

September 16, 2022

MEMORANDUM

To: Karen Hays, Air Branch Chief *KH*

Through: James Boylan, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: Covington July 09-August 14, 2021 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected during the period of July 09-August 14, 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 samples listed as "AA" indicate a sample pressure was out of limits. 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 "AF" indicate the samples were scheduled but not collected. The Qualifier code of "D-F" was given by ERG to indicate that the duplicate exceeds Data Quality Objectives (DQO) criteria. No samples were taken at location C1, C6, C8, or C9 during this period. As of June 1, 2021, sampling frequency was reduced to once every 12 days. Sampling was discontinued at site C5 on July 31, 2021.

Location	Date	Qualifier	EtO Concentration (ug/m ³)
C2	07/09/2021		AF
C2	07/15/2021	2	0.12
C2 QA	07/15/2021	2	0.11
C2	07/21/2021		AF
C2	07/27/2021	2	0.96
C2	08/02/2021		AA
C2	08/14/2021	D-F, LK	2.38
C2 QA	08/14/2021	D-F, LK, 2	0.59
C3	07/09/2021		AF
C3	07/15/2021	2	0.24
C3	07/21/2021		AF
C3	07/27/2021	2	0.46
C3	08/02/2021		0.12

Location		Date		Qualifier		EtO Concentration (ug/m ³)
C3		08/14/2021				0.23
C4		07/09/2021				AF
C4		07/15/2021				AF
C4		07/21/2021				AF
C4		07/27/2021				AF
C4		08/02/2021				AF
C4		08/14/2021				AF
C5		07/09/2021				AF
C5		07/15/2021				0.14
C5		07/21/2021				AF
C5		07/27/2021				0.21
C7		07/27/2021		2		0.22

If you have any questions, please let me know.

DGO/do



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

October 04, 2021

Ms. Jaime Gore
GA Ambient Monitoring Program
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 07/29/21 10:50 through 09/01/21 12:20.

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

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.



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: 10/04/21 13:48
SUBMITTED: 07/29/21 to 09/01/21
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	1072936-01	Air	07/15/21 23:59	07/29/21 10:50
C2-QA	1072936-02	Air	07/15/21 23:59	07/29/21 10:50
C3	1072936-03	Air	07/15/21 23:59	07/29/21 10:50
C5	1072936-04	Air	07/15/21 23:59	07/29/21 10:50
Covington FB	1072936-05	Air	07/26/21 23:59	07/29/21 10:50
C2	1080602-01	Air	07/27/21 23:59	08/06/21 10:57
C3	1080602-02	Air	07/27/21 23:59	08/06/21 10:57
C5	1080602-03	Air	07/27/21 23:59	08/06/21 10:57
C7 - SA	1080602-04	Air	07/27/21 23:59	08/06/21 10:57
C3	1081306-02	Air	08/02/21 23:59	08/13/21 10:37
Covington FB	1090127-01	Air	08/25/21 23:59	09/01/21 12:20
C2	1090127-02	Air	08/14/21 23:59	09/01/21 12:20
C2-QA	1090127-03	Air	08/14/21 23:59	09/01/21 12:20
C3	1090127-04	Air	08/14/21 23:59	09/01/21 12:20



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REPORTED: 10/04/21 13:48

SUBMITTED: 07/29/21 to 09/01/21

AQS SITE CODE:

SITE CODE: Covington

Description: C2

Lab ID: 1072936-01

Sampled: 07/15/21 23:59

Pressure @ Receipt: 8.50 "Hg

Canister #: 110322

Received: 07/29/21 10:50

Comments:

Analyzed: 08/12/21 14:06

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	0.0636	0.12		0.0261



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SUBMITTED: 07/29/21 to 09/01/21

AQS SITE CODE:

SITE CODE: Covington

Description: C2-QA

Lab ID: 1072936-02

Sampled: 07/15/21 23:59

Pressure @ Receipt: 6.0" Hg

Canister #: 114322

Received: 07/29/21 10:50

Comments:

Analyzed: 08/12/21 16:08

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	0.0631	0.11		0.0261



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FILE #: 4222.00

REPORTED: 10/04/21 13:48

SUBMITTED: 07/29/21 to 09/01/21

AQS SITE CODE:

SITE CODE: Covington

Description: C3

Lab ID: 1072936-03

Sampled: 07/15/21 23:59

Pressure @ Receipt: 9.0" Hg

Canister #: 18876

Received: 07/29/21 10:50

Comments:

Analyzed: 08/12/21 18:09

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	0.130	0.24		0.0261



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REPORTED: 10/04/21 13:48

SUBMITTED: 07/29/21 to 09/01/21

AQS SITE CODE:

SITE CODE: Covington

Description: C5

Lab ID: 1072936-04

Sampled: 07/15/21 23:59

Pressure @ Receipt: 7.00" Hg

Canister #: 114340

Received: 07/29/21 10:50

Comments:

Analyzed: 08/12/21 19:10

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	0.0770	0.14		0.0261



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FILE #: 4222.00

REPORTED: 10/04/21 13:48

SUBMITTED: 07/29/21 to 09/01/21

AQS SITE CODE:

SITE CODE: Covington

Description: Covington FB

Lab ID: 1072936-05

Sampled: 07/26/21 23:59

Pressure @ Receipt: 30.0" Hg

Canister #: 114386

Received: 07/29/21 10:50

Comments: Field Blank

Analyzed: 08/16/21 17:45

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/m³</u>		<u>ppbv</u>
Ethylene oxide	ND	ND	U	0.0261



