

January 24, 2021

MEMORANDUM

To: Karen Hays, Air Branch Chief KHL

Through: Dika Kuoh, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: Cobb September 30- October 30, 2020 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected during the period of September 30- October 30, 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 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. Sample listed in the table below as ND were reported below the method detection limit of 0.0515 ug/m³.

Location	Date	Qualifier	EtO Concentration (ug/m ³)
S1	09/30/2020	2	0.09
S1	10/06/2020		0.16
S1	10/12/2020		1.10
S1	10/18/2020		0.15
S1	10/24/2020	2	0.11
S1	10/30/2020	2	1.55
S2	09/30/2020	3, LK	0.82
S2	10/06/2020	3	0.10
S2	10/12/2020	3	0.33
S2	10/18/2020	3	0.12
S2	10/24/2020	2, 3	0.13
S2	10/30/2020	2, 3	0.15
S3	09/30/2020	LK	0.83
S3	10/06/2020		0.38
S3	10/12/2020		2.51
S3	10/18/2020	2	0.11
S3	10/24/2020	2	0.22
S3	10/30/2020	2	0.50

Location		Date		Qualifier		EtO Concentration (ug/m ³)
S4		09/30/2020				0.36
S4		10/06/2020				0.18
S4		10/12/2020		LK		0.78
S4		10/18/2020		U		ND
S4		10/24/2020				0.33
S4		10/30/2020				0.35
S4-QA		10/30/2020				0.10
S7-SA		10/30/20				0.20

If you have any questions, please let me know.

DGO/do



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

December 17, 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 10/02/20 14:16 through 11/09/20 11:50.

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: 12/17/20 10:53
SUBMITTED: 10/08/20 to 11/09/20
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	0100832-01	Air	09/30/20 23:59	10/08/20 13:03
S2	0100832-02	Air	09/30/20 23:59	10/08/20 13:03
S3	0100832-03	Air	09/30/20 23:59	10/08/20 13:03
S4	0100832-04	Air	09/30/20 23:59	10/08/20 13:03
S1	0101529-01	Air	10/06/20 23:59	10/15/20 11:15
S2	0101529-02	Air	10/06/20 23:59	10/15/20 11:15
S3	0101529-03	Air	10/06/20 23:59	10/15/20 11:15
S4	0101529-04	Air	10/06/20 23:59	10/15/20 11:15
S1	0102302-01	Air	10/12/20 23:59	10/23/20 11:41
S2	0102302-02	Air	10/12/20 23:59	10/23/20 11:41
S3	0102302-03	Air	10/12/20 23:59	10/23/20 11:41
S4	0102302-04	Air	10/12/20 23:59	10/23/20 11:41
S1	0102914-01	Air	10/18/20 23:59	10/29/20 11:44
S2	0102914-02	Air	10/18/20 23:59	10/29/20 11:44
S3	0102914-03	Air	10/18/20 23:59	10/29/20 11:44
S4	0102914-04	Air	10/18/20 23:59	10/29/20 11:44
S1	0110518-01	Air	10/24/20 23:59	11/05/20 10:53
S2	0110518-02	Air	10/24/20 23:59	11/05/20 10:53
S3	0110518-03	Air	10/24/20 23:59	11/05/20 10:53
S4	0110518-04	Air	10/24/20 23:59	11/05/20 10:53
S1	0110604-01	Air	10/30/20 23:59	11/06/20 10:43
S7-SA	0110604-02	Air	10/30/20 23:59	11/06/20 10:43



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AQS SITE CODE:

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S2	0110923-01	Air	10/30/20 23:59	11/09/20 11:50
S3	0110923-02	Air	10/30/20 23:59	11/09/20 11:50
S4	0110923-03	Air	10/30/20 23:59	11/09/20 11:50
S4 QA	0110923-04	Air	10/30/20 23:59	11/09/20 11:50



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FILE #: 4222.00

REPORTED: 12/17/20 10:53

SUBMITTED: 10/08/20 to 11/09/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S1

Lab ID: 0100832-01

Sampled: 09/30/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: 110335

Received: 10/08/20 13:03

Comments: Received at ambient pressure

Analyzed: 10/14/20 20:25

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	0.0523	0.09		0.0285



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FILE #: 4222.00

REPORTED: 12/17/20 10:53

SUBMITTED: 10/08/20 to 11/09/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S2

Lab ID: 0100832-02

Sampled: 09/30/20 23:59

Pressure @ Receipt: 3.00" Hg

Canister #: 5063

Received: 10/08/20 13:03

Comments:

Analyzed: 10/14/20 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	0.453	0.82	LK	0.0285



