

August 25, 2021

**MEMORANDUM**

To: Karen Hays, Air Branch Chief *KH*

Through: James Boylan, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: Covington April 10-28, 2021 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected during the period of April 10-28, 2021 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 "LK" was given by ERG to indicate that the sample may be biased high. 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. The samples listed as "AA" indicate a sample pressure out of limits. No samples were taken at location C1, C6, C8, or C9 during this period.

Location	Date	Qualifier	EtO Concentration (ug/m <sup>3</sup> )
C2	04/10/2021		0.52
C2	04/16/2021		0.47
C2	04/22/2021	2	0.12
C2	04/28/2021		0.17
C3	04/10/2021	2	0.12
C3	04/16/2021	LK, 2	0.27
C3	04/22/2021		AA
C3	04/28/2021		0.11
C4	04/10/2021	2	0.25
C4	04/16/2021		0.09
C4	04/22/2021		0.15
C4 - QA	04/22/2021		0.38
C4	04/28/2021		0.28
C5	04/10/2021	2	0.38

Location		Date		Qualifier		EtO Concentration (ug/m <sup>3</sup> )
C5		04/16/2021		2		0.09
C5		04/22/2021		2		0.10
C5		04/28/2021		2		0.08
C7		04/28/2021				0.71

If you have any questions, please let me know.

DGO/do



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

June 09, 2021

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 04/22/21 12:32 through 05/05/21 10:56.

Values below the MDL for QC results in this report are recorded as ND, however the actual values are reported in the accompanying Excel report with a "U" flag (Under the detection limit). The actual values are reported in AQS.

This test is accredited under the 2016 TNI Standard for Environmental Laboratories (FL DOH Certification # E87673). 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](mailto: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:** 06/09/21 12:11  
**SUBMITTED:** 04/22/21 to 05/05/21  
**AQS SITE CODE:**  
**SITE CODE:** Covington

### ANALYTICAL REPORT FOR SAMPLES

<u>SampleName</u>	<u>LabNumber</u>	<u>Matrix</u>	<u>Sampled</u>	<u>Received</u>
C2	1042215-05	Air	04/10/21 23:59	04/22/21 12:32
C3	1042215-06	Air	04/10/21 23:59	04/22/21 12:32
C4	1042215-07	Air	04/10/21 23:59	04/22/21 12:32
C5	1042215-08	Air	04/10/21 23:59	04/22/21 12:32
C2	1042933-01	Air	04/16/21 23:59	04/29/21 11:34
C3	1042933-02	Air	04/16/21 23:59	04/29/21 11:34
C4	1042933-03	Air	04/16/21 23:59	04/29/21 11:34
C5	1042933-04	Air	04/16/21 23:59	04/29/21 11:34
C2	1043022-01	Air	04/22/21 23:59	04/30/21 12:22
C4	1043022-02	Air	04/22/21 23:59	04/30/21 12:22
C4-QA	1050321-02	Air	04/22/21 23:59	04/30/21 11:23
C5	1050321-03	Air	04/22/21 23:59	04/30/21 11:23
C2	1050523-01	Air	04/28/21 23:59	05/05/21 10:56
C3	1050523-02	Air	04/28/21 23:59	05/05/21 10:56
C4	1050523-03	Air	04/28/21 23:59	05/05/21 10:56
C5	1050523-04	Air	04/28/21 23:59	05/05/21 10:56
C7 - SA	1050523-05	Air	04/28/21 23:59	05/05/21 10:56
Covington FB	1050523-06	Air	04/27/21 23:59	05/05/21 10:56



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FILE #: 4222.00

REPORTED: 06/09/21 12:11

SUBMITTED: 04/22/21 to 05/05/21

AQS SITE CODE:

SITE CODE: Covington

Description: C2

Lab ID: 1042215-05

Sampled: 04/10/21 23:59

Pressure @ Receipt: 3.00" Hg

Canister #: A21012

Received: 04/22/21 12:32

Comments:

Analyzed: 04/28/21 19:42

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.285	0.52		0.0261



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FILE #: 4222.00

REPORTED: 06/09/21 12:11

SUBMITTED: 04/22/21 to 05/05/21

AQS SITE CODE:

SITE CODE: Covington

Description: C3

Lab ID: 1042215-06

Sampled: 04/10/21 23:59

Pressure @ Receipt: 12.00 "Hg

Canister #: 110258

Received: 04/22/21 12:32

Comments:

Analyzed: 04/28/21 20:44

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.0641	0.12		0.0261



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REPORTED: 06/09/21 12:11

SUBMITTED: 04/22/21 to 05/05/21

AQS SITE CODE:

