GEORGIA
DEPARTMENT OF NATURAL RESOURCES
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

October 13, 2020

MEMORANDUM

To: Karen Hays, Air Branch Chief KH

Through: Dika Kuoh, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: Covington July 26- August 13, 2020 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected during the period of July 26 - August 13, 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 samples listed as AF indicate that the sample was 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, C7, C8, or C9 during this period.

Location		Date		Qualifier		EtO Concentration (ug/m^3)
C2		07/26/2020				13.8
C2		08/01/2020		LK		0.20
C2		08/07/2020				0.19
C2		08/13/2020				AF
C3		07/26/2020				0.53
C3		08/01/2020		LK		0.35
C3		08/07/2020				0.39
C3		08/13/2020				AF
C4		07/26/2020				1.51
C4		08/01/2020		LK		0.99
C4		08/07/2020		D-F		0.64
C4QA		08/07/2020		D-F		0.29
C4		08/13/2020				0.17
C5		07/26/2020				0.64
C5		08/01/2020				1.21

Location		Date		Qualifier		EtO Concentration (ug/m^3)
C5		08/07/2020				1.18
C5		08/13/2020				AF

If you have any questions, please let me know.

DGO/do

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

September 11, 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 08/05/20 14:25 through 08/21/20 12:56.

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.

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: 09/11/20 13:13
SUBMITTED: 08/05/20 to 08/21/20
AQS SITE CODE:
SITE CODE: Covington

ANALYTICAL REPORT FOR SAMPLES

SampleName	LabNumber	Matrix	Sampled	Received
C2	0080534-01	Air	07/26/20 23:59	08/05/20 14:25
C3	0080534-02	Air	07/26/20 23:59	08/05/20 14:25
C4	0080534-03	Air	07/26/20 23:59	08/05/20 14:25
C5	0080618-01	Air	07/26/20 23:59	08/06/20 11:27
C3	0081325-01	Air	08/07/20 23:59	08/13/20 11:51
C4 QA	0081325-02	Air	08/07/20 23:59	08/13/20 11:51
C2	0081410-01	Air	08/01/20 23:59	08/14/20 11:57
C3	0081410-02	Air	08/01/20 23:59	08/14/20 11:57
C4	0081410-03	Air	08/01/20 23:59	08/14/20 11:57
C5	0081410-04	Air	08/01/20 23:59	08/14/20 11:57
C2	0081410-05	Air	08/07/20 23:59	08/14/20 11:57
C4	0081410-06	Air	08/07/20 23:59	08/14/20 11:57
C5	0081410-07	Air	08/07/20 23:59	08/14/20 11:57
C4	0082118-01	Air	08/13/20 23:59	08/21/20 12:56

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REPORTED: 09/11/20 13:13
SUBMITTED: 08/05/20 to 08/21/20
AQS SITE CODE:
SITE CODE: Covington

Description: C2
Pressure @ Receipt: 3.00" Hg
Comments:

Lab ID: 0080534-01
Canister #: 35158

Sampled: 07/26/20 23:59
Received: 08/05/20 14:25
Analyzed: 08/21/20 02:28

Air Toxics by EPA Compendium Method TO-15

Analyte	Results ppbv	Results ug/m³	Flag	MDL ppbv
Ethylene oxide	7.67	13.80		0.0285

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FILE #: 4222.00
REPORTED: 09/11/20 13:13
SUBMITTED: 08/05/20 to 08/21/20
AQS SITE CODE:
SITE CODE: Covington

Description: C3
Pressure @ Receipt: 4.50" Hg
Comments:

Lab ID: 0080534-02
Canister #: SAT015

Sampled: 07/26/20 23:59
Received: 08/05/20 14:25
Analyzed: 08/20/20 22:48

Air Toxics by EPA Compendium Method TO-15

Analyte	Results ppbv	Results ug/m³	Flag	MDL ppbv
Ethylene oxide	0.295	0.53		0.0285

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FILE #: 4222.00
REPORTED: 09/11/20 13:13
SUBMITTED: 08/05/20 to 08/21/20
AQS SITE CODE:
SITE CODE: Covington

Description: C4
Pressure @ Receipt: 3.00" Hg
Comments:

Lab ID: 0080534-03
Canister #: A21086

Sampled: 07/26/20 23:59
Received: 08/05/20 14:25
Analyzed: 08/21/20 01:33

Air Toxics by EPA Compendium Method TO-15

Analyte	Results ppbv	Results ug/m³	Flag	MDL ppbv
Ethylene oxide	0.838	1.51		0.0285

