	Hg Canister #	5048	Received: 07/08/20 11:57	
Comments:			Analyzed: 07/13/20 22:34	
	Air Toxics by EPA	Compendium Metho	d TO-15	
	<u>Results</u>	<u>MDL</u>		
<u>Analyte</u>	<u>ppbv_ug/m³Flag</u>	<u>ppbv</u>		
Ethylene oxide	0.681 1.23	0.0285		

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		FILE #: 4222.00	
		REPORTED: 08/06/20 14:38	
Atlanta, GA 30354		SUBMITTED: 07/08/20 to 07/09/20	
ATTN: Ms. Jaime Gore		AQS SITE CODE:	
PHONE: (404) 362-4912 FA	AX: (919) 541-0516	SITE CODE: Covington	
Description: C2	Lab ID: 0070	928-01 Sampled: 07/02/20 23:	:59
Pressure @ Receipt: 3.00"	Hg Canister #: 19	280 Received: 07/09/20 10:	:48
Comments:		Analyzed: 07/14/20 00:	:24
	Air Toxics by EPA Cor	npendium Method TO-15	
	Results	MDL	
<u>Analyte</u>	<u>ppbv_ug/m³Flag</u>	ppbv	
Ethylene oxide	0.152 0.27	0.0285	

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4244 International Pkwy, Suite 120		FILE #: 4222.00	FILE #: 4222.00	
		REPORTED: 08/06	/20 14:38	
		SUBMITTED: 07/	08/20 to 07/09/20	
ATTN: Ms. Jaime Gore		AQS SITE CODE:		
PHONE: (404) 362-4912 FA	X: (919) 541-0516	SITE CODE:	Covington	
Description: C3	Lab ID: 0070	928-02	Sampled: 07/02/20 23:59	
Pressure @ Receipt: 7.00" H	lg Canister #: 514	41	Received: 07/09/20 10:48	
Comments:			Analyzed: 07/14/20 01:19	
	Air Toxics by EPA Com	pendium Method TO-	15	
	<u>Results</u>	MDL		
<u>Analyte</u>	<u>ppbv_ug/m³Flag</u>	<u>ppbv</u>		
Ethylene oxide	0.148 0.27	0.0285		

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3. 3, 3.		FILE #: 4222.00	FILE #: 4222.00	
		REPORTED: 08/	06/20 14:38	
Atlanta, GA 30354		SUBMITTED: 0	7/08/20 to 07/09/20	
ATTN: Ms. Jaime Gore		AQS SITE CODE	:	
PHONE: (404) 362-4912 FAX	X: (919) 541-0516	SITE CODE:	Covington	
Description: C4	Lab ID: 0070	928-03	Sampled: 07/02/20 23:59	
Pressure @ Receipt: 9.50" H	g Canister #: 18	833	Received: 07/09/20 10:48	
Comments:			Analyzed: 07/14/20 02:14	
	Air Toxics by EPA Con	npendium Method TC)-15	
	<u>Results</u>	<u>MDL</u>		
<u>Analyte</u>	<u>ppbv_ug/m³Flag</u>	<u>ppbv</u>		
Ethylene oxide	0.133 0.24	0.0285		

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		REPORTED: 08/06/20 14:38		
		SUBMITTED: 07/08/20 to 07	/09/20	
		AQS SITE CODE:		
PHONE: (404) 362-4912 FA	X: (919) 541-0516	SITE CODE: Covington		
Description: C5	Lab ID: 00709	28-04 Sa	mpled: 07/02/20 23:59	
Pressure @ Receipt: 5.50" H	lg Canister #: SAT(33 Re	ceived: 07/09/20 10:48	
Comments:		Ana	alyzed: 07/14/20 03:10	
	Air Toxics by EPA Comp Results	endium Method TO-15 IDL		
Analyte		pbv		
Ethylene oxide		0285		

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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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U.S. Environmental Protection Agency, Region 4	FILE #: 4222.00
4244 International Pkwy, Suite 120	REPORTED: 08/06/20 14:38
Atlanta, GA 30354	SUBMITTED: 07/08/20 to 07/09/20
ATTN: Ms. Jaime Gore	AQS SITE CODE:
PHONE: (404) 362-4912 FAX: (919) 541-0516	SITE CODE: Covington

Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes				
Air Toxics by EPA Compendium Method TO-15 - Quality Control Batch B0G1308 - Summa Canister Prep										
Blank (B0G1308-BLK1)		Prepared & Analyzed: 07/13/20								
Ethylene oxide	ND	ppbv				U				