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FILE #: 4222.00

REPORTED: 12/17/20 10:53

SUBMITTED: 10/08/20 to 11/09/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S3

Lab ID: 0100832-03

Sampled: 09/30/20 23:59

Pressure @ Receipt: 4.50" Hg

Canister #: 5075

Received: 10/08/20 13:03

Comments:

Analyzed: 10/14/20 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	0.460	0.83	LK	0.0285



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FILE #: 4222.00

REPORTED: 12/17/20 10:53

SUBMITTED: 10/08/20 to 11/09/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S4

Lab ID: 0100832-04

Sampled: 09/30/20 23:59

Pressure @ Receipt: 4.00" Hg

Canister #: 5093

Received: 10/08/20 13:03

Comments:

Analyzed: 10/14/20 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	0.198	0.36		0.0285



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FILE #: 4222.00

REPORTED: 12/17/20 10:53

SUBMITTED: 10/08/20 to 11/09/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S1

Lab ID: 0101529-01

Sampled: 10/06/20 23:59

Pressure @ Receipt: 2.00" Hg

Canister #: 19658

Received: 10/15/20 11:15

Comments:

Analyzed: 10/16/20 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	0.0890	0.16		0.0285



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FILE #: 4222.00

REPORTED: 12/17/20 10:53

SUBMITTED: 10/08/20 to 11/09/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S2

Lab ID: 0101529-02

Sampled: 10/06/20 23:59

Pressure @ Receipt: 3.00" Hg

Canister #: 33238

Received: 10/15/20 11:15

Comments:

Analyzed: 10/16/20 23:09

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	0.0540	0.10		0.0285



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FILE #: 4222.00

REPORTED: 12/17/20 10:53

SUBMITTED: 10/08/20 to 11/09/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S3

Lab ID: 0101529-03

Sampled: 10/06/20 23:59

Pressure @ Receipt: 4.50" Hg

Canister #: A21083

Received: 10/15/20 11:15

Comments:

Analyzed: 10/17/20 00:04

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	0.209	0.38		0.0285



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FILE #: 4222.00

REPORTED: 12/17/20 10:53

SUBMITTED: 10/08/20 to 11/09/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S4

Lab ID: 0101529-04

Sampled: 10/06/20 23:59

Pressure @ Receipt: 4.00" Hg

Canister #: 18873

Received: 10/15/20 11:15

Comments:

Analyzed: 11/02/20 13:37

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	0.0967	0.18		0.0285



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FILE #: 4222.00
REPORTED: 12/17/20 10:53
SUBMITTED: 10/08/20 to 11/09/20
AQS SITE CODE:
SITE CODE: Cobb

Description: S1	Lab ID: 0102302-01	Sampled: 10/12/20 23:59
Pressure @ Receipt: 2.50" Hg	Canister #: A21006	Received: 10/23/20 11:41
Comments:		Analyzed: 11/03/20 22:19

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	0.608	1.10		0.0285



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FILE #: 4222.00

REPORTED: 12/17/20 10:53

SUBMITTED: 10/08/20 to 11/09/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S2

Lab ID: 0102302-02

Sampled: 10/12/20 23:59

Pressure @ Receipt: 3.50" Hg

Canister #: A21011

Received: 10/23/20 11:41

Comments:

Analyzed: 11/03/20 23:13

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	0.184	0.33		0.0285



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FILE #: 4222.00

REPORTED: 12/17/20 10:53

SUBMITTED: 10/08/20 to 11/09/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S3

Lab ID: 0102302-03

Sampled: 10/12/20 23:59

Pressure @ Receipt: 5.00" Hg

Canister #: 35131

Received: 10/23/20 11:41

Comments:

Analyzed: 11/04/20 00:08

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	1.39	2.51		0.0285



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FILE #: 4222.00

REPORTED: 12/17/20 10:53

SUBMITTED: 10/08/20 to 11/09/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S4

Lab ID: 0102302-04

Sampled: 10/12/20 23:59

Pressure @ Receipt: 4.50" Hg

Canister #: 22325

Received: 10/23/20 11:41

Comments:

Analyzed: 11/04/20 01:03

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	0.434	0.78	LK	0.0285



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FILE #: 4222.00

REPORTED: 12/17/20 10:53

SUBMITTED: 10/08/20 to 11/09/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S1

Lab ID: 0102914-01

Sampled: 10/18/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: 114329

Received: 10/29/20 11:44

Comments: Received at ambient pressure

Analyzed: 11/04/20 02:53

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	0.0803	0.15		0.0285



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FILE #: 4222.00

REPORTED: 12/17/20 10:53

SUBMITTED: 10/08/20 to 11/09/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S2