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FILE #: 4222.00
REPORTED: 09/11/20 13:13
SUBMITTED: 08/05/20 to 08/21/20
AQS SITE CODE:
SITE CODE: Covington

Description: C5
Pressure @ Receipt: 3.50" Hg
Comments:

Lab ID: 0080618-01
Canister #: A21022

Sampled: 07/26/20 23:59
Received: 08/06/20 11:27
Analyzed: 08/21/20 08:52

Air Toxics by EPA Compendium Method TO-15

Analyte	Results ppbv	Results ug/m³	Flag	MDL ppbv
Ethylene oxide	0.355	0.64		0.0285

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FILE #: 4222.00
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SUBMITTED: 08/05/20 to 08/21/20
AQS SITE CODE:
SITE CODE: Covington

Description: C3
Pressure @ Receipt: 3.50" Hg
Comments:

Lab ID: 0081325-01
Canister #: SAT100

Sampled: 08/07/20 23:59
Received: 08/13/20 11:51
Analyzed: 09/02/20 07:13

Air Toxics by EPA Compendium Method TO-15

Analyte	Results ppbv	Results ug/m³	Flag	MDL ppbv
Ethylene oxide	0.213	0.39		0.0285

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FILE #: 4222.00
REPORTED: 09/11/20 13:13
SUBMITTED: 08/05/20 to 08/21/20
AQS SITE CODE:
SITE CODE: Covington

Description: C4 QA
Pressure @ Receipt: 3.50" Hg
Comments:

Lab ID: 0081325-02
Canister #: 19641

Sampled: 08/07/20 23:59
Received: 08/13/20 11:51
Analyzed: 09/02/20 02:39

Air Toxics by EPA Compendium Method TO-15

Analyte	Results ppbv	Results ug/m³	Flag	MDL ppbv
Ethylene oxide	**0.162**	**0.29**	D-F	**0.0285**

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FILE #: 4222.00
REPORTED: 09/11/20 13:13
SUBMITTED: 08/05/20 to 08/21/20
AQS SITE CODE:
SITE CODE: Covington

Description: C2 **Lab ID:** 0081410-01 **Sampled:** 08/01/20 23:59
Pressure @ Receipt: 0.00" Hg **Canister #:** SAT053 **Received:** 08/14/20 11:57
Comments: Received at ambient pressure **Analyzed:** 08/29/20 02:19

Air Toxics by EPA Compendium Method TO-15

	Results			MDL
Analyte	**ppbv**	**ug/m³**	**Flag**	**ppbv**
Ethylene oxide	**0.110**	**0.20**	LK	**0.0285**

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FILE #: 4222.00
REPORTED: 09/11/20 13:13
SUBMITTED: 08/05/20 to 08/21/20
AQS SITE CODE:
SITE CODE: Covington

Description: C3
Pressure @ Receipt: 4.00" Hg
Comments:

Lab ID: 0081410-02
Canister #: SAT149

Sampled: 08/01/20 23:59
Received: 08/14/20 11:57
Analyzed: 08/29/20 03:24

Air Toxics by EPA Compendium Method TO-15

Analyte	Results ppbv	Results ug/m³	Flag	MDL ppbv
Ethylene oxide	**0.196**	**0.35**	LK	**0.0285**

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FILE #: 4222.00
REPORTED: 09/11/20 13:13
SUBMITTED: 08/05/20 to 08/21/20
AQS SITE CODE:
SITE CODE: Covington

Description: C4
Pressure @ Receipt: 5.50" Hg
Comments:

Lab ID: 0081410-03
Canister #: 5009

Sampled: 08/01/20 23:59
Received: 08/14/20 11:57
Analyzed: 08/29/20 04:28

Air Toxics by EPA Compendium Method TO-15

Analyte	Results ppbv	Results ug/m³	Flag	MDL ppbv
Ethylene oxide	**0.546**	**0.99**	LK	**0.0285**

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FILE #: 4222.00
REPORTED: 09/11/20 13:13
SUBMITTED: 08/05/20 to 08/21/20
AQS SITE CODE:
SITE CODE: Covington

Description: C5 **Lab ID:** 0081410-04 **Sampled:** 08/01/20 23:59
Pressure @ Receipt: 3.50" Hg **Canister #:** SAT038 **Received:** 08/14/20 11:57
Comments: **Analyzed:** 08/29/20 05:32