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FILE #: 4222.00

REPORTED: 10/04/21 13:48

SUBMITTED: 07/29/21 to 09/01/21

AQS SITE CODE:

SITE CODE: Covington

Description: C2

Lab ID: 1080602-01

Sampled: 07/27/21 23:59

Pressure @ Receipt: 9.00 "Hg

Canister #: A21012

Received: 08/06/21 10:57

Comments:

Analyzed: 08/17/21 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	0.530	0.96		0.0261



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FILE #: 4222.00

REPORTED: 10/04/21 13:48

SUBMITTED: 07/29/21 to 09/01/21

AQS SITE CODE:

SITE CODE: Covington

Description: C3

Lab ID: 1080602-02

Sampled: 07/27/21 23:59

Pressure @ Receipt: 9.50" Hg

Canister #: 35160

Received: 08/06/21 10:57

Comments:

Analyzed: 08/17/21 04:51

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	0.255	0.46		0.0261



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FILE #: 4222.00

REPORTED: 10/04/21 13:48

SUBMITTED: 07/29/21 to 09/01/21

AQS SITE CODE:

SITE CODE: Covington

Description: C5

Lab ID: 1080602-03

Sampled: 07/27/21 23:59

Pressure @ Receipt: 6.00" Hg

Canister #: 18832

Received: 08/06/21 10:57

Comments:

Analyzed: 08/19/21 18:51

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	0.116	0.21		0.0261



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FILE #: 4222.00

REPORTED: 10/04/21 13:48

SUBMITTED: 07/29/21 to 09/01/21

AQS SITE CODE:

SITE CODE: Covington

Description: C7 - SA

Lab ID: 1080602-04

Sampled: 07/27/21 23:59

Pressure @ Receipt: 12.00" Hg

Canister #: 19642

Received: 08/06/21 10:57

Comments:

Analyzed: 08/17/21 06:52

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	0.119	0.22		0.0261



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FILE #: 4222.00

REPORTED: 10/04/21 13:48

SUBMITTED: 07/29/21 to 09/01/21

AQS SITE CODE:

SITE CODE: Covington

Description: C3

Lab ID: 1081306-02

Sampled: 08/02/21 23:59

Pressure @ Receipt: 5.50" Hg

Canister #: 19283

Received: 08/13/21 10:37

Comments:

Analyzed: 08/20/21 06:58

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	0.0681	0.12		0.0261



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FILE #: 4222.00

REPORTED: 10/04/21 13:48

SUBMITTED: 07/29/21 to 09/01/21

AQS SITE CODE:

SITE CODE: Covington

Description: Covington FB

Lab ID: 1090127-01

Sampled: 08/25/21 23:59

Pressure @ Receipt: 27.5" Hg

Canister #: CLS647

Received: 09/01/21 12:20

Comments: Field Blank

Analyzed: 09/15/21 18:50

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	0.0261



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FILE #: 4222.00

REPORTED: 10/04/21 13:48

SUBMITTED: 07/29/21 to 09/01/21

AQS SITE CODE:

SITE CODE: Covington

Description: C2

Lab ID: 1090127-02

Sampled: 08/14/21 23:59

Pressure @ Receipt: 5.50 "Hg

Canister #: SAT058

Received: 09/01/21 12:20

Comments:

Analyzed: 09/03/21 00:42

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/m³</u>		<u>ppbv</u>
Ethylene oxide	1.32	2.38	D-F, LK	0.0261



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FILE #: 4222.00

REPORTED: 10/04/21 13:48

SUBMITTED: 07/29/21 to 09/01/21

AQS SITE CODE:

SITE CODE: Covington

Description: C2-QA

Lab ID: 1090127-03

Sampled: 08/14/21 23:59

Pressure @ Receipt: 11.50" Hg

Canister #: A21032

Received: 09/01/21 12:20

Comments:

Analyzed: 09/03/21 02:45

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/m³</u>		<u>ppbv</u>
Ethylene oxide	0.326	0.59	D-F, LK	0.0261



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FILE #: 4222.00

REPORTED: 10/04/21 13:48

SUBMITTED: 07/29/21 to 09/01/21

AQS SITE CODE:

SITE CODE: Covington

Description: C3

Lab ID: 1090127-04

Sampled: 08/14/21 23:59

Pressure @ Receipt: 5.00" Hg

Canister #: A21074

Received: 09/01/21 12:20

Comments:

Analyzed: 09/03/21 05:50

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	0.126	0.23		0.0261



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REPORTED: 10/04/21 13:48
SUBMITTED: 07/29/21 to 09/01/21
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 B1H1105 - Summa Canister Prep

Blank (B1H1105-BLK1)

Prepared: 08/11/21 Analyzed: 08/12/21

Ethylene oxide	ND	ppbv				U
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Duplicate (B1H1105-DUP1)

Source: 1072936-01

Prepared: 07/15/21 Analyzed: 08/12/21

Ethylene oxide	0.0715	ppbv	0.06	11.7	25	
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Duplicate (B1H1105-DUP2)

Source: 1072936-02

Prepared: 07/15/21 Analyzed: 08/12/21

Ethylene oxide	0.0632	ppbv	0.06	0.158	25	
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Batch B1H1609 - Summa Canister Prep

