

March 29, 2021

MEMORANDUM

To: Karen Hays, Air Branch Chief *KH*

Through: Dika Kuoh, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: Covington November 29- December 17, 2020 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected during the period of November 29- December 17, 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 "LK" was given by ERG to indicate that the sample may be biased high. The Qualifier code "U" was given by ERG to indicate that the sample is under the detection limit. 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 sample listed as AN indicates the machine malfunctioned while collecting the sample. No samples were taken at location C1, C6, C7, C8, or C9 during this period.

Location		Date		Qualifier		EtO Concentration (ug/m ³)
C2		11/29/2020		U		ND
C2		12/05/2020		2		0.34
C2		12/11/2020				0.15
C2		12/17/2020		LK, 2		0.24
C3		11/29/2020				0.39
C3		12/05/2020		LK		0.36
C3		12/11/2020		LK		0.21
C3		12/17/2020		2		0.12
C4		11/29/2020		LK		0.45
C4		12/05/2020		LK, 2		0.25
C4		12/11/2020				AN
C4		12/17/2020		2		0.06
C4 QA		12/17/2020				0.09

Location		Date		Qualifier		EtO Concentration (ug/m ³)
C5		11/29/2020		LK		0.43
C5		12/05/2020				0.07
C5		12/11/2020				0.18
C5		12/17/2020		2		0.08

If you have any questions, please let me know.

DGO/do



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

February 03, 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 12/04/20 11:16 through 12/30/20 11:03.

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

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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: 02/03/21 08:54
SUBMITTED: 12/04/20 to 12/30/20
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>
Covington FB	0120411-06	Air	11/24/20 00:00	12/04/20 11:16
C2	0121016-01	Air	11/29/20 23:59	12/10/20 11:27
C3	0121016-02	Air	11/29/20 23:59	12/10/20 11:27
C4	0121016-03	Air	11/29/20 23:59	12/10/20 11:27
C5	0121016-04	Air	11/29/20 23:59	12/10/20 11:27
C2	0121104-01	Air	12/05/20 23:59	12/11/20 11:53
C3	0121104-02	Air	12/05/20 23:59	12/11/20 11:53
C4	0121104-03	Air	12/05/20 23:59	12/11/20 11:53
C5	0121104-04	Air	12/05/20 23:59	12/11/20 11:53
C2	0122326-01	Air	12/11/20 23:59	12/23/20 14:26
C3	0122326-02	Air	12/11/20 23:59	12/23/20 14:26
C5	0122326-04	Air	12/11/20 23:59	12/23/20 14:26
C2	0123026-01	Air	12/17/20 23:59	12/30/20 11:03
C3	0123026-02	Air	12/17/20 23:59	12/30/20 11:03
C4	0123026-03	Air	12/17/20 23:59	12/30/20 11:03
C4 QA	0123026-04	Air	12/17/20 23:59	12/30/20 11:03
C5	0123026-05	Air	12/17/20 23:59	12/30/20 11:03



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FILE #: 4222.00

REPORTED: 02/03/21 08:54

SUBMITTED: 12/04/20 to 12/30/20

AQS SITE CODE:

SITE CODE: Covington

Description: Covington FB

Lab ID: 0120411-06

Sampled: 11/24/20 00:00

Pressure @ Receipt: 30.00" Hg

Canister #: SAT043

Received: 12/04/20 11:16

Comments: Field Blank

Analyzed: 12/16/20 21:21

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	0.0285



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FILE #: 4222.00

REPORTED: 02/03/21 08:54

SUBMITTED: 12/04/20 to 12/30/20

AQS SITE CODE:

SITE CODE: Covington

Description: C2

Lab ID: 0121016-01

Sampled: 11/29/20 23:59

Pressure @ Receipt: 4.00" Hg

Canister #: SAT015

Received: 12/10/20 11:27

Comments:

Analyzed: 12/17/20 06:33

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	0.0285



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FILE #: 4222.00

REPORTED: 02/03/21 08:54

SUBMITTED: 12/04/20 to 12/30/20

AQS SITE CODE:

SITE CODE: Covington

Description: C3

Lab ID: 0121016-02

Sampled: 11/29/20 23:59

Pressure @ Receipt: 2.50" Hg

Canister #: SAT016

Received: 12/10/20 11:27

Comments:

Analyzed: 12/17/20 23:28

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	0.216	0.39		0.0285



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FILE #: 4222.00

REPORTED: 02/03/21 08:54

SUBMITTED: 12/04/20 to 12/30/20

AQS SITE CODE:

SITE CODE: Covington

Description: C4

Lab ID: 0121016-03

Sampled: 11/29/20 23:59

Pressure @ Receipt: 4.50" Hg

Canister #: 5136

Received: 12/10/20 11:27

Comments:

Analyzed: 12/18/20 01:19

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	0.250	0.45	LK	0.0285



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REPORTED: 02/03/21 08:54

SUBMITTED: 12/04/20 to 12/30/20

AQS SITE CODE:

SITE CODE: Covington

Description: C5

Lab ID: 0121016-04

Sampled: 11/29/20 23:59

Pressure @ Receipt: 2.50" Hg

Canister #: 5064

Received: 12/10/20 11:27

Comments:

Analyzed: 12/18/20 02:14

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	0.238	0.43	LK	0.0285



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FILE #: 4222.00

REPORTED: 02/03/21 08:54

SUBMITTED: 12/04/20 to 12/30/20

AQS SITE CODE:

SITE CODE: Covington

Description: C2

Lab ID: 0121104-01

Sampled: 12/05/20 23:59

Pressure @ Receipt: 0.75 psig

Canister #: 33540

Received: 12/11/20 11:53

Comments:

Analyzed: 12/18/20 03:09

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	0.186	0.34		0.0285



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REPORTED: 02/03/21 08:54

SUBMITTED: 12/04/20 to 12/30/20

AQS SITE CODE:

SITE CODE: Covington

Description: C3

Lab ID: 0121104-02

Sampled: 12/05/20 23:59

Pressure @ Receipt: 2.00" Hg

Canister #: 5106

Received: 12/11/20 11:53

Comments:

Analyzed: 12/18/20 04:04

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	0.198	0.36	LK	0.0285



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FILE #: 4222.00

REPORTED: 02/03/21 08:54

SUBMITTED: 12/04/20 to 12/30/20

AQS SITE CODE:

SITE CODE: Covington

Description: C4

Lab ID: 0121104-03

Sampled: 12/05/20 23:59

Pressure @ Receipt: 0.75 psig

Canister #: 5051

Received: 12/11/20 11:53

Comments:

Analyzed: 12/18/20 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	0.140	0.25	LK	0.0285



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FILE #: 4222.00

REPORTED: 02/03/21 08:54

SUBMITTED: 12/04/20 to 12/30/20

AQS SITE CODE:

SITE CODE: Covington

Description: C5

Lab ID: 0121104-04

Sampled: 12/05/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: 19667

Received: 12/11/20 11:53

Comments: Received at ambient pressure

Analyzed: 12/18/20 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/m³</u>		<u>ppbv</u>
Ethylene oxide	0.0362	0.07		0.0285



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FILE #: 4222.00

REPORTED: 02/03/21 08:54

SUBMITTED: 12/04/20 to 12/30/20

AQS SITE CODE:

SITE CODE: Covington

Description: C2

Lab ID: 0122326-01

Sampled: 12/11/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: 18870

Received: 12/23/20 14:26

Comments: Received at ambient pressure

Analyzed: 12/30/20 20:36

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	0.0833	0.15		0.0285



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FILE #: 4222.00

REPORTED: 02/03/21 08:54

SUBMITTED: 12/04/20 to 12/30/20

AQS SITE CODE:

SITE CODE: Covington

Description: C3

Lab ID: 0122326-02

Sampled: 12/11/20 23:59

Pressure @ Receipt: 3.00" Hg

Canister #: 5072

Received: 12/23/20 14:26

Comments:

Analyzed: 12/30/20 21:31

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	0.117	0.21	LK	0.0285



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FILE #: 4222.00

REPORTED: 02/03/21 08:54

SUBMITTED: 12/04/20 to 12/30/20

AQS SITE CODE:

SITE CODE: Covington

Description: C5

Lab ID: 0122326-04

Sampled: 12/11/20 23:59

Pressure @ Receipt: 2.00" Hg

Canister #: A21011

Received: 12/23/20 14:26

Comments:

Analyzed: 12/30/20 22:26

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	0.0987	0.18		0.0285



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FILE #: 4222.00

REPORTED: 02/03/21 08:54

SUBMITTED: 12/04/20 to 12/30/20

AQS SITE CODE:

SITE CODE: Covington

Description: C2

Lab ID: 0123026-01

Sampled: 12/17/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: 35119

Received: 12/30/20 11:03

Comments: Received at ambient pressure

Analyzed: 01/01/21 01:28

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	0.130	0.24	LK	0.0285



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FILE #: 4222.00

REPORTED: 02/03/21 08:54

SUBMITTED: 12/04/20 to 12/30/20

AQS SITE CODE:

SITE CODE: Covington

Description: C3

Lab ID: 0123026-02

Sampled: 12/17/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: 35160

Received: 12/30/20 11:03

Comments: Received at ambient pressure

Analyzed: 01/01/21 02:23

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/m³</u>		<u>ppbv</u>
Ethylene oxide	0.0668	0.12		0.0285



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FILE #: 4222.00

REPORTED: 02/03/21 08:54

SUBMITTED: 12/04/20 to 12/30/20

AQS SITE CODE:

SITE CODE: Covington

Description: C4

Lab ID: 0123026-03

Sampled: 12/17/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: 19291

Received: 12/30/20 11:03

Comments: Received at ambient pressure

Analyzed: 01/01/21 03:19

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	0.0322	0.06		0.0285



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FILE #: 4222.00

REPORTED: 02/03/21 08:54

SUBMITTED: 12/04/20 to 12/30/20

AQS SITE CODE:

SITE CODE: Covington

Description: C4 QA

Lab ID: 0123026-04

Sampled: 12/17/20 23:59

Pressure @ Receipt: 3.00" Hg

Canister #: 111217

Received: 12/30/20 11:03

Comments:

Analyzed: 01/01/21 05:09

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	0.0499	0.09		0.0285



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FILE #: 4222.00

REPORTED: 02/03/21 08:54

SUBMITTED: 12/04/20 to 12/30/20

AQS SITE CODE:

SITE CODE: Covington

Description: C5

Lab ID: 0123026-05

Sampled: 12/17/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: 110308

Received: 12/30/20 11:03

Comments: Received at ambient pressure

Analyzed: 01/01/21 06:59

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	0.0436	0.08		0.0285



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REPORTED: 02/03/21 08:54
SUBMITTED: 12/04/20 to 12/30/20
AQS SITE CODE:
SITE CODE: Covington

Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes
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Air Toxics by EPA Compendium Method TO-15 - Quality Control

Batch B0L1603 - Summa Canister Prep

Blank (B0L1603-BLK1)

Prepared & Analyzed: 12/16/20

Ethylene oxide	ND	ppbv				U
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Batch B0L1703 - Summa Canister Prep

Blank (B0L1703-BLK1)

Prepared & Analyzed: 12/17/20

Ethylene oxide	ND	ppbv				U
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Duplicate (B0L1703-DUP1)

Source: 0121016-02

Prepared: 11/29/20 Analyzed: 12/18/20

Ethylene oxide	0.228	ppbv	0.22	5.63	25	
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Batch B0L3006 - Summa Canister Prep

Blank (B0L3006-BLK1)

Prepared & Analyzed: 12/30/20

Ethylene oxide	ND	ppbv				U
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Batch B0L3104 - Summa Canister Prep

Blank (B0L3104-BLK1)

Prepared & Analyzed: 12/31/20

Ethylene oxide	ND	ppbv				U
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Duplicate (B0L3104-DUP5)

Source: 0123026-03

Prepared: 12/17/20 Analyzed: 01/01/21

Ethylene oxide	0.0319	ppbv	0.03	0.936	25	
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Duplicate (B0L3104-DUP6)

Source: 0123026-04

Prepared: 12/17/20 Analyzed: 01/01/21

Ethylene oxide	0.0457	ppbv	0.05	8.79	25	
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SUBMITTED: 12/04/20 to 12/30/20
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 2012029

Calibration Check (2012029-CCV1)

Prepared & Analyzed: 12/16/20

Ethylene oxide	2.48	ppbv	2.5	30.00
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Sequence 2012033