Air Toxics by EPA Compendium Method TO-15

Analyte	Results ppbv	Results ug/m³	Flag	MDL ppbv
Ethylene oxide	0.670	1.21		0.0285

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

FILE #: 4222.00
REPORTED: 09/11/20 13:13
SUBMITTED: 08/05/20 to 08/21/20
AQS SITE CODE:
SITE CODE: Covington

Description: C2 **Lab ID:** 0081410-05 **Sampled:** 08/07/20 23:59
Pressure @ Receipt: 0.00" Hg **Canister #:** 33533 **Received:** 08/14/20 11:57
Comments: Received at ambient pressure **Analyzed:** 09/01/20 23:54

Air Toxics by EPA Compendium Method TO-15

Analyte	Results ppbv	Results ug/m³	Flag	MDL ppbv
Ethylene oxide	**0.107**	**0.19**		**0.0285**

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ATTN: Ms. Jaime Gore
PHONE: (404) 362-4912 **FAX:** (919) 541-0516

FILE #: 4222.00
REPORTED: 09/11/20 13:13
SUBMITTED: 08/05/20 to 08/21/20
AQS SITE CODE:
SITE CODE: Covington

Description: C4
Pressure @ Receipt: 4.50" Hg
Comments:

Lab ID: 0081410-06
Canister #: SAT004

Sampled: 08/07/20 23:59
Received: 08/14/20 11:57
Analyzed: 09/02/20 00:49

Air Toxics by EPA Compendium Method TO-15

Analyte	Results ppbv	Results ug/m³	Flag	MDL ppbv
Ethylene oxide	**0.352**	**0.64**	D-F	**0.0285**

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FILE #: 4222.00
REPORTED: 09/11/20 13:13
SUBMITTED: 08/05/20 to 08/21/20
AQS SITE CODE:
SITE CODE: Covington

Description: C5
Pressure @ Receipt: 3.50" Hg
Comments:

Lab ID: 0081410-07
Canister #: SAT042

Sampled: 08/07/20 23:59
Received: 08/14/20 11:57
Analyzed: 09/02/20 04:28

Air Toxics by EPA Compendium Method TO-15

Analyte	Results ppbv	Results ug/m³	Flag	MDL ppbv
Ethylene oxide	0.651	1.18		0.0285

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

FILE #: 4222.00
REPORTED: 09/11/20 13:13
SUBMITTED: 08/05/20 to 08/21/20
AQS SITE CODE:
SITE CODE: Covington

Description: C4
Pressure @ Receipt: 5.50" Hg
Comments:

Lab ID: 0082118-01
Canister #: 33236

Sampled: 08/13/20 23:59
Received: 08/21/20 12:56
Analyzed: 09/03/20 04:16

Air Toxics by EPA Compendium Method TO-15

Analyte	Results ppbv	Results ug/m³	Flag	MDL ppbv
Ethylene oxide	**0.0913**	**0.17**		**0.0285**

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FILE #: 4222.00
REPORTED: 09/11/20 13:13
SUBMITTED: 08/05/20 to 08/21/20
AQS SITE CODE:
SITE CODE: Covington

Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes
Air Toxics by EPA Compendium Method TO-15 - Quality Control						
Batch B0H2009 - Summa Canister Prep						
Blank (B0H2009-BLK1)			Prepared & Analyzed: 08/20/20			
Ethylene oxide	ND	ppbv				U
Batch B0H2802 - Summa Canister Prep						
Blank (B0H2802-BLK1)			Prepared: 08/11/20 Analyzed: 08/28/20			
Ethylene oxide	ND	ppbv				U
Batch B0I0108 - Summa Canister Prep						
Blank (B0I0108-BLK1)			Prepared & Analyzed: 09/01/20			
Ethylene oxide	ND	ppbv				U
Duplicate (B0I0108-DUP3)	**Source: 0081410-06**		Prepared: 08/07/20 Analyzed: 09/02/20			
Ethylene oxide	0.358	ppbv	0.35	1.75	25	
Duplicate (B0I0108-DUP4)	**Source: 0081325-02**		Prepared: 08/07/20 Analyzed: 09/02/20			
Ethylene oxide	0.137	ppbv	0.16	17.0	25	
Batch B0I0206 - Summa Canister Prep						
Blank (B0I0206-BLK1)			Prepared & Analyzed: 09/02/20			
Ethylene oxide	ND	ppbv				U