Lab ID: 0102914-02

Sampled: 10/18/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: 110252

Received: 10/29/20 11:44

Comments: Received at ambient pressure

Analyzed: 11/04/20 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	0.0657	0.12		0.0285



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FILE #: 4222.00

REPORTED: 12/17/20 10:53

SUBMITTED: 10/08/20 to 11/09/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S3

Lab ID: 0102914-03

Sampled: 10/18/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: 213

Received: 10/29/20 11:44

Comments: Received at ambient pressure

Analyzed: 11/04/20 04:43

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	0.0611	0.11		0.0285



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FILE #: 4222.00

REPORTED: 12/17/20 10:53

SUBMITTED: 10/08/20 to 11/09/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S4

Lab ID: 0102914-04

Sampled: 10/18/20 23:59

Pressure @ Receipt: 2.50" Hg

Canister #: 114366

Received: 10/29/20 11:44

Comments:

Analyzed: 11/04/20 05:38

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	ND	ND	U	0.0285



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FILE #: 4222.00

REPORTED: 12/17/20 10:53

SUBMITTED: 10/08/20 to 11/09/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S1

Lab ID: 0110518-01

Sampled: 10/24/20 23:59

Pressure @ Receipt: 11.00" Hg

Canister #: 114348

Received: 11/05/20 10:53

Comments:

Analyzed: 11/10/20 04:03

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	0.0619	0.11		0.0285



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FILE #: 4222.00

REPORTED: 12/17/20 10:53

SUBMITTED: 10/08/20 to 11/09/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S2

Lab ID: 0110518-02

Sampled: 10/24/20 23:59

Pressure @ Receipt: 10.50" Hg

Canister #: 110258

Received: 11/05/20 10:53

Comments:

Analyzed: 11/10/20 04:58

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	0.0733	0.13		0.0285



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FILE #: 4222.00

REPORTED: 12/17/20 10:53

SUBMITTED: 10/08/20 to 11/09/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S3

Lab ID: 0110518-03

Sampled: 10/24/20 23:59

Pressure @ Receipt: 11.50" Hg

Canister #: 19666

Received: 11/05/20 10:53

Comments:

Analyzed: 11/13/20 01:02

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	0.122	0.22		0.0285



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: 12/17/20 10:53

SUBMITTED: 10/08/20 to 11/09/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S4

Lab ID: 0110518-04

Sampled: 10/24/20 23:59

Pressure @ Receipt: 5.50" Hg

Canister #: A21021

Received: 11/05/20 10:53

Comments:

Analyzed: 11/13/20 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	0.184	0.33		0.0285



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FILE #: 4222.00

REPORTED: 12/17/20 10:53

SUBMITTED: 10/08/20 to 11/09/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S1

Lab ID: 0110604-01

Sampled: 10/30/20 23:59

Pressure @ Receipt: 0" Hg

Canister #: SAT184

Received: 11/06/20 10:43

Comments:

Analyzed: 11/23/20 17:55

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	0.858	1.55	LK	0.0285



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FILE #: 4222.00

REPORTED: 12/17/20 10:53

SUBMITTED: 10/08/20 to 11/09/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S7-SA

Lab ID: 0110604-02

Sampled: 10/30/20 23:59

Pressure @ Receipt: 4.00" Hg

Canister #: A21040

Received: 11/06/20 10:43

Comments:

Analyzed: 11/23/20 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	0.109	0.20		0.0285



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ATTN: Ms. Jaime Gore

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

FILE #: 4222.00

REPORTED: 12/17/20 10:53

SUBMITTED: 10/08/20 to 11/09/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S2

Lab ID: 0110923-01

Sampled: 10/30/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: 18833

Received: 11/09/20 11:50

Comments: Received at ambient pressure

Analyzed: 11/23/20 21:35

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	0.0854	0.15		0.0285



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ATTN: Ms. Jaime Gore

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

FILE #: 4222.00

REPORTED: 12/17/20 10:53

SUBMITTED: 10/08/20 to 11/09/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S3

Lab ID: 0110923-02

Sampled: 10/30/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: 5131

Received: 11/09/20 11:50

Comments: Received at ambient pressure

Analyzed: 11/23/20 22:29

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	0.276	0.50		0.0285



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FILE #: 4222.00

REPORTED: 12/17/20 10:53

SUBMITTED: 10/08/20 to 11/09/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S4

Lab ID: 0110923-03

Sampled: 10/30/20 23:59

Pressure @ Receipt: 3.00" Hg

Canister #: A21106

Received: 11/09/20 11:50

Comments:

Analyzed: 11/23/20 23:24

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	0.191	0.35		0.0285



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

FILE #: 4222.00

REPORTED: 12/17/20 10:53

SUBMITTED: 10/08/20 to 11/09/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S4 QA

