



ENVIRONMENTAL PROTECTION DIVISION

September 16, 2020

MEMORANDUM

To: Karen Hays, Air Branch Chief *KH*

Through: Dika Kuoh, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: Cobb July 2- July 20, 2020 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected during the period of July 2 - July 20, 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 "LK" was given by ERG to indicate that the sample may be biased high. 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	07/02/2020	2	0.14
S1	07/08/2020	2	0.33
S1	07/14/2020		0.15
S1	07/20/2020		1.10
S2	07/02/2020		0.20
S2	07/08/2020		0.18
S2	07/14/2020		0.40
S2	07/20/2020	2	0.31
S3	07/02/2020	2	0.76
S3	07/08/2020	2	0.44
S3	07/14/2020	2	0.27
S3	07/20/2020		0.89
S4	07/02/2020	LK	0.85
S4	07/08/2020	2	0.44
S4	07/14/2020	2	0.86
S4	07/20/2020	2	0.45
S4 QA	07/08/2020	2	0.60
S6 SA	07/20/2020		0.30
S7 SA	07/20/2020	2	0.68

If you have any questions, please let me know.

DGO/do



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

August 25, 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 07/09/20 10:53 through 07/29/20 12:13.

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: 08/25/20 08:49

SUBMITTED: 07/09/20 to 07/29/20

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>
S1	0070929-01	Air	07/02/20 23:59	07/09/20 10:53
S2	0070929-02	Air	07/02/20 23:59	07/09/20 10:53
S3	0070929-03	Air	07/02/20 23:59	07/09/20 10:53
S4	0070929-04	Air	07/02/20 23:59	07/09/20 10:53
S1	0071532-01	Air	07/08/20 23:59	07/15/20 10:58
S2	0071532-02	Air	07/08/20 23:59	07/15/20 10:58
S3	0071532-03	Air	07/08/20 23:59	07/15/20 10:58
S4	0071532-04	Air	07/08/20 23:59	07/15/20 10:58
S4-QA	0071532-05	Air	07/08/20 23:59	07/15/20 10:58
S1	0072413-01	Air	07/14/20 23:59	07/24/20 12:12
S2	0072413-02	Air	07/14/20 23:59	07/24/20 12:12
S3	0072413-03	Air	07/14/20 23:59	07/24/20 12:12
S4	0072413-04	Air	07/14/20 23:59	07/24/20 12:12
S1	0072930-01	Air	07/20/20 23:59	07/29/20 12:13
S2	0072930-02	Air	07/20/20 23:59	07/29/20 12:13
S3	0072930-03	Air	07/20/20 23:59	07/29/20 12:13
S4	0072930-04	Air	07/20/20 23:59	07/29/20 12:13
S6-SA	0072930-05	Air	07/20/20 23:59	07/29/20 12:13
S7-SA	0072930-06	Air	07/20/20 23:59	07/29/20 12:13



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FILE #: 4222.00

REPORTED: 08/25/20 08:49

SUBMITTED: 07/09/20 to 07/29/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S2

Lab ID: 0070929-02

Sampled: 07/02/20 23:59

Pressure @ Receipt: 6.00" Hg

Canister #: SAT051

Received: 07/09/20 10:53

Comments:

Analyzed: 07/14/20 05:00

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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FILE #: 4222.00

REPORTED: 08/25/20 08:49

SUBMITTED: 07/09/20 to 07/29/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S4

Lab ID: 0070929-04

Sampled: 07/02/20 23:59

Pressure @ Receipt: 1.00" Hg

Canister #: A21015

Received: 07/09/20 10:53

Comments:

Analyzed: 08/01/20 07:45

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	0.470	0.85	LK	0.0285



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FILE #: 4222.00

REPORTED: 08/25/20 08:49

SUBMITTED: 07/09/20 to 07/29/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S1

Lab ID: 0071532-01

Sampled: 07/08/20 23:59

Pressure @ Receipt: 7.00" Hg

Canister #: 5032

Received: 07/15/20 10:58

Comments:

Analyzed: 08/05/20 16:26

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	0.180	0.33		0.0285



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FILE #: 4222.00

REPORTED: 08/25/20 08:49

SUBMITTED: 07/09/20 to 07/29/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S4

Lab ID: 0071532-04

Sampled: 07/08/20 23:59

Pressure @ Receipt: 0" Hg

Canister #: A21082

Received: 07/15/20 10:58

Comments: Received at ambient

Analyzed: 08/05/20 19:13

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	0.245	0.44		0.0285



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FILE #: 4222.00
 REPORTED: 08/25/20 08:49
 SUBMITTED: 07/09/20 to 07/29/20
 AQS SITE CODE:
 SITE CODE: Cobb

Description: S4-QA	Lab ID: 0071532-05	Sampled: 07/08/20 23:59
Pressure @ Receipt: 0" Hg	Canister #: A21036	Received: 07/15/20 10:58
Comments: Received at ambient		Analyzed: 08/05/20 21:03

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	0.330	0.60		0.0285



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FILE #: 4222.00

REPORTED: 08/25/20 08:49

SUBMITTED: 07/09/20 to 07/29/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S2

Lab ID: 0072413-02

Sampled: 07/14/20 23:59

Pressure @ Receipt: 7.00" Hg

Canister #: SAT024

Received: 07/24/20 12:12

Comments:

Analyzed: 08/07/20 02:15

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	0.219	0.40		0.0285



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FILE #: 4222.00
 REPORTED: 08/25/20 08:49
 SUBMITTED: 07/09/20 to 07/29/20
 AQS SITE CODE:
 SITE CODE: Cobb

Description: S3	Lab ID: 0072413-03	Sampled: 07/14/20 23:59
Pressure @ Receipt: 7.00" Hg	Canister #: 18864	Received: 07/24/20 12:12
Comments:		Analyzed: 08/07/20 17:46

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	0.148	0.27		0.0285



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FILE #: 4222.00

REPORTED: 08/25/20 08:49

SUBMITTED: 07/09/20 to 07/29/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S4	Lab ID: 0072413-04	Sampled: 07/14/20 23:59
Pressure @ Receipt: 0.00" Hg	Canister #: 0053	Received: 07/24/20 12:12
Comments: Received at ambient pressure		Analyzed: 08/07/20 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	0.475	0.86		0.0285



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FILE #: 4222.00

REPORTED: 08/25/20 08:49

SUBMITTED: 07/09/20 to 07/29/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S1

Lab ID: 0072930-01

Sampled: 07/20/20 23:59

Pressure @ Receipt: 2.50" Hg

Canister #: SAT152

Received: 07/29/20 12:13

Comments:

Analyzed: 08/07/20 22:21

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	0.607	1.10		0.0285



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FILE #: 4222.00
 REPORTED: 08/25/20 08:49
 SUBMITTED: 07/09/20 to 07/29/20
 AQS SITE CODE:
 SITE CODE: Cobb

Description: S2	Lab ID: 0072930-02	Sampled: 07/20/20 23:59
Pressure @ Receipt: 2.50" Hg	Canister #: 19651	Received: 07/29/20 12:13
Comments:		Analyzed: 08/07/20 23:16

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	0.174	0.31		0.0285



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FILE #: 4222.00

REPORTED: 08/25/20 08:49

SUBMITTED: 07/09/20 to 07/29/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S3

Lab ID: 0072930-03

Sampled: 07/20/20 23:59

Pressure @ Receipt: 3.50" Hg

Canister #: 19291

Received: 07/29/20 12:13

Comments:

Analyzed: 08/08/20 00:11

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	0.492	0.89		0.0285



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FILE #: 4222.00

REPORTED: 08/25/20 08:49

SUBMITTED: 07/09/20 to 07/29/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S4	Lab ID: 0072930-04	Sampled: 07/20/20 23:59
Pressure @ Receipt: 0.00" Hg	Canister #: 5044	Received: 07/29/20 12:13
Comments: Received at ambient pressure		Analyzed: 08/08/20 01:06