SITE CODE: Covington

Description: C4

Lab ID: 1042215-07

Sampled: 04/10/21 23:59

Pressure @ Receipt: 7.50" Hg

Canister #: 110305

Received: 04/22/21 12:32

Comments:

Analyzed: 04/28/21 21:45

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.137	0.25		0.0261



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REPORTED: 06/09/21 12:11

SUBMITTED: 04/22/21 to 05/05/21

AQS SITE CODE:

SITE CODE: Covington

Description: C5

Lab ID: 1042215-08

Sampled: 04/10/21 23:59

Pressure @ Receipt: 2.00" Hg

Canister #: A21101

Received: 04/22/21 12:32

Comments:

Analyzed: 04/28/21 22:46

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.210	0.38		0.0261





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REPORTED: 06/09/21 12:11

SUBMITTED: 04/22/21 to 05/05/21

AQS SITE CODE:

SITE CODE: Covington

Description: C2

Lab ID: 1042933-01

Sampled: 04/16/21 23:59

Pressure @ Receipt: 2.50" Hg

Canister #: A21005

Received: 04/29/21 11:34

Comments:

Analyzed: 05/12/21 16:23

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.262	0.47		0.0261



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REPORTED: 06/09/21 12:11

SUBMITTED: 04/22/21 to 05/05/21

AQS SITE CODE:

SITE CODE: Covington

Description: C3

Lab ID: 1042933-02

Sampled: 04/16/21 23:59

Pressure @ Receipt: 8.50" Hg

Canister #: SAT157

Received: 04/29/21 11:34

Comments:

Analyzed: 05/12/21 03:41

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.151	0.27	LK	0.0261



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FILE #: 4222.00

REPORTED: 06/09/21 12:11

SUBMITTED: 04/22/21 to 05/05/21

AQS SITE CODE:

SITE CODE: Covington

Description: C4

Lab ID: 1042933-03

Sampled: 04/16/21 23:59

Pressure @ Receipt: 6.00" Hg

Canister #: 110252

Received: 04/29/21 11:34

Comments:

Analyzed: 05/12/21 04:42

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.0497	0.09		0.0261



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FILE #: 4222.00

REPORTED: 06/09/21 12:11

SUBMITTED: 04/22/21 to 05/05/21

AQS SITE CODE:

SITE CODE: Covington

Description: C5

Lab ID: 1042933-04

Sampled: 04/16/21 23:59

Pressure @ Receipt: 0.30" Hg

Canister #: 110314

Received: 04/29/21 11:34

Comments:

Analyzed: 05/12/21 05:43

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.0479	0.09		0.0261



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FILE #: 4222.00

REPORTED: 06/09/21 12:11

SUBMITTED: 04/22/21 to 05/05/21

AQS SITE CODE:

SITE CODE: Covington

Description: C2

Lab ID: 1043022-01

Sampled: 04/22/21 23:59

Pressure @ Receipt: 0.90" Hg

Canister #: 18868

Received: 04/30/21 12:22

Comments:

Analyzed: 05/12/21 22:28

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.0642	0.12		0.0261



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FILE #: 4222.00

REPORTED: 06/09/21 12:11

SUBMITTED: 04/22/21 to 05/05/21

AQS SITE CODE:

SITE CODE: Covington

Description: C4

Lab ID: 1043022-02

Sampled: 04/22/21 23:59

Pressure @ Receipt: 4.50" Hg

Canister #: A21022

Received: 04/30/21 12:22

Comments:

Analyzed: 05/13/21 16:43

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.0811	0.15		0.0261



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FILE #: 4222.00

REPORTED: 06/09/21 12:11

SUBMITTED: 04/22/21 to 05/05/21

AQS SITE CODE:

SITE CODE: Covington

Description: C4-QA

Lab ID: 1050321-02

Sampled: 04/22/21 23:59

Pressure @ Receipt: 4.00" Hg

Canister #: 2767

Received: 04/30/21 11:23

Comments:

Analyzed: 05/13/21 18:45

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.208	0.38		0.0261



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FILE #: 4222.00

REPORTED: 06/09/21 12:11

SUBMITTED: 04/22/21 to 05/05/21

AQS SITE CODE:

SITE CODE: Covington

Description: C5

Lab ID: 1050321-03

Sampled: 04/22/21 23:59

Pressure @ Receipt: 8.00" Hg

Canister #: 18830

Received: 04/30/21 11:23

Comments:

Analyzed: 05/13/21 20:47

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.0540	0.10		0.0261





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FILE #: 4222.00

REPORTED: 06/09/21 12:11

SUBMITTED: 04/22/21 to 05/05/21

AQS SITE CODE:

SITE CODE: Covington

Description: C2

Lab ID: 1050523-01

Sampled: 04/28/21 23:59

Pressure @ Receipt: 5.00" Hg

Canister #: 110335

Received: 05/05/21 10:56

Comments:

