

May 11, 2020

MEMORANDUM

To: Karen Hays, Air Branch Chief *KH*

Through: Dika Kuoh, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: Cobb January 22, 2020- February 27, 2020 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected during the period of January 22, 2020- February 27, 2020 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 samples listed as AF indicate that the sample was scheduled but not collected. On previous memos, this was listed as an X rather than AF, but we have changed the code to be more consistent with our other documentation. The samples listed as AN indicate that the machine malfunctioned while collecting the sample. The samples listed as AO indicate that bad weather destroyed the sample. 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. Please note that ERG is now providing values for levels below the detection limit.

Location	Date	Qualifier	EtO Concentration (ug/m ³)
S1	01/22/2020	2	0.73
S1	01/28/2020	2	0.32
S1	02/03/2020		0.85
S1	02/09/2020	2	0.77
S1	02/15/2020		0.28
S1	02/21/2020	LK, 2	2.58
S1	02/27/2020	2	0.46
S2	01/22/2020	2	0.10
S2	01/28/2020	2	0.40
S2	02/03/2020	2	0.78
S2	02/09/2020		AO
S2	02/15/2020	2	0.80
S2	02/21/2020		AN
S2	02/27/2020	LK	0.15

Location		Date		Qualifier		EtO Concentration (ug/m ³)
S3		01/22/2020				0.61
S3		01/28/2020		2		0.73
S3		02/03/2020				0.42
S3		02/09/2020				0.68
S3		02/15/2020		2		0.43
S3		02/21/2020		LK		0.19
S3		02/27/2020		LK		0.31
S4		01/22/2020				0.16
S4		01/28/2020		2		0.49
S4		02/03/2020				0.38
S4		02/09/2020				0.34
S4		02/15/2020				0.45
S4		02/21/2020		LK		0.15
S4		02/27/2020		LK		0.33
S4 QA		01/22/2020				0.18
S4 QA		02/15/2020				0.42
S7-SA		01/22/2020		U		0.10
S7-SA		02/27/2020		LK		0.15

If you have any questions, please let me know.

DGO/do



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

March 24, 2020

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 01/30/20 11:00 through 03/06/20 10:55.

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: 03/24/20 12:22

SUBMITTED: 01/30/20 to 03/06/20

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	0013009-01	Air	01/22/20 23:59	01/30/20 11:00
S2	0013009-02	Air	01/22/20 23:59	01/30/20 11:00
S3	0013009-03	Air	01/22/20 23:59	01/30/20 11:00
S4	0013009-04	Air	01/22/20 23:59	01/30/20 11:00
S4 QA	0013009-05	Air	01/22/20 23:59	01/30/20 11:00
Cobb-FS	0013118-01	Air	01/23/20 23:59	01/31/20 12:48
S1	0020525-01	Air	01/28/20 23:59	02/05/20 11:58
S2	0020525-02	Air	01/28/20 23:59	02/05/20 11:58
S3	0020525-03	Air	01/28/20 23:59	02/05/20 11:58
S4	0020525-04	Air	01/28/20 23:59	02/05/20 11:58
S1	0021216-01	Air	02/03/20 23:59	02/12/20 11:05
S2	0021216-02	Air	02/03/20 23:59	02/12/20 11:05
S3	0021216-03	Air	02/03/20 23:59	02/12/20 11:05
S4	0021216-04	Air	02/03/20 23:59	02/12/20 11:05
S1	0021825-01	Air	02/09/20 23:59	02/18/20 15:16
S3	0021825-03	Air	02/09/20 23:59	02/18/20 15:16
S4	0021825-04	Air	02/09/20 23:59	02/18/20 15:16
S4 QA	0022527-01	Air	02/15/20 23:59	02/25/20 11:57
S1	0022612-01	Air	02/15/20 23:59	02/26/20 10:57
S2	0022612-02	Air	02/15/20 23:59	02/26/20 10:57
S3	0022612-03	Air	02/15/20 23:59	02/26/20 10:57
S4	0022612-04	Air	02/15/20 23:59	02/26/20 10:57
S1	0030235-01	Air	02/21/20 23:59	03/02/20 13:22

Eastern Research Group

The results in this report apply only to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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AQS SITE CODE:

SITE CODE: Cobb

S3	0030235-03	Air	02/21/20 23:59	03/02/20 13:22
S4	0030235-04	Air	02/21/20 23:59	03/02/20 13:22
Cobb FB	0030235-05	Air	02/21/20 23:59	03/02/20 13:22
S1	0030536-01	Air	02/27/20 23:59	03/05/20 13:39
S2	0030536-02	Air	02/27/20 23:59	03/05/20 13:39
S4	0030536-03	Air	02/27/20 23:59	03/05/20 13:39
S3	0030605-01	Air	02/27/20 23:59	03/06/20 10:55
S7-SA	0030605-02	Air	02/27/20 23:59	03/06/20 10:55



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FILE #: 4222.00

REPORTED: 03/24/20 12:22

SUBMITTED: 01/30/20 to 03/06/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S1

Lab ID: 0013009-01

Sampled: 01/22/20 23:59

Pressure @ Receipt: 0" Hg

Canister #: SAT014

Received: 01/30/20 11:00

Comments: Received at ambient

Analyzed: 02/19/20 21:15

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	0.406	0.73		0.0250



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FILE #: 4222.00

REPORTED: 03/24/20 12:22

SUBMITTED: 01/30/20 to 03/06/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S2

Lab ID: 0013009-02

Sampled: 01/22/20 23:59

Pressure @ Receipt: 0" Hg

Canister #: SAT126

Received: 01/30/20 11:00

Comments: Received at ambient

Analyzed: 02/19/20 22:10

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	0.0548	0.10		0.0250



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FILE #: 4222.00

REPORTED: 03/24/20 12:22

SUBMITTED: 01/30/20 to 03/06/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S3

Lab ID: 0013009-03

Sampled: 01/22/20 23:59

Pressure @ Receipt: 4.50" Hg

Canister #: SAT033

Received: 01/30/20 11:00

Comments:

Analyzed: 02/19/20 23:06

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	0.335	0.61		0.0250



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FILE #: 4222.00

REPORTED: 03/24/20 12:22

SUBMITTED: 01/30/20 to 03/06/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S4

Lab ID: 0013009-04

Sampled: 01/22/20 23:59

Pressure @ Receipt: 3.00" Hg

Canister #: SAT078

Received: 01/30/20 11:00

Comments:

Analyzed: 02/20/20 00:01

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	0.0896	0.16		0.0250



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FILE #: 4222.00

REPORTED: 03/24/20 12:22

SUBMITTED: 01/30/20 to 03/06/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S4 QA

Lab ID: 0013009-05

Sampled: 01/22/20 23:59

Pressure @ Receipt: 3.50" Hg

Canister #: A21025

Received: 01/30/20 11:00

Comments:

Analyzed: 02/20/20 00:56

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/m³</u>		<u>ppbv</u>
Ethylene oxide	0.0973	0.18		0.0250



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FILE #: 4222.00

REPORTED: 03/24/20 12:22

SUBMITTED: 01/30/20 to 03/06/20

AQS SITE CODE:

SITE CODE: Cobb

Description: Cobb-FS

Lab ID: 0013118-01

Sampled: 01/23/20 23:59

Pressure @ Receipt: 30.00" Hg

Canister #: 9570

Received: 01/31/20 12:48

Comments: Field Blank

Analyzed: 02/21/20 19:09

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	ND	ND	U	0.0250



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FILE #: 4222.00

REPORTED: 03/24/20 12:22

SUBMITTED: 01/30/20 to 03/06/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S1

