

March 16, 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 5- November 23, 2020 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected during the period of November 5- November 23, 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	11/05/2020	LK, 2	0.93
S1	11/11/2020		0.22
S1	11/17/2020	LK, 2	0.73
S1	11/23/2020	LK, 2	0.39
S2	11/05/2020	2, 3	0.20
S2	11/11/2020	LK, 3	6.46
S2	11/17/2020	3	0.09
S2	11/23/2020	3	0.18
S3	11/05/2020		0.27
S3	11/11/2020		0.52
S3	11/17/2020		0.27
S3	11/23/2020		0.06
S4	11/05/2020		0.19
S4	11/11/2020	LK	0.90
S4	11/17/2020	2	0.16
S4	11/23/2020		0.06

Location		Date		Qualifier		EtO Concentration (ug/m ³)
S4-QA		11/17/2020		2		0.15
S6-SA		11/23/2020		U, 2		ND
S7-SA		11/23/2020				0.09

If you have any questions, please let me know.

DGO/do



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

January 07, 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 11/12/20 11:49 through 12/04/20 11:00.

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: 01/07/21 14:50
SUBMITTED: 11/12/20 to 12/04/20
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	0111209-01	Air	11/05/20 23:59	11/12/20 11:49
S2	0111209-02	Air	11/05/20 23:59	11/12/20 11:49
S3	0111209-03	Air	11/05/20 23:59	11/12/20 11:49
S4	0111209-04	Air	11/05/20 23:59	11/12/20 11:49
S1	0112512-01	Air	11/11/20 23:59	11/25/20 12:13
S2	0112512-02	Air	11/11/20 23:59	11/25/20 12:13
S3	0112512-03	Air	11/11/20 23:59	11/25/20 12:13
S4	0112512-04	Air	11/11/20 23:59	11/25/20 12:13
S1	0112512-05	Air	11/17/20 23:59	11/25/20 12:13
S2	0112512-06	Air	11/17/20 23:59	11/25/20 12:13
S3	0112512-07	Air	11/17/20 23:59	11/25/20 12:13
S4	0112512-08	Air	11/17/20 23:59	11/25/20 12:13
S4 QA	0112512-09	Air	11/17/20 23:59	11/25/20 12:13
S1	0120410-01	Air	11/23/20 23:59	12/04/20 11:00
S2	0120410-03	Air	11/23/20 23:59	12/04/20 11:00
S3	0120410-05	Air	11/23/20 23:59	12/04/20 11:00
S4	0120410-07	Air	11/23/20 23:59	12/04/20 11:00
S6-SA	0120410-09	Air	11/23/20 23:59	12/04/20 11:00
S7-SA	0120410-10	Air	11/23/20 23:59	12/04/20 11:00



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FILE #: 4222.00

REPORTED: 01/07/21 14:50

SUBMITTED: 11/12/20 to 12/04/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S1

Lab ID: 0111209-01

Sampled: 11/05/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: SAT051

Received: 11/12/20 11:49

Comments: Received at ambient pressure

Analyzed: 11/24/20 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	0.514	0.93	LK	0.0285



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FILE #: 4222.00

REPORTED: 01/07/21 14:50

SUBMITTED: 11/12/20 to 12/04/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S2

Lab ID: 0111209-02

Sampled: 11/05/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: AZ45

Received: 11/12/20 11:49

Comments:

Analyzed: 11/24/20 20:04

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	0.110	0.20		0.0285



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FILE #: 4222.00

REPORTED: 01/07/21 14:50

SUBMITTED: 11/12/20 to 12/04/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S3

Lab ID: 0111209-03

Sampled: 11/05/20 23:59

Pressure @ Receipt: 3.00" Hg

Canister #: SAT174

Received: 11/12/20 11:49

Comments:

Analyzed: 11/24/20 20:59

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	0.151	0.27		0.0285



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FILE #: 4222.00

REPORTED: 01/07/21 14:50

SUBMITTED: 11/12/20 to 12/04/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S4

Lab ID: 0111209-04

Sampled: 11/05/20 23:59

Pressure @ Receipt: 2.50" Hg

Canister #: A21055

Received: 11/12/20 11:49

Comments:

Analyzed: 11/24/20 21:53

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	0.103	0.19		0.0285



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FILE #: 4222.00

REPORTED: 01/07/21 14:50

SUBMITTED: 11/12/20 to 12/04/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S1

Lab ID: 0112512-01

Sampled: 11/11/20 23:59

Pressure @ Receipt: 3.00" Hg

Canister #: SAT061

Received: 11/25/20 12:13

Comments:

Analyzed: 12/02/20 22:32

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	0.121	0.22		0.0285



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FILE #: 4222.00

REPORTED: 01/07/21 14:50

SUBMITTED: 11/12/20 to 12/04/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S2

Lab ID: 0112512-02

Sampled: 11/11/20 23:59

Pressure @ Receipt: 3.50" Hg

Canister #: 35118

Received: 11/25/20 12:13

Comments:

Analyzed: 12/02/20 23:27

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	3.58	6.46	LK	0.0285



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FILE #: 4222.00

REPORTED: 01/07/21 14:50

SUBMITTED: 11/12/20 to 12/04/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S3

Lab ID: 0112512-03

Sampled: 11/11/20 23:59

Pressure @ Receipt: 5.50" Hg

Canister #: SAT156

Received: 11/25/20 12:13

Comments:

Analyzed: 12/03/20 00:22

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	0.289	0.52		0.0285



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FILE #: 4222.00

REPORTED: 01/07/21 14:50

SUBMITTED: 11/12/20 to 12/04/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S4

Lab ID: 0112512-04

Sampled: 11/11/20 23:59

Pressure @ Receipt: 4.50" Hg

Canister #: SAT023

Received: 11/25/20 12:13

Comments:

Analyzed: 12/03/20 01:16

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	0.496	0.90	LK	0.0285



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FILE #: 4222.00

REPORTED: 01/07/21 14:50

SUBMITTED: 11/12/20 to 12/04/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S1

Lab ID: 0112512-05

Sampled: 11/17/20 23:59

Pressure @ Receipt: 0.75 "Hg

Canister #: 35111

Received: 11/25/20 12:13

Comments:

Analyzed: 12/03/20 02:11

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	0.404	0.73	LK	0.0285



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FILE #: 4222.00

REPORTED: 01/07/21 14:50

SUBMITTED: 11/12/20 to 12/04/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S2

Lab ID: 0112512-06

Sampled: 11/17/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: 33243

Received: 11/25/20 12:13

Comments: Received at ambient pressure

Analyzed: 12/03/20 03:06

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	0.0503	0.09		0.0285



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FILE #: 4222.00

REPORTED: 01/07/21 14:50

SUBMITTED: 11/12/20 to 12/04/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S3

Lab ID: 0112512-07

Sampled: 11/17/20 23:59

Pressure @ Receipt: 3.00" Hg

Canister #: 35117

Received: 11/25/20 12:13

Comments:

Analyzed: 12/03/20 04:01

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	0.152	0.27		0.0285



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FILE #: 4222.00

REPORTED: 01/07/21 14:50

SUBMITTED: 11/12/20 to 12/04/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S4

Lab ID: 0112512-08

Sampled: 11/17/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: A21050

Received: 11/25/20 12:13

Comments: Received at ambient pressure

Analyzed: 12/03/20 04:55

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	0.0867	0.16		0.0285



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FILE #: 4222.00

REPORTED: 01/07/21 14:50

SUBMITTED: 11/12/20 to 12/04/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S4 QA

Lab ID: 0112512-09

Sampled: 11/17/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: A21026

Received: 11/25/20 12:13

Comments: Received at ambient pressure

Analyzed: 12/03/20 06:45

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	0.0829	0.15		0.0285



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FILE #: 4222.00

REPORTED: 01/07/21 14:50

SUBMITTED: 11/12/20 to 12/04/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S1

Lab ID: 0120410-01

Sampled: 11/23/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: SAT110

Received: 12/04/20 11:00

Comments: Received at ambient pressure

Analyzed: 12/15/20 01:43

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	0.216	0.39	LK	0.0285



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FILE #: 4222.00

REPORTED: 01/07/21 14:50

SUBMITTED: 11/12/20 to 12/04/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S2