Analyzed: 05/14/21 04:54

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.0927	0.17		0.0261



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FILE #: 4222.00

REPORTED: 06/09/21 12:11

SUBMITTED: 04/22/21 to 05/05/21

AQS SITE CODE:

SITE CODE: Covington

Description: C3

Lab ID: 1050523-02

Sampled: 04/28/21 23:59

Pressure @ Receipt: 6.50" Hg

Canister #: 110306

Received: 05/05/21 10:56

Comments:

Analyzed: 05/14/21 05:55

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.0598	0.11		0.0261



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FILE #: 4222.00

REPORTED: 06/09/21 12:11

SUBMITTED: 04/22/21 to 05/05/21

AQS SITE CODE:

SITE CODE: Covington

Description: C4

Lab ID: 1050523-03

Sampled: 04/28/21 23:59

Pressure @ Receipt: 5.50" Hg

Canister #: 33516

Received: 05/05/21 10:56

Comments:

Analyzed: 05/14/21 06:56

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.156	0.28		0.0261



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FILE #: 4222.00

REPORTED: 06/09/21 12:11

SUBMITTED: 04/22/21 to 05/05/21

AQS SITE CODE:

SITE CODE: Covington

Description: C5

Lab ID: 1050523-04

Sampled: 04/28/21 23:59

Pressure @ Receipt: 0.75" Hg

Canister #: 111211

Received: 05/05/21 10:56

Comments:

Analyzed: 05/14/21 07:57

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.0464	0.08		0.0261



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FILE #: 4222.00

REPORTED: 06/09/21 12:11

SUBMITTED: 04/22/21 to 05/05/21

AQS SITE CODE:

SITE CODE: Covington

Description: C7 - SA

Lab ID: 1050523-05

Sampled: 04/28/21 23:59

Pressure @ Receipt: 6.50" Hg

Canister #: SAT043

Received: 05/05/21 10:56

Comments:

Analyzed: 05/19/21 22:50

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.391	0.71		0.0261



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FILE #: 4222.00

REPORTED: 06/09/21 12:11

SUBMITTED: 04/22/21 to 05/05/21

AQS SITE CODE:

SITE CODE: Covington

Description: Covington FB

Lab ID: 1050523-06

Sampled: 04/27/21 23:59

Pressure @ Receipt: 29.50" Hg

Canister #: 110342

Received: 05/05/21 10:56

Comments: Field Blank

Analyzed: 05/20/21 19:00

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	ND	ND	U	0.0261



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**SUBMITTED:** 04/22/21 to 05/05/21  
**AQS SITE CODE:**  
**SITE CODE:** Covington

Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes
<b>Air Toxics by EPA Compendium Method TO-15 - Quality Control</b>						
<i>Batch B1D2808 - Summa Canister Prep</i>						
<b>Blank (B1D2808-BLK1)</b>			Prepared & Analyzed: 04/28/21			
Ethylene oxide	ND	ppbv				U
<i>Batch B1E1108 - Summa Canister Prep</i>						
<b>Blank (B1E1108-BLK1)</b>			Prepared & Analyzed: 05/11/21			
Ethylene oxide	ND	ppbv				U
<i>Batch B1E1206 - Summa Canister Prep</i>						
<b>Blank (B1E1206-BLK1)</b>			Prepared & Analyzed: 05/12/21			
Ethylene oxide	ND	ppbv				U
<i>Batch B1E1307 - Summa Canister Prep</i>						
<b>Blank (B1E1307-BLK1)</b>			Prepared & Analyzed: 05/13/21			
Ethylene oxide	ND	ppbv				U
<b>Duplicate (B1E1307-DUP1)</b>	<b>Source: 1043022-02</b>		Prepared: 04/22/21 Analyzed: 05/13/21			
Ethylene oxide	0.0789	ppbv	0.08	2.75	25	
<b>Duplicate (B1E1307-DUP2)</b>	<b>Source: 1050321-02</b>		Prepared: 04/22/21 Analyzed: 05/13/21			
Ethylene oxide	0.206	ppbv	0.21	1.01	25	
<i>Batch B1E1908 - Summa Canister Prep</i>						
<b>Blank (B1E1908-BLK1)</b>			Prepared & Analyzed: 05/19/21			
Ethylene oxide	ND	ppbv				U
<b>Duplicate (B1E1908-DUP3)</b>	<b>Source: 1050523-05</b>		Prepared: 04/28/21 Analyzed: 05/19/21			
Ethylene oxide	0.384	ppbv	0.39	1.96	25	
<i>Batch B1E2006 - Summa Canister Prep</i>						
<b>Blank (B1E2006-BLK1)</b>			Prepared & Analyzed: 05/20/21			
Ethylene oxide	ND	ppbv				U