Lab ID: 0110923-04

Sampled: 10/30/20 23:59

Pressure @ Receipt: 4.50" Hg

Canister #: 19660

Received: 11/09/20 11:50

Comments:

Analyzed: 11/24/20 01:14

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	0.0562	0.10		0.0285



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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: 12/17/20 10:53
SUBMITTED: 10/08/20 to 11/09/20
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 B0J1405 - Summa Canister Prep</i>						
Blank (B0J1405-BLK1)			Prepared & Analyzed: 10/14/20			
Ethylene oxide	ND	ppbv				U
<i>Batch B0J1604 - Summa Canister Prep</i>						
Blank (B0J1604-BLK1)			Prepared & Analyzed: 10/16/20			
Ethylene oxide	ND	ppbv				U
<i>Batch B0K0204 - Summa Canister Prep</i>						
Blank (B0K0204-BLK1)			Prepared & Analyzed: 11/02/20			
Ethylene oxide	ND	ppbv				U
Duplicate (B0K0204-DUP1)			Source: 0101529-04 Prepared: 10/06/20 Analyzed: 11/02/20			
Ethylene oxide	0.105	ppbv	0.10	7.85	25	
<i>Batch B0K0309 - Summa Canister Prep</i>						
Blank (B0K0309-BLK1)			Prepared & Analyzed: 11/03/20			
Ethylene oxide	ND	ppbv				U
<i>Batch B0K0906 - Summa Canister Prep</i>						
Blank (B0K0906-BLK1)			Prepared & Analyzed: 11/09/20			
Ethylene oxide	ND	ppbv				U
<i>Batch B0K1204 - Summa Canister Prep</i>						
Blank (B0K1204-BLK1)			Prepared & Analyzed: 11/12/20			
Ethylene oxide	ND	ppbv				U
<i>Batch B0K2310 - Summa Canister Prep</i>						
Blank (B0K2310-BLK1)			Prepared & Analyzed: 11/23/20			
Ethylene oxide	ND	ppbv				U
Duplicate (B0K2310-DUP1)			Source: 0110604-02 Prepared: 10/30/20 Analyzed: 11/23/20			
Ethylene oxide	0.105	ppbv	0.11	4.10	25	
Duplicate (B0K2310-DUP2)			Source: 0110923-03 Prepared: 10/30/20 Analyzed: 11/24/20			
Ethylene oxide	0.198	ppbv	0.19	3.45	25	
Duplicate (B0K2310-DUP3)			Source: 0110923-04 Prepared: 10/30/20 Analyzed: 11/24/20			
Ethylene oxide	0.0550	ppbv	0.06	2.16	25	



CERTIFICATE OF ANALYSIS

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FILE #: 4222.00
REPORTED: 12/17/20 10:53
SUBMITTED: 10/08/20 to 11/09/20
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 2010018

Calibration Check (2010018-CCV1)

Prepared & Analyzed: 10/07/20

Ethylene oxide	2.98	ppbv	20.5	30.00
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Sequence 2010029

Calibration Check (2010029-CCV1)

Prepared & Analyzed: 10/14/20

Ethylene oxide	2.90	ppbv	17.3	30.00
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Sequence 2010035

Calibration Check (2010035-CCV1)

Prepared & Analyzed: 10/16/20

Ethylene oxide	3.08	ppbv	24.6	30.00
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Sequence 2011002

Calibration Check (2011002-CCV1)

Prepared & Analyzed: 11/02/20

Ethylene oxide	2.73	ppbv	9.2	30.00
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Sequence 2011006

Calibration Check (2011006-CCV1)

Prepared & Analyzed: 11/03/20

Ethylene oxide	3.00	ppbv	20.2	30.00
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Sequence 2011016

Calibration Check (2011016-CCV1)

Prepared & Analyzed: 11/09/20

Ethylene oxide	2.94	ppbv	17.6	30.00
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Sequence 2011025

Calibration Check (2011025-CCV1)

Prepared & Analyzed: 11/12/20

Ethylene oxide	3.21	ppbv	28.5	30.00
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Sequence 2011048

Calibration Check (2011048-CCV1)

Prepared & Analyzed: 11/23/20

Ethylene oxide	2.79	ppbv	13.0	30.00
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FILE #: 4222.00

REPORTED: 12/17/20 10:53

SUBMITTED: 10/08/20 to 11/09/20

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: 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.