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NERG	CERTIFICATE OF ANALYSIS					
U.S. Environmental Protection Agency, Region 4		FILE #: 4222.00				
4244 International Pkwy, Suite 120		REPORTED: 08/06/20 14:38				
Atlanta, GA 30354		SUBMITTED: 07/08/20 to 07/09/20				
ATTN: Ms. Jaime Gore		AQS SITE CODE:				
PHONE: (404) 362-4912 FAX: (919	9) 541-0516	SITE CODE: Covington				

Analyte	Result	Units	% Difference	Limit (%)	Notes				
Air Toxics by EPA Compendium Method TO-15 - Quality Control Sequence 2007022									
Calibration Check (200702		Prepared & Analyzed: 07/13/20							
Ethylene oxide	2.90	ppbv	16.1	30.00					

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

 FILE #: 4222.00

 REPORTED: 08/06/20 14:38

 SUBMITTED: 07/08/20 to 07/09/20

 AQS SITE CODE:

 SITE CODE:

 Covington

Notes and Definitions

U Under Detection Limit

ND Analyte NOT DETECTED

NR Not Reported

MDL Method Detection Limit

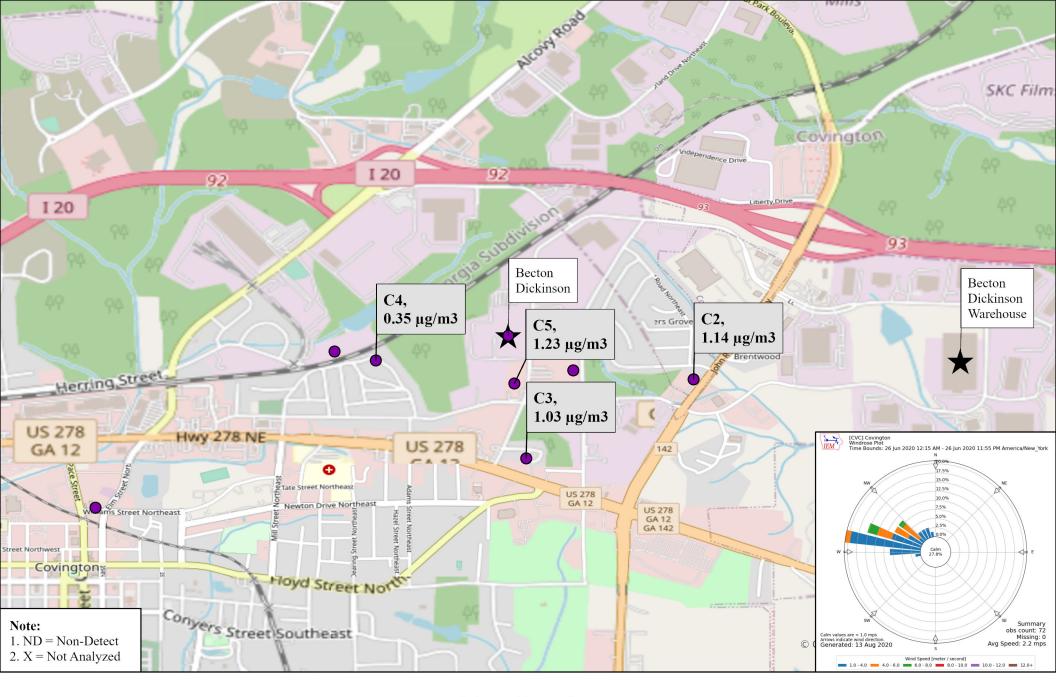
RPD Relative Percent Difference

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, 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, trichloroffluoromethane, and trichlorotrufluoroethane.

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Ethylene Oxide Sampling Covington, GA

06/26/2020

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



ENVIRONMENTAL PROTECTION DIVISION

Site ID, Concentration (µg/m3)

