

Richard E. Dunn, Director

EPD Director's Office

2 Martin Luther King, Jr. Drive Suite 1456, East Tower Atlanta, Georgia 30334 404-656-4713

February 2, 2021

MEMORANDUM

To: Karen Hays, Air Branch Chief

Through: Dika Kuoh, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: Covington 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 Covington 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. 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. The Qualifier code of "D-F" was given by ERG to indicate that the duplicate exceeds Data Quality Objectives (DQO) criteria. No samples were taken at location C1, C6, C8, or C9 during this period.

Location	Date	Qualifier	EtO Concentration (ug/m³)
C2	09/30/2020	2	0.27
C2	10/06/2020		0.39
C2	10/12/2020		AF
C2	10/18/2020		0.11
C2	10/24/2020		0.39
C2	10/30/2020		0.13
C3	09/30/2020		0.14
C3	10/06/2020	LK	1.08
C3	10/12/2020		AF
C3	10/18/2020	2	0.10
C3	10/24/2020		0.26
C3	10/30/2020	2	0.44
C4	09/30/2020		0.14
C4	10/06/2020	LK	0.76
C4	10/12/2020		0.18

Location	Date	Qualifier	EtO Concentration (ug/m³)
C4	10/18/2020		0.28
C4	10/24/2020	D-F	0.66
C4 QA	10/24/2020	D-F	0.95
C4	10/30/2020		0.20
C5	09/30/2020	LK	0.40
C5	10/06/2020	LK	0.28
C5	10/12/2020		AF
C5	10/18/2020	2	0.15
C5	10/24/2020		0.33
C5	10/30/2020	LK	0.39
C7	10/30/2020	LK	0.59

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: Covington

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 14:51 through 11/12/20 14:00.

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

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.



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 10:48

SUBMITTED: 10/08/20 to 11/12/20

AQS SITE CODE:

SITE CODE: Covington

ANALYTICAL REPORT FOR SAMPLES

<u>SampleName</u>	<u>LabNumber</u>	<u>Matrix</u>	Sampled	Received
C2	0100833-01	Air	09/30/20 23:59	10/08/20 13:19
C3	0100833-02	Air	09/30/20 23:59	10/08/20 13:19
C4	0100833-03	Air	09/30/20 23:59	10/08/20 13:19
C5	0100833-04	Air	09/30/20 23:59	10/08/20 13:19
C2	0101528-01	Air	10/06/20 23:59	10/15/20 11:10
C3	0101528-02	Air	10/06/20 23:59	10/15/20 11:10
C4	0101528-03	Air	10/06/20 23:59	10/15/20 11:10
C5	0101528-04	Air	10/06/20 23:59	10/15/20 11:10
C4	0101605-01	Air	10/12/20 23:59	10/16/20 12:02
C2	0102916-01	Air	10/18/20 23:59	10/29/20 12:00
C3	0102916-02	Air	10/18/20 23:59	10/29/20 12:00
C4	0102916-03	Air	10/18/20 23:59	10/29/20 12:00
C5	0102916-04	Air	10/18/20 23:59	10/29/20 12:00
C2	0103006-01	Air	10/24/20 23:59	10/30/20 11:06
C3	0103006-02	Air	10/24/20 23:59	10/30/20 11:06
C4	0103006-03	Air	10/24/20 23:59	10/30/20 11:06
C4-QA	0103006-04	Air	10/24/20 23:59	10/30/20 11:06
C2	0111125-01	Air	10/30/20 23:59	11/11/20 12:01
C3	0111125-02	Air	10/30/20 23:59	11/11/20 12:01
C4	0111125-03	Air	10/30/20 23:59	11/11/20 12:01
C5	0111125-04	Air	10/30/20 23:59	11/11/20 12:01
C7 - SA	0111125-05	Air	10/30/20 23:59	11/11/20 12:01

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.



Air

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

C5 0111210-01

FILE #: 4222.00

REPORTED: 12/17/20 10:48

SUBMITTED: 10/08/20 to 11/12/20

AQS SITE CODE:

SITE CODE: Covington



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: C2

ATTN: Ms. Jaime Gore

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

Pressure @ Receipt: 0.00" Hg

FILE #: 4222.00

REPORTED: 12/17/20 10:48

SUBMITTED: 10/08/20 to 11/12/20

AQS SITE CODE:

SITE CODE: Covington

Lab ID: 0100833-01 Sampled: 09/30/20 23:59 Canister #: 18820 Received: 10/08/20 13:19 **Comments:** Received at ambient pressure **Analyzed:** 10/15/20 00:05

Air Toxics by EPA Compendium Method TO-15

<u>MDL</u> Results **Analyte** ppbv ug/m³ <u>Flag</u> ppbv Ethylene oxide 0.149 0.27 0.0285



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: C3

Comments:

Analyte

Ethylene oxide

ATTN: Ms. Jaime Gore

Pressure @ Receipt: 3.00" Hg

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

FILE #: 4222.00

REPORTED: 12/17/20 10:48

SUBMITTED: 10/08/20 to 11/12/20

AQS SITE CODE:

SITE CODE: Covington

Lab ID: 0100833-02 Sampled: 09/30/20 23:59 **Canister #:** 18869 Received: 10/08/20 13:19 **Analyzed:** 10/15/20 01:00

Air Toxics by EPA Compendium Method TO-15

Results ppbv ug/m³

0.14

0.0752

<u>Flag</u>

MDL ppbv 0.0285

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.