Blank (B1H1609-BLK1)

Prepared & Analyzed: 08/16/21

Ethylene oxide	ND	ppbv				U
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Batch B1H1907 - Summa Canister Prep

Blank (B1H1907-BLK1)

Prepared & Analyzed: 08/19/21

Ethylene oxide	ND	ppbv				U
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Duplicate (B1H1907-DUP1)

Source: 1080602-03

Prepared: 07/27/21 Analyzed: 08/19/21

Ethylene oxide	0.120	ppbv	0.12	3.04	25	
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Batch B1I0203 - Summa Canister Prep

Blank (B1I0203-BLK1)

Prepared & Analyzed: 09/02/21

Ethylene oxide	ND	ppbv				U
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Duplicate (B1I0203-DUP4)

Source: 1090127-02

Prepared: 08/14/21 Analyzed: 09/03/21

Ethylene oxide	1.28	ppbv	1.32	2.93	25	
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Duplicate (B1I0203-DUP5)

Source: 1090127-03

Prepared: 08/14/21 Analyzed: 09/03/21

Ethylene oxide	0.334	ppbv	0.33	2.36	25	
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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 2108032

Calibration Check (2108032-CCV1)

Prepared & Analyzed: 08/12/21

Ethylene oxide	2.86	ppbv	14.2	30.00
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Sequence 2108043

Calibration Check (2108043-CCV1)

Prepared & Analyzed: 08/16/21

Ethylene oxide	2.65	ppbv	6.1	30.00
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Sequence 2108059

Calibration Check (2108059-CCV1)

Prepared & Analyzed: 08/19/21

Ethylene oxide	2.40	ppbv	-0.6	30.00
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Sequence 2109010

Calibration Check (2109010-CCV1)

Prepared & Analyzed: 09/02/21

Ethylene oxide	2.68	ppbv	6.8	30.00
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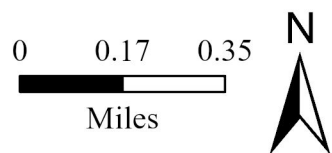
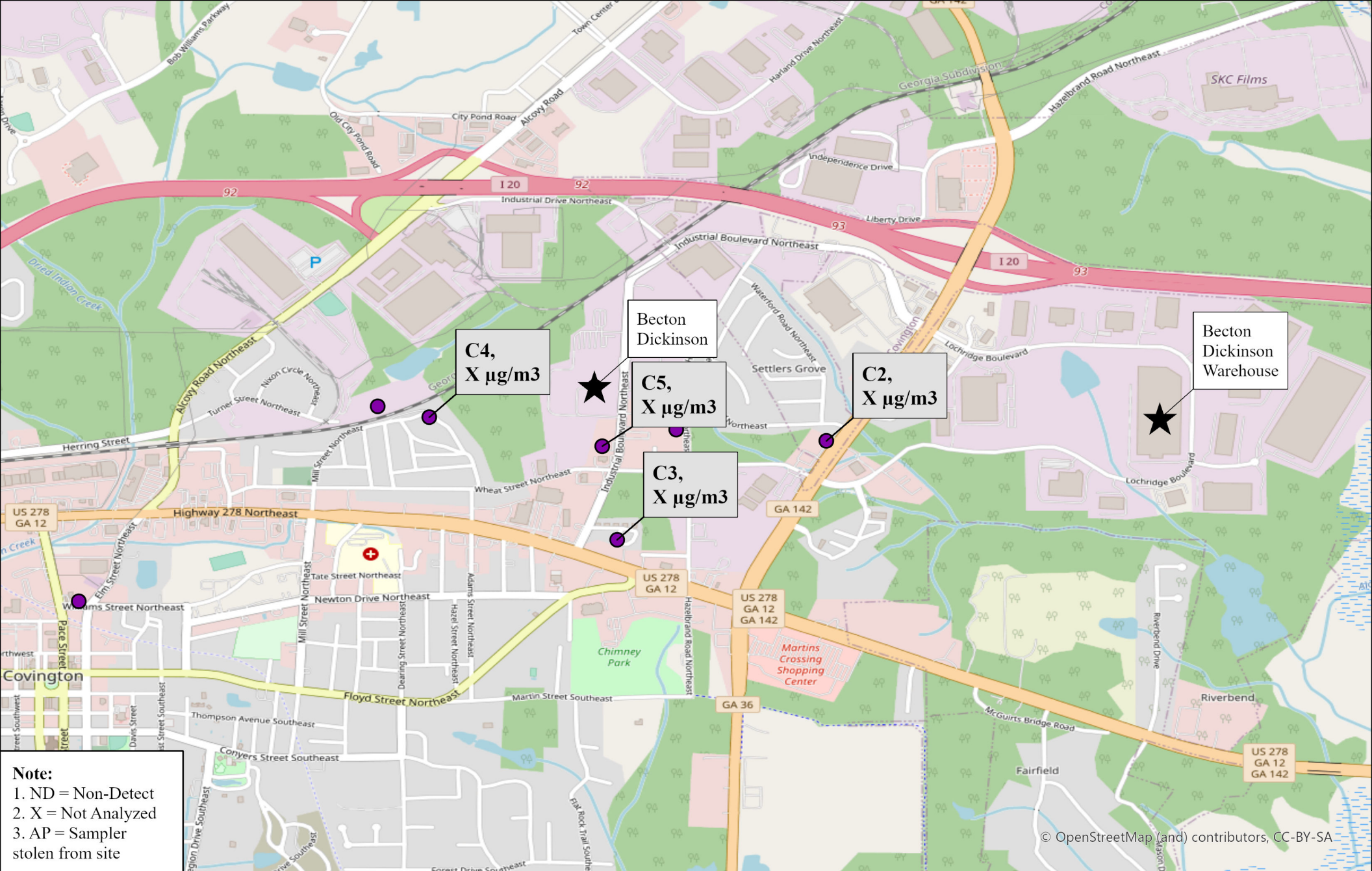
U.S. Environmental Protection Agency, Region 4
4244 International Pkwy, Suite 120
Atlanta, GA 30354
ATTN: Ms. Jaime Gore
PHONE: (404) 362-4912 **FAX:** (919) 541-0516

