

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: Cobb 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, by the Ambient Monitoring Program in the Cobb area to characterize the EtO concentration. Each of the samples were sent to Eastern Research Group (ERG) for analysis. The Qualifier code of "3" was given to samples to indicate that integrity of the field data may have been compromised. 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 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 sample listed as AL indicates that sample was voided by the operator.

Location	Date	Qualifier	EtO Concentration (ug/m ³)
S1	11/29/2020	LK	0.28
S1	12/05/2020		0.07
S1	12/11/2020	LK	0.16
S1	12/17/2020	2	0.44
S2	11/29/2020	LK, 3	0.28
S2	12/05/2020	LK, 3	0.19
S2	12/11/2020	3	0.08
S2	12/17/2020	U, 2, 3	0.05
S3	11/29/2020	LK	0.27
S3	12/05/2020	LK	0.24
S3	12/11/2020	LK	0.26
S3	12/17/2020		0.08
S4	11/29/2020		0.11
S4	12/05/2020		AL
S4	12/11/2020		0.59
S4	12/17/2020		0.17
S4 QA	12/17/2020	LK, 2	0.17

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: Cobb

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 11:00 through 12/24/20 11:14.

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 08:50

SUBMITTED: 12/04/20 to 12/24/20

AQS SITE CODE:

SITE CODE: Cobb

ANALYTICAL REPORT FOR SAMPLES

<u>SampleName</u>	<u>LabNumber</u>	<u>Matrix</u>	<u>Sampled</u>	<u>Received</u>
S1	0120410-02	Air	11/29/20 23:59	12/04/20 11:00
S2	0120410-04	Air	11/29/20 23:59	12/04/20 11:00
S3	0120410-06	Air	11/29/20 23:59	12/04/20 11:00
S4	0120410-08	Air	11/29/20 23:59	12/04/20 11:00
Cobb FB	0120410-11	Air	11/24/20 00:00	12/04/20 11:00
S1	0121638-01	Air	12/05/20 23:59	12/16/20 13:04
S2	0121638-02	Air	12/05/20 23:59	12/16/20 13:04
S3	0121638-03	Air	12/05/20 23:59	12/16/20 13:04
S1	0122325-01	Air	12/11/20 23:59	12/23/20 14:22
S2	0122325-02	Air	12/11/20 23:59	12/23/20 14:22
S3	0122325-03	Air	12/11/20 23:59	12/23/20 14:22
S4	0122325-04	Air	12/11/20 23:59	12/23/20 14:22
S1	0122408-01	Air	12/17/20 23:59	12/24/20 11:14
S2	0122408-02	Air	12/17/20 23:59	12/24/20 11:14
S3	0122408-03	Air	12/17/20 23:59	12/24/20 11:14
S4	0122408-04	Air	12/17/20 23:59	12/24/20 11:14
S4 QA	0122408-05	Air	12/17/20 23:59	12/24/20 11:14



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FILE #: 4222.00

REPORTED: 02/03/21 08:50

SUBMITTED: 12/04/20 to 12/24/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S1

Lab ID: 0120410-02

Sampled: 11/29/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: 5145

Received: 12/04/20 11:00

Comments: Received at ambient pressure

Analyzed: 12/16/20 06:30

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	0.154	0.28	LK	0.0285



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FILE #: 4222.00

REPORTED: 02/03/21 08:50

SUBMITTED: 12/04/20 to 12/24/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S2

Lab ID: 0120410-04

Sampled: 11/29/20 23:59

Pressure @ Receipt: 2.50" Hg

Canister #: 5125

Received: 12/04/20 11:00

Comments:

Analyzed: 12/17/20 01:57

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/m³</u>		<u>ppbv</u>
Ethylene oxide	0.157	0.28	LK	0.0285



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FILE #: 4222.00

REPORTED: 02/03/21 08:50

SUBMITTED: 12/04/20 to 12/24/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S3

Lab ID: 0120410-06

Sampled: 11/29/20 23:59

Pressure @ Receipt: 4.00" Hg

Canister #: 5110

Received: 12/04/20 11:00

Comments:

Analyzed: 12/17/20 02:52

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	0.147	0.27	LK	0.0285



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FILE #: 4222.00

REPORTED: 02/03/21 08:50

SUBMITTED: 12/04/20 to 12/24/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S4