Calibration Check (2012033-CCV1)

Prepared & Analyzed: 12/17/20

Ethylene oxide	2.67	ppbv	10.5	30.00
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Sequence 2012052

Calibration Check (2012052-CCV1)

Prepared & Analyzed: 12/30/20

Ethylene oxide	2.69	ppbv	7.8	30.00
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Sequence 2012054

Calibration Check (2012054-CCV1)

Prepared & Analyzed: 12/31/20

Ethylene oxide	2.60	ppbv	4.2	30.00
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CERTIFICATE OF ANALYSIS

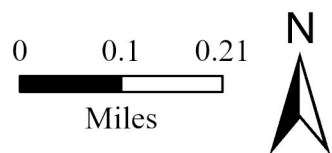
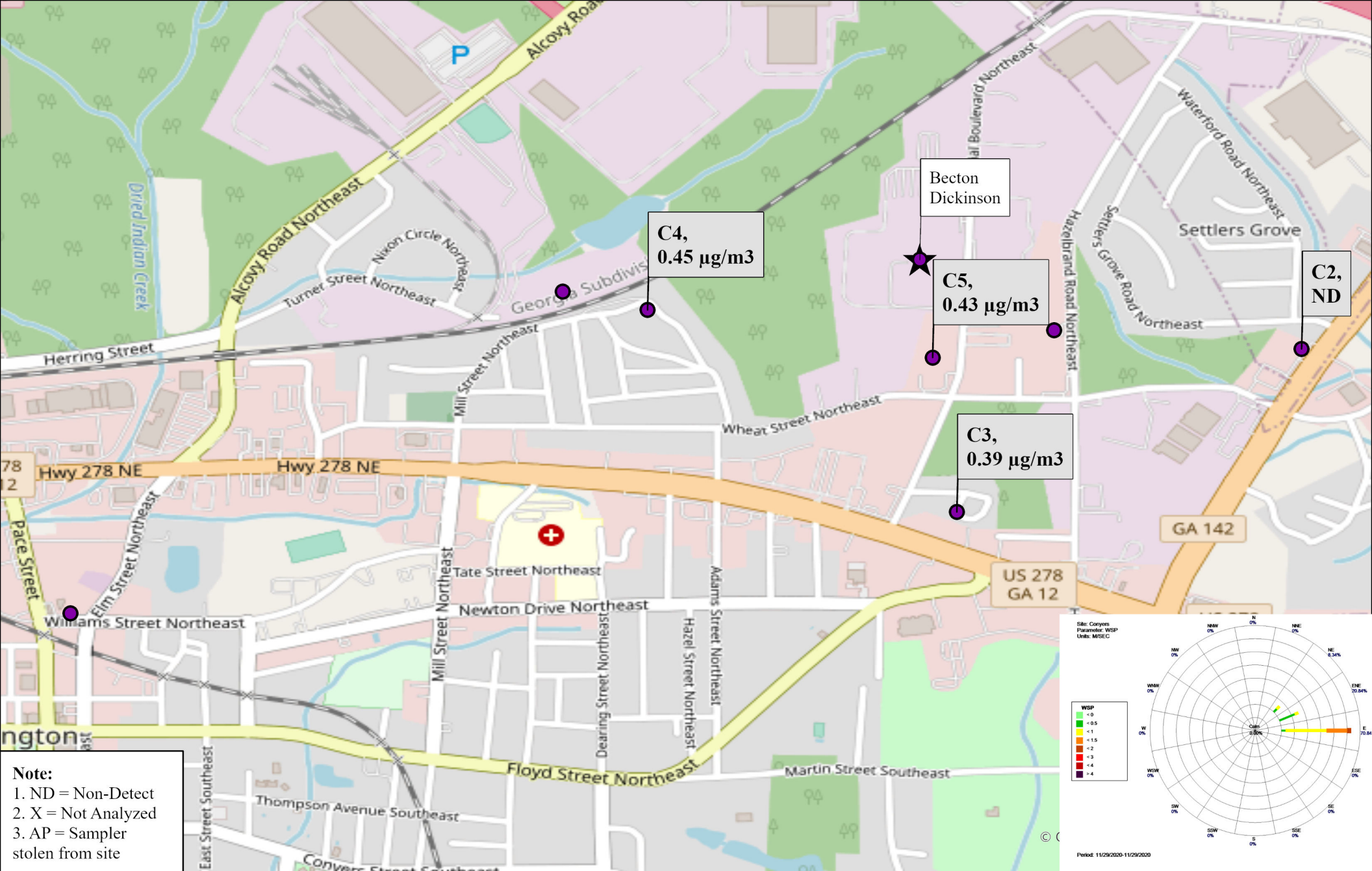
U.S. Environmental Protection Agency, Region 4
4244 International Pkwy, Suite 120
Atlanta, GA 30354
ATTN: Ms. Jaime Gore
PHONE: (404) 362-4912 **FAX:** (919) 541-0516