FILE #: 4222.00
REPORTED: 10/04/21 13:48
SUBMITTED: 07/29/21 to 09/01/21
AQS SITE CODE:
SITE CODE: Covington

Notes and Definitions

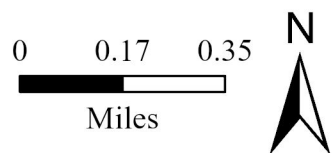
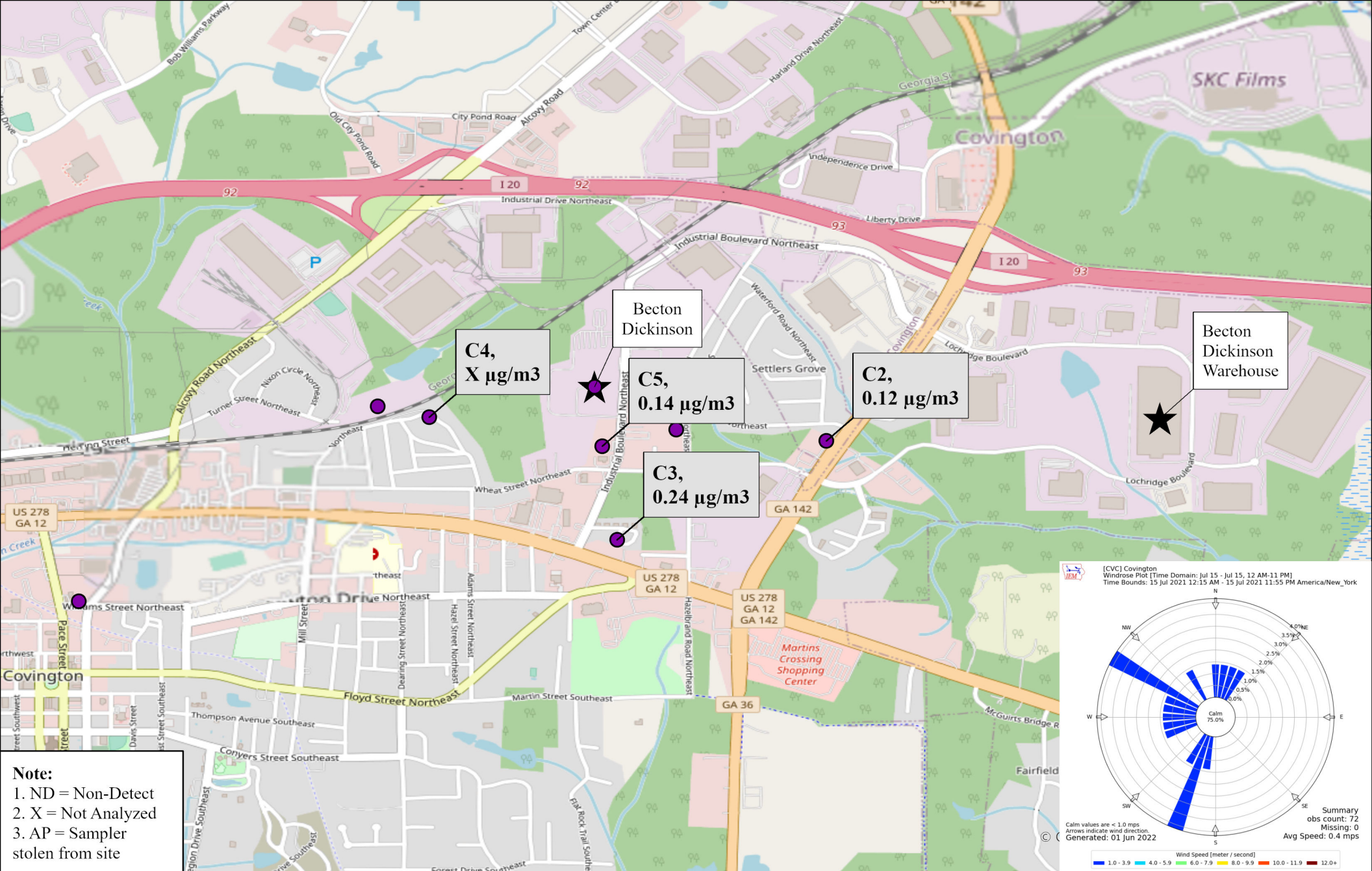
U	Under Detection Limit
D-F	Duplicate exceeds DQO criteria.
ND	Analyte NOT DETECTED
NR	Not Reported
MDL	Method Detection Limit
RPD	Relative Percent Difference
LK	Analyte identified; Reported value may be biased high

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.