Lab ID: 0120410-08

Sampled: 11/29/20 23:59

Pressure @ Receipt: 4.50" Hg

Canister #: A21074

Received: 12/04/20 11:00

Comments:

Analyzed: 12/17/20 03:48

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	0.0587	0.11		0.0285



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FILE #: 4222.00

REPORTED: 02/03/21 08:50

SUBMITTED: 12/04/20 to 12/24/20

AQS SITE CODE:

SITE CODE: Cobb

Description: Cobb FB

Lab ID: 0120410-11

Sampled: 11/24/20 00:00

Pressure @ Receipt: 30.00" Hg

Canister #: 2240

Received: 12/04/20 11:00

Comments: Field Blank

Analyzed: 12/16/20 20:26

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	0.00730	0.01	U	0.0285



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FILE #: 4222.00

REPORTED: 02/03/21 08:50

SUBMITTED: 12/04/20 to 12/24/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S1

Lab ID: 0121638-01

Sampled: 12/05/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: 19290

Received: 12/16/20 13:04

Comments: Received at ambient pressure

Analyzed: 12/18/20 21:20

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	0.0383	0.07		0.0285



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FILE #: 4222.00

REPORTED: 02/03/21 08:50

SUBMITTED: 12/04/20 to 12/24/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S2

Lab ID: 0121638-02

Sampled: 12/05/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: SAT039

Received: 12/16/20 13:04

Comments: Received at ambient pressure

Analyzed: 12/18/20 22:15

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	0.107	0.19	LK	0.0285



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FILE #: 4222.00

REPORTED: 02/03/21 08:50

SUBMITTED: 12/04/20 to 12/24/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S3

Lab ID: 0121638-03

Sampled: 12/05/20 23:59

Pressure @ Receipt: 2.00" Hg

Canister #: SAT158

Received: 12/16/20 13:04

Comments:

Analyzed: 12/18/20 23:10

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	0.135	0.24	LK	0.0285



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FILE #: 4222.00

REPORTED: 02/03/21 08:50

SUBMITTED: 12/04/20 to 12/24/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S1

Lab ID: 0122325-01

Sampled: 12/11/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: 5054

Received: 12/23/20 14:22

Comments: Received at ambient pressure

Analyzed: 12/30/20 16:54

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/m³</u>		<u>ppbv</u>
Ethylene oxide	0.0908	0.16	LK	0.0285



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FILE #: 4222.00

REPORTED: 02/03/21 08:50

SUBMITTED: 12/04/20 to 12/24/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S2

Lab ID: 0122325-02

Sampled: 12/11/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: 19648

Received: 12/23/20 14:22

Comments: Received at ambient pressure

Analyzed: 12/30/20 17:49

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	0.0450	0.08		0.0285



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FILE #: 4222.00

REPORTED: 02/03/21 08:50

SUBMITTED: 12/04/20 to 12/24/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S3

Lab ID: 0122325-03

Sampled: 12/11/20 23:59

Pressure @ Receipt: 4.00" Hg

Canister #: 5086

Received: 12/23/20 14:22

Comments:

Analyzed: 12/30/20 18:44

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/m³</u>		<u>ppbv</u>
Ethylene oxide	0.142	0.26	LK	0.0285



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FILE #: 4222.00

REPORTED: 02/03/21 08:50

SUBMITTED: 12/04/20 to 12/24/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S4

Lab ID: 0122325-04

Sampled: 12/11/20 23:59

Pressure @ Receipt: 3.00" Hg

Canister #: A21006

Received: 12/23/20 14:22

Comments:

Analyzed: 12/30/20 19:40

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	0.325	0.59		0.0285



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FILE #: 4222.00

REPORTED: 02/03/21 08:50

SUBMITTED: 12/04/20 to 12/24/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S1

Lab ID: 0122408-01

Sampled: 12/17/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: 35147

Received: 12/24/20 11:14

Comments: Received at ambient pressure

Analyzed: 12/31/20 19:02

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	0.244	0.44		0.0285



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FILE #: 4222.00

REPORTED: 02/03/21 08:50

SUBMITTED: 12/04/20 to 12/24/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S2