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FILE #: 4222.00
REPORTED: 09/11/20 13:13
SUBMITTED: 08/05/20 to 08/21/20
AQS SITE CODE:
SITE CODE: Covington

Analyte	Result	Units	% Difference	Limit (%)	Notes
Air Toxics by EPA Compendium Method TO-15 - Quality Control					
Sequence 2008048					
Calibration Check (2008048-CCV1)			Prepared & Analyzed: 08/20/20		
Ethylene oxide	2.51	ppbv	0.3	30.00	
Sequence 2008066					
Calibration Check (2008066-CCV1)			Prepared & Analyzed: 08/28/20		
Ethylene oxide	2.31	ppbv	-6.7	30.00	
Sequence 2009001					
Calibration Check (2009001-CCV1)			Prepared & Analyzed: 09/01/20		
Ethylene oxide	2.22	ppbv	-11.3	30.00	
Sequence 2009005					
Calibration Check (2009005-CCV1)			Prepared & Analyzed: 09/02/20		
Ethylene oxide	2.31	ppbv	-7.5	30.00	

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AQS SITE CODE:
SITE CODE: Covington

Notes and Definitions

U	Under Detection Limit
LK	Analyte identified; Reported value may be biased high.
D-F	Duplicate exceeds DQO criteria.
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, 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.

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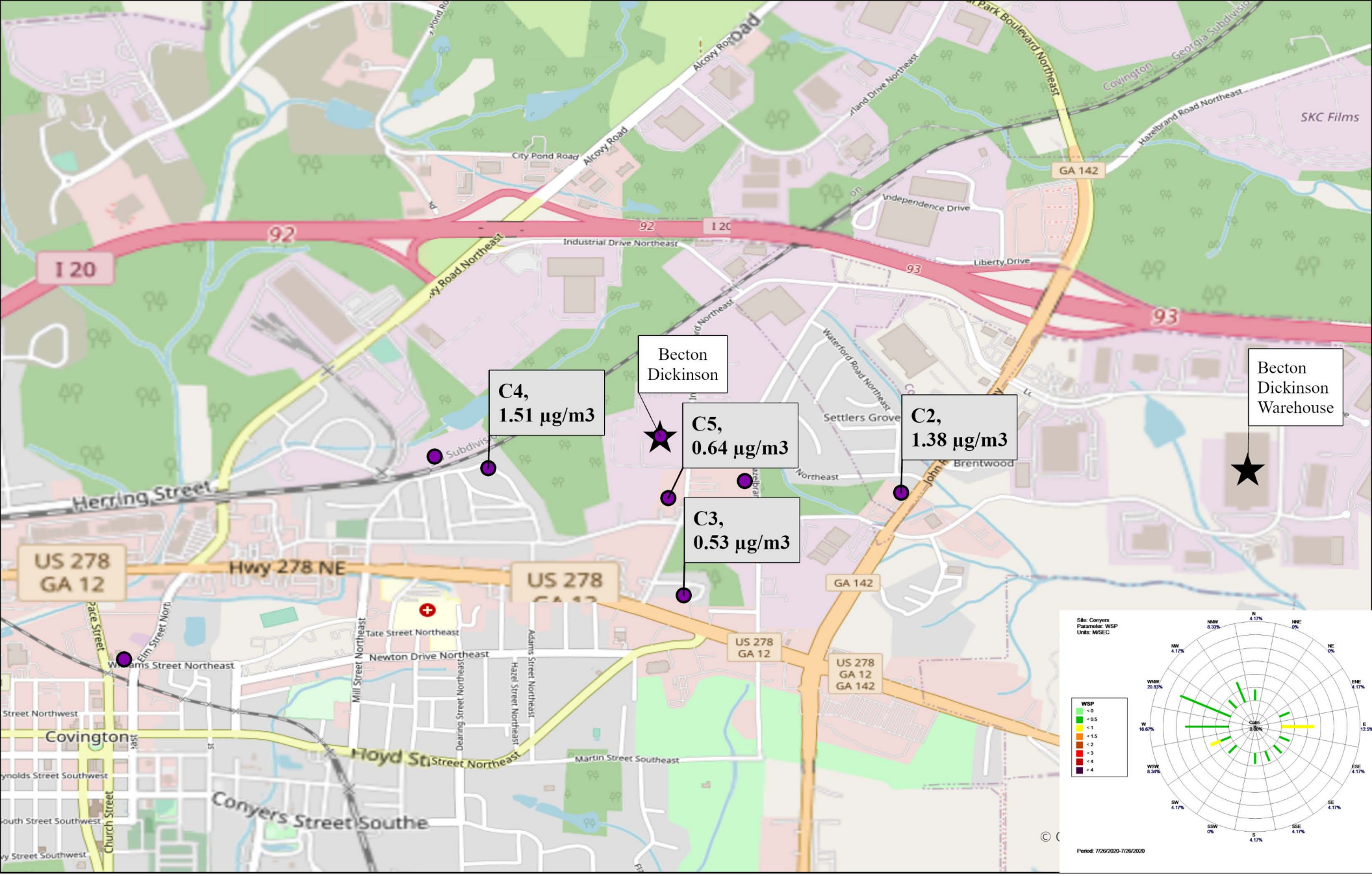