Lab ID: 0020525-01

Sampled: 01/28/20 23:59

Pressure @ Receipt: 0" Hg

Canister #: SAT086

Received: 02/05/20 11:58

Comments: Received at ambient

Analyzed: 02/22/20 02:40

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	0.176	0.32		0.0250



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FILE #: 4222.00

REPORTED: 03/24/20 12:22

SUBMITTED: 01/30/20 to 03/06/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S2

Lab ID: 0020525-02

Sampled: 01/28/20 23:59

Pressure @ Receipt: 0" Hg

Canister #: SAT076

Received: 02/05/20 11:58

Comments: Received at ambient

Analyzed: 02/22/20 03:36

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	0.222	0.40		0.0250



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FILE #: 4222.00

REPORTED: 03/24/20 12:22

SUBMITTED: 01/30/20 to 03/06/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S3

Lab ID: 0020525-03

Sampled: 01/28/20 23:59

Pressure @ Receipt: 6.00" Hg

Canister #: 5046

Received: 02/05/20 11:58

Comments:

Analyzed: 02/22/20 04:32

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	0.403	0.73		0.0250



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FILE #: 4222.00

REPORTED: 03/24/20 12:22

SUBMITTED: 01/30/20 to 03/06/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S4

Lab ID: 0020525-04

Sampled: 01/28/20 23:59

Pressure @ Receipt: 0" Hg

Canister #: SAT173

Received: 02/05/20 11:58

Comments: Received at ambient

Analyzed: 02/22/20 05:29

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	0.270	0.49		0.0250



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ATTN: Ms. Jaime Gore

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

FILE #: 4222.00

REPORTED: 03/24/20 12:22

SUBMITTED: 01/30/20 to 03/06/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S1

Lab ID: 0021216-01

Sampled: 02/03/20 23:59

Pressure @ Receipt: 2.00" Hg

Canister #: 5080

Received: 02/12/20 11:05

Comments:

Analyzed: 02/25/20 02:38

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	0.470	0.85		0.0250



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FILE #: 4222.00

REPORTED: 03/24/20 12:22

SUBMITTED: 01/30/20 to 03/06/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S2

Lab ID: 0021216-02

Sampled: 02/03/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: SAT048

Received: 02/12/20 11:05

Comments: Received at ambient

Analyzed: 02/25/20 03:34

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	0.432	0.78		0.0250



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FILE #: 4222.00

REPORTED: 03/24/20 12:22

SUBMITTED: 01/30/20 to 03/06/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S3

Lab ID: 0021216-03

Sampled: 02/03/20 23:59

Pressure @ Receipt: 6.50" Hg

Canister #: SAT127

Received: 02/12/20 11:05

Comments:

Analyzed: 02/25/20 04:30

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	0.231	0.42		0.0250



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FILE #: 4222.00

REPORTED: 03/24/20 12:22

SUBMITTED: 01/30/20 to 03/06/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S4

Lab ID: 0021216-04

Sampled: 02/03/20 23:59

Pressure @ Receipt: 5.50" Hg

Canister #: 19664

Received: 02/12/20 11:05

Comments:

Analyzed: 02/25/20 05:27

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	0.210	0.38		0.0250



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FILE #: 4222.00

REPORTED: 03/24/20 12:22

SUBMITTED: 01/30/20 to 03/06/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S1

Lab ID: 0021825-01

Sampled: 02/09/20 23:59

Pressure @ Receipt: 11.00" Hg

Canister #: 5129

Received: 02/18/20 15:16

Comments:

Analyzed: 03/03/20 20:24

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	0.427	0.77		0.0250



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FILE #: 4222.00

REPORTED: 03/24/20 12:22

SUBMITTED: 01/30/20 to 03/06/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S3

Lab ID: 0021825-03

Sampled: 02/09/20 23:59

Pressure @ Receipt: 4.00" Hg

Canister #: SAT176

Received: 02/18/20 15:16

Comments:

Analyzed: 03/03/20 21:19

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	0.378	0.68		0.0250



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FILE #: 4222.00

REPORTED: 03/24/20 12:22

SUBMITTED: 01/30/20 to 03/06/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S4

Lab ID: 0021825-04

Sampled: 02/09/20 23:59

Pressure @ Receipt: 3.50" Hg

Canister #: A21042

Received: 02/18/20 15:16

Comments:

Analyzed: 03/03/20 22:14

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	0.188	0.34		0.0250



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FILE #: 4222.00

REPORTED: 03/24/20 12:22

SUBMITTED: 01/30/20 to 03/06/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S4 QA

Lab ID: 0022527-01

Sampled: 02/15/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: 0049

Received: 02/25/20 11:57

Comments:

Analyzed: 03/04/20 21:07

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	0.230	0.42		0.0250



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: 03/24/20 12:22

SUBMITTED: 01/30/20 to 03/06/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S1	Lab ID: 0022612-01	Sampled: 02/15/20 23:59
Pressure @ Receipt: 0.00" Hg	Canister #: 19668	Received: 02/26/20 10:57
Comments: Received at ambient		Analyzed: 03/04/20 16:29

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		0.0250



CERTIFICATE OF ANALYSIS

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4244 International Pkwy, Suite 120

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ATTN: Ms. Jaime Gore

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

FILE #: 4222.00

REPORTED: 03/24/20 12:22

SUBMITTED: 01/30/20 to 03/06/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S2

Lab ID: 0022612-02

Sampled: 02/15/20 23:59

Pressure @ Receipt: 8.50" Hg

Canister #: SAT025

Received: 02/26/20 10:57

Comments:

Analyzed: 03/04/20 17:25

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	0.441	0.80		0.0250



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Atlanta, GA 30354

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

FILE #: 4222.00

REPORTED: 03/24/20 12:22

SUBMITTED: 01/30/20 to 03/06/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S3

Lab ID: 0022612-03

Sampled: 02/15/20 23:59

Pressure @ Receipt: 5.00" Hg

Canister #: 5072

Received: 02/26/20 10:57

Comments:

Analyzed: 03/04/20 18:20

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	0.239	0.43		0.0250



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: 03/24/20 12:22

SUBMITTED: 01/30/20 to 03/06/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S4

Lab ID: 0022612-04

Sampled: 02/15/20 23:59

Pressure @ Receipt: 2.50" Hg

Canister #: A21051

Received: 02/26/20 10:57

Comments:

Analyzed: 03/04/20 19:16

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	0.249	0.45		0.0250



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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: 03/24/20 12:22

SUBMITTED: 01/30/20 to 03/06/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S1

Lab ID: 0030235-01

Sampled: 02/21/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: A21059

Received: 03/02/20 13:22

Comments: Received at ambient

Analyzed: 03/14/20 01:01

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	1.43	2.58	LK	0.0250



CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

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

FILE #: 4222.00

REPORTED: 03/24/20 12:22

SUBMITTED: 01/30/20 to 03/06/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S3

Lab ID: 0030235-03

Sampled: 02/21/20 23:59

Pressure @ Receipt: 4.00" Hg

Canister #: 19665

Received: 03/02/20 13:22

Comments:

Analyzed: 03/14/20 02:06

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	0.105	0.19	LK	0.0250



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: 03/24/20 12:22

SUBMITTED: 01/30/20 to 03/06/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S4

Lab ID: 0030235-04

Sampled: 02/21/20 23:59

Pressure @ Receipt: 3.00" Hg

Canister #: A21011

Received: 03/02/20 13:22

Comments:

Analyzed: 03/14/20 03:10

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	0.0837	0.15	LK	0.0250



CERTIFICATE OF ANALYSIS

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FILE #: 4222.00

REPORTED: 03/24/20 12:22

SUBMITTED: 01/30/20 to 03/06/20

AQS SITE CODE:

