

ENVIRONMENTAL PROTECTION DIVISION

Richard E. Dunn, Director

EPD Director's Office

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

June 7, 2021

MEMORANDUM

To: Karen Hays, Air Branch Chief

Through: James Boylan, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: South DeKalb and NR-285 December 23, 2020 – January 16, 2021 Sampling Results for

Ethylene Oxide

Samples of Ethylene Oxide (EtO) were taken at our South DeKalb monitoring station in December 2020 and January 2021. Samples were also collected at a nearby ambient monitoring station in January 2021 close to the interstate (NR-285) to see the impacts of mobile traffic on the ethylene oxide measurements. Each of the samples were sent to Eastern Research Group (ERG) for analysis. The sample listed as QA is a sample taken side by side during the same time period to compare the precision of the measurement. The code SC indicates that the sample was invalidated due to sampler contamination. The Qualifier code of "2" was given two samples to indicate that the collection deviated from established procedures, but the integrity of the sample was not compromised.

Location	Date	Qualifier	EtO Concentration (ug/m³)
South DeKalb	12/23/2020		0.09
South DeKalb	12/29/2020		0.09
South DeKalb	01/04/2021		0.08
South DeKalb QA	01/04/2021		SC
South DeKalb	01/10/2021	2	0.17
South DeKalb	01/16/2021	2	0.13
NR-285	01/04/2021		0.07
NR-285	01/16/2021		0.11

Samples were also collected on a pressurized system at our South DeKalb monitoring station for comparison purposes on the dates listed below. These samples were also sent to Eastern Research Group for analysis. The sample listed as AK was due to a valve malfunction of the can at the laboratory. Samples listed in the table below as ND were reported below the method detection limit of 0.0515 ug/m³. The qualifier code "U" was given by ERG to indicate that the sample is under the detection limit. Please note that ERG is now providing values for levels below the detection limit.

Location	Date	Qualifier	EtO Concentration (ug/m³)
South DeKalb			
pressurized	12/23/2020		0.10
South DeKalb			
pressurized	12/29/2020		AK
South DeKalb		U, ND	
pressurized	01/10/2021		0
South DeKalb		2	
pressurized	01/16/2021		0.05

If you have any questions, please let me know.

DGO/do



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

March 04, 2021

Ms. Jaime Gore U.S. Environmental Protection Agency, Region 4 4244 International Pkwy, Suite 120 Atlanta, GA 30354 Project Name: GA EtO

Dear Ms. Jaime Gore,

This report contains the analytical results for the sample(s) received under chain(s) of custody by Eastern Research Group on 01/06/21 11:45 through 01/27/21 12:23.

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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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 #: 4022.00

REPORTED: 03/04/21 16:00

SUBMITTED: 01/06/21 to 01/27/21

AQS SITE CODE:

SITE CODE: GA EtO

ANALYTICAL REPORT FOR SAMPLES

<u>SampleName</u>	<u>LabNumber</u>	<u>Matrix</u>	<u>Sampled</u>	Received
South Dekalb	1010628-01	Air	12/23/20 23:59	01/06/21 11:45
South Dekalb-Atec	1010721-01	Air	12/23/20 23:59	01/07/21 11:51
South Dekalb	1011328-02	Air	12/29/20 23:59	01/13/21 13:42
South Dekalb	1011328-03	Air	01/04/21 23:59	01/13/21 13:42
South Dekalb QA	1011328-04	Air	01/04/21 23:59	01/13/21 13:42
NR285	1011328-05	Air	01/04/21 23:59	01/13/21 13:42
South Dekalb-Atec	1012128-01	Air	01/10/21 23:59	01/21/21 14:45
South Dekalb	1012128-02	Air	01/10/21 23:59	01/21/21 14:45
South Dekalb	1012725-01	Air	01/16/21 23:59	01/27/21 12:23
South Dekalb-Atec	1012725-02	Air	01/16/21 23:59	01/27/21 12:23
NR285	1012725-03	Air	01/16/21 23:59	01/27/21 12:23



FILE #: 4022.00

AQS SITE CODE:

SITE CODE:

REPORTED: 03/04/21 16:00

SUBMITTED: 01/06/21 to 01/27/21

GA EtO

Sampled: 12/23/20 23:59

Received: 01/06/21 11:45

Analyzed: 01/13/21 02:53

U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Comments:

ATTN: Ms. Jaime Gore

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

Pressure @ Receipt: 3.00" Hg

Lab ID: 1010628-01

Canister #: 114348

Air Toxics by EPA Compendium Method TO-15

MDL

ppbv ug/m³ **Analyte** <u>Flag</u> ppbv Ethylene oxide 0.0503 0.09 0.0285

Results

Eastern Research Group



FILE #: 4022.00

AQS SITE CODE:

SITE CODE:

REPORTED: 03/04/21 16:00

SUBMITTED: 01/06/21 to 01/27/21

GA EtO

U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Description: South Dekalb-Atec

Pressure @ Receipt: 9.75" psi

Atlanta, GA 30354

Comments:

Analyte

Ethylene oxide

ATTN: Ms. Jaime Gore

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

Lab ID:

1010721-01

Canister #: 110305

Sampled: 12/23/20 23:59

Received: 01/07/21 11:51 Analyzed: 01/13/21 04:44

Air Toxics by EPA Compendium Method TO-15

Results ppbv ug/m³

0.10

0.0571

<u>Flag</u>

MDL ppbv 0.0285

Eastern Research Group



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Comments:

Analyte

Ethylene oxide

ATTN: Ms. Jaime Gore

Description: South Dekalb

Pressure @ Receipt: 3.50" Hg

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

Lab ID:

Canister #: 114329

1011328-02

REPORTED: 03/04/21 16:00

SUBMITTED: 01/06/21 to 01/27/21

GA EtO

FILE #: 4022.00

AQS SITE CODE:

SITE CODE:

Received: 01/13/21 13:42 **Analyzed:** 01/15/21 04:35

Sampled: 12/29/20 23:59

Air Toxics by EPA Compendium Method TO-15

MDL

Results ppbv ug/m³

0.09

0.0506

<u>Flag</u>

ppbv 0.0285

Eastern Research Group



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Comments:

Analyte

Ethylene oxide

ATTN: Ms. Jaime Gore

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

Pressure @ Receipt: 2.00" Hg

Description: South Dekalb

FILE #: 4022.00

REPORTED: 03/04/21 16:00

SUBMITTED: 01/06/21 to 01/27/21

AQS SITE CODE:

SITE CODE: GA EtO

Lab ID: 1011328-03 Sampled: 01/04/21 23:59 **Canister #:** 35152 **Received:** 01/13/21 13:42 **Analyzed:** 01/19/21 16:46

Air Toxics by EPA Compendium Method TO-15

Results

0.0447

ppbv ug/m³

0.08

<u>Flag</u>

<u>MDL</u> ppbv 0.0285

Eastern Research Group



FILE #: 4022.00

AQS SITE CODE:

SITE CODE:

REPORTED: 03/04/21 16:00

SUBMITTED: 01/06/21 to 01/27/21

GA EtO

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

Description: South Dekalb QA

Pressure @ Receipt: 0.00" Hg

Comments: Canister received at ambient.

Lab ID:

1011328-04

Canister #: 35124

Sampled: 01/04/21 23:59 **Received:** 01/13/21 13:42

Analyzed: 01/19/21 18:37

Air Toxics by EPA Compendium Method TO-15

Results ppbv ug/m³

<u>Flag</u>

MDL ppbv

Analyte Ethylene oxide

ND

0.0285



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

ATTN: Ms. Jaime Gore

Description: NR285

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

Pressure @ Receipt: 18.75 psi

FILE #: 4022.00

REPORTED: 03/04/21 16:00

SUBMITTED: 01/06/21 to 01/27/21

AQS SITE CODE:

SITE CODE: GA EtO

Lab ID: 1011328-05 Sampled: 01/04/21 23:59 Canister #: SAT053 **Received:** 01/13/21 13:42 **Analyzed:** 01/19/21 20:27

Air Toxics by EPA Compendium Method TO-15

Results ppbv ug/m³

<u>Flag</u>

MDL ppbv

Analyte Ethylene oxide

Comments:

0.0397 0.07

0.0285



FILE #: 4022.00

AQS SITE CODE:

SITE CODE:

REPORTED: 03/04/21 16:00

SUBMITTED: 01/06/21 to 01/27/21

GA EtO

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

Description: South Dekalb-Atec

Pressure @ Receipt: 11.75" psi

Lab ID:

1012128-01

Canister #: 33309

Sampled: 01/10/21 23:59

Received: 01/21/21 14:45

Analyzed: 01/23/21 00:57

Air Toxics by EPA Compendium Method TO-15

Results ppbv ug/m³

<u>Flag</u>

MDL

Analyte Ethylene oxide

Comments:

ND

ND

U



FILE #: 4022.00

AQS SITE CODE:

SITE CODE:

REPORTED: 03/04/21 16:00

SUBMITTED: 01/06/21 to 01/27/21

GA EtO

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

Description: South Dekalb

Pressure @ Receipt: 0" Hg

Lab ID:

1012128-02

Canister #: A21001

Sampled: 01/10/21 23:59 Received: 01/21/21 14:45

Analyzed: 01/23/21 02:48

Air Toxics by EPA Compendium Method TO-15

Results ppbv ug/m³

<u>Flag</u>

MDL

Analyte Ethylene oxide

Comments:

0.0946

0.17



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 **Description:** South Dekalb

Pressure @ Receipt: 0" Hg

Comments: Received at Ambient

1012725-01

Canister #: A21108

SITE CODE:

FILE #: 4022.00

AQS SITE CODE:

REPORTED: 03/04/21 16:00

SUBMITTED: 01/06/21 to 01/27/21

GA EtO

Received: 01/27/21 12:23 **Analyzed:** 02/02/21 23:07

Sampled: 01/16/21 23:59

Air Toxics by EPA Compendium Method TO-15 MDL

Results

<u>Flag</u>

Lab ID:

Analyte Ethylene oxide

ppbv ug/m³ 0.0718

0.13



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Comments:

Analyte

Ethylene oxide

ATTN: Ms. Jaime Gore

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

Description: South Dekalb-Atec Lab ID:

0.0287

Pressure @ Receipt: 11.50 psi

AQS SITE CODE: SITE CODE:

1012725-02

Canister #: 33496

Air Toxics by EPA Compendium Method TO-15

FILE #: 4022.00

REPORTED: 03/04/21 16:00

SUBMITTED: 01/06/21 to 01/27/21

GA EtO

Sampled: 01/16/21 23:59

Received: 01/27/21 12:23

Analyzed: 02/03/21 00:58

Results ppbv ug/m³ <u>Flag</u>

0.05

MDL ppbv 0.0285

Eastern Research Group



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: 18.5 psi

Description: NR285

FILE #: 4022.00

REPORTED: 03/04/21 16:00

SUBMITTED: 01/06/21 to 01/27/21

AQS SITE CODE:

SITE CODE: GA EtO

Lab ID: 1012725-03 Sampled: 01/16/21 23:59 **Canister #:** 35157 **Received:** 01/27/21 12:23 **Analyzed:** 02/03/21 02:49

Air Toxics by EPA Compendium Method TO-15

Results

<u>Flag</u>

<u>MDL</u>

Analyte Ethylene oxide

Comments:

ppbv ug/m³ 0.0623 0.11



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 #: 4022.00

REPORTED: 03/04/21 16:00

SUBMITTED: 01/06/21 to 01/27/21

AQS SITE CODE:

SITE CODE: GA EtO

No Parce	Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes
Prepared: 01/10/21 Analyzed: 01/12/21 Ethylene oxide ND ppbv O.05 Analyzed: 01/13/21 Ethylene oxide O.0486 ppbv O.06 2.25 25 Duplicate (B1A1207-DUP2) Source: 1010721-01 Prepared: 12/23/20 Analyzed: 01/13/21 Ethylene oxide O.0584 ppbv O.06 2.25 25 Duplicate (B1A1207-DUP3) Source: 1010721-01 Prepared: 12/23/20 Analyzed: 01/13/21 Ethylene oxide O.0584 ppbv O.06 2.25 25 Duplicate (B1A1407-DUP3) Source: 1010721-01 Prepared: 12/23/20 Analyzed: 01/13/21 Analyzed: 01/14/21 Ethylene oxide O.0584 ppbv O.06 0.25 25 Duplicate (B1A1407-BIK1) Prepared: 01/13/21 Analyzed: 01/14/21 Duplicate (B1A1407-DUP2) Source: 1011328-02 Prepared: 12/29/20 Analyzed: 01/15/21 Duplicate (B1A1906-BIK1) Prepared: 8 Analyzed: 01/19/21 Duplicate (B1A1906-BIK1) Prepared: 01/04/21 Analyzed: 01/19/21 Duplicate (B1A1906-DUP1) Source: 1011328-04 Prepared: 01/04/21 Analyzed: 01/19/21 Duplicate (B1A1906-DUP2) Source: 1011328-04 Prepared: 01/04/21 Analyzed: 01/19/21 Duplicate (B1A1204-BIK1) Prepared: 01/04/21 Analyzed: 01/19/21 Duplicate (B1A1204-BIK1) Prepared: 01/04/21 Analyzed: 01/19/21 Duplicate (B1A12204-DUP2) Source: 1011328-04 Prepared: 01/04/21 Analyzed: 01/19/21 Duplicate (B1A2204-DUP2) Source: 1012128-04 Prepared: 01/10/21 Analyzed: 01/23/21 Duplicate (B1A2204-DUP2) Source: 1012128-01 Prepared: 01/10/21 Analyzed: 01/23/21 Duplicate (B1A2204-DUP3) Source: 1012128-01 Prepared: 01/10/21 Analyzed: 01/23/21 Duplicate (B1A0208-DUP3) Source: 1012128-02 Prepared: 01/10/21 Analyzed: 01/23/21 Duplicate (B1B0208-DUP3) Source: 10121228-02 Prepared: 01/10/21 Analyzed: 01/23/21 Duplicate (B1B0208-DUP3) S	Air Toxics by EPA Compendiun	n Method TO-15	- Quality Con	trol			
Prepared: 01/10/21 Analyzed: 01/12/21	-						
Ethylene oxide ND ppbv Prepared: 12/23/20 Analyzed: 01/13/21 Ethylene oxide 0.0486 ppbv 0.05 3.44 25	Blank (B1A1207-BLK1)			Prepared: 01/10/21	Analyzed: 01/12/21		
Ethylene oxide		ND	ppbv				U
Ethylene oxide	Duplicate (B1A1207-DUP2)	Source:	1010628-01	Prepared: 12/23/20	Analyzed: 01/13/21		
Ethylene oxide		0.0486	ppbv		•	25	
Ethylene oxide	Duplicate (B1A1207-DUP3)	Source:	1010721-01	Prepared: 12/23/20	Analyzed: 01/13/21		
Prepared: 01/13/21 Analyzed: 01/14/21		0.0584	ppbv	0.06	2.25	25	
Ethylene oxide	Batch B1A1407 - Summa Canister	r Prep					
Ethylene oxide				Prepared: 01/13/21	Analyzed: 01/14/21		
Ethylene oxide 0.0481 ppbv 0.05 5.07 25 **Batch B1A1906 - Summa Canister Prep** **Blank (B1A1906-BLK1)		ND	ppbv		<u> </u>		U
Ethylene oxide 0.0481 ppbv 0.05 5.07 25 **Batch B1A1906 - Summa Canister Prep** **Blank (B1A1906-BLK1)	Duplicate (B1A1407-DUP2)	Source:	1011328-02	Prepared: 12/29/20	Analyzed: 01/15/21	_	_
Prepared & Analyzed: 01/19/21 Ethylene oxide ND ppbv Prepared & Analyzed: 01/19/21 Prepared & Analyzed: 01/22/21 Prepared & Analyzed: 01/23/21 Prepared: 01/10/21 Analyzed: 01/23/21 Prepared:				•		25	
Prepared & Analyzed: 01/19/21 Ethylene oxide ND ppbv Prepared & Analyzed: 01/19/21 Prepared & Analyzed: 01/22/21 Prepared & Analyzed: 01/23/21 Prepared: 01/10/21 Analyzed: 01/23/21 Prepared:	Batch B1A1906 - Summa Canister	r Prep					
Ethylene oxide				Prepared & Analyzed	d: 01/19/21		