0 0.17 0.34
Miles

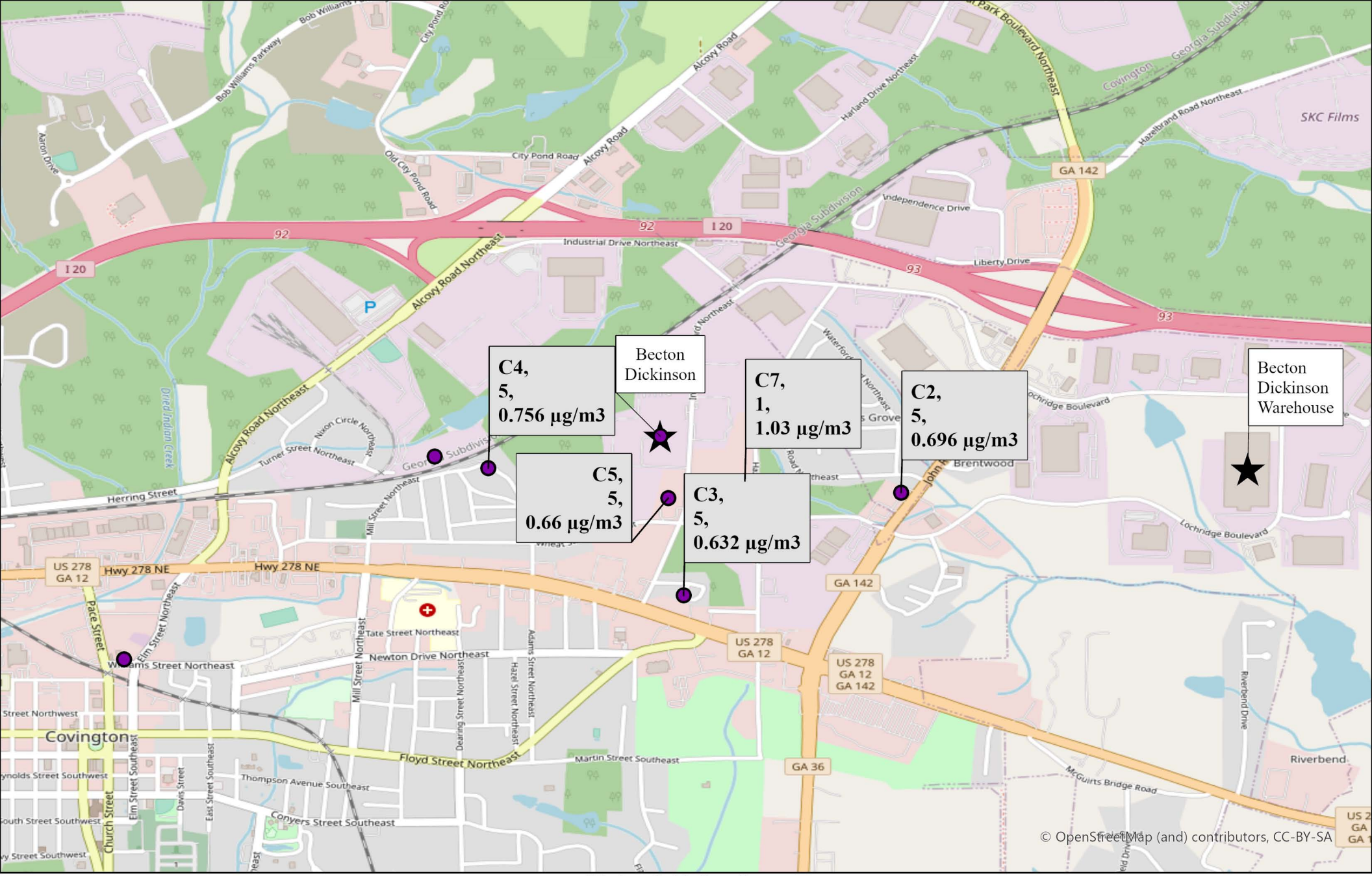
N

Site ID, Concentration (µg/m3)