SITE CODE: Cobb

Description: Cobb FB

Lab ID: 0030235-05

Sampled: 02/21/20 23:59

Pressure @ Receipt: 30.00" Hg

Canister #: 0053

Received: 03/02/20 13:22

Comments: Field Blank

Analyzed: 03/14/20 04:14

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	ND	ND	U	0.0250



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

FILE #: 4222.00

REPORTED: 03/24/20 12:22

SUBMITTED: 01/30/20 to 03/06/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S1	Lab ID: 0030536-01	Sampled: 02/27/20 23:59
Pressure @ Receipt: 0.00" Hg	Canister #: 5121	Received: 03/05/20 13:39
Comments: Received at ambient		Analyzed: 03/16/20 16:03

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	0.253	0.46		0.0250



CERTIFICATE OF ANALYSIS

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Atlanta, GA 30354

ATTN: Ms. Jaime Gore

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

FILE #: 4222.00

REPORTED: 03/24/20 12:22

SUBMITTED: 01/30/20 to 03/06/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S2

Lab ID: 0030536-02

Sampled: 02/27/20 23:59

Pressure @ Receipt: 4.00" Hg

Canister #: 19663

Received: 03/05/20 13:39

Comments:

Analyzed: 03/16/20 18:12

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	0.0818	0.15	LK	0.0250



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4244 International Pkwy, Suite 120

Atlanta, GA 30354

ATTN: Ms. Jaime Gore

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

FILE #: 4222.00

REPORTED: 03/24/20 12:22

SUBMITTED: 01/30/20 to 03/06/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S4

Lab ID: 0030536-03

Sampled: 02/27/20 23:59

Pressure @ Receipt: 3.00" Hg

Canister #: A21067

Received: 03/05/20 13:39

Comments:

Analyzed: 03/16/20 19:17

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	0.180	0.33	LK	0.0250



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FILE #: 4222.00

REPORTED: 03/24/20 12:22

SUBMITTED: 01/30/20 to 03/06/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S3

Lab ID: 0030605-01

Sampled: 02/27/20 23:59

Pressure @ Receipt: 4.50" Hg

Canister #: A21095

Received: 03/06/20 10:55

Comments:

Analyzed: 03/17/20 02:48

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	0.171	0.31	LK	0.0250



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FILE #: 4222.00

REPORTED: 03/24/20 12:22

SUBMITTED: 01/30/20 to 03/06/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S7-SA

Lab ID: 0030605-02

Sampled: 02/27/20 23:59

Pressure @ Receipt: 3.00" Hg

Canister #: 18884

Received: 03/06/20 10:55

Comments: Received at ambient

Analyzed: 03/17/20 03:53

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	0.0838	0.15	LK	0.0250



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4244 International Pkwy, Suite 120

Atlanta, GA 30354

ATTN: Ms. Jaime Gore

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

FILE #: 4222.00

REPORTED: 03/24/20 12:22

SUBMITTED: 01/30/20 to 03/06/20

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 B0B1907 - Summa Canister Prep</i>						
Blank (B0B1907-BLK1)			Prepared: 02/14/20 Analyzed: 02/19/20			
Ethylene oxide	ND	ppbv				U
<i>Batch B0B2006 - Summa Canister Prep</i>						
Blank (B0B2006-BLK1)			Prepared: 02/14/20 Analyzed: 02/21/20			
Ethylene oxide	ND	ppbv				U
<i>Batch B0B2408 - Summa Canister Prep</i>						
Blank (B0B2408-BLK1)			Prepared: 02/14/20 Analyzed: 02/24/20			
Ethylene oxide	ND	ppbv				U
<i>Batch B0C0310 - Summa Canister Prep</i>						
Blank (B0C0310-BLK1)			Prepared & Analyzed: 03/03/20			
Ethylene oxide	ND	ppbv				U
<i>Batch B0C0407 - Summa Canister Prep</i>						
Blank (B0C0407-BLK1)			Prepared & Analyzed: 03/04/20			
Ethylene oxide	ND	ppbv				U
Duplicate (B0C0407-DUP1)	Source: 0022612-04		Prepared: 02/15/20 Analyzed: 03/04/20			
Ethylene oxide	0.254	ppbv	0.25	1.95	25	
Duplicate (B0C0407-DUP2)	Source: 0022527-01		Prepared: 02/15/20 Analyzed: 03/04/20			
Ethylene oxide	0.192	ppbv	0.23	17.9	25	
<i>Batch B0C0910 - Summa Canister Prep</i>						
Blank (B0C0910-BLK1)			Prepared: 03/09/20 Analyzed: 03/13/20			
Ethylene oxide	ND	ppbv				U
<i>Batch B0C1605 - Summa Canister Prep</i>						
Blank (B0C1605-BLK1)			Prepared: 03/09/20 Analyzed: 03/16/20			
Ethylene oxide	ND	ppbv				U
Duplicate (B0C1605-DUP1)	Source: 0030536-01		Prepared: 02/27/20 Analyzed: 03/16/20			
Ethylene oxide	0.269	ppbv	0.25	6.02	25	LK



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FILE #: 4222.00

REPORTED: 03/24/20 12:22

SUBMITTED: 01/30/20 to 03/06/20

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 2002042

Calibration Check (2002042-CCV1)

Prepared & Analyzed: 02/19/20

Ethylene oxide	2.61	ppbv	4.5	30.00
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Sequence 2002044

Calibration Check (2002044-CCV1)

Prepared: 02/20/20 Analyzed: 02/21/20

Ethylene oxide	2.66	ppbv	6.3	30.00
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Sequence 2002051

Calibration Check (2002051-CCV1)

Prepared: 02/19/20 Analyzed: 02/24/20

Ethylene oxide	2.76	ppbv	10.6	30.00
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Sequence 2003009

Calibration Check (2003009-CCV1)

Prepared & Analyzed: 03/03/20

Ethylene oxide	2.43	ppbv	-2.7	30.00
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Sequence 2003013

Calibration Check (2003013-CCV1)

Prepared & Analyzed: 03/04/20

Ethylene oxide	2.87	ppbv	14.6	30.00
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Sequence 2003022

Calibration Check (2003022-CCV1)

Prepared: 03/09/20 Analyzed: 03/13/20

Ethylene oxide	2.50	ppbv	1.0	30.00
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Sequence 2003031

Calibration Check (2003031-CCV1)

Prepared & Analyzed: 03/16/20

Ethylene oxide	2.77	ppbv	12.1	30.00
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CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 4

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Atlanta, GA 30354

ATTN: Ms. Jaime Gore

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

FILE #: 4222.00

REPORTED: 03/24/20 12:22

SUBMITTED: 01/30/20 to 03/06/20

AQS SITE CODE:

SITE CODE: Cobb

Notes and Definitions

U	Under Detection Limit
LK	Analyte identified; Reported value may be biased high.
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 trichlorotrifluoroethane.



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

May 01, 2020

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 01/29/20 11:13.