Lab ID: 0122408-02

Sampled: 12/17/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: 18835

Received: 12/24/20 11:14

Comments: Received at ambient pressure

Analyzed: 12/31/20 19:57

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/m³</u>		<u>ppbv</u>
Ethylene oxide	0.0280	0.05	U	0.0285



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FILE #: 4222.00

REPORTED: 02/03/21 08:50

SUBMITTED: 12/04/20 to 12/24/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S3

Lab ID: 0122408-03

Sampled: 12/17/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: 110314

Received: 12/24/20 11:14

Comments: Received at ambient pressure

Analyzed: 12/31/20 20:52

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	0.0470	0.08		0.0285



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FILE #: 4222.00

REPORTED: 02/03/21 08:50

SUBMITTED: 12/04/20 to 12/24/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S4

Lab ID: 0122408-04

Sampled: 12/17/20 23:59

Pressure @ Receipt: 5.50" Hg

Canister #: A21058

Received: 12/24/20 11:14

Comments:

Analyzed: 12/31/20 21:48

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	0.0947	0.17		0.0285



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FILE #: 4222.00

REPORTED: 02/03/21 08:50

SUBMITTED: 12/04/20 to 12/24/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S4 QA

Lab ID: 0122408-05

Sampled: 12/17/20 23:59

Pressure @ Receipt: 0.75 psig

Canister #: 5076

Received: 12/24/20 11:14

Comments:

Analyzed: 12/31/20 23:38

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	0.0962	0.17	LK	0.0285



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FILE #: 4222.00
REPORTED: 02/03/21 08:50
SUBMITTED: 12/04/20 to 12/24/20
AQS SITE CODE:
SITE CODE: Cobb

Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes
Air Toxics by EPA Compendium Method TO-15 - Quality Control						
<i>Batch B0L1506 - Summa Canister Prep</i>						
Blank (B0L1506-BLK1)			Prepared & Analyzed: 12/15/20			
Ethylene oxide	ND	ppbv				U
<i>Batch B0L1603 - Summa Canister Prep</i>						
Blank (B0L1603-BLK1)			Prepared & Analyzed: 12/16/20			
Ethylene oxide	ND	ppbv				U
<i>Batch B0L1805 - Summa Canister Prep</i>						
Blank (B0L1805-BLK1)			Prepared & Analyzed: 12/18/20			
Ethylene oxide	ND	ppbv				U
<i>Batch B0L3006 - Summa Canister Prep</i>						
Blank (B0L3006-BLK1)			Prepared & Analyzed: 12/30/20			
Ethylene oxide	ND	ppbv				U
<i>Batch B0L3104 - Summa Canister Prep</i>						
Blank (B0L3104-BLK1)			Prepared & Analyzed: 12/31/20			
Ethylene oxide	ND	ppbv				U
Duplicate (B0L3104-DUP3)	Source: 0122408-04		Prepared: 12/17/20 Analyzed: 12/31/20			
Ethylene oxide	0.0932	ppbv	0.09	1.60	25	
Duplicate (B0L3104-DUP4)	Source: 0122408-05		Prepared: 12/17/20 Analyzed: 01/01/21			
Ethylene oxide	0.0954	ppbv	0.10	0.835	25	LK



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FILE #: 4222.00
REPORTED: 02/03/21 08:50
SUBMITTED: 12/04/20 to 12/24/20
AQS SITE CODE:
SITE CODE: Cobb

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

Sequence 2012018

Calibration Check (2012018-CCV1)

Prepared: 12/10/20 Analyzed: 12/14/20

Ethylene oxide	2.44	ppbv	-2.4	30.00
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Sequence 2012025

Calibration Check (2012025-CCV1)

Prepared & Analyzed: 12/15/20

Ethylene oxide	2.57	ppbv	2.7	30.00
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Calibration Check (2012025-CCV2)

Prepared & Analyzed: 12/15/20

Ethylene oxide	2.68	ppbv	7.2	30.00
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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 2012038

Calibration Check (2012038-CCV1)

Prepared & Analyzed: 12/18/20

Ethylene oxide	2.44	ppbv	-2.5	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