Ethylene Oxide Sampling
Covington, GA

07/26/2020
Sampled By: Georgia Environmental Protection Division
Analyzed By: Eastern Research Group

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION



Ethylene Oxide Sampling
Covington, GA

0 0.17 0.34
Miles

N

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

July 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

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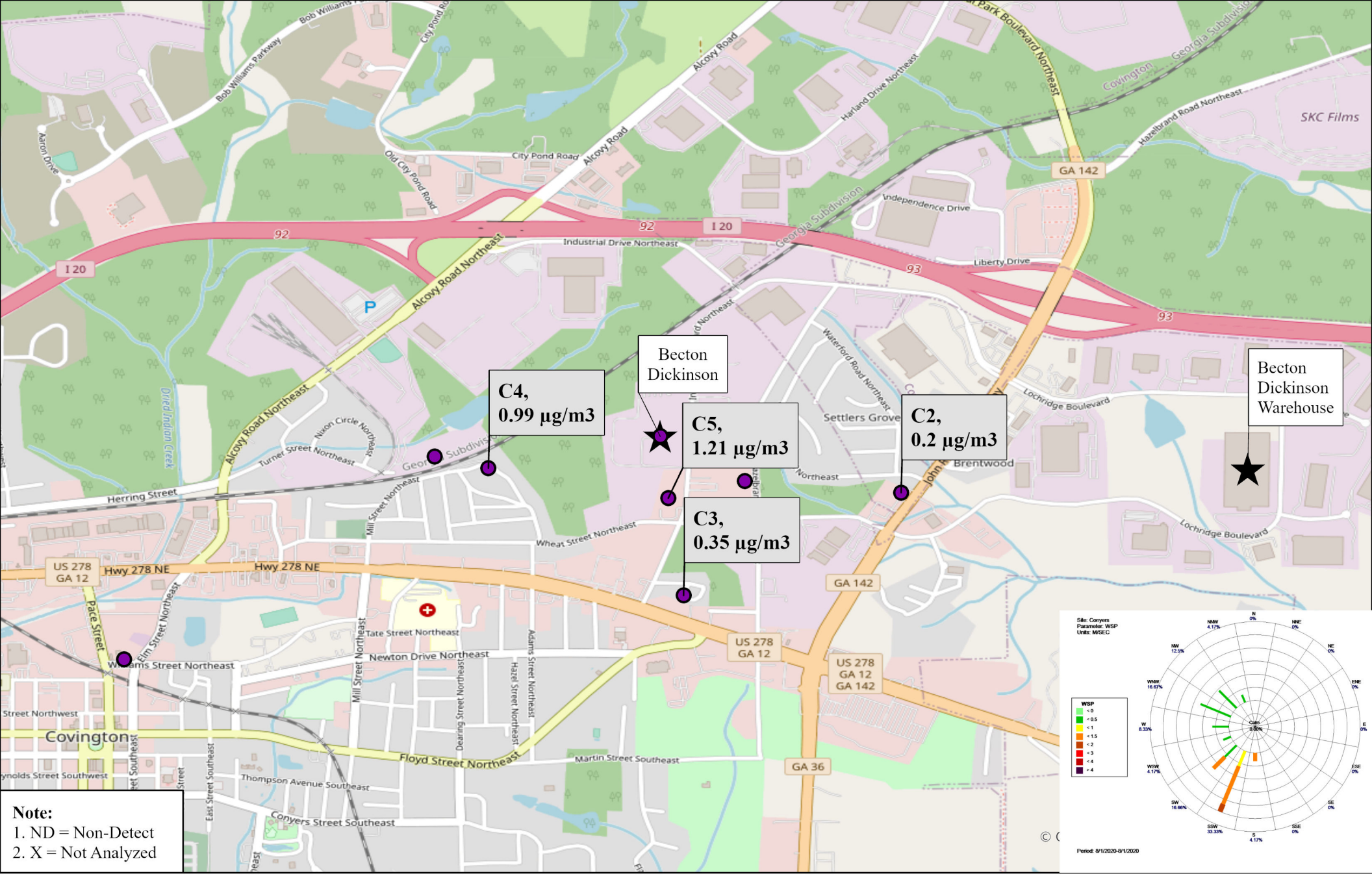
ENVIRONMENTAL PROTECTION DIVISION



