

Richard E. Dunn, Director

EPD Director's Office

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

August 31, 2021

MEMORANDUM

To: Karen Hays, Air Branch Chief

Through: James Boylan, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: South DeKalb March 05, 2021 – April 10, 2021 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were taken at our South DeKalb monitoring station in March and April 2021. 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 using the same collection method during the same time period to compare the precision of the measurement. 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 samples listed as "AF" indicates the sample was scheduled but not collected. Please note that ERG is now providing values for levels below the detection limit.

Location	Date	Qualifier	EtO Concentration (ug/m³)
South DeKalb	03/05/2021		AF
South DeKalb	03/11/2021		0.22
South DeKalb	03/17/2021	2	0.05
South DeKalb	03/23/2021		0.11
South DeKalb QA	03/23/2021	2	0.19
South DeKalb	03/29/2021		0.07
South DeKalb	04/04/2021		0.09
South DeKalb QA	04/04/2021		0.15
South DeKalb	04/10/2021	LK	0.31

Samples were also collected on a pressurized system at our South DeKalb monitoring station for comparison purposes on the dates listed below. This comparison is part of the Community Scales Air Toxics Monitoring Grant awarded to Georgia EPD by EPA for evaluating new technologies for ethylene oxide measurement. The Qualifier codes of "1" and "6" were added to data because the samplers used for collection had not been verified against an ethylene oxide standard prior to sampling. These samples

were also sent to Eastern Research Group for analysis. Please see above for the other qualifier explanations.

South DeKalb pressurized	03/05/2021		AF
South DeKalb pressurized	03/11/2021	1, 2, 6	0.17
South DeKalb pressurized QA	03/11/2021	1, 2, 6	0.23
South DeKalb pressurized	03/17/2021	1, 6	0.07
South DeKalb pressurized	03/23/2021		AF
South DeKalb pressurized	03/29/2021	1, 6	0.10
South DeKalb pressurized	03/31/2021	LK, 1, 6	3.09
South DeKalb pressurized	04/04/2021		AF
South DeKalb pressurized	04/07/2021	1, 6	0.12
South DeKalb pressurized QA	04/07/2021	LK, 1, 6	0.29
South DeKalb pressurized	04/10/2021	1, 2, 6	0.10

If you have any questions, please let me know.

DGO/do



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

May 11, 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 03/16/21 12:56 through 04/14/21 11:08.

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 #: 4022.00

REPORTED: 05/11/21 12:51

SUBMITTED: 03/16/21 to 04/14/21

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-Atec	1031637-01	Air	03/11/21 23:59	03/16/21 12:56
South Dekalb-Atec QA	1031637-02	Air	03/11/21 23:59	03/16/21 12:56
South Dekalb	1031637-03	Air	03/11/21 23:59	03/16/21 12:56
South Dekalb	1032327-01	Air	03/17/21 23:59	03/23/21 12:52
South Dekalb ATEC	1032327-02	Air	03/17/21 23:59	03/23/21 12:52
South Dekalb	1032613-01	Air	03/23/21 23:59	03/26/21 12:18
South Dekalb QA	1032613-02	Air	03/23/21 23:59	03/26/21 12:18
South Dekalb-Atec	1040132-01	Air	03/29/21 23:59	04/01/21 12:22
South Dekalb	1040132-02	Air	03/29/21 23:59	04/01/21 12:22
South Dekalb-ATEC	1040822-01	Air	03/31/21 23:59	04/08/21 12:11
South Dekalb	1040822-02	Air	04/04/21 23:59	04/08/21 12:11
South Dekalb QA	1040822-03	Air	04/04/21 23:59	04/08/21 12:11
South Dekalb-Atec	1041341-01	Air	04/07/21 23:59	04/13/21 13:55
South Dekalb	1041341-02	Air	04/10/21 23:59	04/13/21 13:55
South Dekalb-Atec	1041341-03	Air	04/10/21 23:59	04/13/21 13:55
South Dekalb-Atec QA	1041411-01	Air	04/07/21 23:59	04/14/21 11:08



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Analyte

Ethylene oxide

ATTN: Ms. Jaime Gore

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

Pressure @ Receipt: 12.50 psig **Comments:**

Description: South Dekalb-Atec

FILE #: 4022.00

REPORTED: 05/11/21 12:51

SUBMITTED: 03/16/21 to 04/14/21

AQS SITE CODE:

SITE CODE: GA EtO

> Sampled: 03/11/21 23:59 **Received:** 03/16/21 12:56

> > **Analyzed:** 03/22/21 21:15

Air Toxics by EPA Compendium Method TO-15

MDL

1031637-01

Results ppbv ug/m³

0.17

0.0915

<u>Flag</u>

Canister #: A21056

Lab ID:

ppbv 0.0261



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 QA

Pressure @ Receipt: 11.75 psig

Comments:

Analyte

Ethylene oxide

FILE #: 4022.00

REPORTED: 05/11/21 12:51

SUBMITTED: 03/16/21 to 04/14/21

AQS SITE CODE:

SITE CODE: GA EtO

1031637-02

Received: 03/16/21 12:56

Analyzed: 03/22/21 23:17

Sampled: 03/11/21 23:59

Air Toxics by EPA Compendium Method TO-15

MDL

Results

<u>Flag</u>

Canister #: SAT101

ppbv ug/m³ ppbv 0.127 0.23 0.0261

Lab ID:

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 **Description:** South Dekalb

Pressure @ Receipt: 2.00" Hg

FILE #: 4022.00

REPORTED: 05/11/21 12:51

SUBMITTED: 03/16/21 to 04/14/21

AQS SITE CODE:

SITE CODE: GA EtO

Lab ID: 1031637-03 Sampled: 03/11/21 23:59 Canister #: A21006 **Received:** 03/16/21 12:56 **Analyzed:** 03/23/21 01:18

Air Toxics by EPA Compendium Method TO-15

MDL **Results** ppbv ug/m³ <u>Flag</u> ppbv 0.124 0.22 0.0261



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: 0.90" Hg **Comments:**

Lab ID:

Canister #: 110314

1032327-01

FILE #: 4022.00

AQS SITE CODE:

SITE CODE:

REPORTED: 05/11/21 12:51

SUBMITTED: 03/16/21 to 04/14/21

GA EtO

Sampled: 03/17/21 23:59 **Received:** 03/23/21 12:52

Analyzed: 03/26/21 19:24

Air Toxics by EPA Compendium Method TO-15

MDL

ppbv

0.0261

Results ppbv ug/m³

0.0294

<u>Flag</u>

Analyte Ethylene oxide

0.05



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

Pressure @ Receipt: 12.75 psi

Lab ID:

Canister #: 9570

1032327-02

FILE #: 4022.00

AQS SITE CODE:

SITE CODE:

REPORTED: 05/11/21 12:51

SUBMITTED: 03/16/21 to 04/14/21

GA EtO

Sampled: 03/17/21 23:59 **Received:** 03/23/21 12:52

Analyzed: 03/26/21 21:26

Air Toxics by EPA Compendium Method TO-15

Results

0.0397

ppbv ug/m³

0.07

<u>Flag</u>

ppbv 0.0261

MDL

Eastern Research Group



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Comments:

Analyte

ATTN: Ms. Jaime Gore

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

Description: South Dekalb

Pressure @ Receipt: 6.00" Hg

FILE #: 4022.00

REPORTED: 05/11/21 12:51

SUBMITTED: 03/16/21 to 04/14/21

AQS SITE CODE:

SITE CODE: GA EtO

Lab ID: 1032613-01 Sampled: 03/23/21 23:59 Canister #: 114366 **Received:** 03/26/21 12:18 **Analyzed:** 04/06/21 19:05

Air Toxics by EPA Compendium Method TO-15 MDL

Results ppbv ug/m³

<u>Flag</u>

Ethylene oxide 0.0622 0.11

ppbv 0.0261

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

Description: South Dekalb QA

Pressure @ Receipt: 6.50" Hg

FILE #: 4022.00

REPORTED: 05/11/21 12:51

SUBMITTED: 03/16/21 to 04/14/21

AQS SITE CODE:

SITE CODE: GA EtO

Lab ID: 1032613-02 Sampled: 03/23/21 23:59 **Canister #:** 111219 **Received:** 03/26/21 12:18 **Analyzed:** 04/06/21 21:07

Air Toxics by EPA Compendium Method TO-15

MDL **Results** ppbv ug/m³ <u>Flag</u> ppbv 0.106 0.19 0.0261



FILE #: 4022.00

AQS SITE CODE:

SITE CODE:

REPORTED: 05/11/21 12:51

SUBMITTED: 03/16/21 to 04/14/21

GA EtO

Sampled: 03/29/21 23:59

Received: 04/01/21 12:22

Analyzed: 04/07/21 02:11

U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Description: South Dekalb-Atec

Pressure @ Receipt: 12.00 psig

Atlanta, GA 30354

Comments:

Analyte

Ethylene oxide

ATTN: Ms. Jaime Gore

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

Lab ID: 1040132-01

Canister #: SAT061

Air Toxics by EPA Compendium Method TO-15

ppbv ug/m³ 0.0548 0.10

Results

<u>Flag</u>

ppbv 0.0261

MDL

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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.

Page 10 of 22



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

FILE #: 4022.00

REPORTED: 05/11/21 12:51

SUBMITTED: 03/16/21 to 04/14/21

AQS SITE CODE:

SITE CODE: GA EtO

Lab ID: 1040132-02 Sampled: 03/29/21 23:59 **Canister #:** 114322 **Received:** 04/01/21 12:22 **Analyzed:** 04/07/21 00:09

Air Toxics by EPA Compendium Method TO-15

MDL Results ppbv ug/m³ <u>Flag</u> ppbv 0.0387 0.07 0.0261

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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-ATEC

Pressure @ Receipt: 12.75 psig

FILE #: 4022.00

REPORTED: 05/11/21 12:51

SUBMITTED: 03/16/21 to 04/14/21

AQS SITE CODE:

SITE CODE: GA EtO

Lab ID: 1040822-01 Sampled: 03/31/21 23:59 **Canister #:** A21007 **Received:** 04/08/21 12:11 **Analyzed:** 04/14/21 20:01

Air Toxics by EPA Compendium Method TO-15

MDL **Results Analyte** ppbv ug/m³ <u>Flag</u> ppbv LK Ethylene oxide 1.71 3.09 0.0261



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Analyte

Ethylene oxide

ATTN: Ms. Jaime Gore

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

Description: South Dekalb

Pressure @ Receipt: 2.00" Hg **Comments:**

FILE #: 4022.00

REPORTED: 05/11/21 12:51

SUBMITTED: 03/16/21 to 04/14/21

AQS SITE CODE:

SITE CODE: GA EtO

> Sampled: 04/04/21 23:59 **Received:** 04/08/21 12:11

> > **Analyzed:** 04/14/21 21:02

Air Toxics by EPA Compendium Method TO-15

1040822-02

Results ppbv ug/m³

0.09

0.0516

<u>Flag</u>

Canister #: 18889

Lab ID:

ppbv 0.0261

MDL

Eastern Research Group



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

Comments:

Analyte

ATTN: Ms. Jaime Gore

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

Description: South Dekalb QA

Pressure @ Receipt: 5.50" Hg

Lab ID: 1040822-03

Canister #: 33315

REPORTED: 05/11/21 12:51

SUBMITTED: 03/16/21 to 04/14/21

GA EtO

FILE #: 4022.00

AQS SITE CODE:

SITE CODE:

Sampled: 04/04/21 23:59 **Received:** 04/08/21 12:11

Analyzed: 04/14/21 23:04

Air Toxics by EPA Compendium Method TO-15

Results ppbv ug/m³

MDL <u>Flag</u>

Ethylene oxide

0.0810 0.15

ppbv 0.0261



FILE #: 4022.00

AQS SITE CODE:

SITE CODE:

REPORTED: 05/11/21 12:51

SUBMITTED: 03/16/21 to 04/14/21

GA EtO

Sampled: 04/07/21 23:59

Received: 04/13/21 13:55

Analyzed: 04/28/21 04:55

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 Pressure @ Receipt: 13.21 psig

Canister #: 19284

Lab ID:

Air Toxics by EPA Compendium Method TO-15

1041341-01

MDL **Results** ppbv ug/m³ <u>Flag</u> ppbv 0.0688 0.12 0.0261

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 F

Description: South Dekalb

Pressure @ Receipt: 6.50" Hg

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

FILE #: 4022.00

REPORTED: 05/11/21 12:51

SUBMITTED: 03/16/21 to 04/14/21

AQS SITE CODE:

SITE CODE: GA EtO

Lab ID: 1041341-02 Sampled: 04/10/21 23:59
Canister #: SAT073 Received: 04/13/21 13:55
Analyzed: 04/15/21 21:28