Ethylene Oxide Sampling
Newton County, GA

July 9, 2021
Sampled By: Georgia Environmental Protection Division
Analyzed By: Eastern Research Group



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

Ethylene Oxide Sampling
 Newton County, GA

July 15, 2021

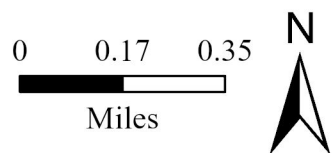
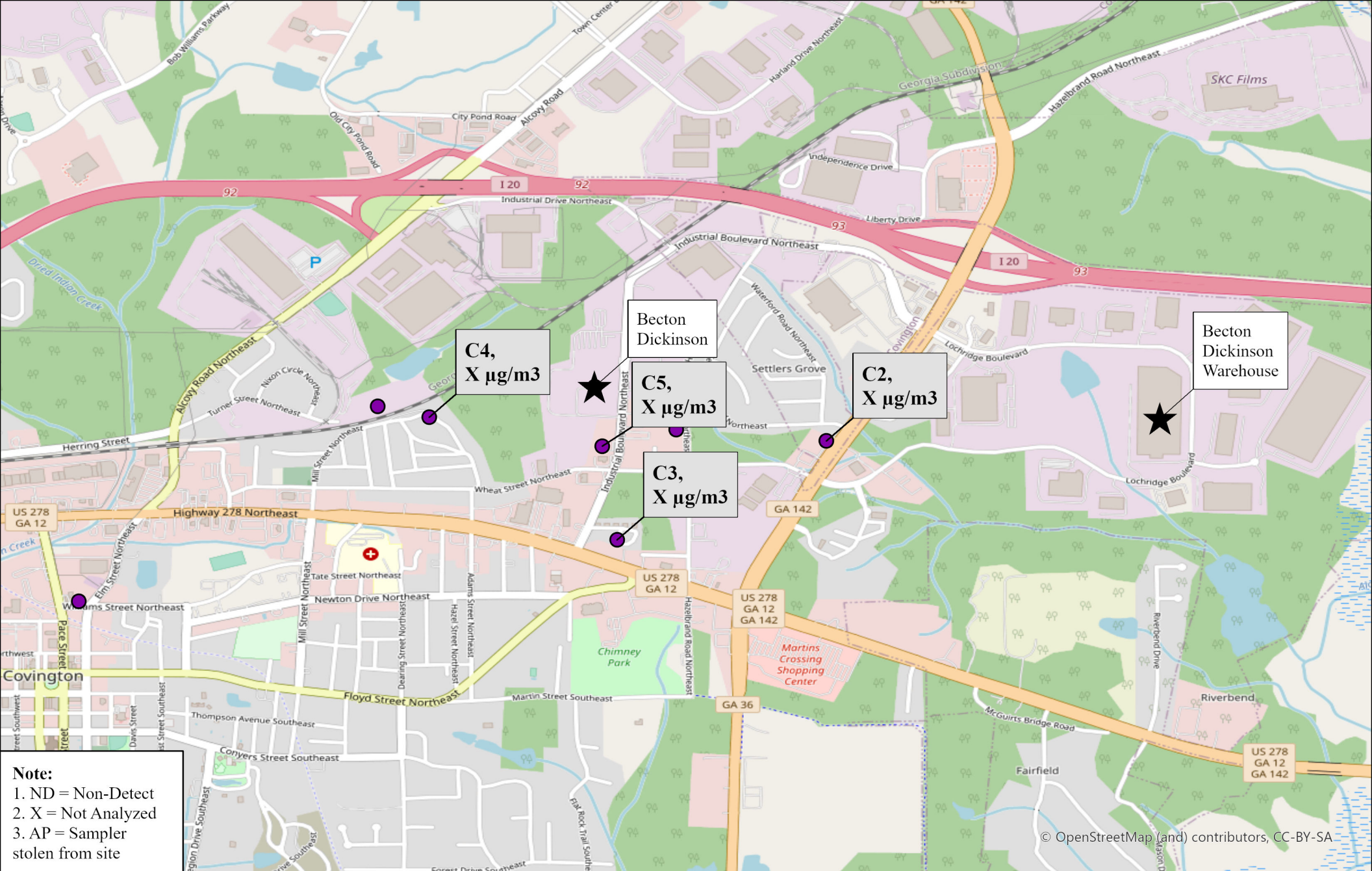
Sampled By: Georgia Environmental Protection Division