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: C4

Comments:

Analyte

Ethylene oxide

ATTN: Ms. Jaime Gore

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

Pressure @ Receipt: 3.00" Hg

FILE #: 4222.00

REPORTED: 12/17/20 10:48

SUBMITTED: 10/08/20 to 11/12/20

AQS SITE CODE:

SITE CODE: Covington

Lab ID: 0100833-03 Sampled: 09/30/20 23:59 **Canister #: 2527** Received: 10/08/20 13:19 **Analyzed:** 10/15/20 01:55

Air Toxics by EPA Compendium Method TO-15

Results ppbv ug/m³

0.14

0.0776

<u>Flag</u>

MDL ppbv 0.0285

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.



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: C5

Comments:

ATTN: Ms. Jaime Gore

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

Pressure @ Receipt: 2.50" Hg

FILE #: 4222.00

REPORTED: 12/17/20 10:48

SUBMITTED: 10/08/20 to 11/12/20

AQS SITE CODE:

SITE CODE: Covington

Lab ID: 0100833-04 Sampled: 09/30/20 23:59 Canister #: AZ50 Received: 10/08/20 13:19 **Analyzed:** 10/15/20 02:50

Air Toxics by EPA Compendium Method TO-15

MDL Results **Analyte** ppbv ug/m³ <u>Flag</u> ppbv Ethylene oxide 0.223 0.40 LK 0.0285



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: C2

Comments:

Analyte

Ethylene oxide

ATTN: Ms. Jaime Gore

Pressure @ Receipt: 2.50" Hg

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

0.214

FILE #: 4222.00

REPORTED: 12/17/20 10:48

SUBMITTED: 10/08/20 to 11/12/20

AQS SITE CODE:

SITE CODE: Covington

Lab ID: 0101528-01 Sampled: 10/06/20 23:59 Canister #: SAT080 Received: 10/15/20 11:10 **Analyzed:** 11/02/20 16:21

Air Toxics by EPA Compendium Method TO-15 MDL

ppbv

0.0285

Results ppbv ug/m³ <u>Flag</u>

0.39

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.



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: C3

Comments:

Analyte

Ethylene oxide

ATTN: Ms. Jaime Gore

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

Pressure @ Receipt: 4.00" Hg

FILE #: 4222.00

REPORTED: 12/17/20 10:48

SUBMITTED: 10/08/20 to 11/12/20

AQS SITE CODE:

SITE CODE: Covington

Lab ID: 0101528-02 Sampled: 10/06/20 23:59 **Canister #:** 5027 Received: 10/15/20 11:10 **Analyzed:** 11/02/20 17:16

Air Toxics by EPA Compendium Method TO-15

MDL Results ppbv ug/m³ <u>Flag</u> ppbv 0.598 1.08 LK 0.0285



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: C4

Comments:

Analyte

Ethylene oxide

ATTN: Ms. Jaime Gore

Pressure @ Receipt: 5.00" Hg

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

FILE #: 4222.00

REPORTED: 12/17/20 10:48

SUBMITTED: 10/08/20 to 11/12/20

AQS SITE CODE:

SITE CODE: Covington

Lab ID: 0101528-03 Sampled: 10/06/20 23:59 **Canister #:** 5065 Received: 10/15/20 11:10 **Analyzed:** 11/02/20 18:11

Air Toxics by EPA Compendium Method TO-15

MDL Results ppbv ug/m³ <u>Flag</u> ppbv 0.421 0.76 LK 0.0285



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: C5

Comments:

ATTN: Ms. Jaime Gore

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

Pressure @ Receipt: 4.00" Hg

FILE #: 4222.00

REPORTED: 12/17/20 10:48

SUBMITTED: 10/08/20 to 11/12/20

AQS SITE CODE:

SITE CODE: Covington

Lab ID: 0101528-04 Sampled: 10/06/20 23:59 **Canister #:** 5044 Received: 10/15/20 11:10 **Analyzed:** 11/02/20 19:05

Air Toxics by EPA Compendium Method TO-15

MDL Results **Analyte** ppbv ug/m³ <u>Flag</u> ppbv Ethylene oxide 0.153 0.28 LK 0.0285



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Pressure @ Receipt: 4.50" Hg

Atlanta, GA 30354

Description: C4

ATTN: Ms. Jaime Gore

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

FILE #: 4222.00

REPORTED: 12/17/20 10:48

SUBMITTED: 10/08/20 to 11/12/20

AQS SITE CODE:

SITE CODE: Covington

Lab ID: 0101605-01 Sampled: 10/12/20 23:59

Received: 10/16/20 12:02 **Analyzed:** 11/02/20 20:00

Air Toxics by EPA Compendium Method TO-15

Results

MDL <u>Flag</u>

Canister #: 19648

Analyte Ethylene oxide

Comments:

ppbv ug/m³ 0.101

0.18

ppbv 0.0285



U.S. Environmental Protection Agency, Region 4

Comments: Received at ambient pressure

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: C2

ATTN: Ms. Jaime Gore

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

Pressure @ Receipt: 0.00" Hg

REPORTED: 12/17/20 10:48

SUBMITTED: 10/08/20 to 11/12/20

AQS SITE CODE:

FILE #: 4222.00

SITE CODE: Covington

Lab ID: 0102916-01 Sampled: 10/18/20 23:59 Canister #: 114340 Received: 10/29/20 12:00 **Analyzed:** 11/09/20 16:10

Air Toxics by EPA Compendium Method TO-15

Results ppbv ug/m³ <u>Flag</u>

<u>MDL</u> ppbv 0.0285

Ethylene oxide

Analyte



U.S. Environmental Protection Agency, Region 4

Comments: Received at ambient pressure

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: C3

ATTN: Ms. Jaime Gore

Pressure @ Receipt: 0.00" Hg

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

FILE #: 4222.00

REPORTED: 12/17/20 10:48

SUBMITTED: 10/08/20 to 11/12/20

AQS SITE CODE:

SITE CODE: Covington

Lab ID: 0102916-02 Sampled: 10/18/20 23:59 Canister #: AQL0397 Received: 10/29/20 12:00 **Analyzed:** 11/09/20 17:05

Air Toxics by EPA Compendium Method TO-15

Results ppbv ug/m³

<u>Flag</u>

MDL

Ethylene oxide

Analyte

0.0571

0.10

ppbv 0.0285



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: C4

Comments:

Analyte

Ethylene oxide

ATTN: Ms. Jaime Gore

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

Pressure @ Receipt: 2.50" Hg

FILE #: 4222.00

REPORTED: 12/17/20 10:48

SUBMITTED: 10/08/20 to 11/12/20

AQS SITE CODE:

SITE CODE: Covington

Lab ID: 0102916-03 Sampled: 10/18/20 23:59 **Canister #:** 114322 Received: 10/29/20 12:00 **Analyzed:** 11/09/20 18:00

Air Toxics by EPA Compendium Method TO-15

MDL Results ppbv ug/m³ <u>Flag</u> ppbv 0.155 0.28 0.0285



U.S. Environmental Protection Agency, Region 4

Comments: Received at ambient pressure

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: C5

Analyte

Ethylene oxide

ATTN: Ms. Jaime Gore

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

Pressure @ Receipt: 0.00" Hg

FILE #: 4222.00

REPORTED: 12/17/20 10:48

SUBMITTED: 10/08/20 to 11/12/20

AQS SITE CODE:

SITE CODE: Covington

Lab ID: 0102916-04 Sampled: 10/18/20 23:59 Canister #: 110308 Received: 10/29/20 12:00 **Analyzed:** 11/09/20 18:55

Air Toxics by EPA Compendium Method TO-15

MDL

Results ppbv ug/m³ <u>Flag</u>

ppbv 0.0855 0.15 0.0285



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: C2

Comments:

Analyte

Ethylene oxide

ATTN: Ms. Jaime Gore

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

Pressure @ Receipt: 3.00" Hg

FILE #: 4222.00

REPORTED: 12/17/20 10:48

SUBMITTED: 10/08/20 to 11/12/20

AQS SITE CODE:

SITE CODE: Covington

Lab ID: 0103006-01 Sampled: 10/24/20 23:59 Canister #: 111219 **Received:** 10/30/20 11:06 **Analyzed:** 11/09/20 21:38

Air Toxics by EPA Compendium Method TO-15

MDL Results ppbv ug/m³ <u>Flag</u> ppbv 0.214 0.39 0.0285



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: C3

Comments:

ATTN: Ms. Jaime Gore

Pressure @ Receipt: 3.50" Hg

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

FILE #: 4222.00

REPORTED: 12/17/20 10:48

SUBMITTED: 10/08/20 to 11/12/20

AQS SITE CODE:

SITE CODE: Covington

Lab ID: 0103006-02 Sampled: 10/24/20 23:59 **Canister #:** 114336 Received: 10/30/20 11:06 **Analyzed:** 11/09/20 22:33

Air Toxics by EPA Compendium Method TO-15

MDL Results ppbv ug/m³ **Analyte** <u>Flag</u> ppbv Ethylene oxide 0.143 0.26 0.0285



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: C4

Comments:

Analyte

Ethylene oxide

ATTN: Ms. Jaime Gore

Pressure @ Receipt: 4.00" Hg

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

FILE #: 4222.00

REPORTED: 12/17/20 10:48

SUBMITTED: 10/08/20 to 11/12/20

AQS SITE CODE:

SITE CODE: Covington

Lab ID: 0103006-03 Sampled: 10/24/20 23:59 **Canister #:** 19298 Received: 10/30/20 11:06 **Analyzed:** 11/12/20 20:28

Air Toxics by EPA Compendium Method TO-15

MDL Results ppbv ug/m³ <u>Flag</u> ppbv 0.364 0.66 D-F 0.0285



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

Pressure @ Receipt: 5.50" Hg

Description: C4-QA

Comments:

FILE #: 4222.00

REPORTED: 12/17/20 10:48

SUBMITTED: 10/08/20 to 11/12/20

AQS SITE CODE:

SITE CODE: Covington

Lab ID: 0103006-04 Sampled: 10/24/20 23:59 **Canister #:** 114386 Received: 10/30/20 11:06 **Analyzed:** 11/12/20 22:17

Air Toxics by EPA Compendium Method TO-15

MDL Results **Analyte** ppbv ug/m³ <u>Flag</u> ppbv Ethylene oxide 0.527 0.95 D-F 0.0285