Lab ID: 0120410-03

Sampled: 11/23/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: 35148

Received: 12/04/20 11:00

Comments: Received at ambient pressure

Analyzed: 12/15/20 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	0.0986	0.18		0.0285



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FILE #: 4222.00

REPORTED: 01/07/21 14:50

SUBMITTED: 11/12/20 to 12/04/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S3

Lab ID: 0120410-05

Sampled: 11/23/20 23:59

Pressure @ Receipt: 2.50" Hg

Canister #: 33309

Received: 12/04/20 11:00

Comments:

Analyzed: 12/15/20 03:33

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	0.0318	0.06		0.0285



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FILE #: 4222.00

REPORTED: 01/07/21 14:50

SUBMITTED: 11/12/20 to 12/04/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S4

Lab ID: 0120410-07

Sampled: 11/23/20 23:59

Pressure @ Receipt: 2.50" Hg

Canister #: A21044

Received: 12/04/20 11:00

Comments:

Analyzed: 12/15/20 04:29

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	0.0344	0.06		0.0285



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FILE #: 4222.00

REPORTED: 01/07/21 14:50

SUBMITTED: 11/12/20 to 12/04/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S6-SA

Lab ID: 0120410-09

Sampled: 11/23/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: 19644

Received: 12/04/20 11:00

Comments: Received at ambient pressure

Analyzed: 12/15/20 05:24

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	ND	ND	U	0.0285



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FILE #: 4222.00

REPORTED: 01/07/21 14:50

SUBMITTED: 11/12/20 to 12/04/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S7-SA

Lab ID: 0120410-10

Sampled: 11/23/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: 33503

Received: 12/04/20 11:00

Comments: Received at ambient pressure

Analyzed: 12/15/20 22:13

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	0.0512	0.09		0.0285



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FILE #: 4222.00
REPORTED: 01/07/21 14:50
SUBMITTED: 11/12/20 to 12/04/20
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 B0K2406 - Summa Canister Prep

Blank (B0K2406-BLK1)

Prepared & Analyzed: 11/24/20

Ethylene oxide	ND	ppbv				U
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Batch B0K3008 - Summa Canister Prep

Blank (B0K3008-BLK1)

Prepared: 11/30/20 Analyzed: 12/02/20

Ethylene oxide	ND	ppbv				U
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Duplicate (B0K3008-DUP3)

Source: 0112512-08

Prepared: 11/17/20 Analyzed: 12/03/20

Ethylene oxide	0.0914	ppbv	0.09	5.28	25	
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Duplicate (B0K3008-DUP4)

Source: 0112512-09

Prepared: 11/17/20 Analyzed: 12/03/20

Ethylene oxide	0.0772	ppbv	0.08	7.12	25	
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Batch B0L1003 - Summa Canister Prep

Blank (B0L1003-BLK1)

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

Ethylene oxide	ND	ppbv				U
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Duplicate (B0L1003-DUP3)

Source: 0120410-09

Prepared: 11/23/20 Analyzed: 12/15/20

Ethylene oxide	0.0342	ppbv	ND		25	
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Batch B0L1506 - Summa Canister Prep

Blank (B0L1506-BLK1)

Prepared & Analyzed: 12/15/20

Ethylene oxide	ND	ppbv				U
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Duplicate (B0L1506-DUP1)

Source: 0120410-10

Prepared: 11/23/20 Analyzed: 12/15/20

Ethylene oxide	0.0477	ppbv	0.05	7.08	25	
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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: 01/07/21 14:50
SUBMITTED: 11/12/20 to 12/04/20
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 2011051

Calibration Check (2011051-CCV1)

Prepared & Analyzed: 11/24/20

Ethylene oxide	3.03	ppbv	22.6	30.00
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Sequence 2011062

Calibration Check (2011062-CCV1)

Prepared: 11/30/20 Analyzed: 12/02/20

Ethylene oxide	3.08	ppbv	23.3	30.00
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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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FILE #: 4222.00