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	0.248	0.45		0.0285



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FILE #: 4222.00

REPORTED: 08/25/20 08:49

SUBMITTED: 07/09/20 to 07/29/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S6-SA

Lab ID: 0072930-05

Sampled: 07/20/20 23:59

Pressure @ Receipt: 2.00" Hg

Canister #: 19277

Received: 07/29/20 12:13

Comments:

Analyzed: 08/08/20 02:01

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	0.167	0.30		0.0285



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FILE #: 4222.00

REPORTED: 08/25/20 08:49

SUBMITTED: 07/09/20 to 07/29/20

AQS SITE CODE:

SITE CODE: Cobb

Description: S7-SA

Lab ID: 0072930-06

Sampled: 07/20/20 23:59

Pressure @ Receipt: 0.00" Hg

Canister #: SAT003

Received: 07/29/20 12:13

Comments: Received at ambient pressure

Analyzed: 08/08/20 03:51

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	0.375	0.68		0.0285



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

FILE #: 4222.00
REPORTED: 08/25/20 08:49
SUBMITTED: 07/09/20 to 07/29/20
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 B0G1308 - Summa Canister Prep

Blank (B0G1308-BLK1)

Prepared & Analyzed: 07/13/20

Ethylene oxide	ND	ppbv				U
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Batch B0H0304 - Summa Canister Prep

Blank (B0H0304-BLK1)

Prepared: 07/28/20 Analyzed: 08/01/20

Ethylene oxide	ND	ppbv				U
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Batch B0H0507 - Summa Canister Prep

Blank (B0H0507-BLK1)

Prepared & Analyzed: 08/05/20

Ethylene oxide	ND	ppbv				U
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Duplicate (B0H0507-DUP1)

Source: 0071532-04

Prepared: 07/08/20 Analyzed: 08/05/20

Ethylene oxide	0.258	ppbv	0.25	4.97	25	
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Duplicate (B0H0507-DUP2)

Source: 0071532-05

Prepared: 07/08/20 Analyzed: 08/05/20

Ethylene oxide	0.314	ppbv	0.33	4.79	25	
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Batch B0H0606 - Summa Canister Prep

Blank (B0H0606-BLK1)

Prepared & Analyzed: 08/06/20

Ethylene oxide	ND	ppbv				U
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Batch B0H0705 - Summa Canister Prep

Blank (B0H0705-BLK1)

Prepared & Analyzed: 08/07/20

Ethylene oxide	ND	ppbv				U
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Duplicate (B0H0705-DUP2)

Source: 0072930-05

Prepared: 07/20/20 Analyzed: 08/08/20

Ethylene oxide	0.169	ppbv	0.17	1.07	25	
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Duplicate (B0H0705-DUP3)

Source: 0072930-06

Prepared: 07/20/20 Analyzed: 08/08/20

Ethylene oxide	0.386	ppbv	0.38	2.92	25	
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FILE #: 4222.00
REPORTED: 08/25/20 08:49
SUBMITTED: 07/09/20 to 07/29/20
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 2006065

Initial Cal Check (2006065-ICV1)

Prepared & Analyzed: 06/24/20

Ethylene oxide	2.37	ppbv	-5.3	30.00
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Sequence 2007022

Calibration Check (2007022-CCV1)

Prepared & Analyzed: 07/13/20

Ethylene oxide	2.90	ppbv	16.1	30.00
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Sequence 2007057

Initial Cal Check (2007057-ICV1)

Prepared: 07/30/20 Analyzed: 07/31/20

Ethylene oxide	2.69	ppbv	8.6	30.00
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Initial Cal Check (2007057-ICV2)

Prepared: 07/30/20 Analyzed: 07/31/20

Ethylene oxide	2.20	ppbv	-0.06	30.00
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Sequence 2007060