## 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:** 06/09/21 12:11  
**SUBMITTED:** 04/22/21 to 05/05/21  
**AQS SITE CODE:**  
**SITE CODE:** Covington

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

#### Sequence 2104057

##### Calibration Check (2104057-CCV1)

Prepared & Analyzed: 04/28/21

Ethylene oxide	2.75	ppbv	13.7	30.00
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#### Sequence 2105022

##### Calibration Check (2105022-CCV1)

Prepared & Analyzed: 05/11/21

Ethylene oxide	2.09	ppbv	-13.4	30.00
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#### Sequence 2105025

##### Calibration Check (2105025-CCV1)

Prepared & Analyzed: 05/12/21

Ethylene oxide	2.09	ppbv	-13.7	30.00
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#### Sequence 2105029

##### Calibration Check (2105029-CCV1)

Prepared & Analyzed: 05/13/21

Ethylene oxide	2.07	ppbv	-14.3	30.00
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#### Sequence 2105048

##### Calibration Check (2105048-CCV1)

Prepared & Analyzed: 05/19/21

Ethylene oxide	2.16	ppbv	-10.7	30.00
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#### Sequence 2105053

##### Calibration Check (2105053-CCV1)

Prepared & Analyzed: 05/20/21

Ethylene oxide	2.17	ppbv	-10.2	30.00
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## CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

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**FILE #:** 4222.00

**REPORTED:** 06/09/21 12:11

**SUBMITTED:** 04/22/21 to 05/05/21

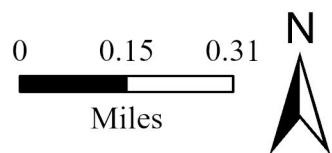
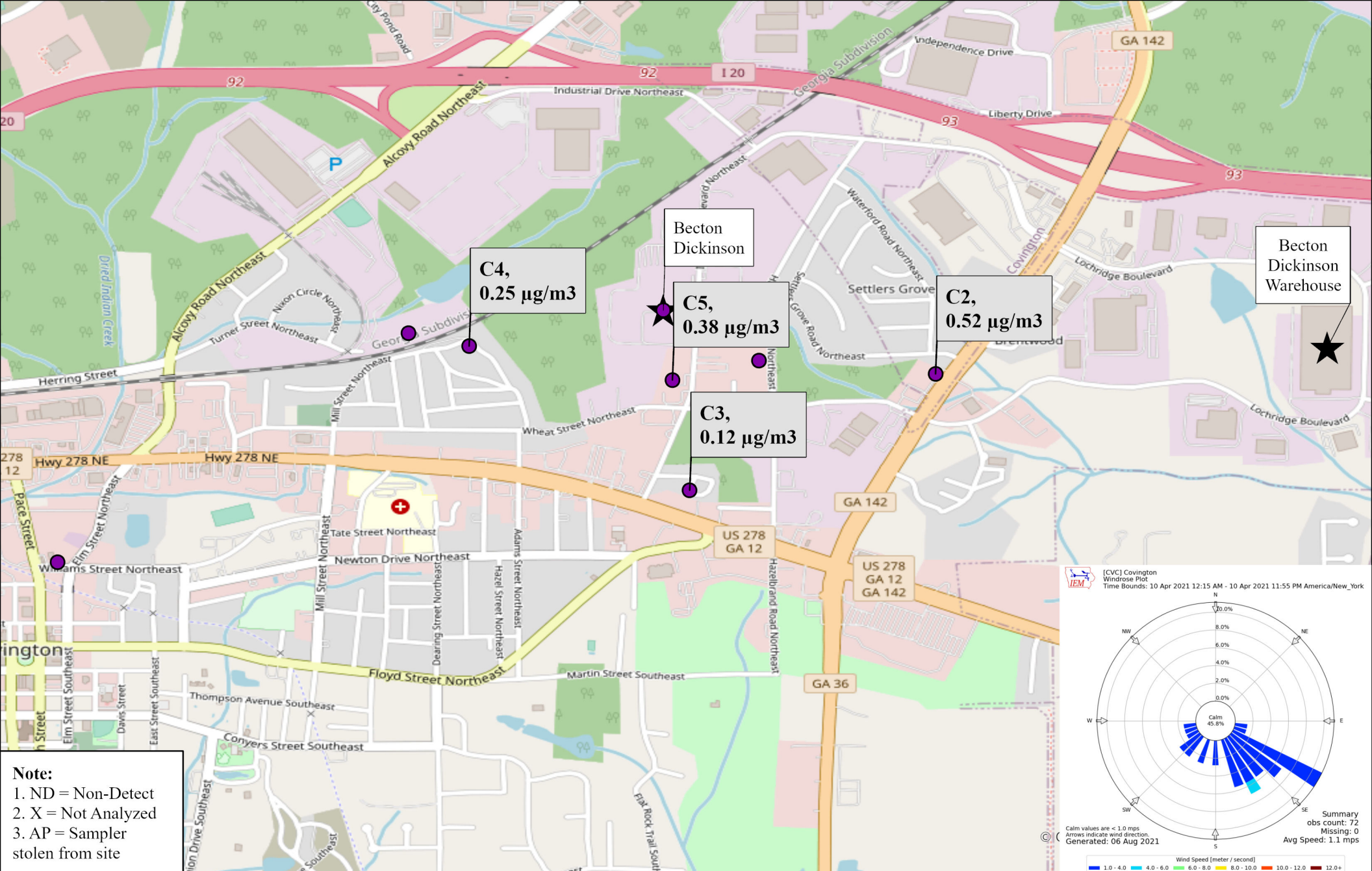
**AQS SITE CODE:**