Analyzed By: Eastern Research Group



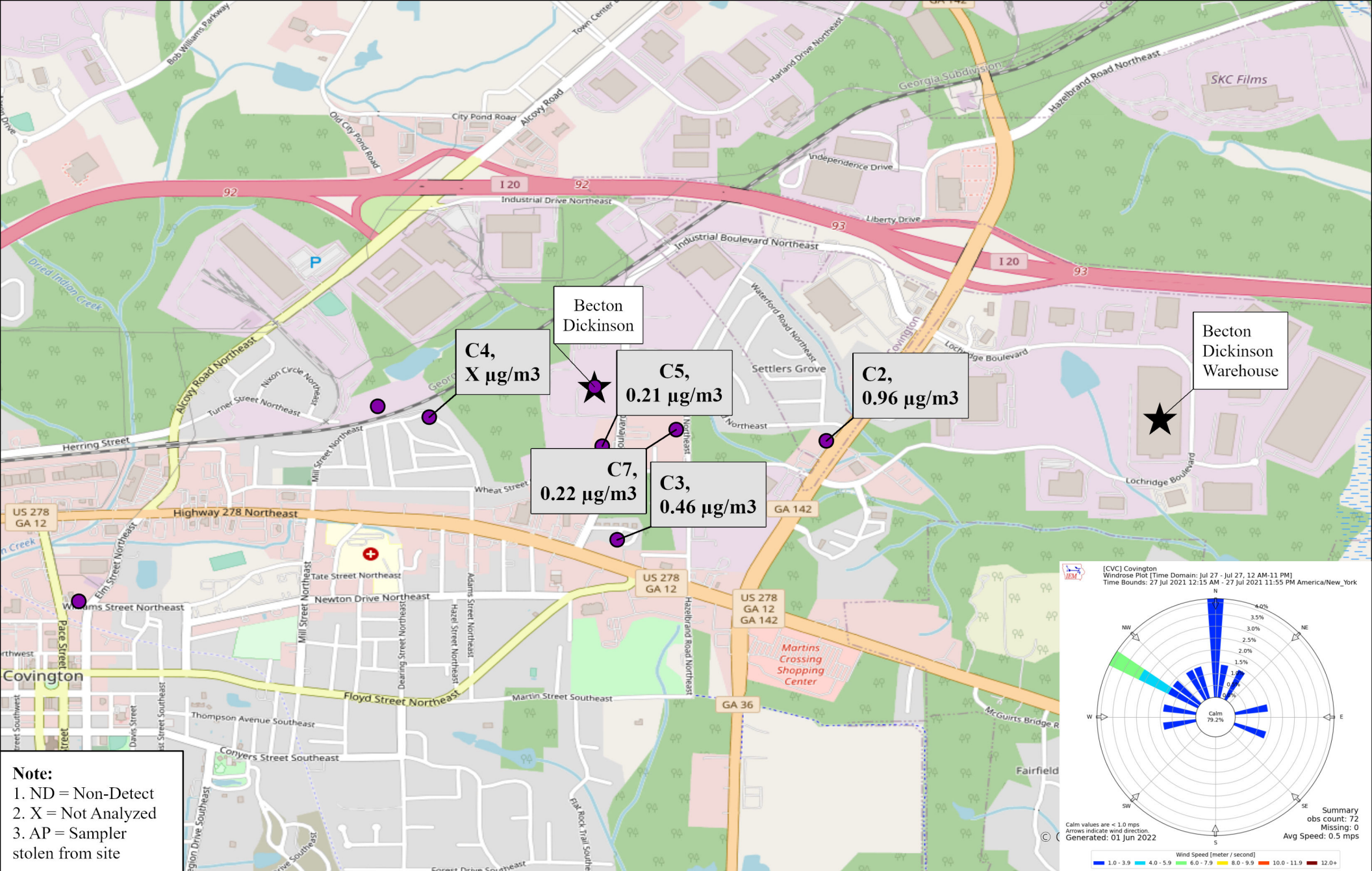
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Ethylene Oxide Sampling
Newton County, GA

July 21, 2021
Sampled By: Georgia Environmental Protection Division
Analyzed By: Eastern Research Group



0 0.17 0.35
 Miles



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

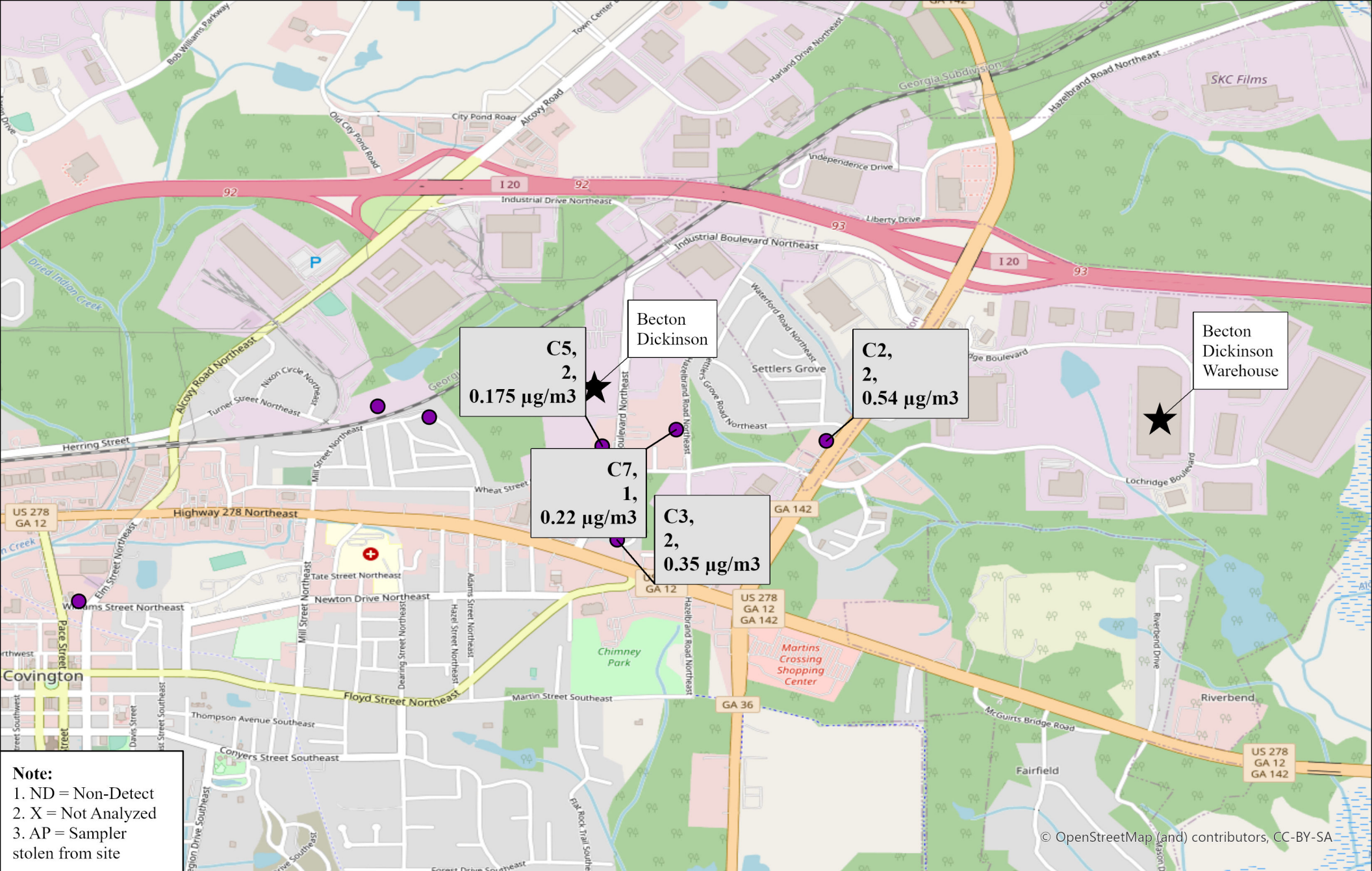
Ethylene Oxide Sampling
 Newton County, GA