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: C2

ATTN: Ms. Jaime Gore

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

Pressure @ Receipt: 0" Hg

FILE #: 4222.00

REPORTED: 12/17/20 10:48

SUBMITTED: 10/08/20 to 11/12/20

AQS SITE CODE:

SITE CODE: Covington

Lab ID: 0111125-01 Sampled: 10/30/20 23:59 **Canister #:** 33554 Received: 11/11/20 12:01 **Analyzed:** 11/24/20 04:53

Air Toxics by EPA Compendium Method TO-15

Results ppbv ug/m³

<u>Flag</u>

MDL ppbv

Analyte Ethylene oxide

Comments:

0.0743

0.13

0.0285



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: C3

Comments:

Analyte

Ethylene oxide

ATTN: Ms. Jaime Gore

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

Pressure @ Receipt: 2.00" Hg

FILE #: 4222.00

REPORTED: 12/17/20 10:48

SUBMITTED: 10/08/20 to 11/12/20

AQS SITE CODE:

SITE CODE: Covington

Lab ID: 0111125-02 Sampled: 10/30/20 23:59 **Canister #:** A21081 Received: 11/11/20 12:01 **Analyzed:** 11/24/20 05:47

Air Toxics by EPA Compendium Method TO-15

MDL **Results** ppbv ug/m³ <u>Flag</u> ppbv 0.242 0.44 0.0285



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: C4

Comments:

Analyte

Ethylene oxide

ATTN: Ms. Jaime Gore

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

Pressure @ Receipt: 3.00" Hg

FILE #: 4222.00

REPORTED: 12/17/20 10:48

SUBMITTED: 10/08/20 to 11/12/20

AQS SITE CODE:

SITE CODE: Covington

Lab ID: 0111125-03 Sampled: 10/30/20 23:59 **Canister #:** A21080 Received: 11/11/20 12:01 **Analyzed:** 11/24/20 06:42

Air Toxics by EPA Compendium Method TO-15 MDL

Results

<u>Flag</u>

ppbv ug/m³ 0.108 0.20

ppbv 0.0285



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: C5

ATTN: Ms. Jaime Gore

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

Pressure @ Receipt: 0.00" Hg

FILE #: 4222.00

REPORTED: 12/17/20 10:48

SUBMITTED: 10/08/20 to 11/12/20

AQS SITE CODE:

SITE CODE: Covington

Lab ID: 0111125-04 Sampled: 10/30/20 23:59 Canister #: SAT159 Received: 11/11/20 12:01 **Comments:** Received at ambient pressure **Analyzed:** 11/24/20 15:30

Air Toxics by EPA Compendium Method TO-15

MDL Results **Analyte** ppbv ug/m³ <u>Flag</u> ppbv Ethylene oxide 0.214 0.39 LK 0.0285



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

ATTN: Ms. Jaime Gore

Description: C7 - SA

Comments:

Pressure @ Receipt: 4.50" Hg

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

FILE #: 4222.00

REPORTED: 12/17/20 10:48

SUBMITTED: 10/08/20 to 11/12/20

AQS SITE CODE:

SITE CODE: Covington

Lab ID: 0111125-05 Sampled: 10/30/20 23:59 **Canister #:** 5081 Received: 11/11/20 12:01 **Analyzed:** 11/24/20 16:24

Air Toxics by EPA Compendium Method TO-15

MDL Results **Analyte** ppbv ug/m³ <u>Flag</u> ppbv Ethylene oxide 0.324 0.59 LK 0.0285



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Description: C5

ATTN: Ms. Jaime Gore

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

Pressure @ Receipt: 3.00" Hg

FILE #: 4222.00

REPORTED: 12/17/20 10:48

SUBMITTED: 10/08/20 to 11/12/20

AQS SITE CODE:

SITE CODE: Covington

Lab ID: 0111210-01 Sampled: 10/24/20 23:59 Canister #: 110306 Received: 11/12/20 14:00 **Analyzed:** 11/13/20 00:07

Air Toxics by EPA Compendium Method TO-15

Results ppbv ug/m³

<u>Flag</u>

MDL

Ethylene oxide

Analyte

Comments:

0.184 0.33

ppbv 0.0285



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 10:48

SUBMITTED: 10/08/20 to 11/12/20

AQS SITE CODE:

SITE CODE: Covington

Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes
Air Toxics by EPA Compendiun		- Quality Cont	trol			
Batch B0J1405 - Summa Canister	Prep					
Blank (B0J1405-BLK1)			Prepared & Analyzed: 10/1	4/20		
Ethylene oxide	ND	ppbv				U
Batch B0K0204 - Summa Canister	Prep					
Blank (B0K0204-BLK1)			Prepared & Analyzed: 11/0	2/20		
Ethylene oxide	ND	ppbv				U
Batch B0K0906 - Summa Canister	Prep					
Blank (B0K0906-BLK1)			Prepared & Analyzed: 11/0	9/20		
Ethylene oxide	ND	ppbv				U
Batch B0K1204 - Summa Canister	Prep					
Blank (B0K1204-BLK1)			Prepared & Analyzed: 11/1	2/20		
Ethylene oxide	ND	ppbv				U
Duplicate (B0K1204-DUP1)	Source:	0103006-03	Prepared: 10/24/20 Analys	zed: 11/12/20		
Ethylene oxide	0.410	ppbv	0.36	12.0	25	
Duplicate (B0K1204-DUP2)	Source:	0103006-04	Prepared: 10/24/20 Analys	zed: 11/12/20		
Ethylene oxide	0.513	ppbv	0.53	2.65	25	
Batch B0K2310 - Summa Canister	Prep					
Blank (B0K2310-BLK1)		Prepared & Analyzed: 11/23/20				
Ethylene oxide	ND	ppbv				U
Batch B0K2406 - Summa Canister	Prep					
Blank (B0K2406-BLK1)		Prepared & Analyzed: 11/24/20				
Ethylene oxide	ND	ppbv				U
Duplicate (B0K2406-DUP1)	Source:	Source: 0111125-05 Prepared: 10/30/20 Analyzed: 11		zed: 11/24/20		
Ethylene oxide	0.316	ppbv	0.32	2.50	25	