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

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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: 05/01/20 09:36

SUBMITTED: 01/29/20

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>
S7-SA	0012928-01	Air	01/22/20 23:59	01/29/20 11:13

Description: S7-SA	Lab ID: 0012928-01	Sampled: 01/22/20 23:59
Pressure @ Receipt: 0" Hg	Canister #: 18831	Received: 01/29/20 11:13
Comments: Received at ambient		Analyzed: 02/20/20 04:38

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	0.0562	0.10	U	0.0250



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: 05/01/20 09:36

SUBMITTED: 01/29/20

AQS SITE CODE:

SITE CODE: Cobb

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

Batch B0B1907 - Summa Canister Prep

Blank (B0B1907-BLK1)

Prepared: 02/14/20 Analyzed: 02/19/20

Ethylene oxide	ND	ppbv				U
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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: 05/01/20 09:36

SUBMITTED: 01/29/20

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 2002042

Calibration Check (2002042-CCV1)

Prepared & Analyzed: 02/19/20

Ethylene oxide	2.61	ppbv	4.5	30.00
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CERTIFICATE OF ANALYSIS

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ATTN: Ms. Jaime Gore

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

FILE #: 4222.00

REPORTED: 05/01/20 09:36

SUBMITTED: 01/29/20

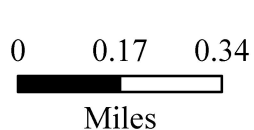
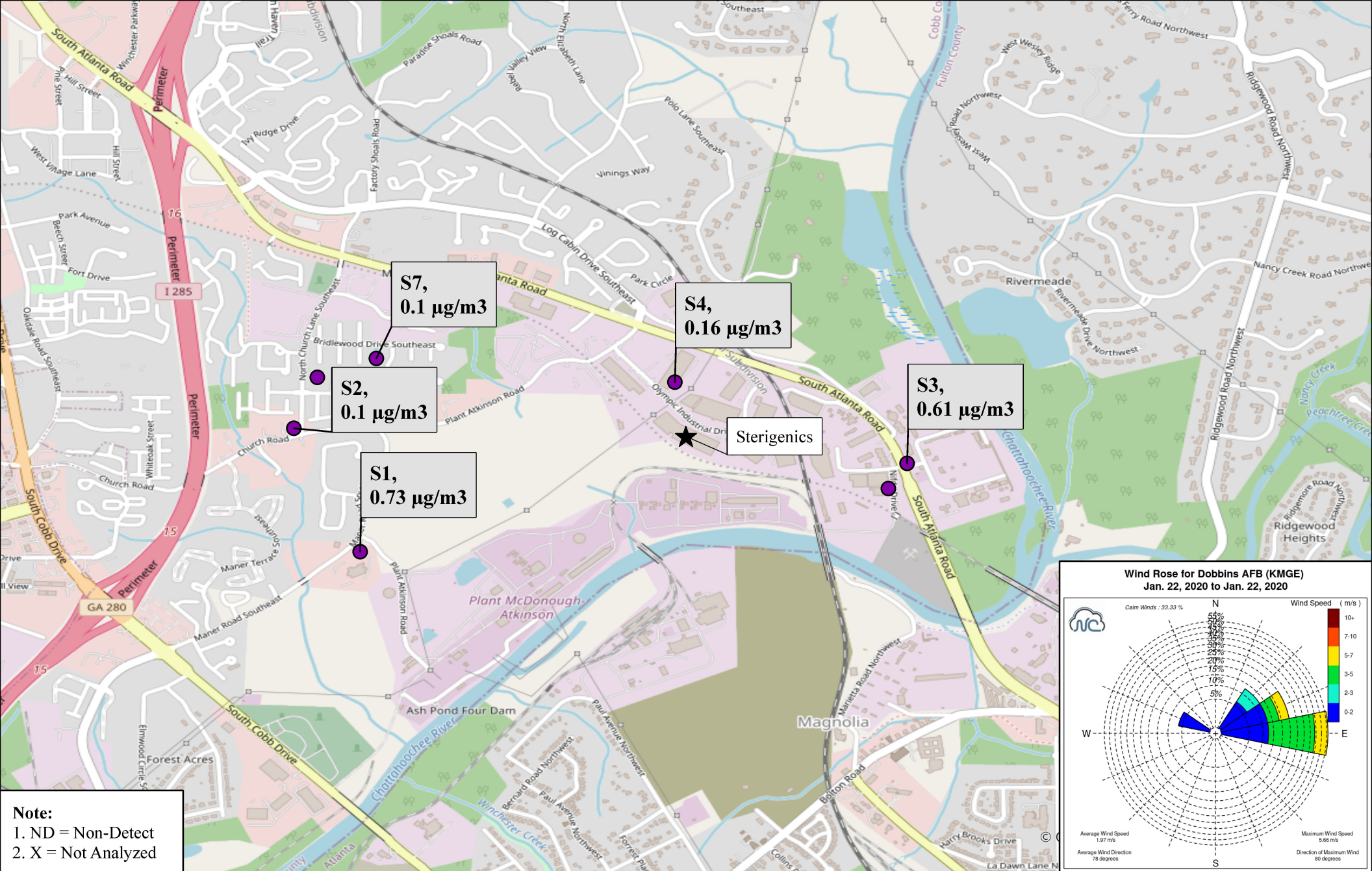
AQS SITE CODE:

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

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 trichlorotrifluoroethane.



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

Ethylene Oxide Sampling
 Cobb County, GA

01/22/2020

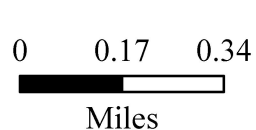
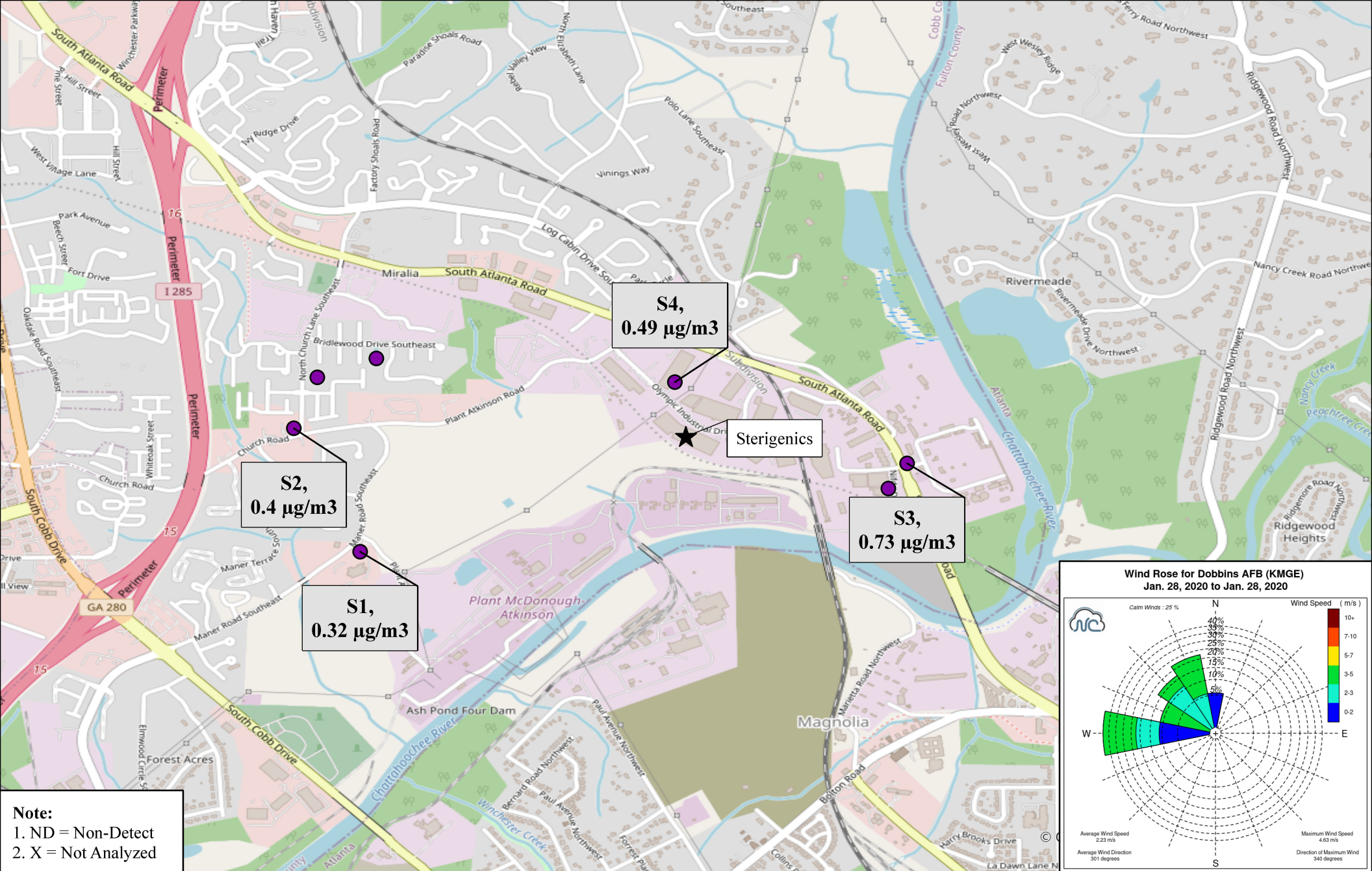
Sampled By: Georgia Environmental Protection Division