REPORTED: 01/07/21 14:50

SUBMITTED: 11/12/20 to 12/04/20

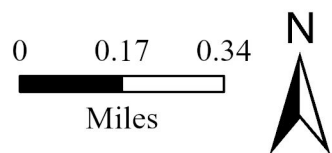
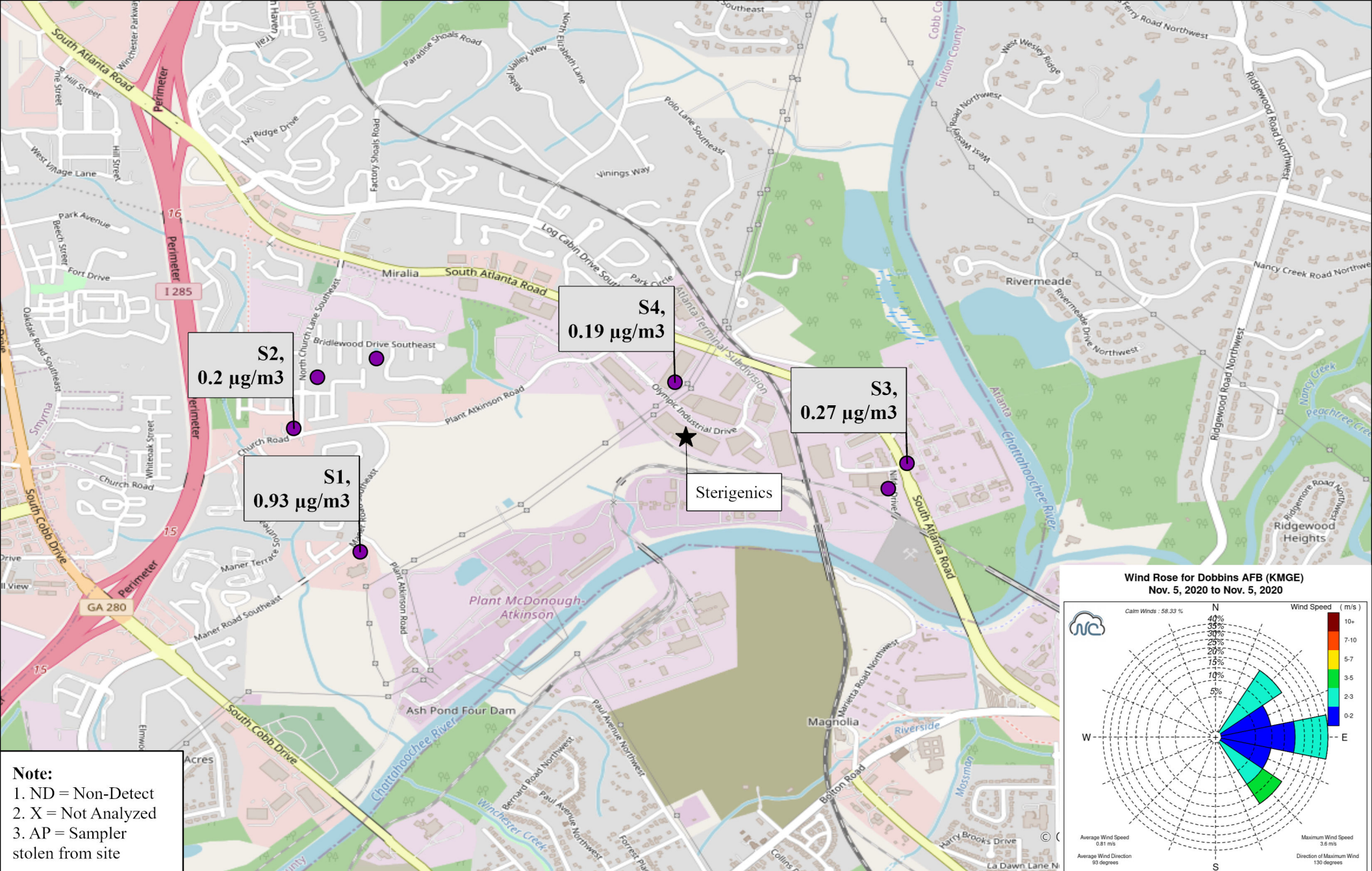
AQS SITE CODE:

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.