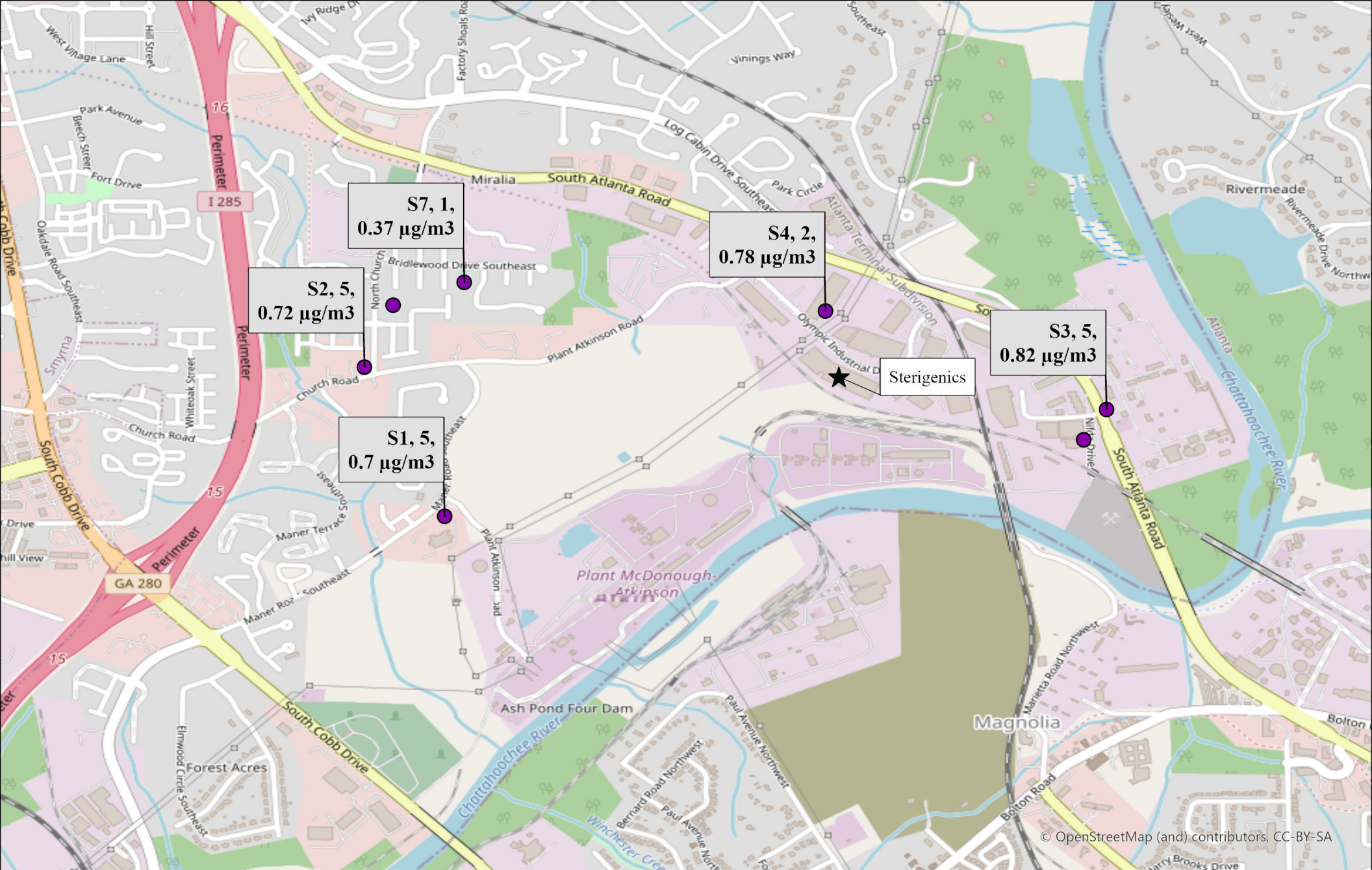
Ethylene Oxide Sampling
 Cobb County, GA

09/30/2020
 Sampled By: Georgia Environmental Protection Division
 Analyzed By: Eastern Research Group



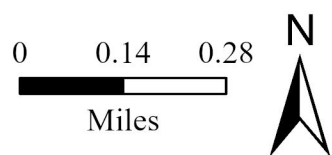
GEORGIA
 DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL PROTECTION DIVISION



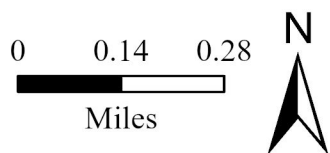
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Ethylene Oxide Sampling Cobb County, GA