FILE #: 4222.00
REPORTED: 02/03/21 08:54
SUBMITTED: 12/04/20 to 12/30/20
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
LK	Analyte identified; Reported value may be biased high

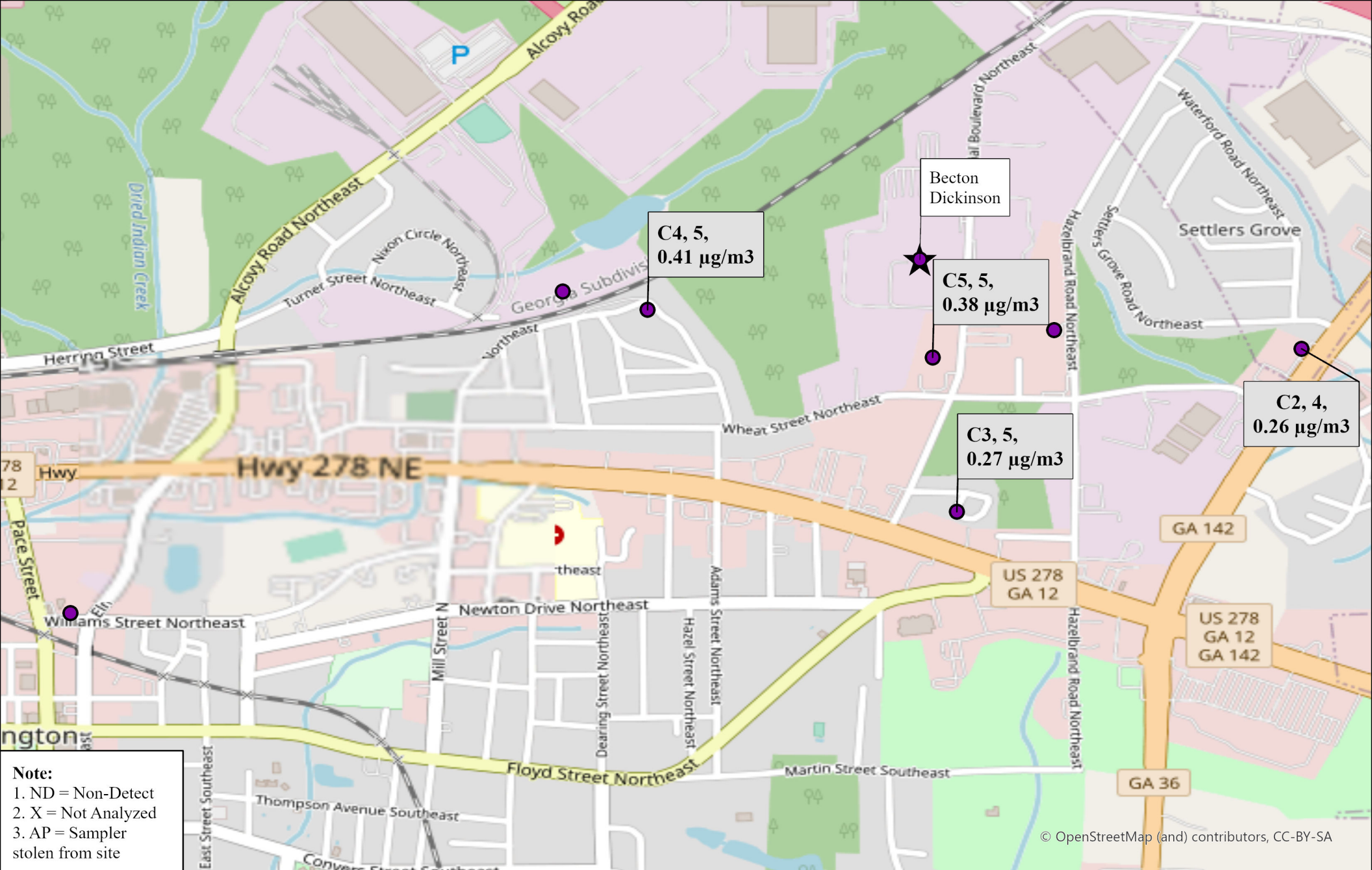
Note: This test is accredited under the 2016 TNI Standard; however the following analytes are not accredited: acetylene, bromodichloroethane, dichlorotetrafluoromethane, ethyl tert butyl ether, n-octane, tert amyl methyl ether, trichlorofluoroethane, and bromochloromethane.