Ethylene oxide 0.0500 ppbv 0.04 11.2 25 Duplicate (B1A1906-DUP2) Source: 1011328-04 Prepared: 01/04/21 Analyzed: 01/19/21 Ethylene oxide 0.474 ppbv 0.46 3.48 25 Batch B1A2204 - Summa Canister Prep Blank (B1A2204-BLK1) Prepared & Analyzed: 01/22/21 Ethylene oxide ND ppbv Prepared: 01/10/21 Analyzed: 01/23/21 Ethylene oxide ND ppbv ND 25 U Duplicate (B1A2204-DUP2) Source: 1012128-01 Prepared: 01/10/21 Analyzed: 01/23/21 Ethylene oxide ND ppbv ND 25 U Duplicate (B1A2204-DUP3) Source: 1012128-02 Prepared: 01/10/21 Analyzed: 01/23/21 Ethylene oxide 0.0938 ppbv 0.09 0.849 25 Batch B1B0208 - Summa Canister Prep Blank (B1B0208-BLK1) Prepared & Analyzed: 02/02/21 Ethylene oxide ND ppbv Prepared: 01/16/21 Analyzed: 02/03/21 Ethylene oxide ND ppbv O.07 0.139 25 Duplicate (B1B0208-DUP2) Source: 1012725-02 Prepared: 01/16/21 Analyzed: 02/03/21		ND	ppbv	·			U
Ethylene oxide 0.0500 ppbv 0.04 11.2 25 Duplicate (B1A1906-DUP2) Source: 1011328-04 Prepared: 01/04/21 Analyzed: 01/19/21 Ethylene oxide 0.474 ppbv 0.46 3.48 25 Batch B1A2204 - Summa Canister Prep Blank (B1A2204-BLK1) Prepared & Analyzed: 01/22/21 Ethylene oxide ND ppbv Prepared: 01/10/21 Analyzed: 01/23/21 Ethylene oxide ND ppbv ND 25 U Duplicate (B1A2204-DUP2) Source: 1012128-01 Prepared: 01/10/21 Analyzed: 01/23/21 Ethylene oxide ND ppbv ND 25 U Duplicate (B1A2204-DUP3) Source: 1012128-02 Prepared: 01/10/21 Analyzed: 01/23/21 Ethylene oxide 0.0938 ppbv 0.09 0.849 25 Batch B1B0208 - Summa Canister Prep Blank (B1B0208-BLK1) Prepared & Analyzed: 02/02/21 Ethylene oxide ND ppbv Prepared: 01/16/21 Analyzed: 02/03/21 Ethylene oxide ND ppbv O.07 0.139 25 Duplicate (B1B0208-DUP2) Source: 1012725-02 Prepared: 01/16/21 Analyzed: 02/03/21	Duplicate (B1A1906-DUP1)	Source:	1011328-03	Prepared: 01/04/21	Analyzed: 01/19/21		
Ethylene oxide 0.474 ppbv 0.46 3.48 25 Batch B1A2204 - Summa Canister Prep Blank (B1A2204-BLK1) Prepared & Analyzed: 01/22/21 Ethylene oxide ND ppbv Prepared: 01/10/21 Analyzed: 01/23/21 Ethylene oxide ND ppbv ND 25 U Duplicate (B1A2204-DUP2) Source: 1012128-01 Prepared: 01/10/21 Analyzed: 01/23/21 Ethylene oxide ND ppbv ND 25 U Duplicate (B1A2204-DUP3) Source: 1012128-02 Prepared: 01/10/21 Analyzed: 01/23/21 Ethylene oxide 0.0938 ppbv 0.09 0.849 25 Batch B1B0208 - Summa Canister Prep Blank (B1B0208-BLK1) Prepared & Analyzed: 02/02/21 Ethylene oxide ND ppbv U Duplicate (B1B0208-DUP1) Source: 1012725-01 Prepared: 01/16/21 Analyzed: 02/03/21 Ethylene oxide 0.0719 ppbv 0.07 0.139 25 Duplicate (B1B0208-DUP2) Source: 1012725-02 Prepared: 01/16/21 Analyzed: 02/03/21		0.0500	ppbv	0.04	11.2	25	
## Ethylene oxide	Duplicate (B1A1906-DUP2)	Source:	1011328-04	Prepared: 01/04/21	Analyzed: 01/19/21		
Blank (B1A2204-BLK1) Prepared & Analyzed: 01/22/21 Ethylene oxide ND ppbv Prepared: 01/10/21 Analyzed: 01/23/21 Ethylene oxide ND ppbv ND ND 25 U Duplicate (B1A2204-DUP3) Source: 1012128-02 Prepared: 01/10/21 Analyzed: 01/23/21 Prepared: 01/10/21 Analyzed: 01/23/21 Prepared: 01/10/21 Analyzed: 01/23/21 Prepared: 01/10/21 Analyzed: 01/23/21 Prepared: 01/23/21		0.474	ppbv	0.46	3.48	25	
Blank (B1A2204-BLK1) Prepared & Analyzed: 01/22/21 Ethylene oxide ND ppbv Prepared: 01/10/21 Analyzed: 01/23/21 Ethylene oxide ND ppbv ND ND 25 U Duplicate (B1A2204-DUP3) Source: 1012128-02 Prepared: 01/10/21 Analyzed: 01/23/21 Prepared: 01/10/21 Analyzed: 01/23/21 Prepared: 01/10/21 Analyzed: 01/23/21 Prepared: 01/10/21 Analyzed: 01/23/21 Prepared: 01/23/21	Batch B1A2204 - Summa Canister	r Prep					