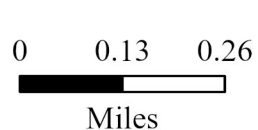
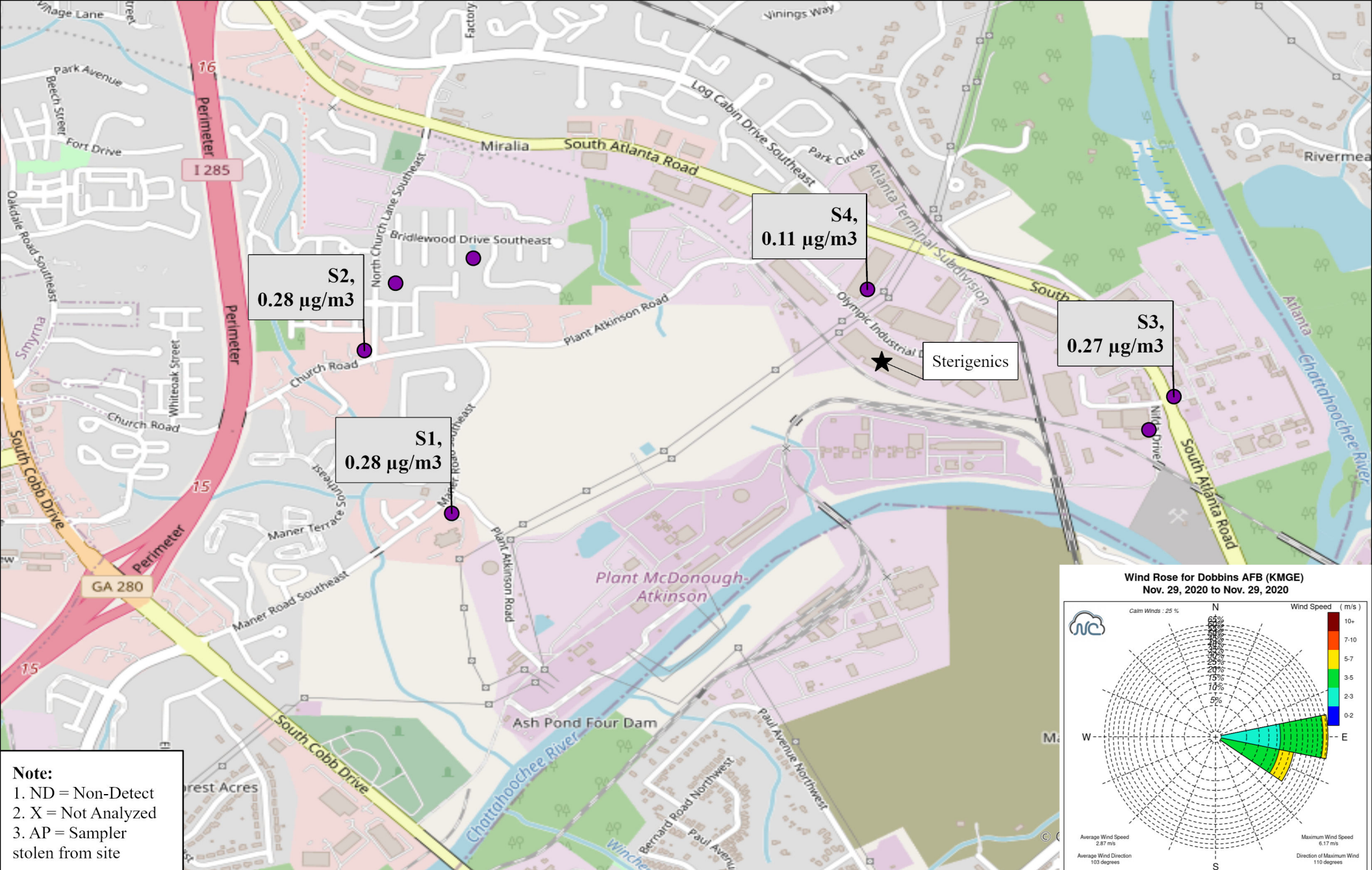
U.S. Environmental Protection Agency, Region 4
4244 International Pkwy, Suite 120
Atlanta, GA 30354
ATTN: Ms. Jaime Gore
PHONE: (404) 362-4912 **FAX:** (919) 541-0516