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.



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 10:48

SUBMITTED: 10/08/20 to 11/12/20

AQS SITE CODE:

SITE CODE: Covington

Analyte	Result	Units	% Difference	Limit (%)	Notes
Air Toxics by EPA Compendium	Method TO-15	- Quality Cor	ntrol		
Sequence 2010029					
Calibration Check (2010029-CCV1	L)	1	Prepared & Analyze	ed: 10/14/20	
Ethylene oxide	2.90	ppbv	17.3	30.00	
Sequence 2010035					
Calibration Check (2010035-CCV1	L)	1	Prepared & Analyze	ed: 10/16/20	
Ethylene oxide	3.08	ppbv	24.6	30.00	
Sequence 2011002					
Calibration Check (2011002-CCV1	L)	1	Prepared & Analyze	ed: 11/02/20	
Ethylene oxide	2.73	ppbv	9.2	30.00	
Sequence 2011016					
Calibration Check (2011016-CCV1	L)	ı	Prepared & Analyze	ed: 11/09/20	
Ethylene oxide	2.94	ppbv	17.6	30.00	
Sequence 2011025					
Calibration Check (2011025-CCV1	L)	1	Prepared & Analyze	ed: 11/12/20	
Ethylene oxide	3.21	ppbv	28.5	30.00	
Sequence 2011048					
Calibration Check (2011048-CCV1	L)	1	Prepared & Analyze	ed: 11/23/20	
Ethylene oxide	2.79	ppbv	13.0	30.00	
Sequence 2011051					
Calibration Check (2011051-CCV1	L)	I	Prepared & Analyze	ed: 11/24/20	
Ethylene oxide	3.03	ppbv	22.6	30.00	

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.



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 10:48

SUBMITTED: 10/08/20 to 11/12/20

AQS SITE CODE:

SITE CODE: Covington

Notes and Definitions

U Under Detection Limit

LK Analyte identified; Reported value may be biased high.

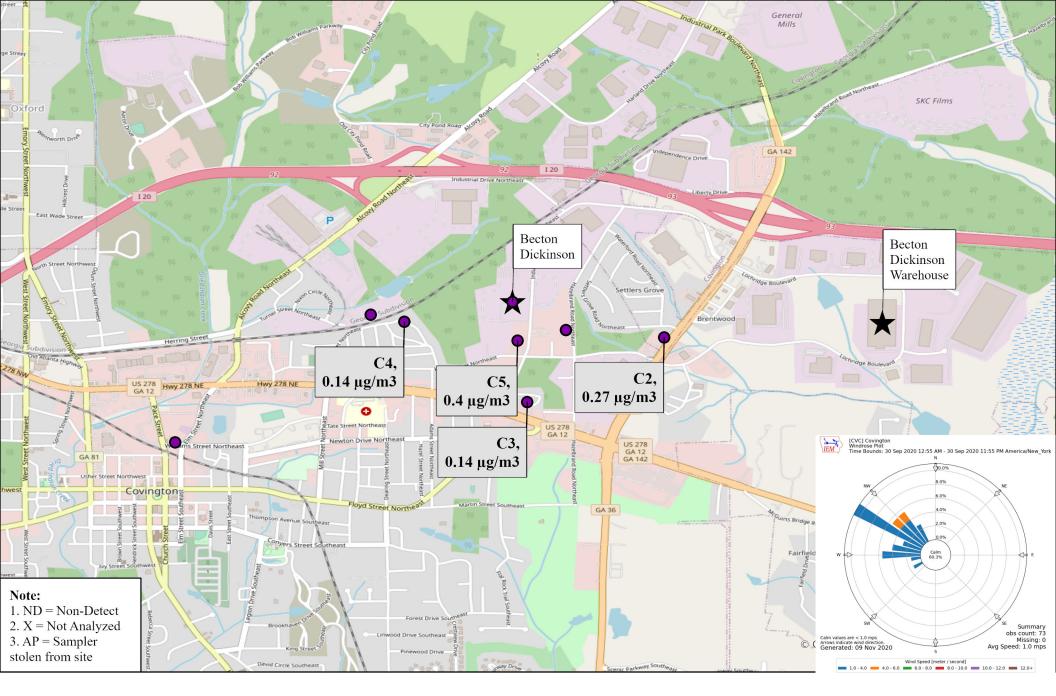
D-F Duplicate exceeds DQO criteria.