**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
LK	Analyte Identified: Reported Value may Be Biased High

Note: This test is accredited under the 2016 TNI Standard; however the following analytes are not accredited: acetylene, bromodichloroethane, dichlorotetrafluoromethane, ethyl tert butyl ether, n-octane, tert amyl methyl ether, trichlorofluoroethane, and bromochloromethane.

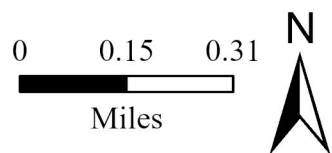
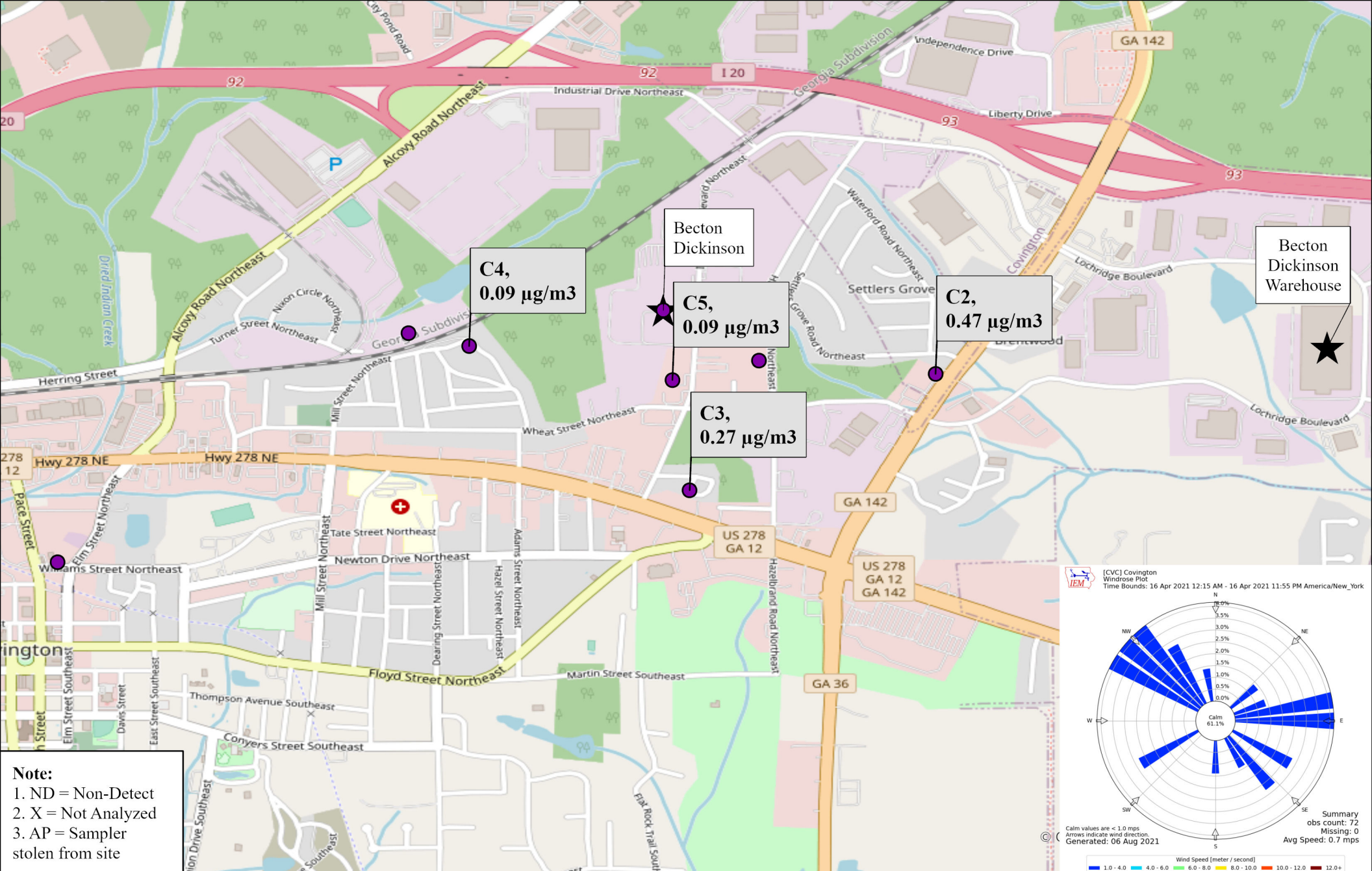