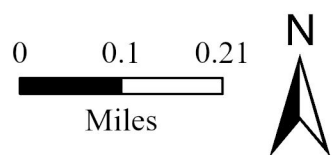
Site ID, Concentration ($\mu\text{g}/\text{m}^3$)

Ethylene Oxide Sampling
Covington, GA

11/29/2020
 Sampled By: Georgia Environmental Protection Division
 Analyzed By: Eastern Research Group

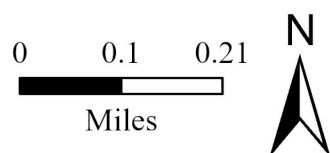
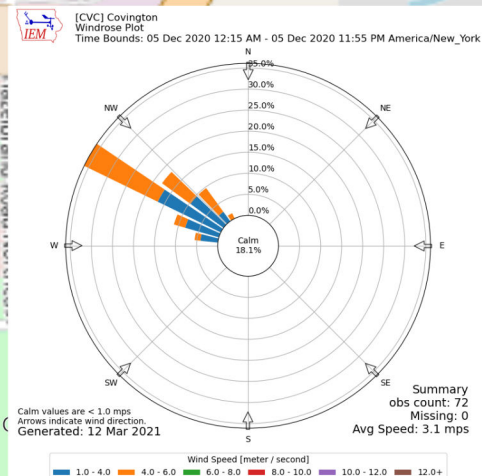
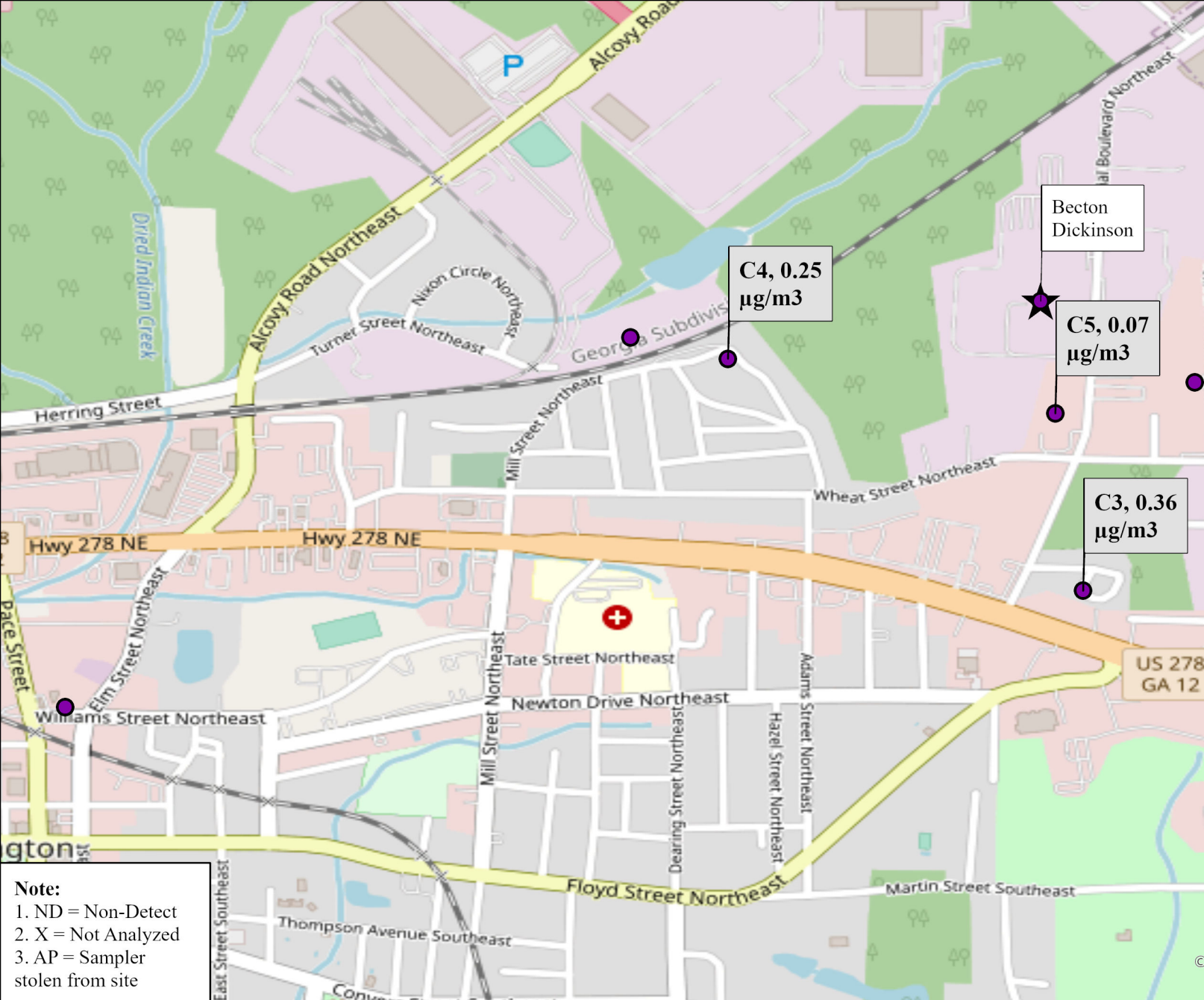