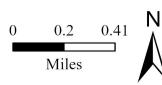
ND Analyte NOT DETECTED

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.





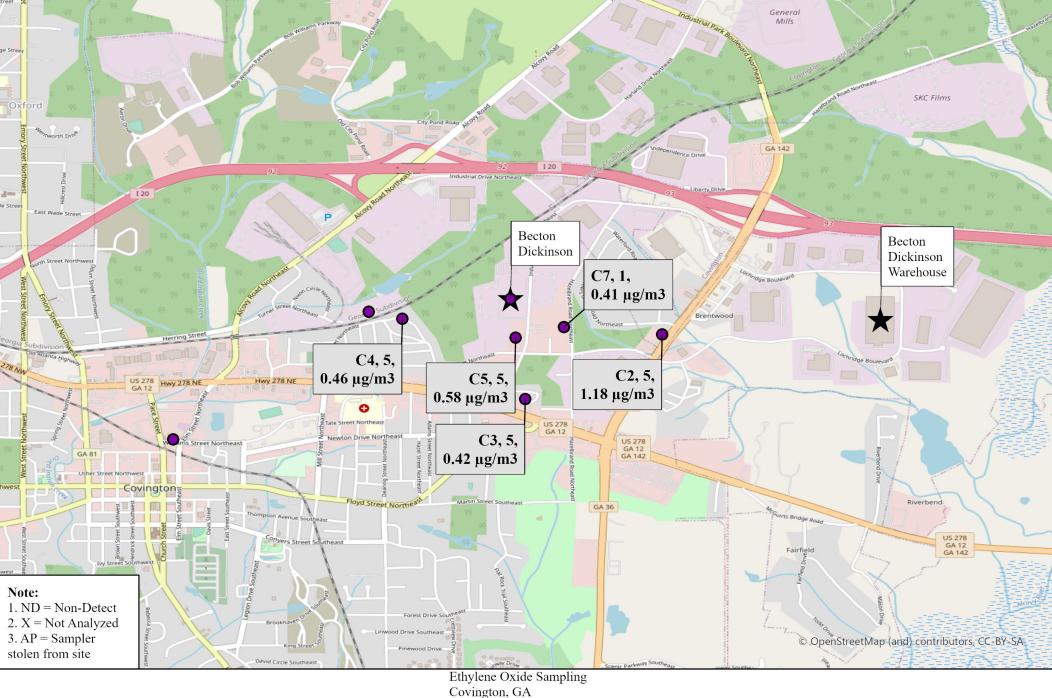
Ethylene Oxide Sampling Covington, GA

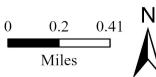
09/30/2020

Sampled By: Georgia Environmental Protection Division

Analyzed By: Eastern Research Group







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

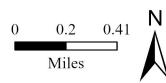
September 2020 Site Average Values

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





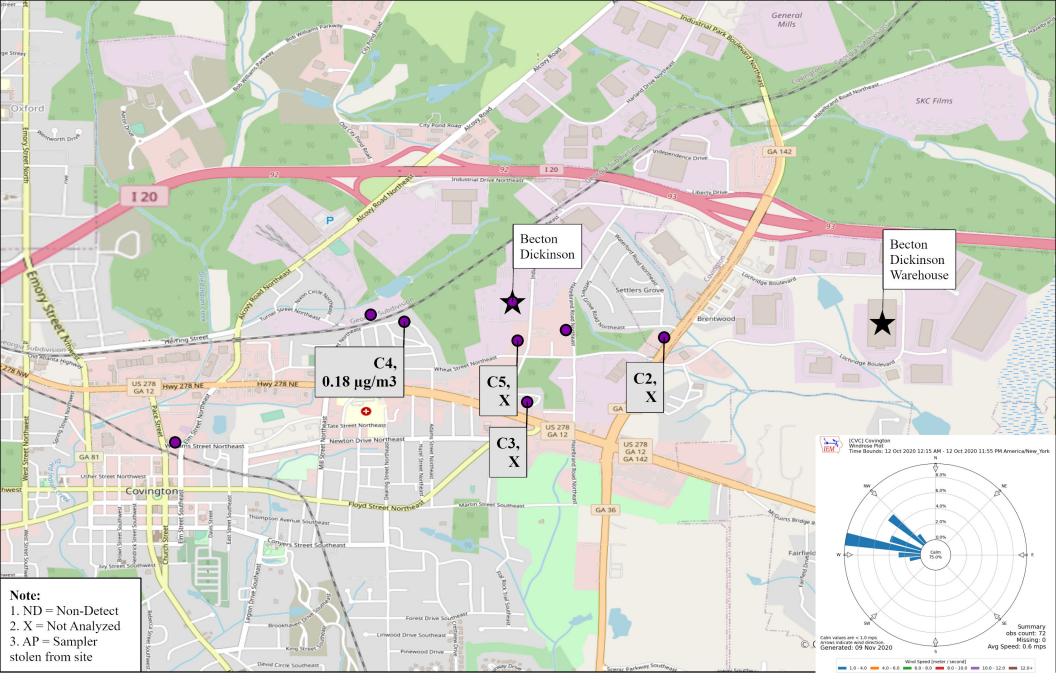


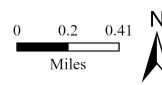
Ethylene Oxide Sampling Covington, GA

10/06/2020

Sampled By: Georgia Environmental Protection Division Analyzed By: Eastern Research Group