Site ID, Concentration ( $\mu\text{g}/\text{m}^3$ )

Ethylene Oxide Sampling  
Covington, GA

04/10/2021  
Sampled By: Georgia Environmental Protection Division  
Analyzed By: Eastern Research Group



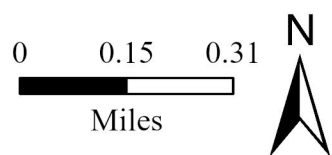
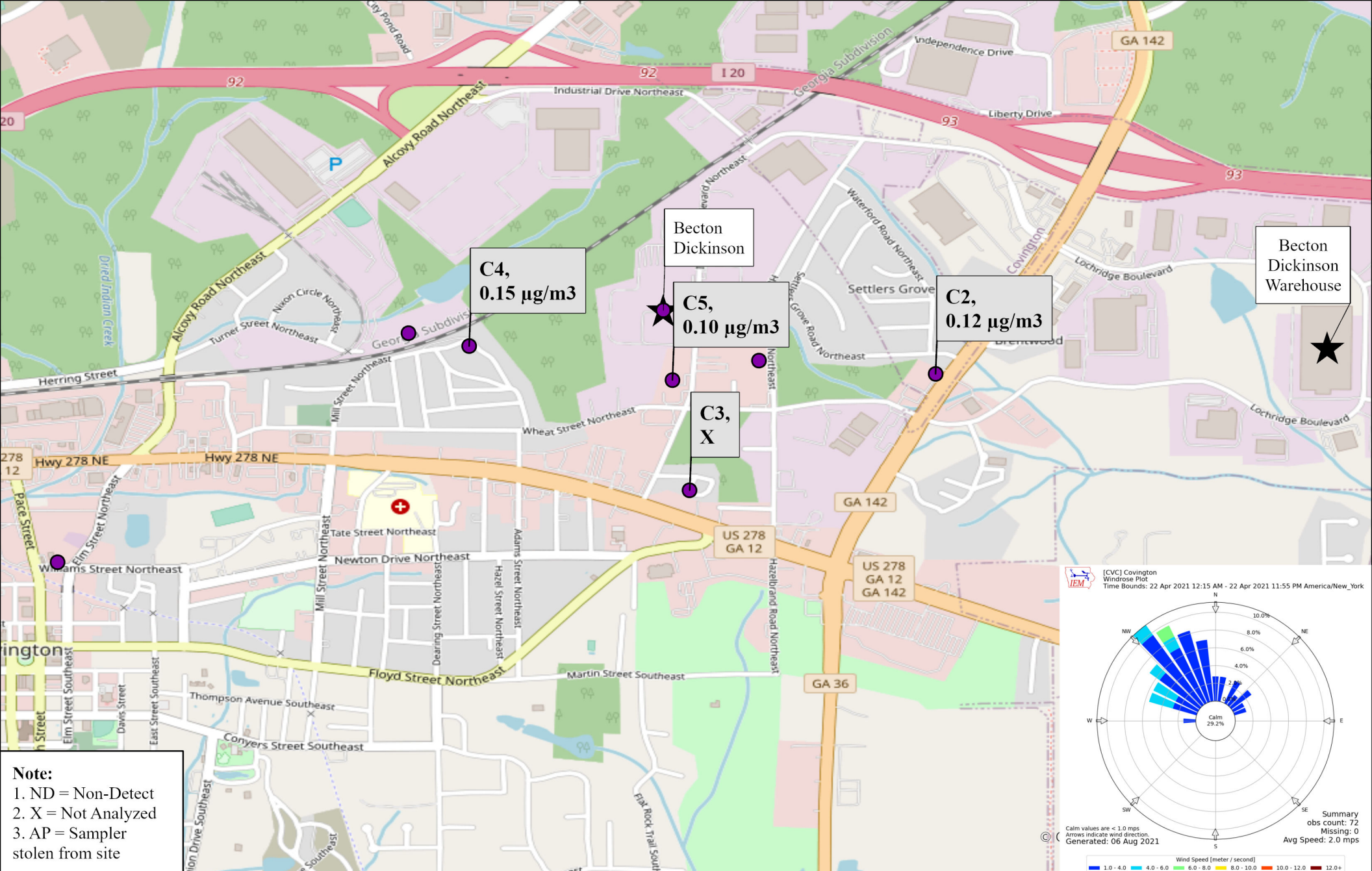