FILE #: 4222.00
REPORTED: 02/03/21 08:50
SUBMITTED: 12/04/20 to 12/24/20
AQS SITE CODE:
SITE CODE: Cobb

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 ($\mu\text{g}/\text{m}^3$)

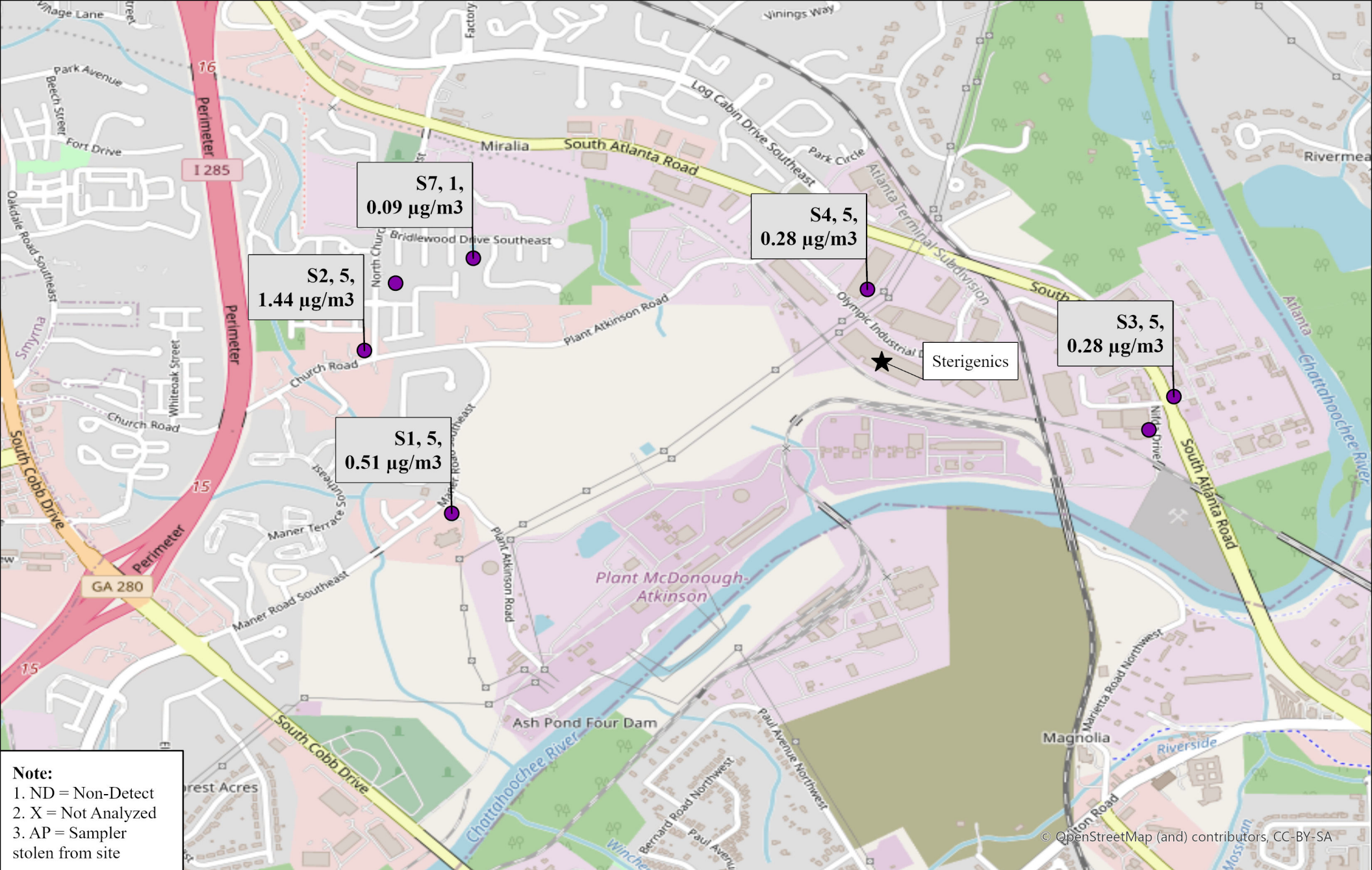
Ethylene Oxide Sampling
 Cobb County, GA