Analyzed By: Eastern Research Group



GEORGIA
 DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL PROTECTION DIVISION



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

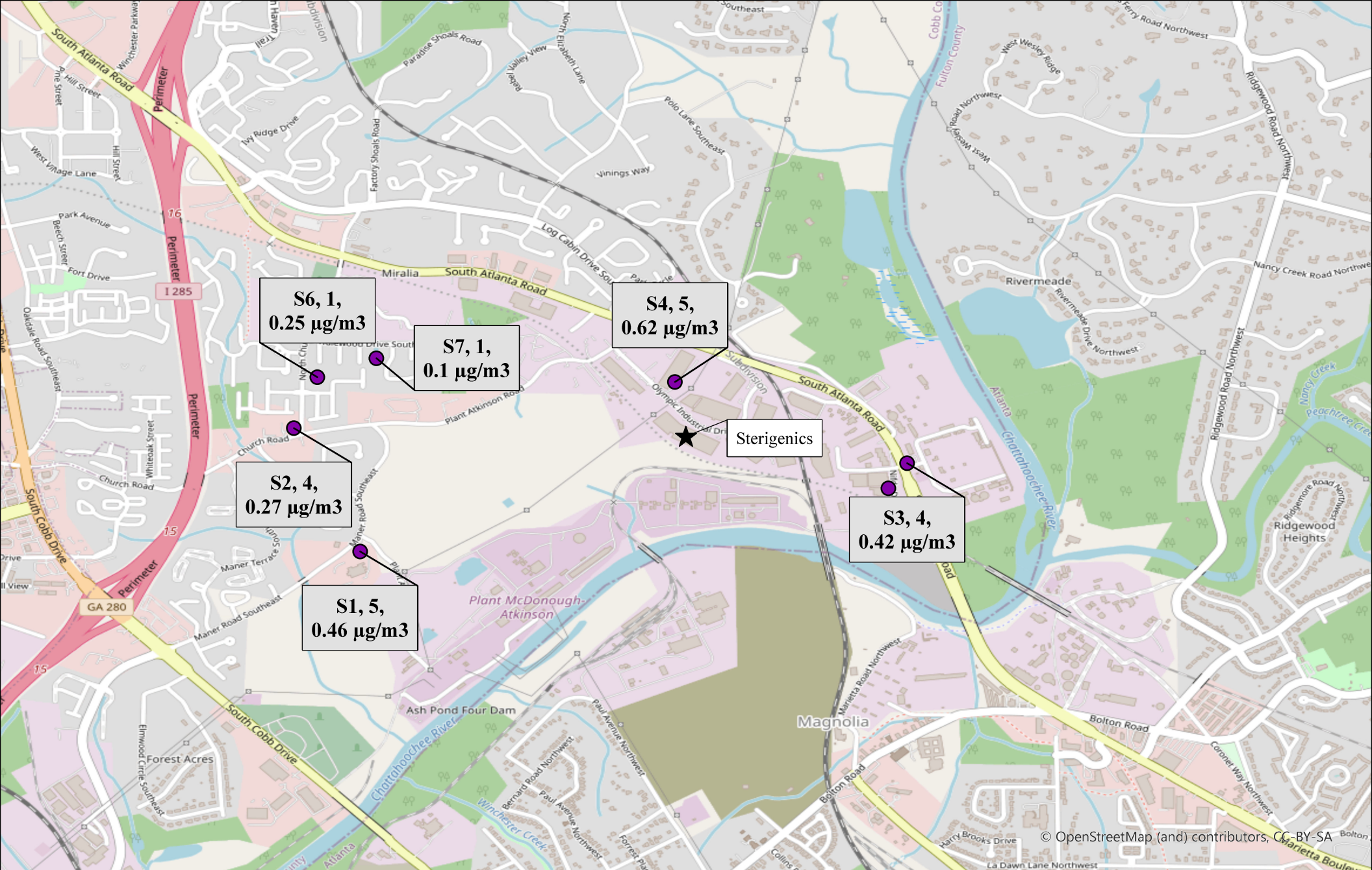
Ethylene Oxide Sampling
Cobb County, GA

01/28/2020
Sampled By: Georgia Environmental Protection Division
Analyzed By: Eastern Research Group



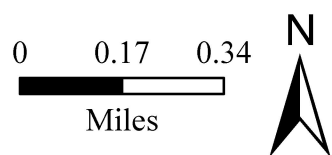
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ENVIRONMENTAL PROTECTION DIVISION



Ethylene Oxide Sampling
Cobb County, GA

January 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

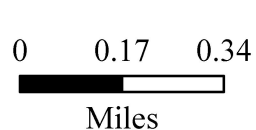
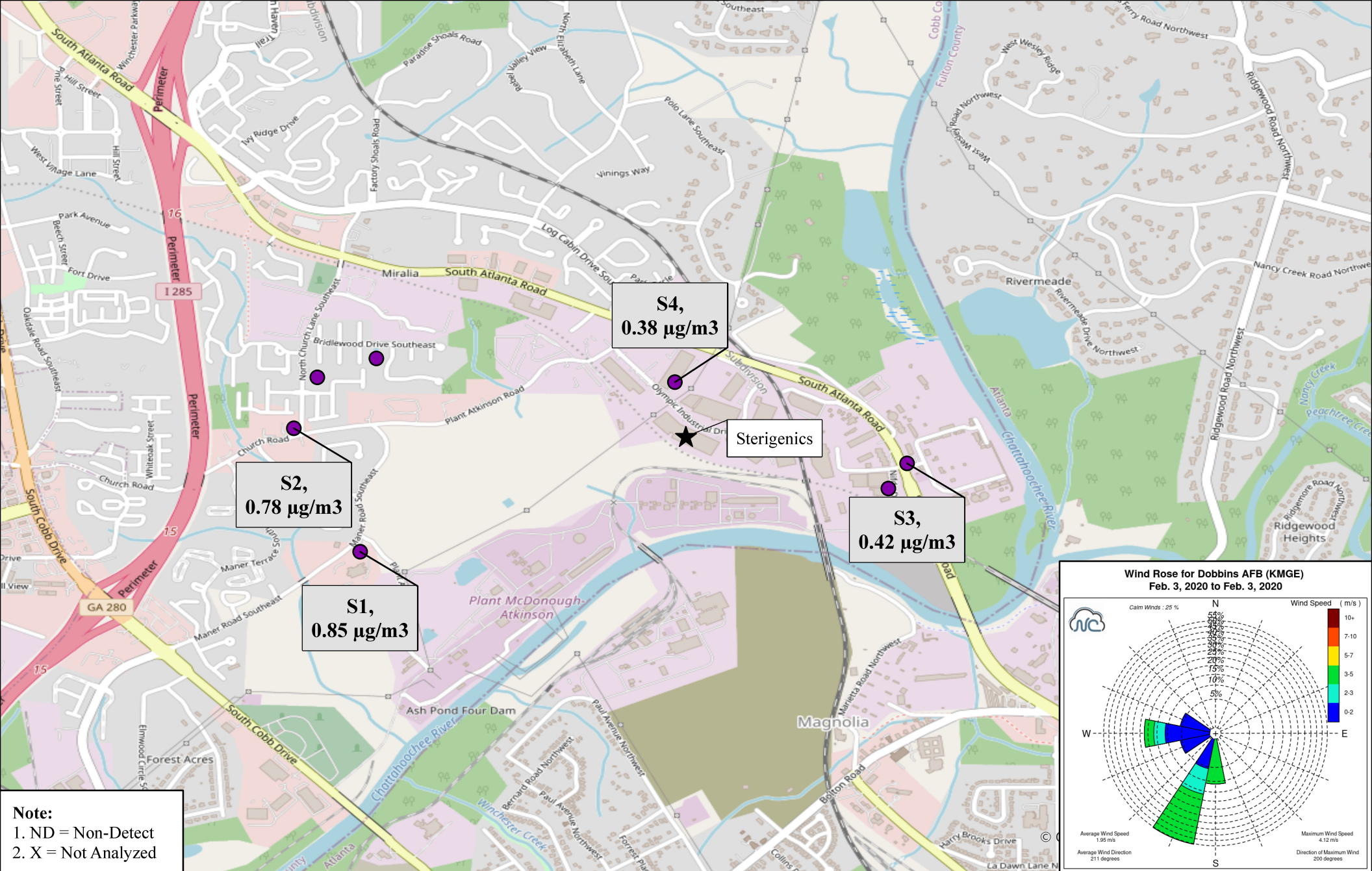