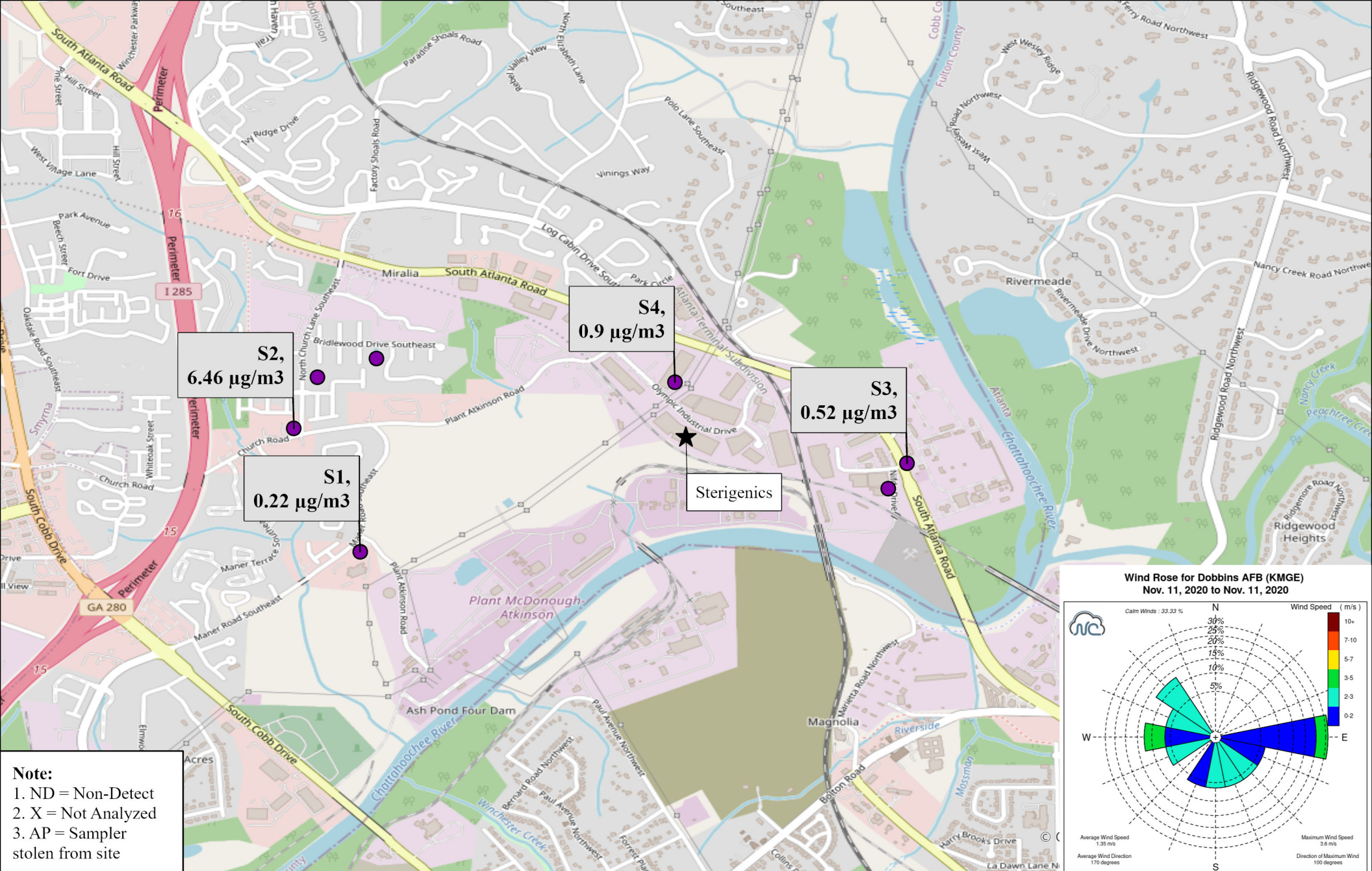
Note: This test is accredited under the 2016 TNI Standard; however the following analytes are not accredited: acetylene, bromodichloroethane, dichlorotetrafluoromethane, ethyl tert butyl ether, n-octane, tert amyl methyl ether, trichlorofluoroethane, and bromochloromethane.