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

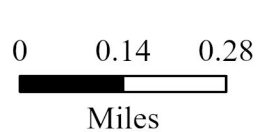
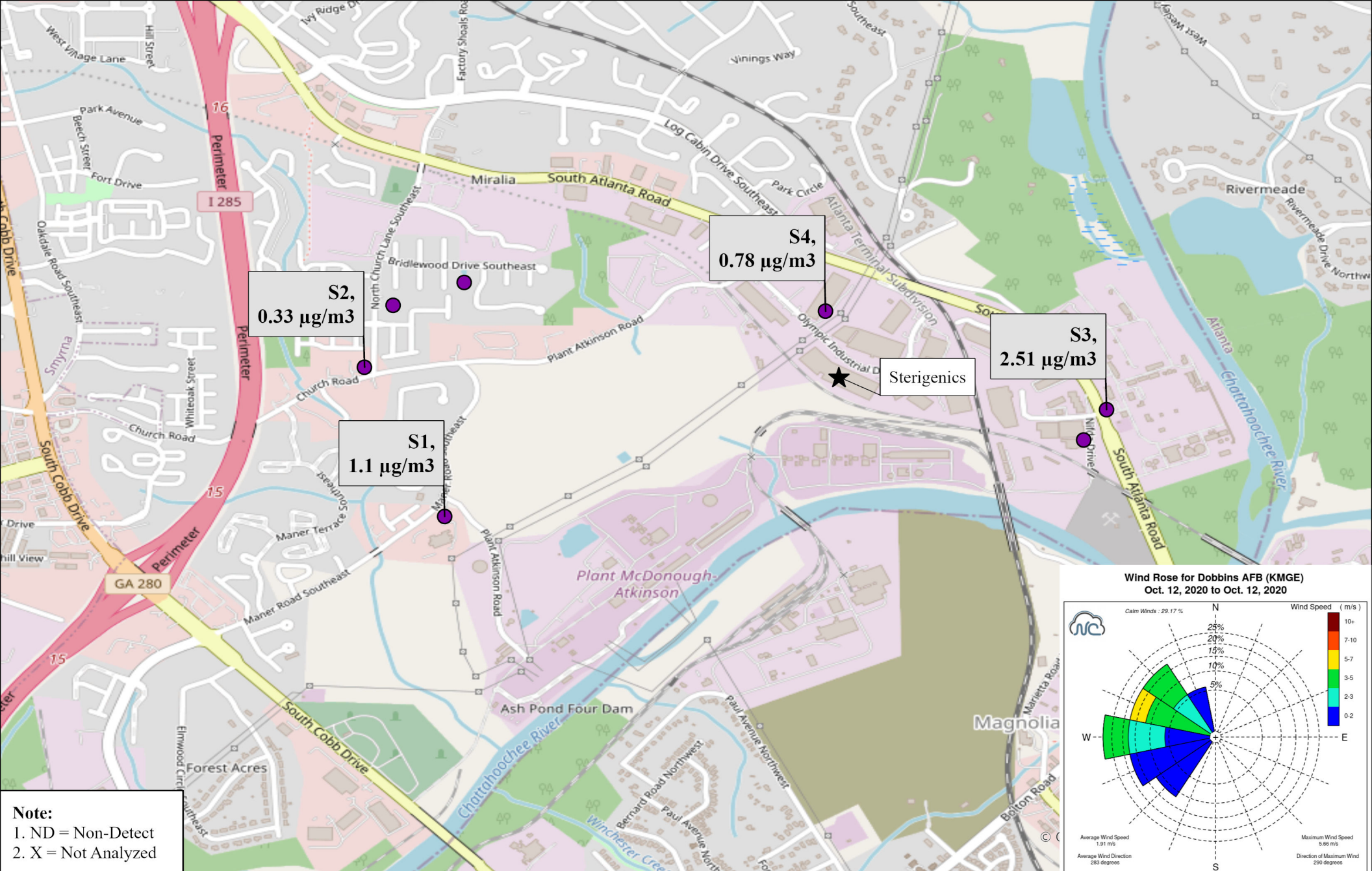
September 2020 Site Average Values
Note: Not detectable values were included in average calculations as a value of 0.
Sampled By: Georgia Environmental Protection Division
Analyzed By: Eastern Research Group



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

Ethylene Oxide Sampling
Cobb County, GA

10/06/2020
Sampled By: Georgia Environmental Protection Division
Analyzed By: Eastern Research Group



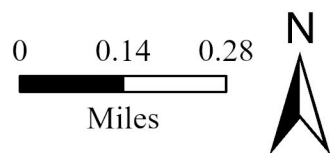
Site ID, Concentration ($\mu\text{g}/\text{m}^3$)

Ethylene Oxide Sampling
 Cobb County, GA

10/12/2020
 Sampled By: Georgia Environmental Protection Division
 Analyzed By: Eastern Research Group