**Site ID, Number of Samples,
Concentration (µg/m3)**



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ENVIRONMENTAL PROTECTION DIVISION

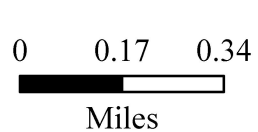
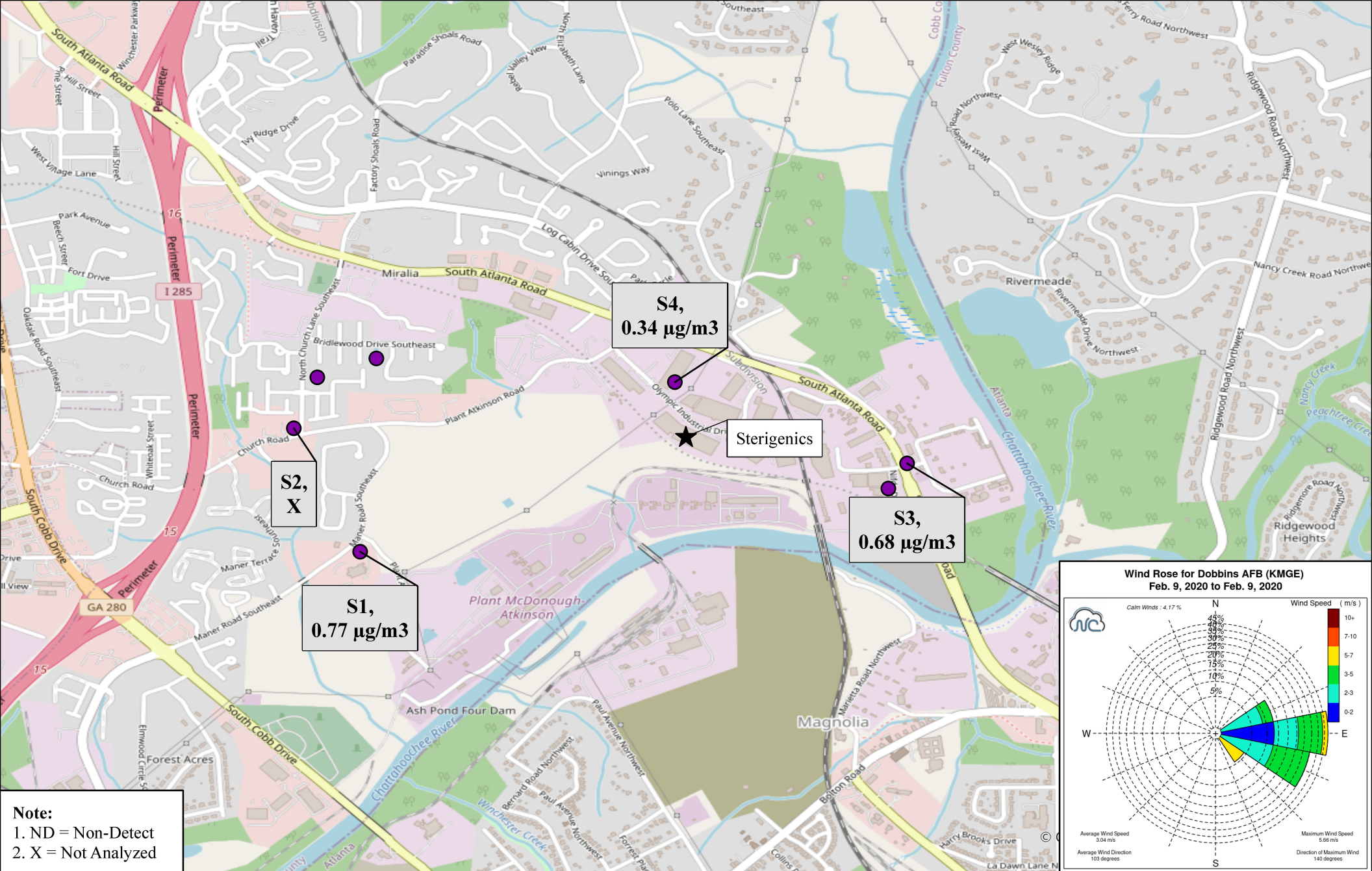


Ethylene Oxide Sampling
 Cobb County, GA

02/03/2020
 Sampled By: Georgia Environmental Protection Division
 Analyzed By: Eastern Research Group