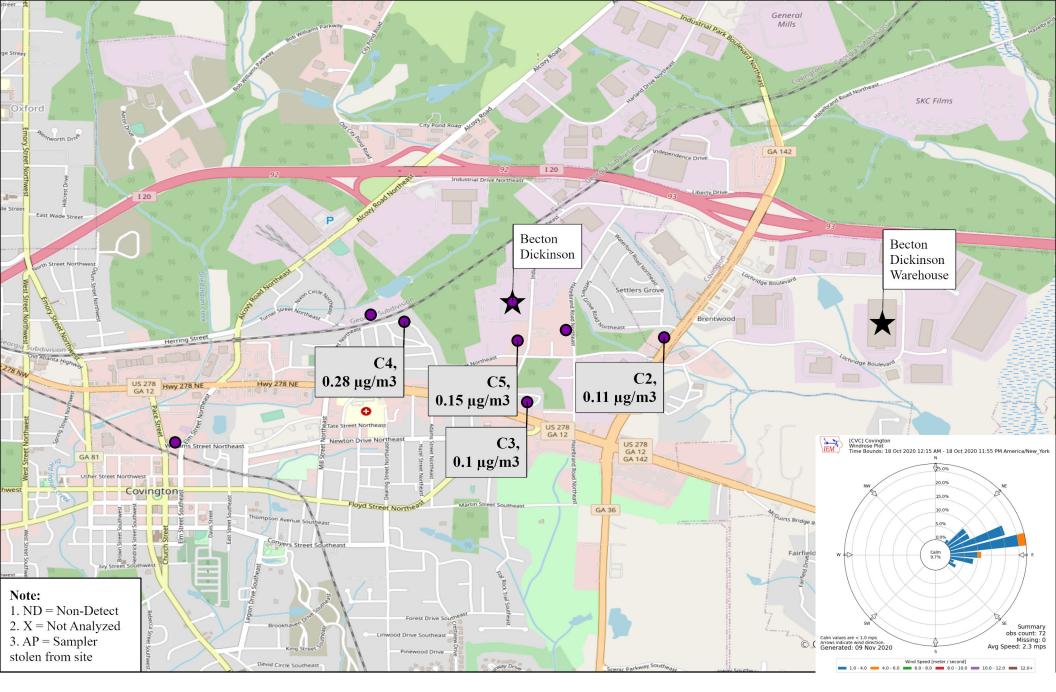
Ethylene Oxide Sampling Covington, GA

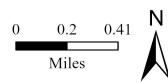
10/12/2020

Sampled By: Georgia Environmental Protection Division

Analyzed By: Eastern Research Group







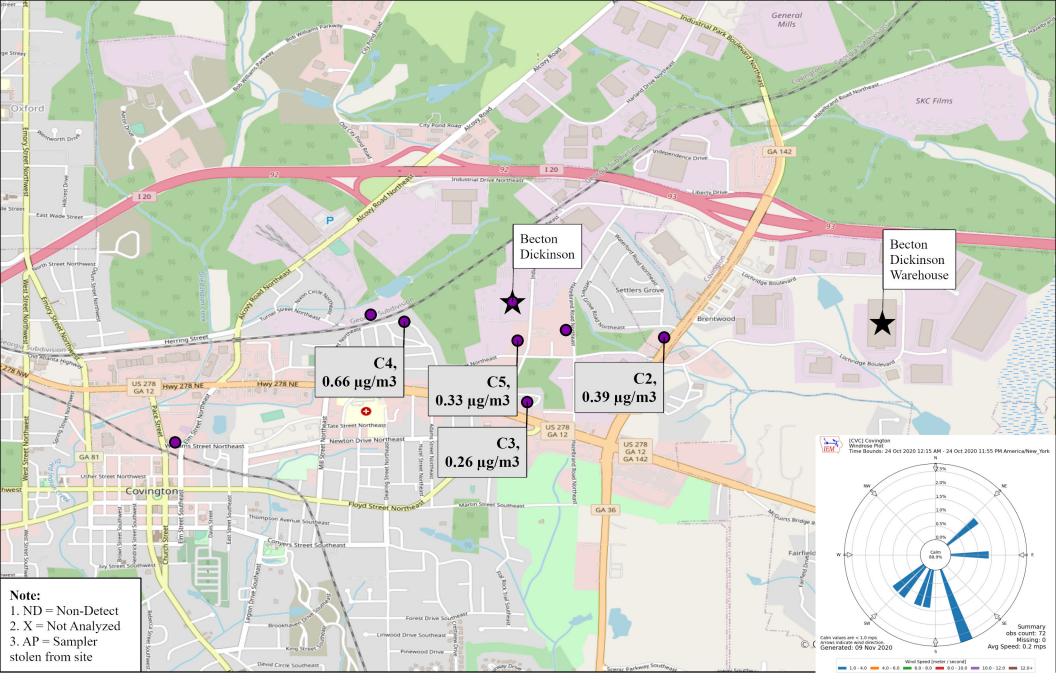
Ethylene Oxide Sampling Covington, GA

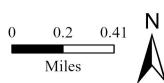
10/18/2020

Sampled By: Georgia Environmental Protection Division

Analyzed By: Eastern Research Group







Ethylene Oxide Sampling Covington, GA

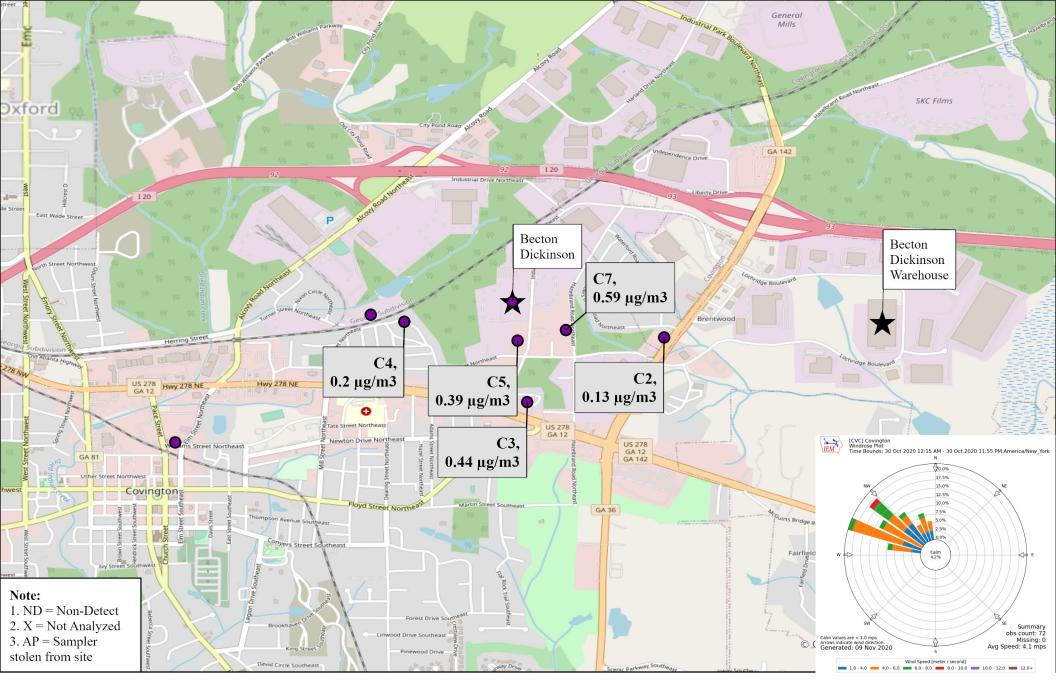
10/24/2020