Initial Cal Check (2007060-ICV2)

Prepared: 07/31/20 Analyzed: 08/01/20

Ethylene oxide	2.26	ppbv	2.6	30.00
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Sequence 2008010

Calibration Check (2008010-CCV1)

Prepared & Analyzed: 08/05/20

Ethylene oxide	2.69	ppbv	9.0	30.00
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Sequence 2008012

Calibration Check (2008012-CCV1)

Prepared & Analyzed: 08/06/20

Ethylene oxide	2.91	ppbv	17.8	30.00
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Sequence 2008018

Calibration Check (2008018-CCV1)

Prepared & Analyzed: 08/07/20

Ethylene oxide	3.01	ppbv	21.6	30.00
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FILE #: 4222.00
REPORTED: 08/25/20 08:49
SUBMITTED: 07/09/20 to 07/29/20
AQS SITE CODE:
SITE CODE: Cobb

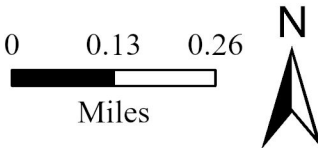
Notes and Definitions

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.



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

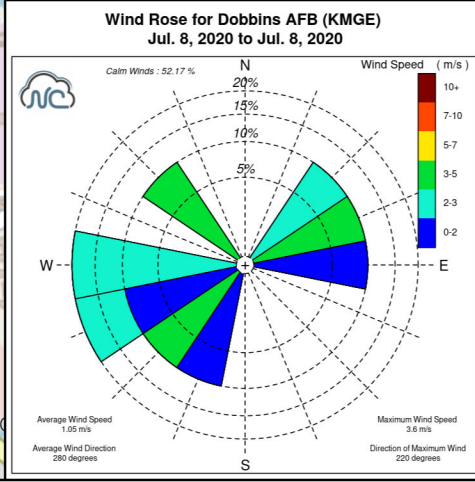


Site ID, Concentration (µg/m3)

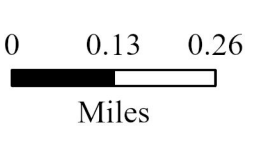
Ethylene Oxide Sampling
 Cobb County, GA

07/02/2020
 Sampled By: Georgia Environmental Protection Division
 Analyzed By: Eastern Research Group





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



Site ID, Concentration (µg/m3)

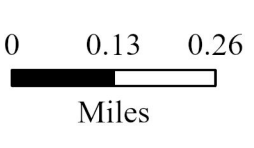
Ethylene Oxide Sampling
 Cobb County, GA

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





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

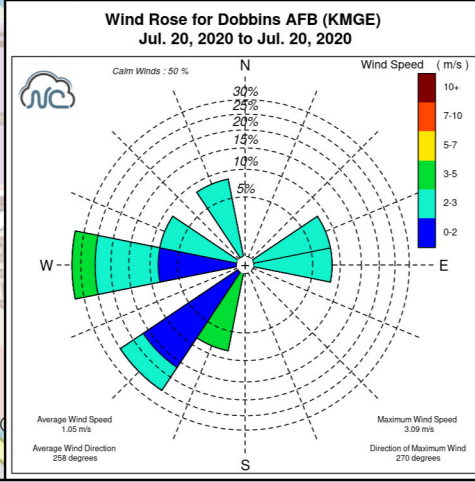


Site ID, Concentration (µg/m³)

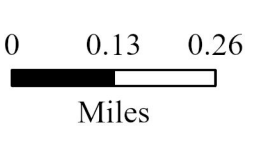
Ethylene Oxide Sampling
 Cobb County, GA

07/14/2020
 Sampled By: Georgia Environmental Protection Division
 Analyzed By: Eastern Research Group





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



Site ID, Concentration (µg/m³)

Ethylene Oxide Sampling
 Cobb County, GA

07/20/2020
 Sampled By: Georgia Environmental Protection Division
 Analyzed By: Eastern Research Group