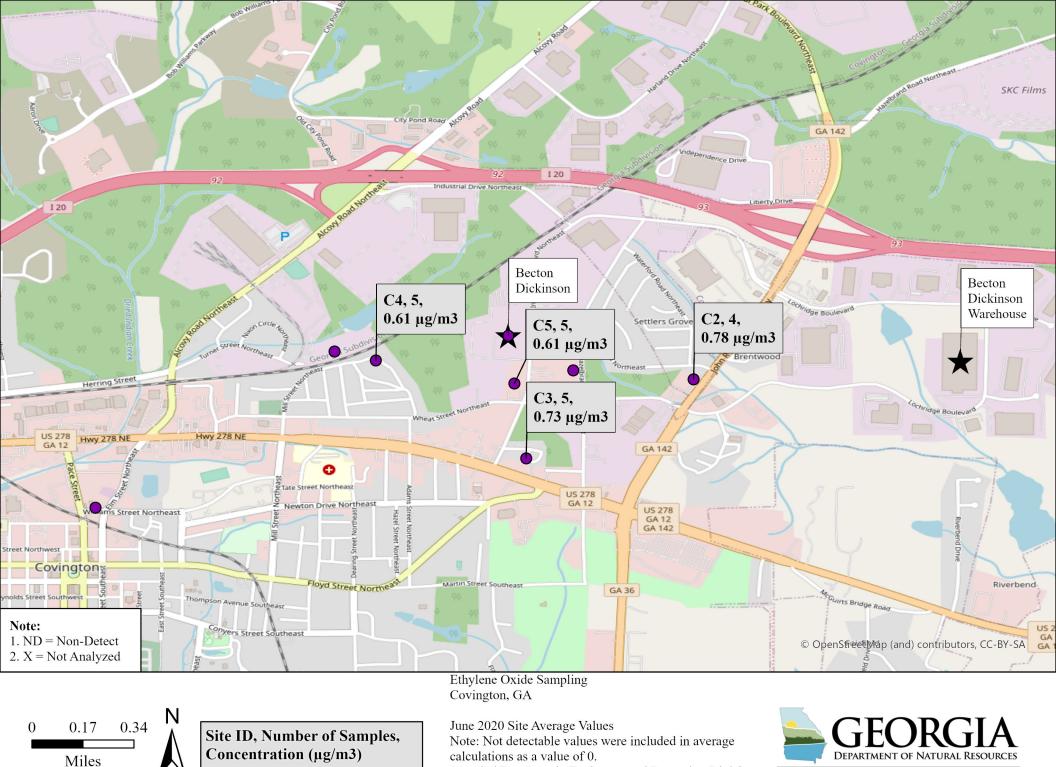
Ν

0.34

0.17

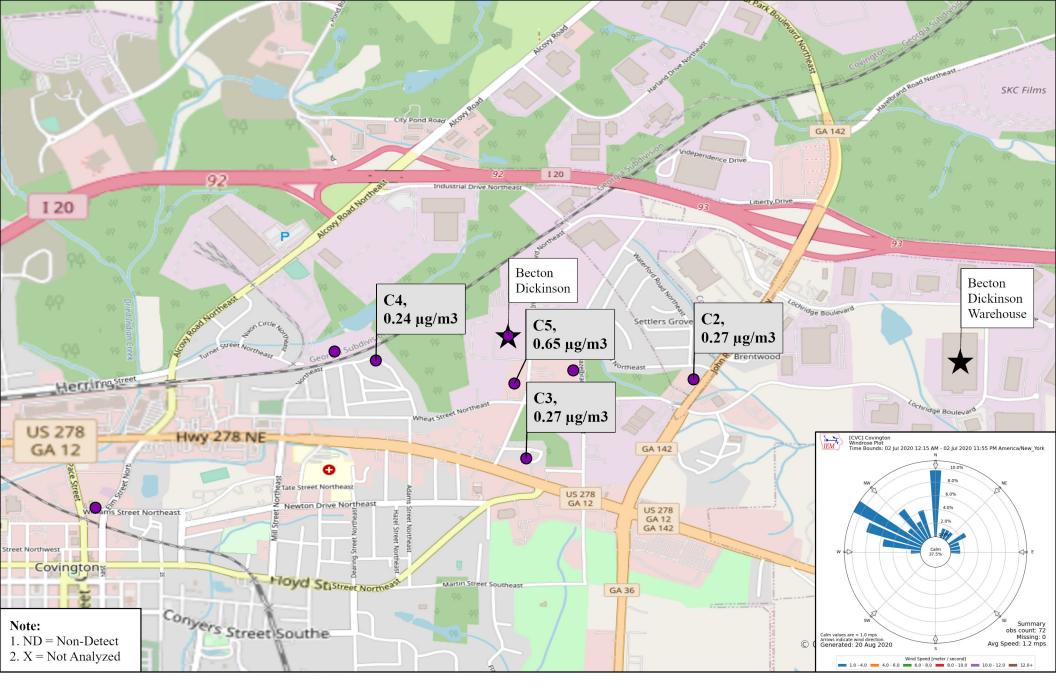
Miles

0



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

ENVIRONMENTAL PROTECTION DIVISION



Ethylene Oxide Sampling Covington, GA

$0 \quad 0.17 \quad 0.34$ Miles N Site ID, Concentration (μ g/m3)

07/02/2020 Sampled By: Georgia Environmental Protection Division Analyzed By: Eastern Research Group



ENVIRONMENTAL PROTECTION DIVISION