Site ID, Concentration ( $\mu\text{g}/\text{m}^3$ )

Ethylene Oxide Sampling  
Covington, GA

04/16/2021  
Sampled By: Georgia Environmental Protection Division  
Analyzed By: Eastern Research Group





**Site ID, Concentration ( $\mu\text{g}/\text{m}^3$ )**

Ethylene Oxide Sampling  
Covington, GA

04/22/2021

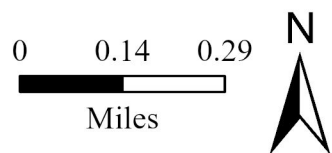
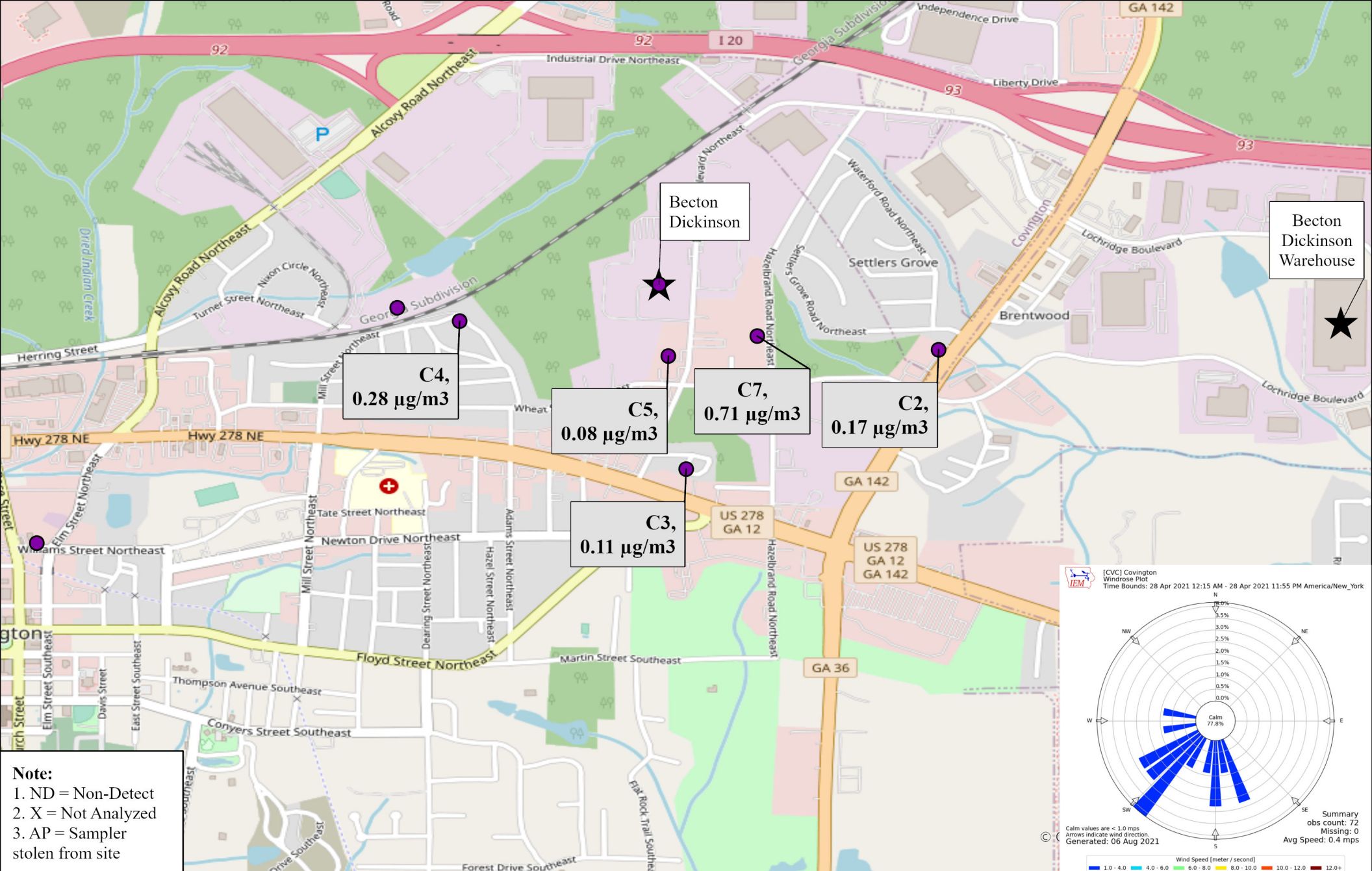
Sampled By: Georgia Environmental Protection Division  
Analyzed By: Eastern Research Group