Ethylene oxide ND ppbv U Duplicate (B1A2204-DUP2) Source: 1012128-01 Prepared: 01/10/21 Analyzed: 01/23/21 Ethylene oxide ND ppbv ND 25 U Duplicate (B1A2204-DUP3) Source: 1012128-02 Prepared: 01/10/21 Analyzed: 01/23/21 Prepared: 01/10/21 Analyzed: 01/23/21 Prepared: 01/23/21				Prepared & Analyzed: 01/22/21			
Ethylene oxide ND ppbv ND ND 25 U Duplicate (B1A2204-DUP3) Source: 1012128-02 Prepared: 01/10/21 Analyzed: 01/23/21 Prepared: 01/10/21 Analyzed: 01/23/21 Prepared: 01/10/21 Analyzed: 01/23/21 Prepared: 01/10/21 Analyzed: 02/02/21 Prepared: 01/10/21 Analyzed: 02/02/21 Prepared: 01/10/21 Analyzed: 02/03/21 Prepared: 01/10/21 Prepared: 01/10/21 Analyzed: 02/03/21 Prepared: 01/10/21 Prepared:		ND	ppbv	·			U
Ethylene oxide ND ppbv ND ND 25 U Duplicate (B1A2204-DUP3) Source: 1012128-02 Prepared: 01/10/21 Analyzed: 01/23/21 Prepared: 01/10/21 Analyzed: 01/23/21 Prepared: 01/10/21 Analyzed: 01/23/21 Prepared: 01/10/21 Analyzed: 02/02/21 Prepared: 01/10/21 Analyzed: 02/02/21 Prepared: 01/10/21 Analyzed: 02/03/21 Prepared: 01/10/21 Prepared: 01/10/21 Analyzed: 02/03/21 Prepared: 01/10/21 Prepared:	Duplicate (B1A2204-DUP2)	Source:	1012128-01	Prepared: 01/10/21	Analyzed: 01/23/21		
Ethylene oxide 0.0938 ppbv 0.09 0.849 25 Batch B1B0208 - Summa Canister Prep Blank (B1B0208-BLK1) Prepared & Analyzed: 02/02/21 Ethylene oxide ND ppbv U Duplicate (B1B0208-DUP1) Source: 1012725-01 Prepared: 01/16/21 Analyzed: 02/03/21 Ethylene oxide 0.0719 ppbv 0.07 0.139 25 Duplicate (B1B0208-DUP2) Source: 1012725-02 Prepared: 01/16/21 Analyzed: 02/03/21					<u> </u>	25	U
Ethylene oxide 0.0938 ppbv 0.09 0.849 25 Batch B1B0208 - Summa Canister Prep Blank (B1B0208-BLK1) Prepared & Analyzed: 02/02/21 Ethylene oxide ND ppbv U Duplicate (B1B0208-DUP1) Source: 1012725-01 Prepared: 01/16/21 Analyzed: 02/03/21 Ethylene oxide 0.0719 ppbv 0.07 0.139 25 Duplicate (B1B0208-DUP2) Source: 1012725-02 Prepared: 01/16/21 Analyzed: 02/03/21	Duplicate (B1A2204-DUP3)	Source:	1012128-02	Prepared: 01/10/21	Analyzed: 01/23/21	_	_
Blank (B1B0208-BLK1) Prepared & Analyzed: 02/02/21 Ethylene oxide ND ppbv U Duplicate (B1B0208-DUP1) Source: 1012725-01 Prepared: 01/16/21 Analyzed: 02/03/21 Ethylene oxide 0.0719 ppbv 0.07 0.139 25 Duplicate (B1B0208-DUP2) Source: 1012725-02 Prepared: 01/16/21 Analyzed: 02/03/21		0.0938	ppbv	0.09	0.849	25	
Blank (B1B0208-BLK1) Prepared & Analyzed: 02/02/21 Ethylene oxide ND ppbv U Duplicate (B1B0208-DUP1) Source: 1012725-01 Prepared: 01/16/21 Analyzed: 02/03/21 Ethylene oxide 0.0719 ppbv 0.07 0.139 25 Duplicate (B1B0208-DUP2) Source: 1012725-02 Prepared: 01/16/21 Analyzed: 02/03/21	Batch B1B0208 - Summa Canistei	r Prep					
Ethylene oxide ND ppbv U Duplicate (B1B0208-DUP1) Source: 1012725-01 Prepared: 01/16/21 Analyzed: 02/03/21 Ethylene oxide 0.0719 ppbv 0.07 0.139 25 Duplicate (B1B0208-DUP2) Source: 1012725-02 Prepared: 01/16/21 Analyzed: 02/03/21		•		Prepared & Analyzed	d: 02/02/21		
Ethylene oxide 0.0719 ppbv 0.07 0.139 25 Duplicate (B1B0208-DUP2) Source: 1012725-02 Prepared: 01/16/21 Analyzed: 02/03/21		ND	ppbv	·			U
Ethylene oxide 0.0719 ppbv 0.07 0.139 25 Duplicate (B1B0208-DUP2) Source: 1012725-02 Prepared: 01/16/21 Analyzed: 02/03/21	·	Source:	1012725-01	Prepared: 01/16/21	Analyzed: 02/03/21		
Duplicate (B1B0208-DUP2) Source: 1012725-02 Prepared: 01/16/21 Analyzed: 02/03/21						25	
	·	Source:	1012725-02	Prepared: 01/16/21	Analyzed: 02/03/21		
·	Ethylene oxide				. , -	25	U