Site ID, Concentration (µg/m3)

Ethylene Oxide Sampling
 Cobb County, GA

11/05/2020
 Sampled By: Georgia Environmental Protection Division
 Analyzed By: Eastern Research Group



0 0.17 0.34
 Miles



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

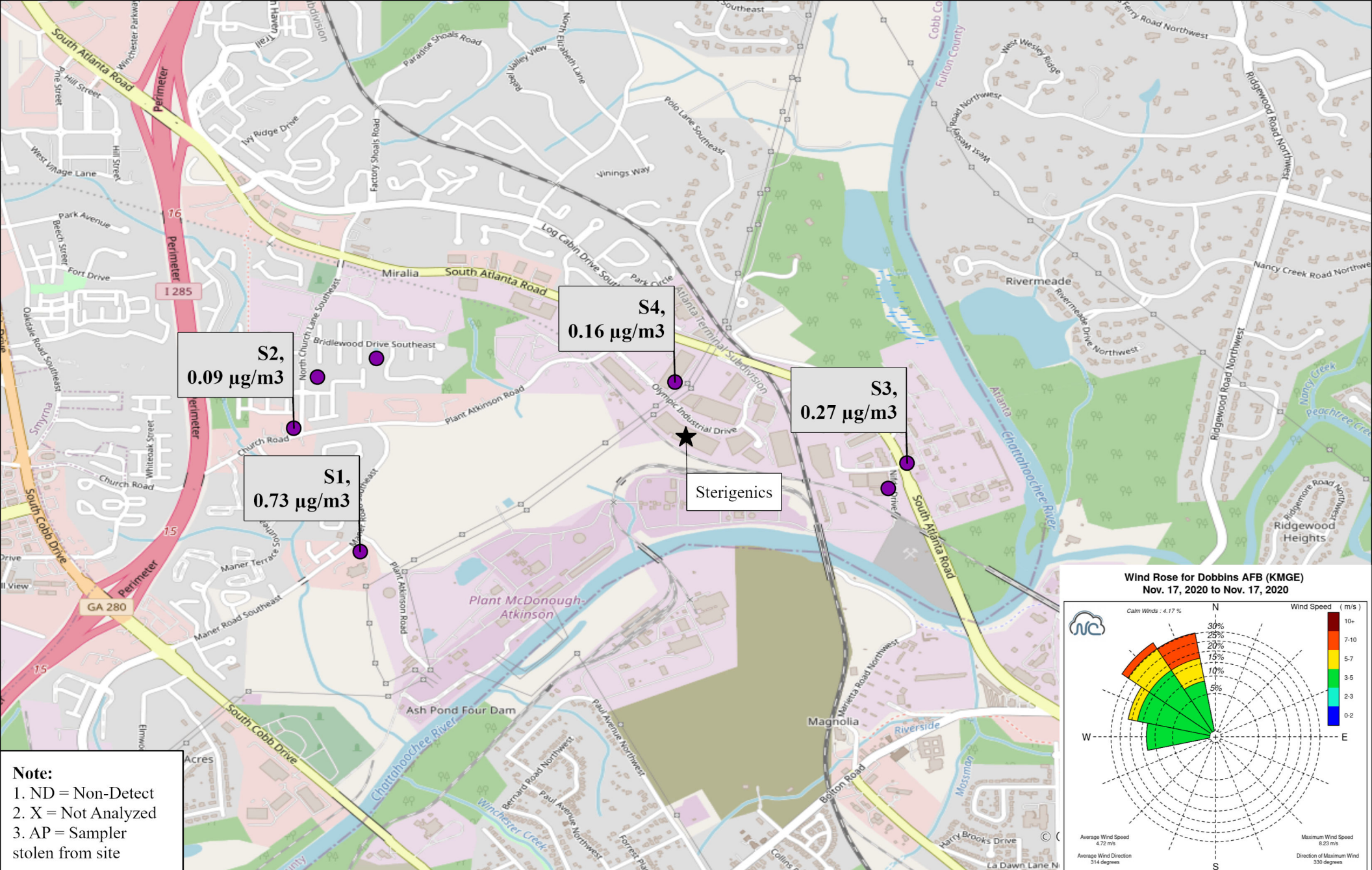
Ethylene Oxide Sampling
 Cobb County, GA

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



GEORGIA
 DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL PROTECTION DIVISION