**GEORGIA**  
DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL PROTECTION DIVISION



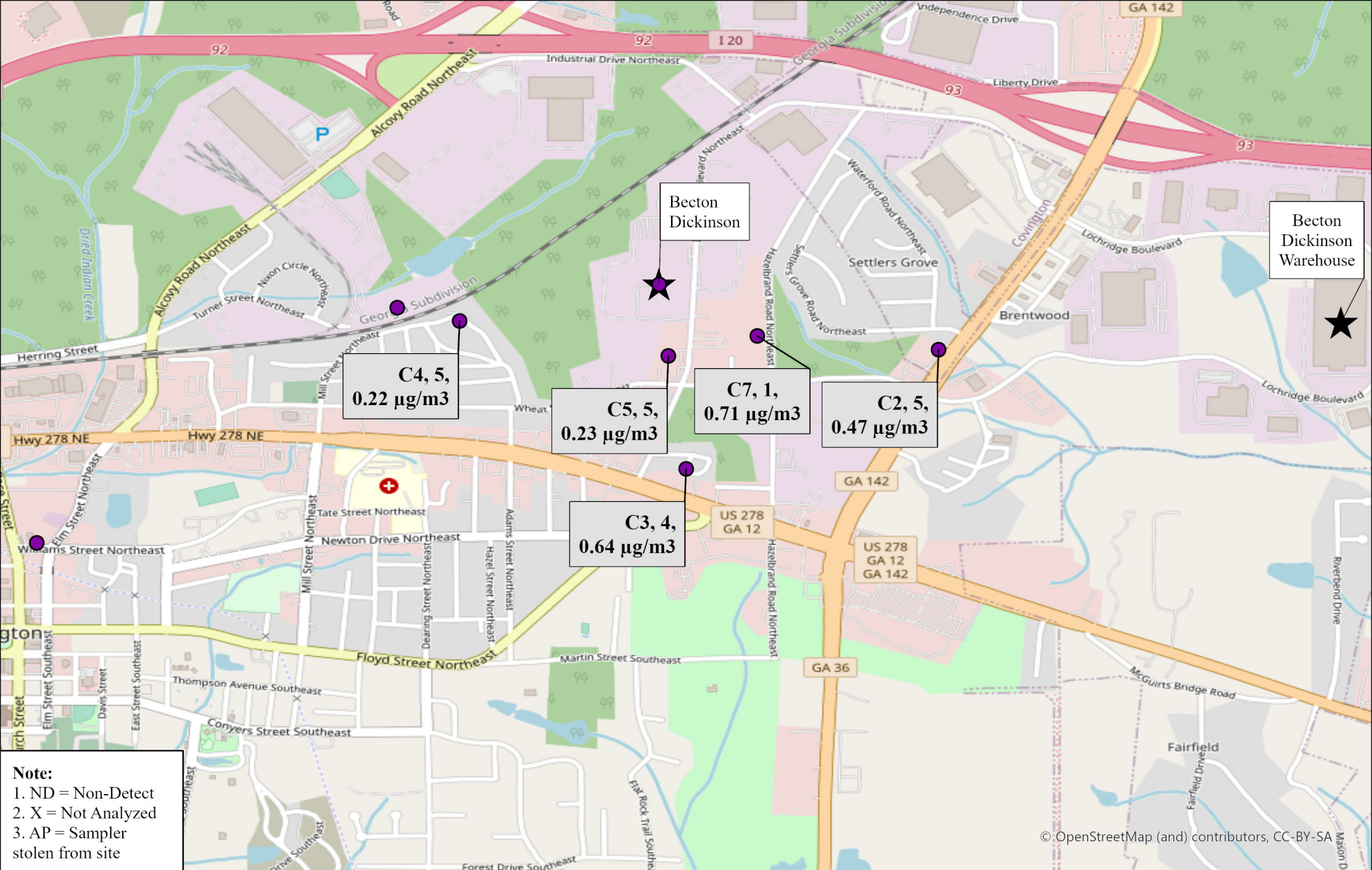


Site ID, Concentration ( $\mu\text{g}/\text{m}^3$ )

Ethylene Oxide Sampling  
 Covington, GA

04/28/2021  
 Sampled By: Georgia Environmental Protection Division  
 Analyzed By: Eastern Research Group





# Ethylene Oxide Sampling Covington, GA

April 2021 Site Average Values  
 Note: Not detectable values were included in average calculations as a value of 0.  
 Sampled By: Georgia Environmental Protection Division  
 Analyzed By: Eastern Research Group