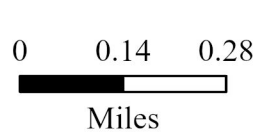
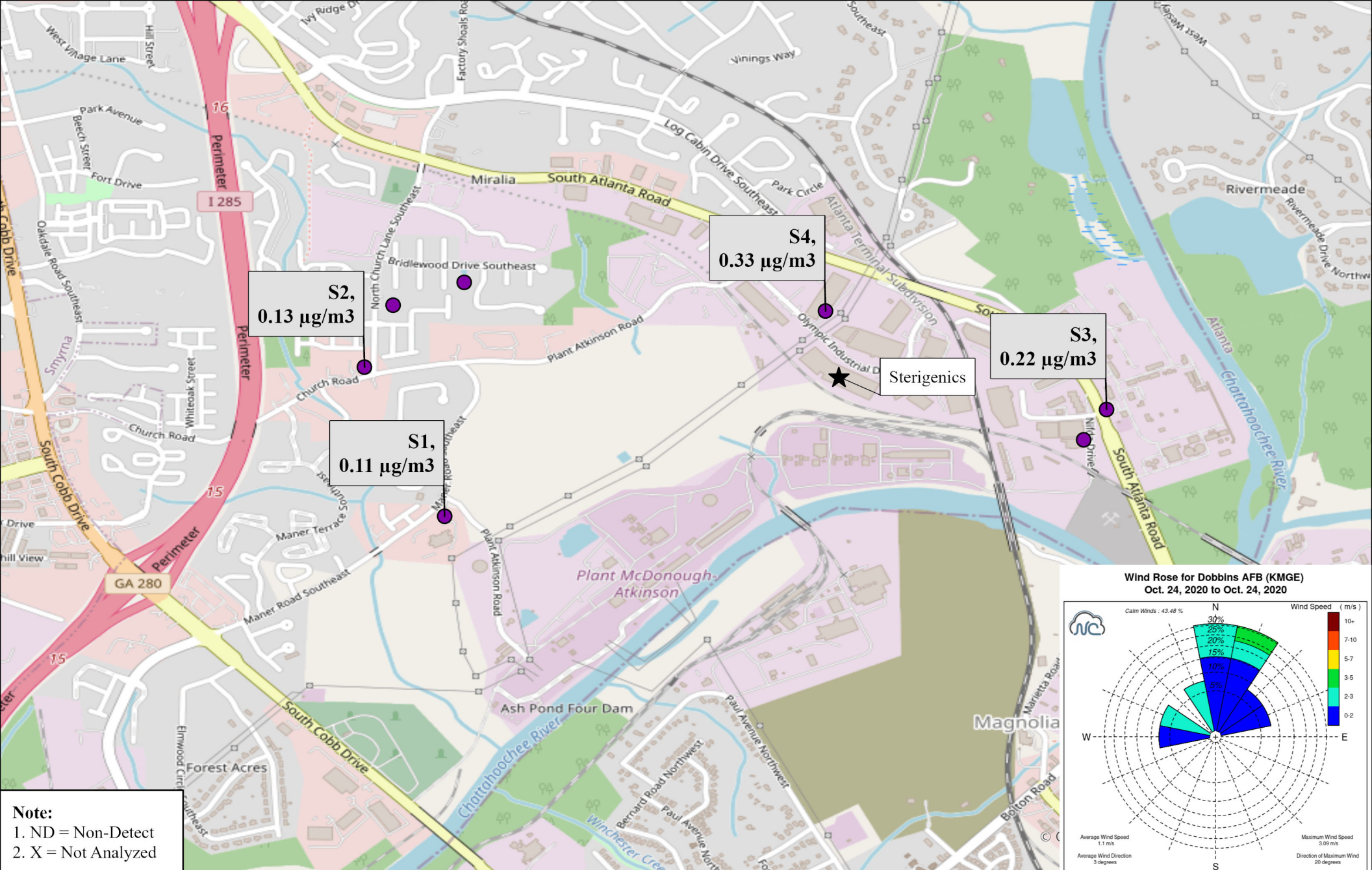
GEORGIA
 DEPARTMENT OF NATURAL RESOURCES
 ENVIRONMENTAL PROTECTION DIVISION



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

Ethylene Oxide Sampling
 Cobb County, GA

10/18/2020
 Sampled By: Georgia Environmental Protection Division
 Analyzed By: Eastern Research Group



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

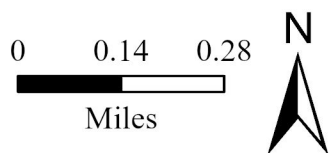
Ethylene Oxide Sampling
 Cobb County, GA