Ethylene Oxide Sampling Covington, GA



**Site ID, Number of Samples,
Concentration (µg/m³)**

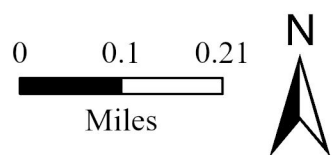
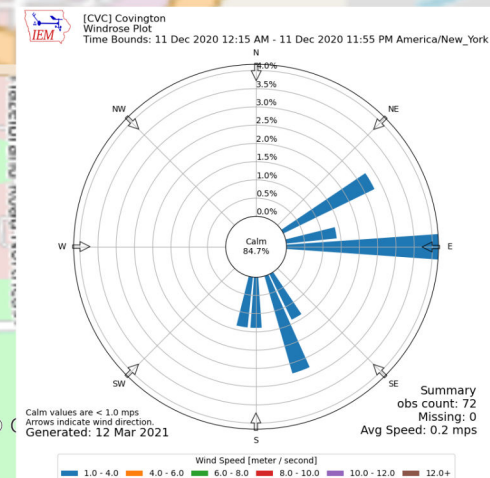
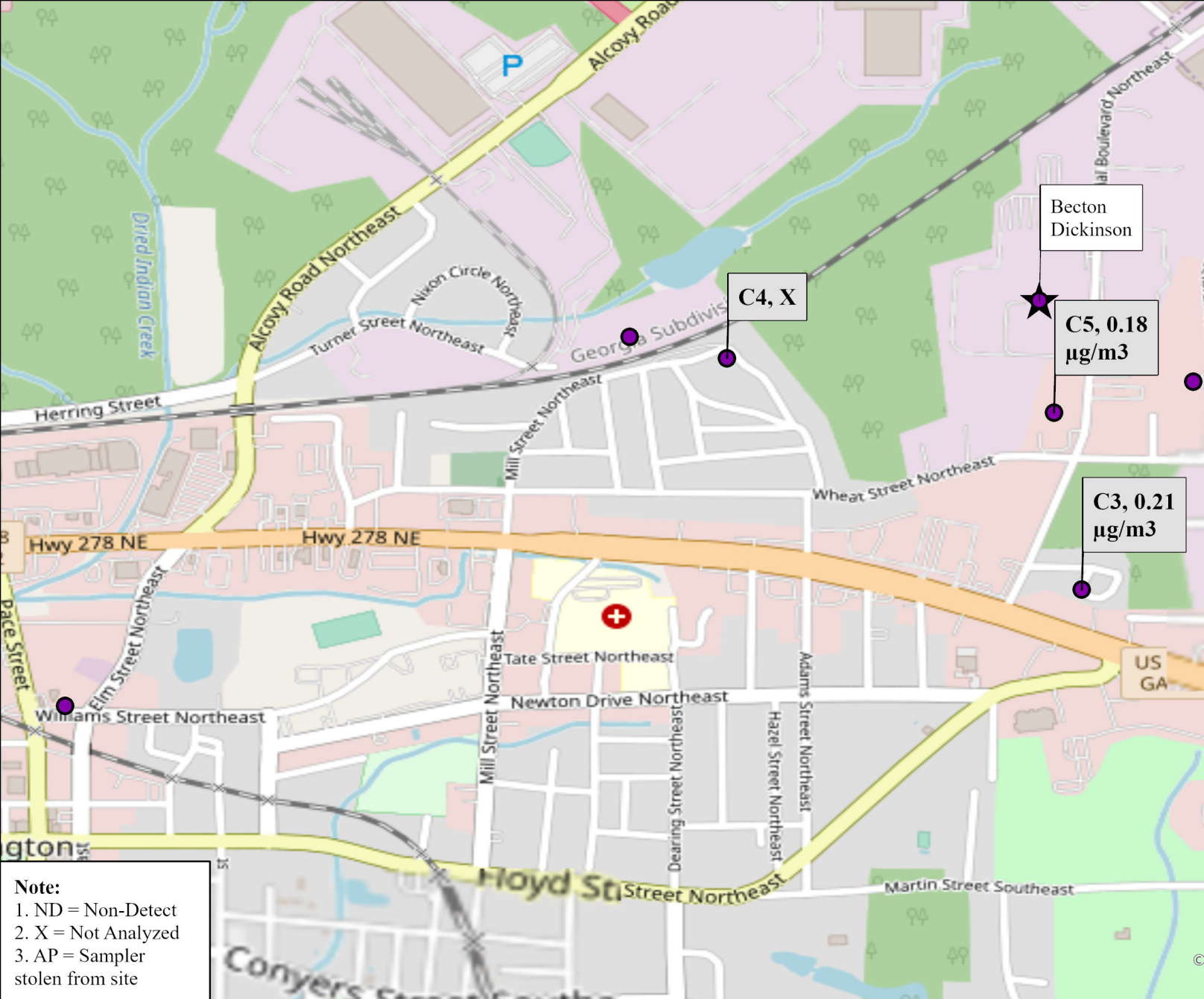
November 2020 Site Average Values
Note: Not detectable values were included in average calculations as a value of 0.
Sampled By: Georgia Environmental Protection Division
Analyzed By: Eastern Research Group



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