0 0.17 0.34
Miles

N

Site ID, Concentration (µg/m3)

Ethylene Oxide Sampling
Covington, GA

08/01/2020
Sampled By: Georgia Environmental Protection Division
Analyzed By: Eastern Research Group

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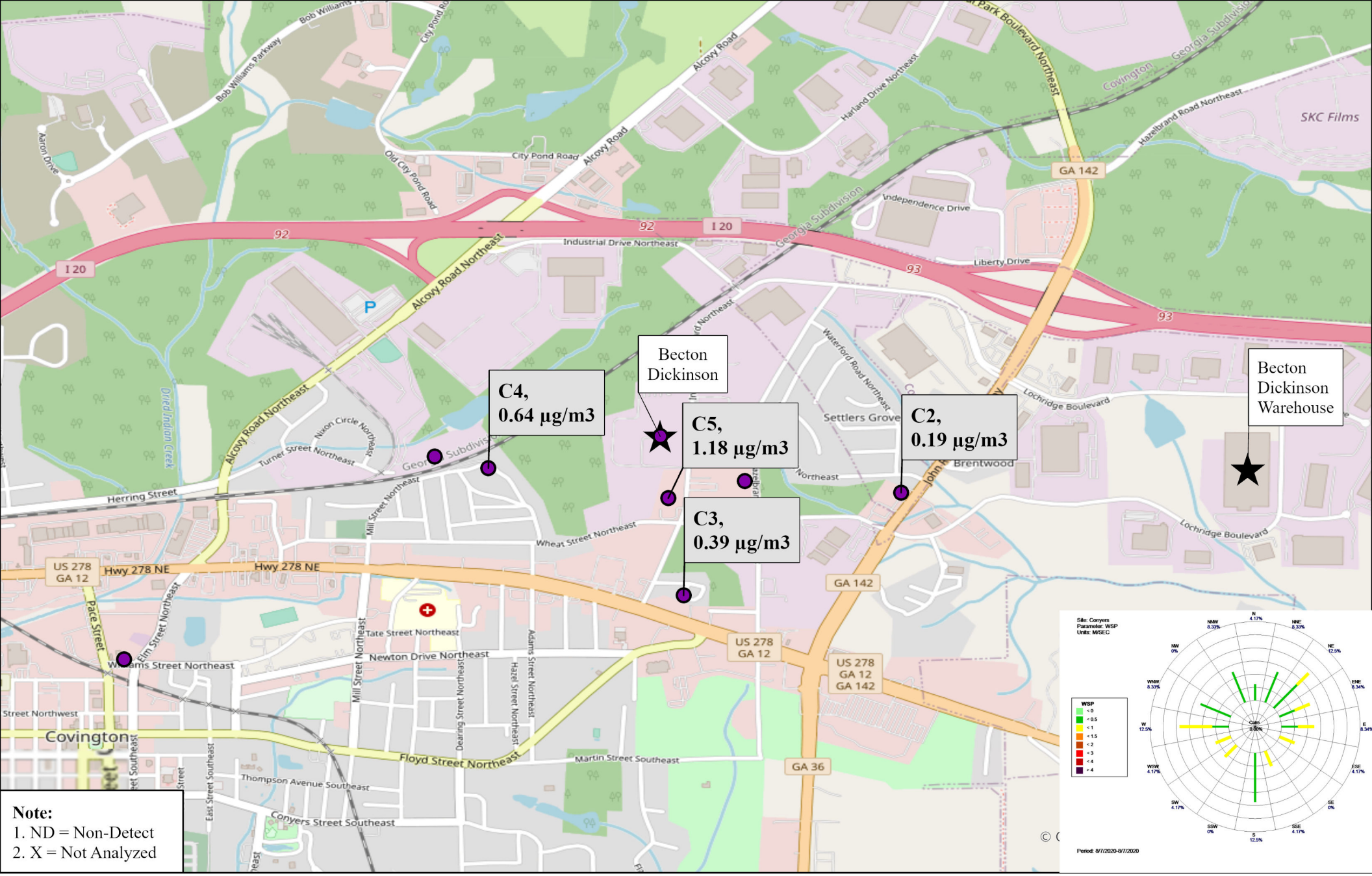
ENVIRONMENTAL PROTECTION DIVISION



0 0.17 0.34
Miles

N

Site ID, Concentration (µg/m3)