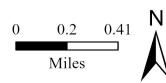
Sampled By: Georgia Environmental Protection Division

Analyzed By: Eastern Research Group



ENVIRONMENTAL PROTECTION DIVISION



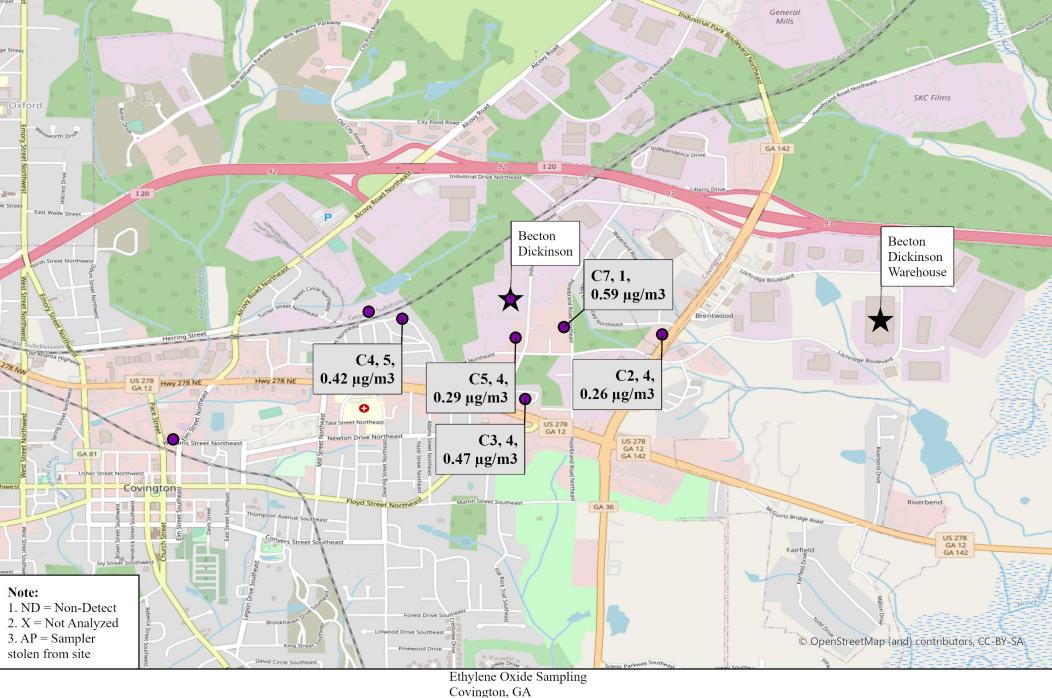


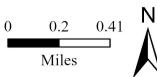
Ethylene Oxide Sampling Covington, GA

10/30/2020

Sampled By: Georgia Environmental Protection Division Analyzed By: Eastern Research Group







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

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



ENVIRONMENTAL PROTECTION DIVISION