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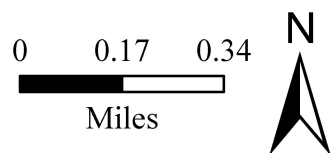
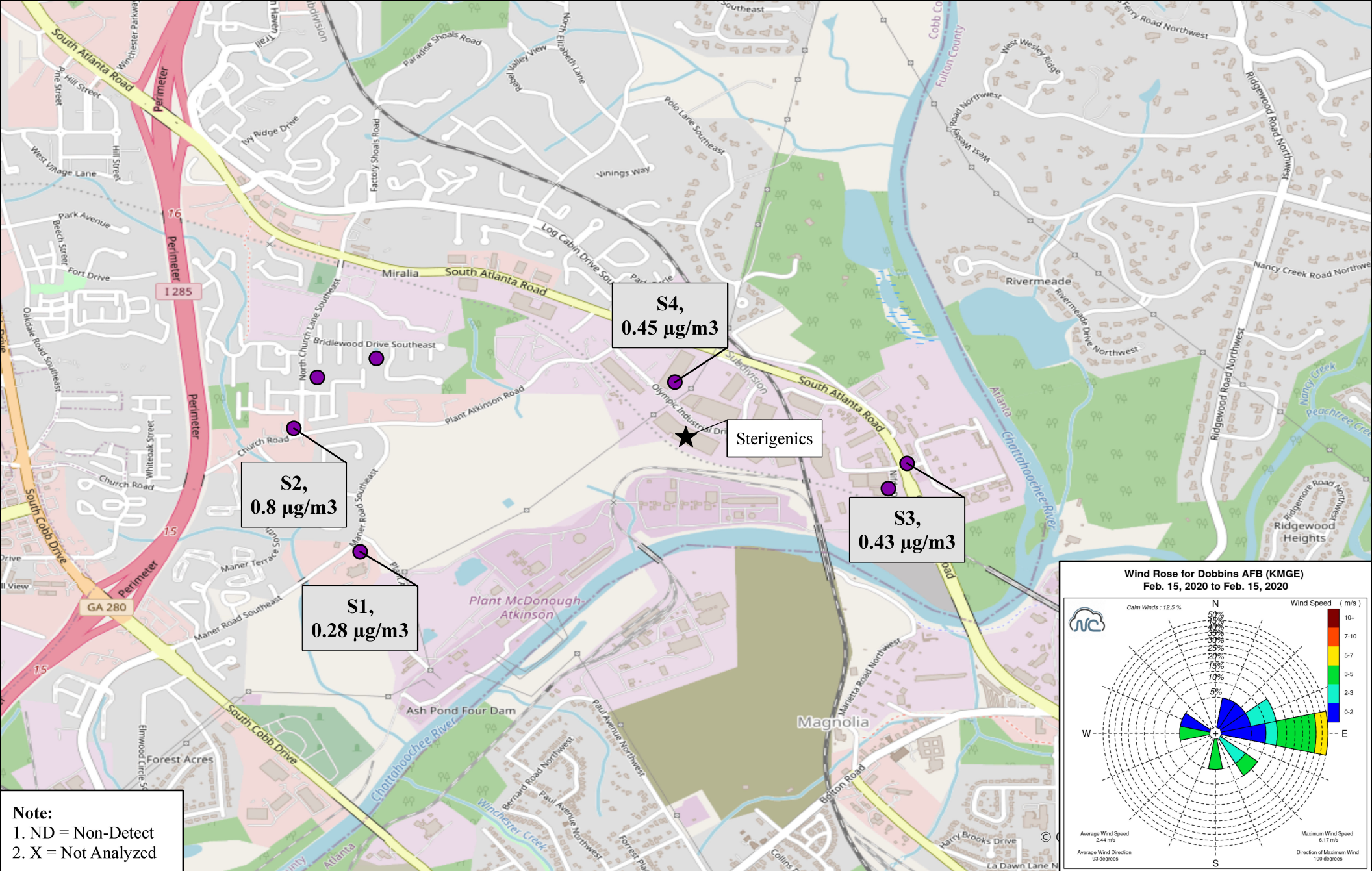
Ethylene Oxide Sampling
Cobb County, GA

02/09/2020
 Sampled By: Georgia Environmental Protection Division
 Analyzed By: Eastern Research Group



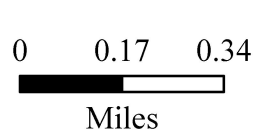
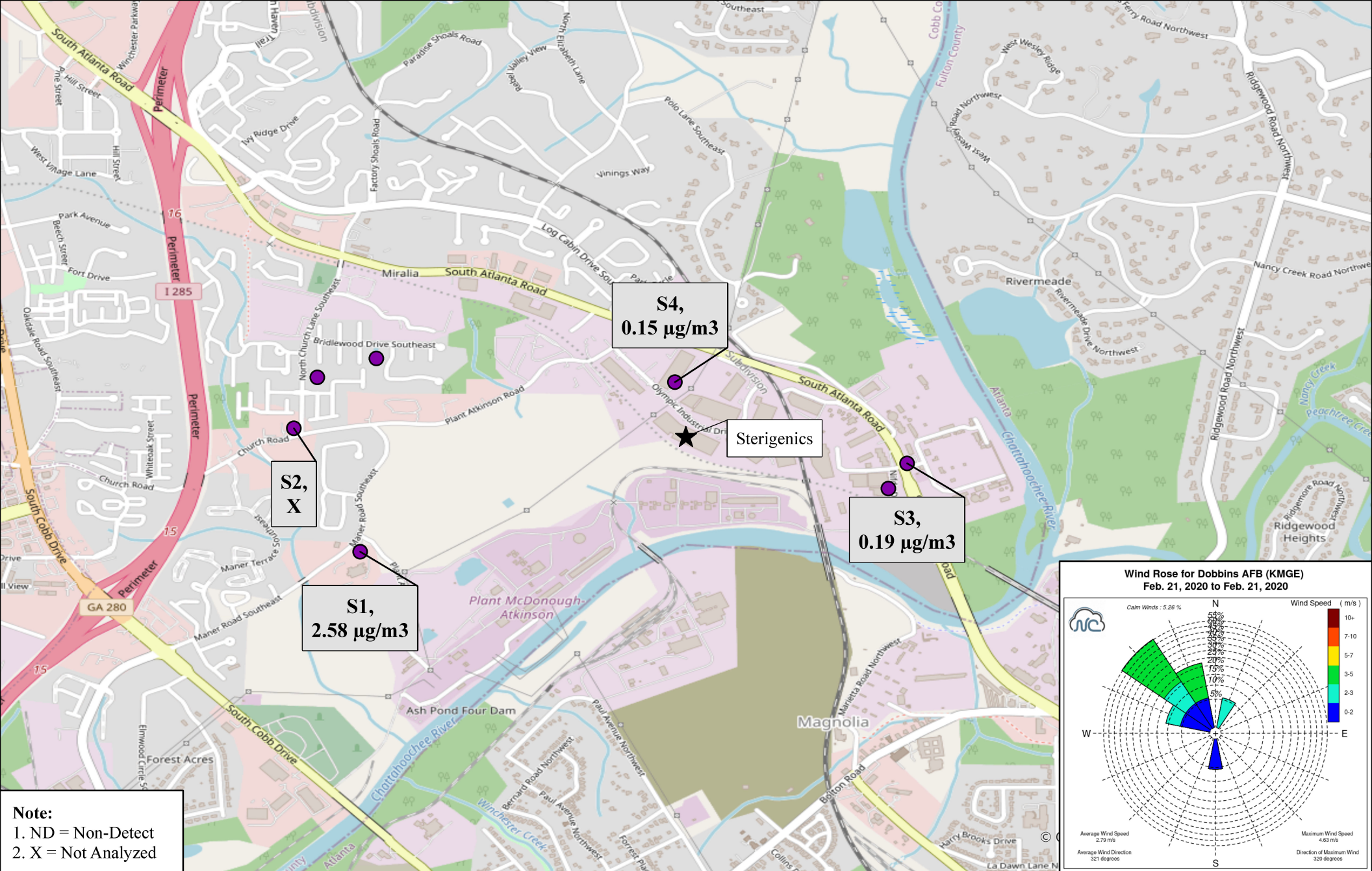
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Ethylene Oxide Sampling
Cobb County, GA

02/15/2020
Sampled By: Georgia Environmental Protection Division
Analyzed By: Eastern Research Group