July 27, 2021
 Sampled By: Georgia Environmental Protection Division
 Analyzed By: Eastern Research Group

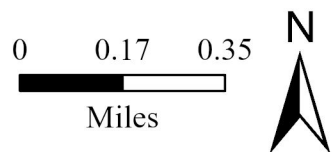


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ENVIRONMENTAL PROTECTION DIVISION

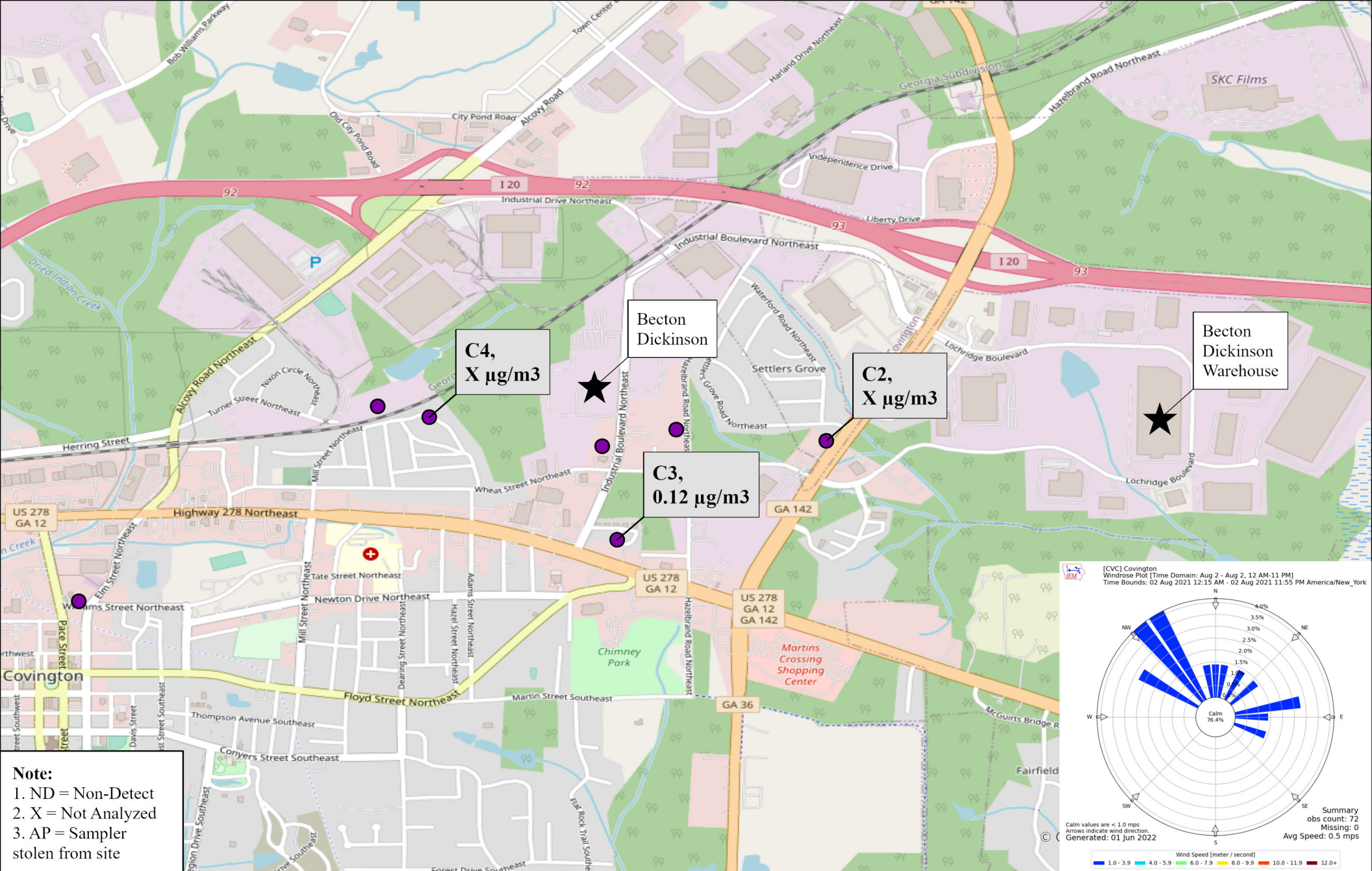


Ethylene Oxide Sampling
Newton County, GA



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

July 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



0 0.17 0.35
Miles