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

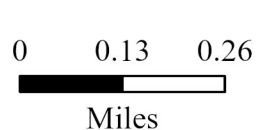


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Ethylene Oxide Sampling
Cobb County, GA



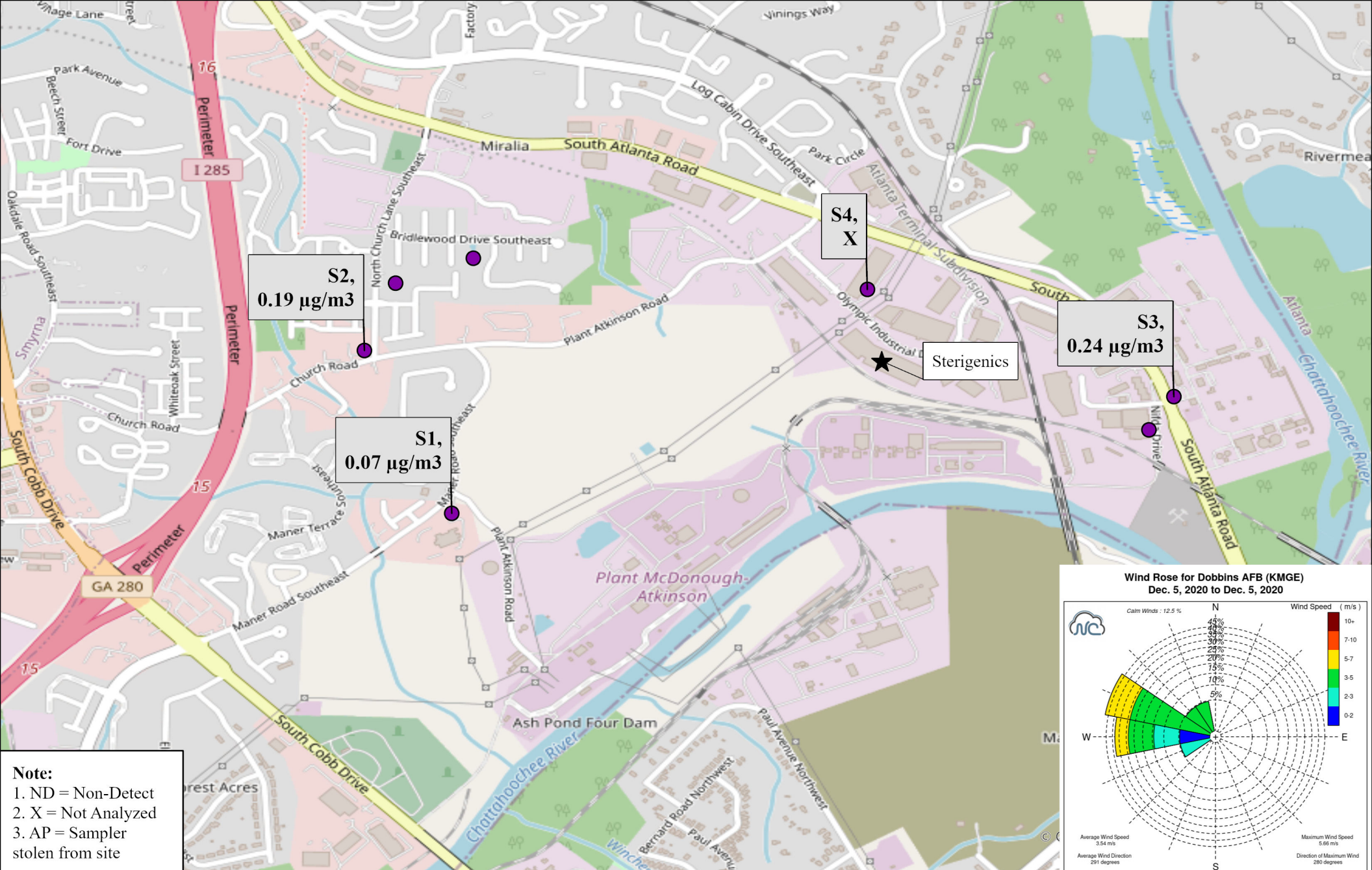
**Site ID, Number of Samples,
Concentration (µg/m³)**