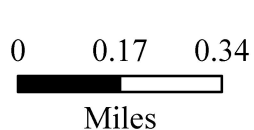
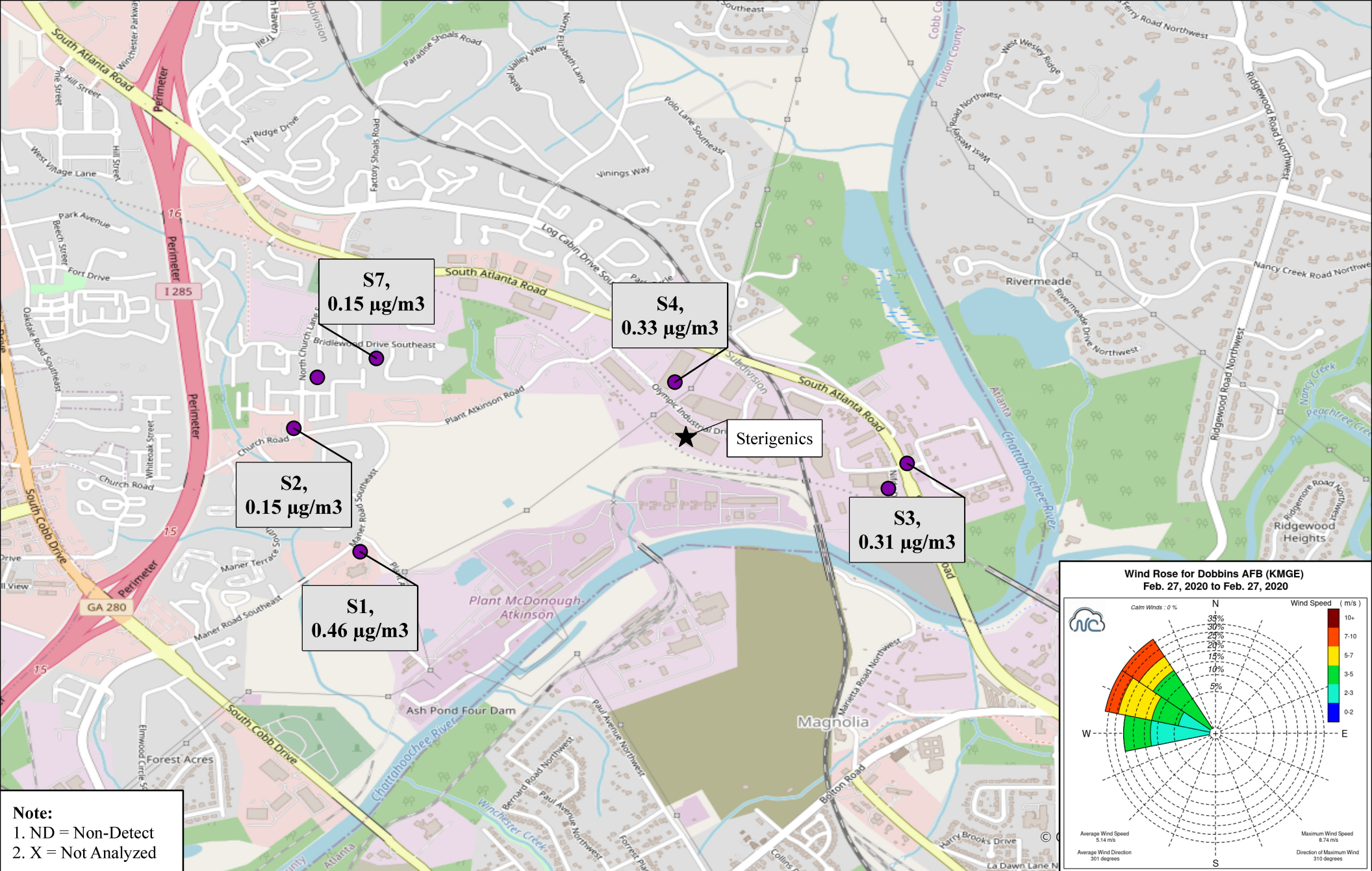
Ethylene Oxide Sampling
Cobb County, GA

02/21/2020
 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

02/27/2020

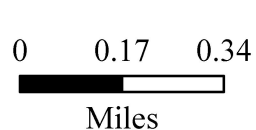
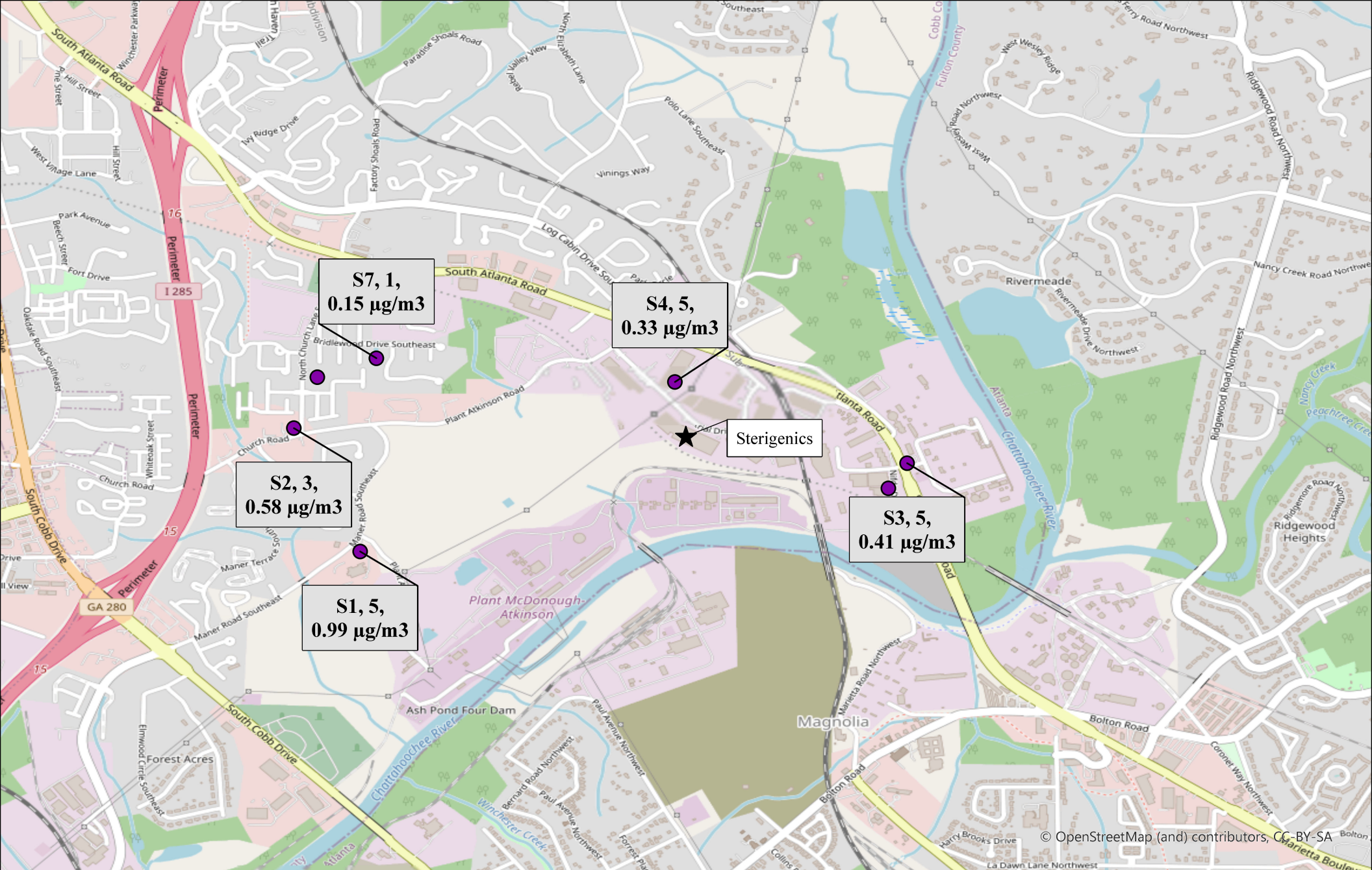
Sampled By: Georgia Environmental Protection Division

Analyzed By: Eastern Research Group



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

Ethylene Oxide Sampling
Cobb County, GA

February 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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