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

Ethylene Oxide Sampling
Newton County, GA

August 2, 2021

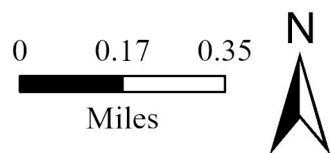
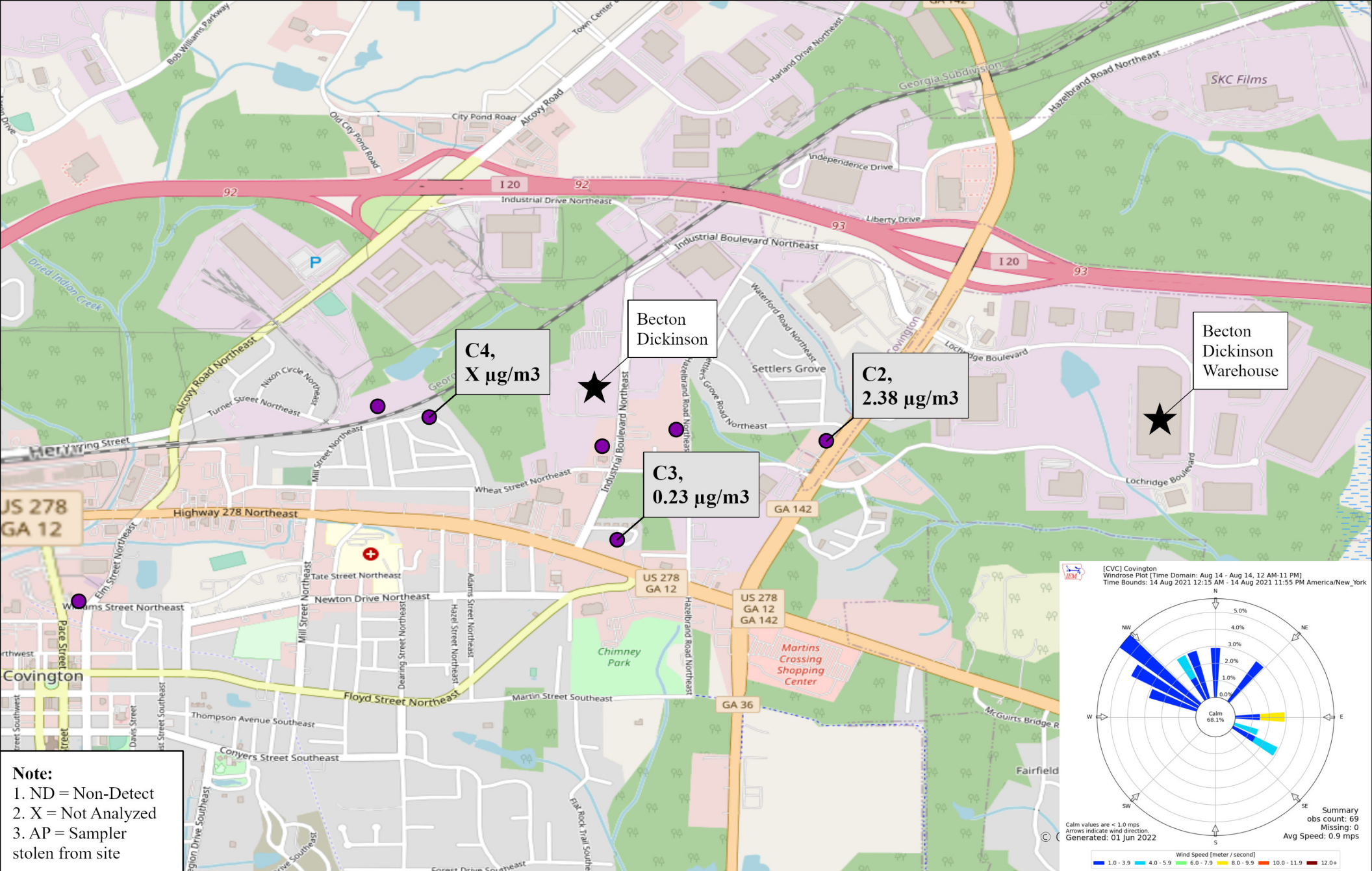
Sampled By: Georgia Environmental Protection Division

Analyzed By: Eastern Research Group



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

Ethylene Oxide Sampling
Newton County, GA

August 14, 2021
 Sampled By: Georgia Environmental Protection Division
 Analyzed By: Eastern Research Group