Ethylene Oxide Sampling
Covington, GA

08/07/2020
Sampled By: Georgia Environmental Protection Division
Analyzed By: Eastern Research Group

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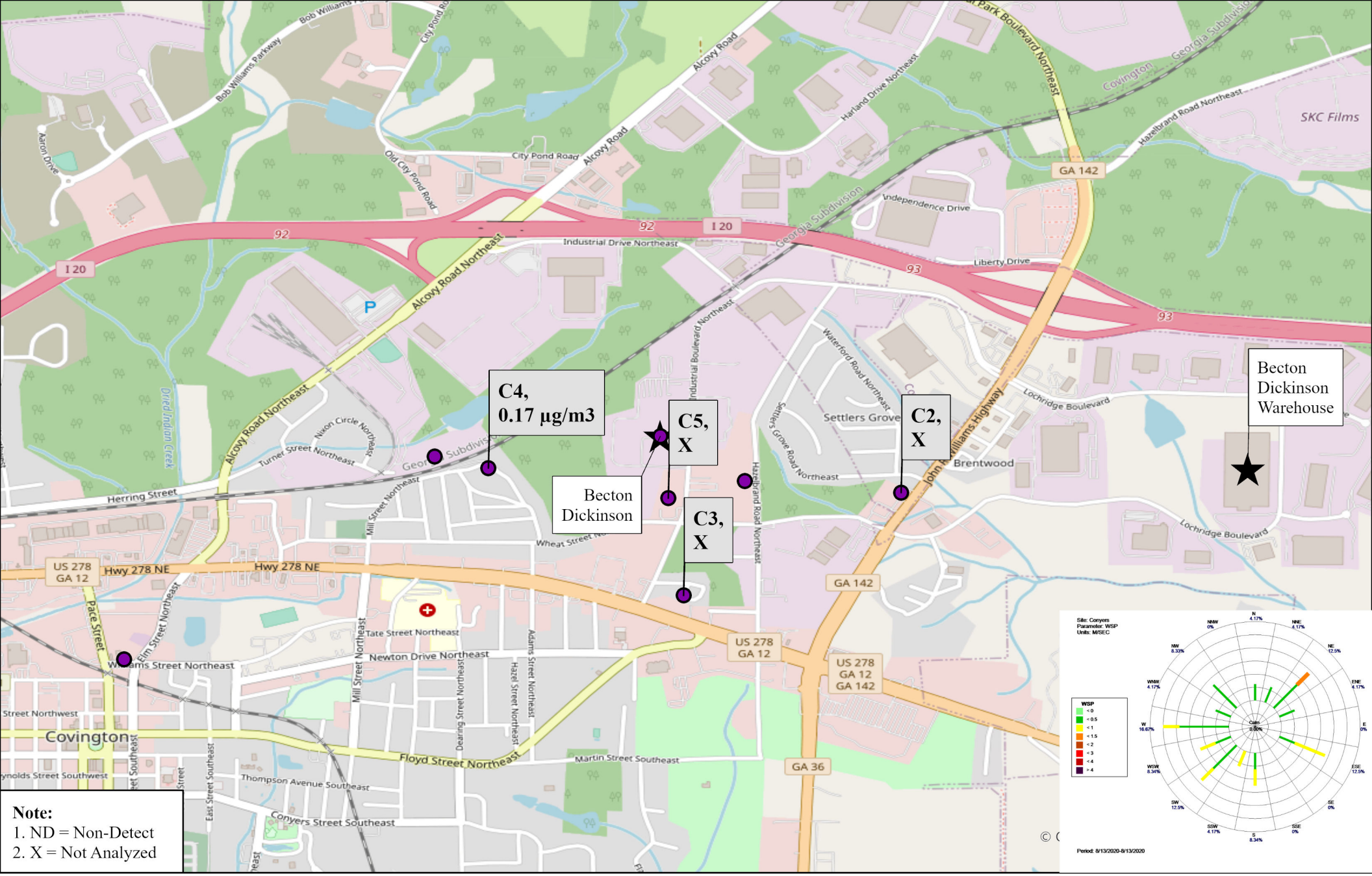

Note:
1. ND = Non-Detect
2. X = Not Analyzed

0 0.17 0.34
Miles

N

Site ID, Concentration (µg/m3)

Ethylene Oxide Sampling
Covington, GA

08/13/2020
Sampled By: Georgia Environmental Protection Division
Analyzed By: Eastern Research Group

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