0 0.17 0.34
 Miles



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

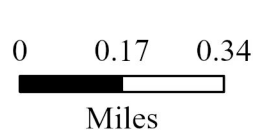
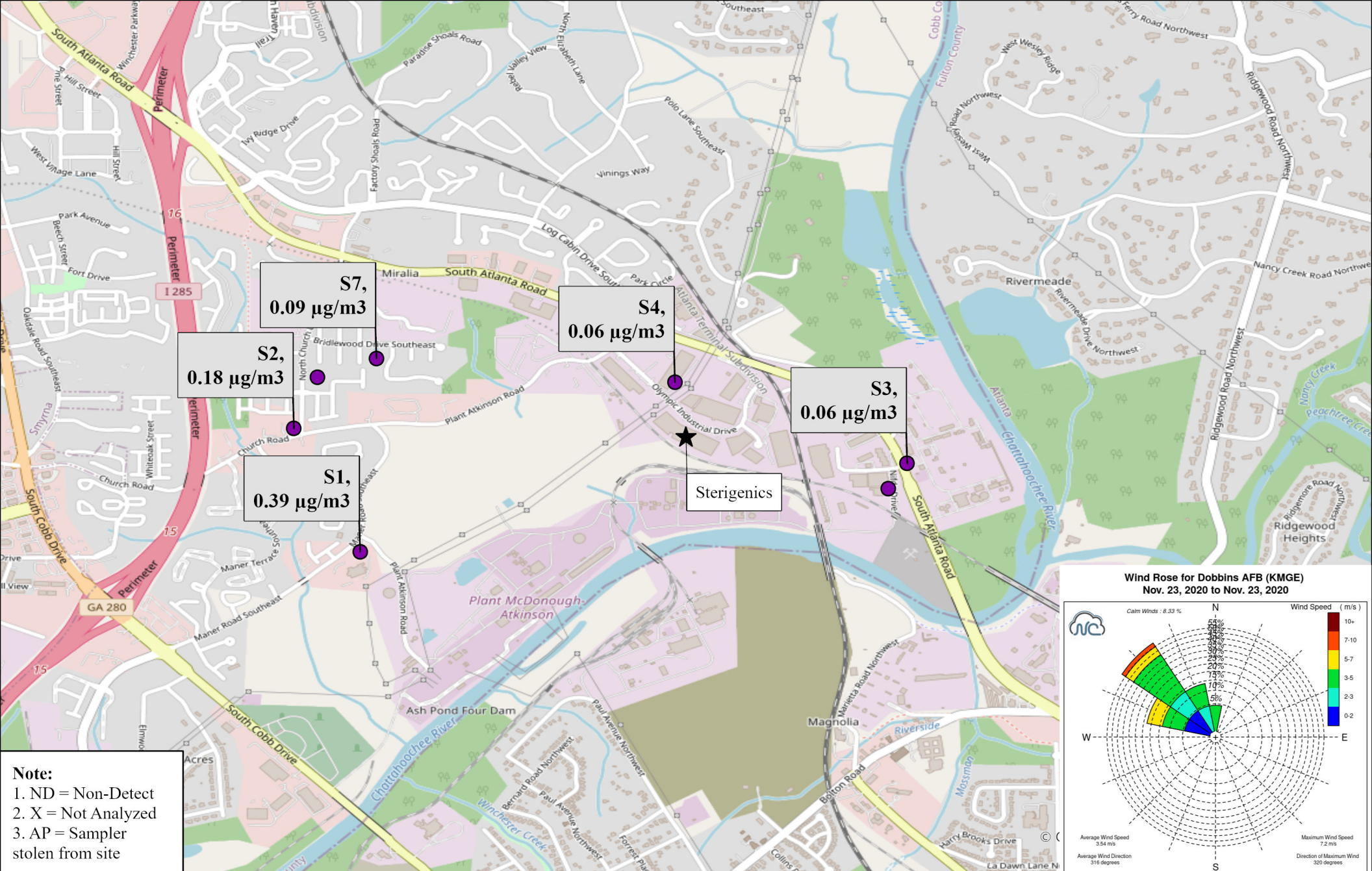
Ethylene Oxide Sampling
 Cobb County, GA

11/17/2020
 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

11/23/2020
 Sampled By: Georgia Environmental Protection Division
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