Ethylene Oxide Sampling
Covington, GA

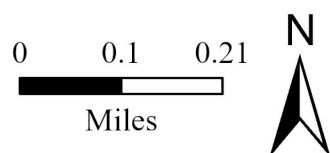
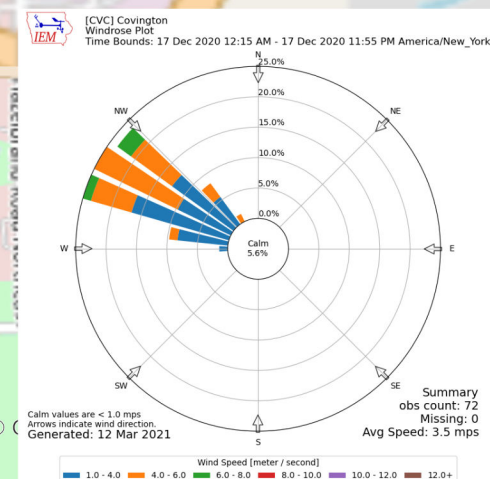
12/05/2020
 Sampled By: Georgia Environmental Protection Division
 Analyzed By: Eastern Research Group



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

Ethylene Oxide Sampling
 Covington, GA

12/11/2020
 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

12/17/2020
Sampled By: Georgia Environmental Protection Division
Analyzed By: Eastern Research Group