Eastern Research Group



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 #: 4022.00

REPORTED: 03/04/21 16:00

SUBMITTED: 01/06/21 to 01/27/21

AQS SITE CODE:

SITE CODE: GA EtO

Analyte	Result	Units	% Difference	Limit (%)	Notes
Air Toxics by EPA Compendium I Sequence 2101019	Method TO-15	- Quality Con	ıtrol		
Calibration Check (2101019-CCV1)	F	Prepared & Analyze	ed: 01/12/21	
Ethylene oxide	2.73	ppbv	9.3	30.00	
Sequence 2101024					
Calibration Check (2101024-CCV1	,)	F	Prepared & Analyze	ed: 01/14/21	
Ethylene oxide	2.80	ppbv	16.0	30.00	
Sequence 2101033					
Calibration Check (2101033-CCV1	,)	F	Prepared & Analyze	ed: 01/19/21	
Ethylene oxide	2.86	ppbv	18.5	30.00	
Sequence 2101041					
Calibration Check (2101041-CCV1)	F	Prepared & Analyze	ed: 01/22/21	
Ethylene oxide	2.88	ppbv	19.0	30.00	
Sequence 2102004					
Calibration Check (2102004-CCV1	,)	F	Prepared & Analyze	ed: 02/02/21	
Ethylene oxide	2.49	ppbv	-0.4	30.00	

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Notes and Definitions

U Under Detection Limit Analyte

ND NOT DETECTED NR Not Reported

MDL Method Detection Limit

RPD Relative Percent Difference

CE Not reportable due to a co-eluting compound.

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 DeKalb County, GA

01/04/2021

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

tion Division







Ethylene Oxide Sampling DeKalb County, GA

01/16/2021

Sampled By: Georgia Environmental Protection Division

Analyzed By: Eastern Research Group



ENVIRONMENTAL PROTECTION DIVISION