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



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0 0.13 0.26
 Miles



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

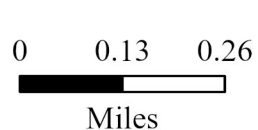
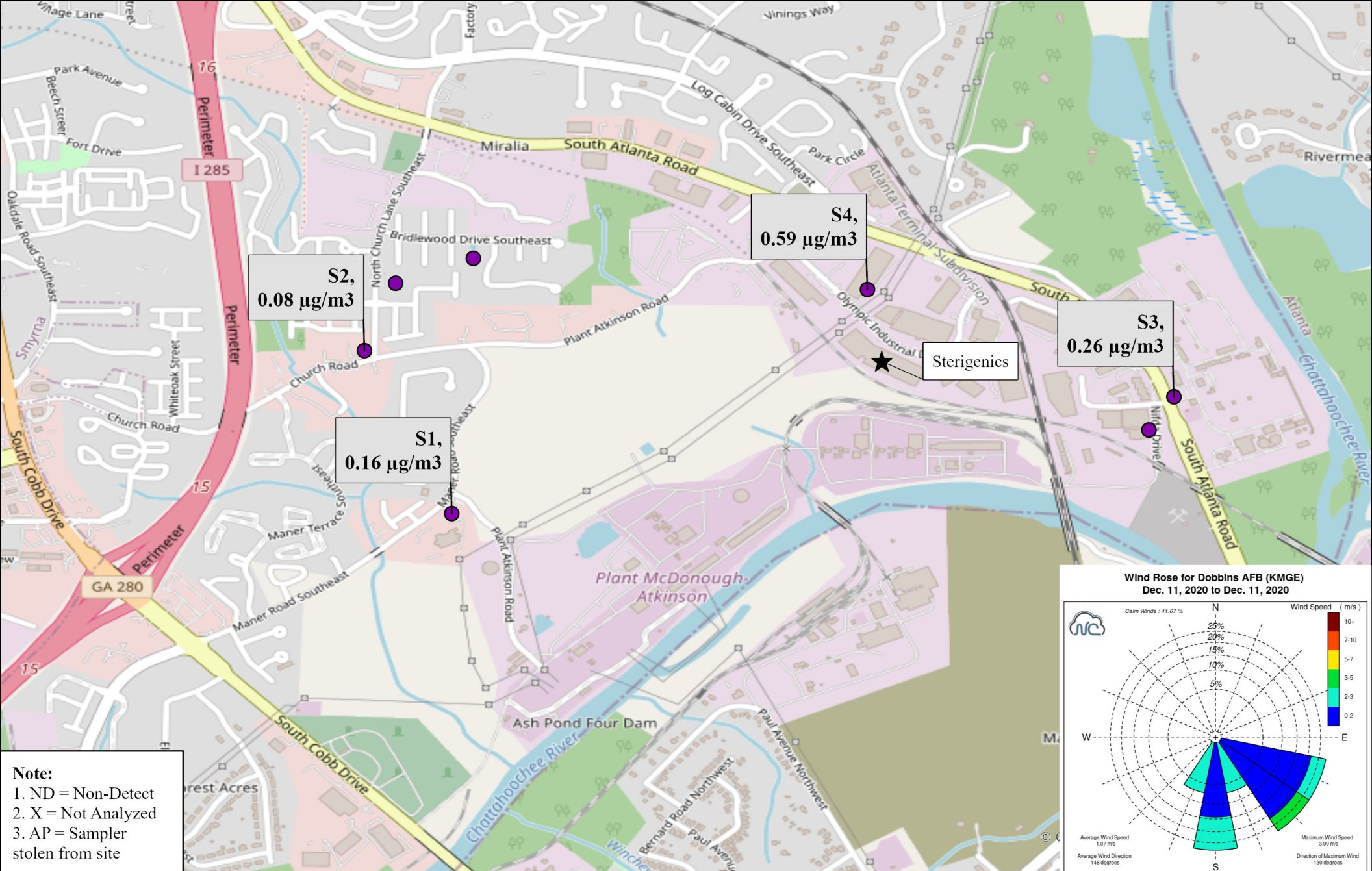
Ethylene Oxide Sampling
 Cobb County, GA