10/24/2020
 Sampled By: Georgia Environmental Protection Division
 Analyzed By: Eastern Research Group



GEORGIA
 DEPARTMENT OF NATURAL RESOURCES

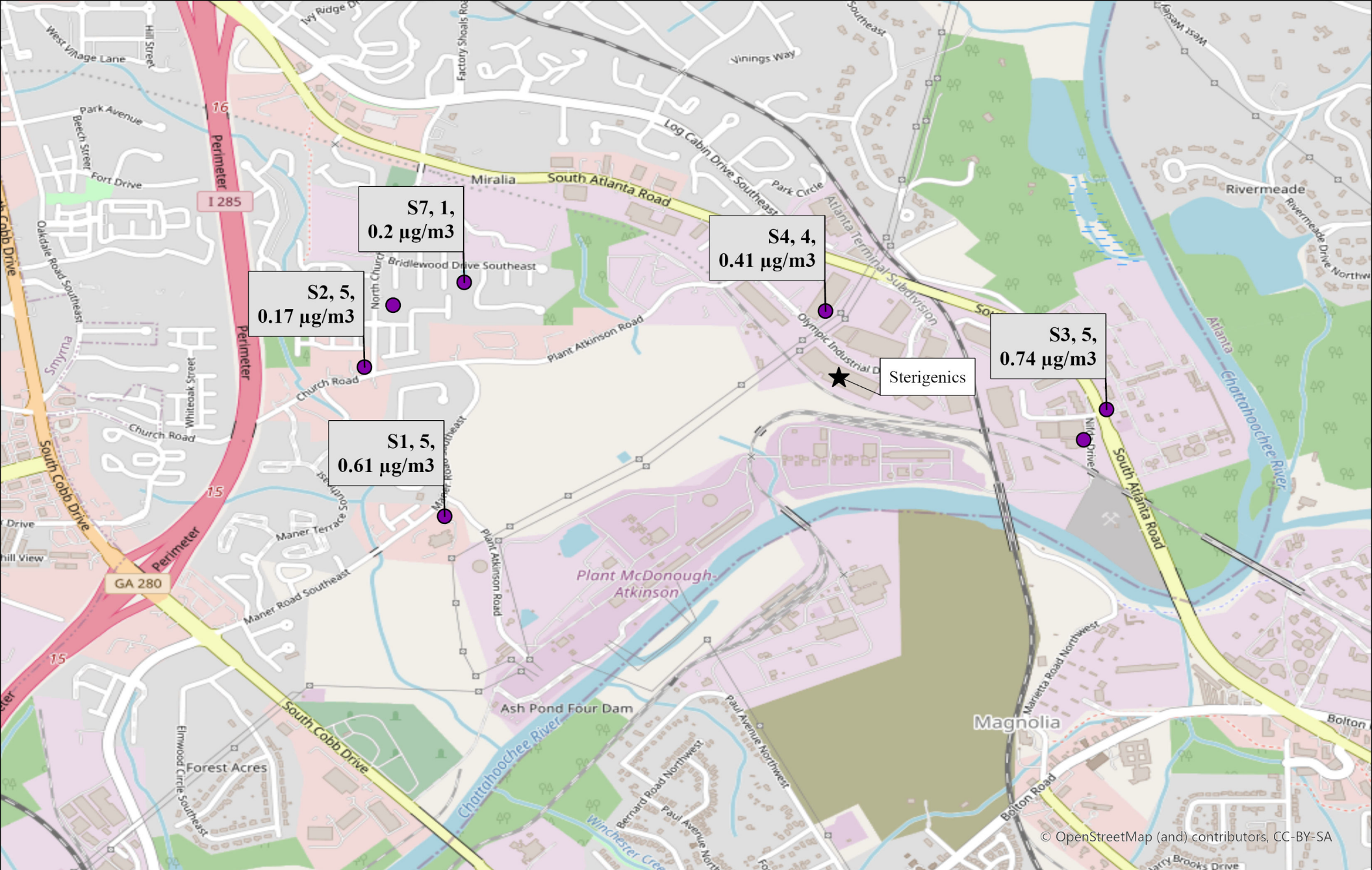
ENVIRONMENTAL PROTECTION DIVISION



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

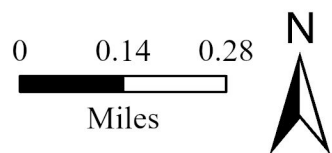
Ethylene Oxide Sampling
 Cobb County, GA

10/30/2020
 Sampled By: Georgia Environmental Protection Division
 Analyzed By: Eastern Research Group



Ethylene Oxide Sampling
Cobb County, GA

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