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



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

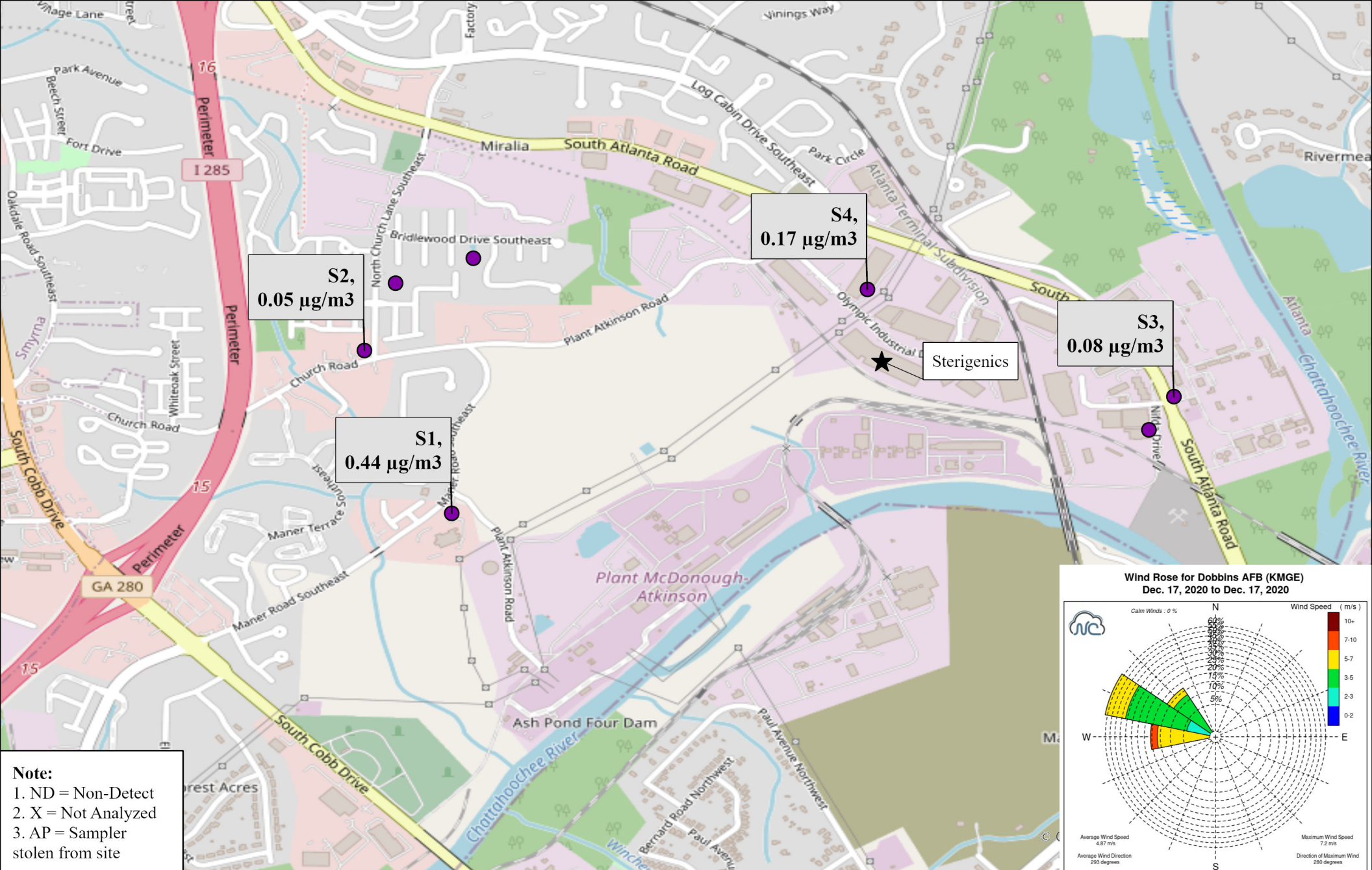
Ethylene Oxide Sampling
 Cobb County, GA

12/11/2020
 Sampled By: Georgia Environmental Protection Division
 Analyzed By: Eastern Research Group



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0 0.13 0.26
 Miles



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

Ethylene Oxide Sampling
 Cobb County, GA

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



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