Air Toxics by EPA Compendium Method TO-15

 Results
 MDL

 ppbv
 ug/m³
 Flag
 ppbv

 0.170
 0.31
 LK
 0.0261



U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Description: South Dekalb-Atec

Pressure @ Receipt: 12.25 psig

Atlanta, GA 30354

Comments:

Analyte

Ethylene oxide

ATTN: Ms. Jaime Gore

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

FILE #: 4022.00

REPORTED: 05/11/21 12:51

SUBMITTED: 03/16/21 to 04/14/21

AQS SITE CODE:

SITE CODE: GA EtO

Lab ID: 1041341-03 Sampled: 04/10/21 23:59 Canister #: SAT130 **Received:** 04/13/21 13:55 **Analyzed:** 04/15/21 23:30

Air Toxics by EPA Compendium Method TO-15 MDL

Results

<u>Flag</u>

ppbv ug/m³ 0.0572

0.10

ppbv 0.0261

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

Description: South Dekalb-Atec QA

Pressure @ Receipt: 12.50 psig

FILE #: 4022.00

REPORTED: 05/11/21 12:51

SUBMITTED: 03/16/21 to 04/14/21

AQS SITE CODE:

SITE CODE: GA EtO

 Lab ID:
 1041411-01
 Sampled: 04/07/21 23:59

 Canister #:
 SAT057
 Received: 04/14/21 11:08

 Analyzed:
 04/28/21 06:57

Air Toxics by EPA Compendium Method TO-15

 Results
 MDL

 ppbv
 ug/m³
 Flag
 ppbv

 0.163
 0.29
 LK
 0.0261



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: 05/11/21 12:51

SUBMITTED: 03/16/21 to 04/14/21

AQS SITE CODE:

SITE CODE: GA EtO

Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes
Air Toxics by EPA Compendiun	n Method TO-15	- Ouality Con	trol			
Batch B1C2207 - Summa Canister		L				
Blank (B1C2207-BLK1)	,		Prepared & Analyzed	d: 03/22/21		
Ethylene oxide	ND	ppbv		<u> </u>		U
Duplicate (B1C2207-DUP1)	Source:	: 1031637-01	Prepared: 03/11/21	Analyzed: 03/22/21		
Ethylene oxide	0.0959	ppbv	0.09	4.70	25	
Duplicate (B1C2207-DUP2)	Source:	: 1031637-02	Prepared: 03/11/21	Analyzed: 03/23/21		
Ethylene oxide	0.122	ppbv	0.13	3.61	25	
Duplicate (B1C2207-DUP3)	Source:	: 1031637-03	Prepared: 03/11/21	Analyzed: 03/23/21		
Ethylene oxide	0.130	ppbv	0.12	4.42	25	
Batch B1C2603 - Summa Canister	r <i>Prep</i>					
Blank (B1C2603-BLK1)	•		Prepared & Analyzed	d: 03/26/21		
Ethylene oxide	ND	ppbv				U
Duplicate (B1C2603-DUP1)	Source:	: 1032327-01	Prepared: 03/17/21	Analyzed: 03/26/21		
Ethylene oxide	0.0428	ppbv	0.03	37.1	25	
Duplicate (B1C2603-DUP2)	Source:	: 1032327-02	Prepared: 03/17/21	Analyzed: 03/26/21		
Ethylene oxide	0.0417	ppbv	0.04	4.91	25	
Batch B1D0606 - Summa Canistei	r Prep					
Blank (B1D0606-BLK1)			Prepared & Analyzed	d: 04/06/21		
Ethylene oxide	ND	ppbv				U
Duplicate (B1D0606-DUP1)	Source:	: 1032613-01	Prepared: 03/23/21	Analyzed: 04/06/21		
Duplicate (B1D0606-DUP1) Ethylene oxide	Source: 0.0543	ppbv	Prepared: 03/23/21 0.06	Analyzed: 04/06/21 13.6	25	
	0.0543		0.06		25	
Ethylene oxide	0.0543	ppbv	0.06	13.6	25 25	
Ethylene oxide Duplicate (B1D0606-DUP2)	0.0543 Source: 0.104	ppbv : 1032613-02	0.06 Prepared: 03/23/21 0.11	13.6 Analyzed: 04/06/21		
Ethylene oxide Duplicate (B1D0606-DUP2) Ethylene oxide	0.0543 Source: 0.104	ppbv : 1032613-02 ppbv	0.06 Prepared: 03/23/21 0.11	13.6 Analyzed: 04/06/21 2.00		
Ethylene oxide Duplicate (B1D0606-DUP2) Ethylene oxide Duplicate (B1D0606-DUP3)	0.0543 Source: 0.104 Source: 0.0406	ppbv : 1032613-02 ppbv : 1040132-02	0.06 Prepared: 03/23/21 0.11 Prepared: 03/29/21 0.04	13.6 Analyzed: 04/06/21 2.00 Analyzed: 04/07/21	25	
Ethylene oxide Duplicate (B1D0606-DUP2) Ethylene oxide Duplicate (B1D0606-DUP3) Ethylene oxide	0.0543 Source: 0.104 Source: 0.0406	ppbv : 1032613-02 ppbv : 1040132-02 ppbv	0.06 Prepared: 03/23/21 0.11 Prepared: 03/29/21 0.04	13.6 Analyzed: 04/06/21 2.00 Analyzed: 04/07/21 4.79	25	
Ethylene oxide Duplicate (B1D0606-DUP2) Ethylene oxide Duplicate (B1D0606-DUP3) Ethylene oxide Duplicate (B1D0606-DUP4) Ethylene oxide	0.0543 Source: 0.104 Source: 0.0406 Source: 0.0666	ppbv : 1032613-02 ppbv : 1040132-02 ppbv : 1040132-01	0.06 Prepared: 03/23/21 0.11 Prepared: 03/29/21 0.04 Prepared: 03/29/21	13.6 Analyzed: 04/06/21 2.00 Analyzed: 04/07/21 4.79 Analyzed: 04/07/21	25 25	
Ethylene oxide Duplicate (B1D0606-DUP2) Ethylene oxide Duplicate (B1D0606-DUP3) Ethylene oxide Duplicate (B1D0606-DUP4) Ethylene oxide	0.0543 Source: 0.104 Source: 0.0406 Source: 0.0666	ppbv : 1032613-02 ppbv : 1040132-02 ppbv : 1040132-01	0.06 Prepared: 03/23/21 0.11 Prepared: 03/29/21 0.04 Prepared: 03/29/21	13.6 Analyzed: 04/06/21 2.00 Analyzed: 04/07/21 4.79 Analyzed: 04/07/21 19.4	25 25	
Ethylene oxide Duplicate (B1D0606-DUP2) Ethylene oxide Duplicate (B1D0606-DUP3) Ethylene oxide Duplicate (B1D0606-DUP4) Ethylene oxide Batch B1D1403 - Summa Canister	0.0543 Source: 0.104 Source: 0.0406 Source: 0.0666	ppbv : 1032613-02 ppbv : 1040132-02 ppbv : 1040132-01	0.06 Prepared: 03/23/21 0.11 Prepared: 03/29/21 0.04 Prepared: 03/29/21 0.05	13.6 Analyzed: 04/06/21 2.00 Analyzed: 04/07/21 4.79 Analyzed: 04/07/21 19.4	25 25	U
Ethylene oxide Duplicate (B1D0606-DUP2) Ethylene oxide Duplicate (B1D0606-DUP3) Ethylene oxide Duplicate (B1D0606-DUP4) Ethylene oxide Batch B1D1403 - Summa Canistell Blank (B1D1403-BLK1)	0.0543 Source: 0.104 Source: 0.0406 Source: 0.0666 r Prep	ppbv 1032613-02 ppbv 1040132-02 ppbv 1040132-01 ppbv	0.06 Prepared: 03/23/21 0.11 Prepared: 03/29/21 0.04 Prepared: 03/29/21 0.05 Prepared & Analyzed	13.6 Analyzed: 04/06/21 2.00 Analyzed: 04/07/21 4.79 Analyzed: 04/07/21 19.4	25 25	U
Ethylene oxide Duplicate (B1D0606-DUP2) Ethylene oxide Duplicate (B1D0606-DUP3) Ethylene oxide Duplicate (B1D0606-DUP4) Ethylene oxide Batch B1D1403 - Summa Canister Blank (B1D1403-BLK1) Ethylene oxide	0.0543 Source: 0.104 Source: 0.0406 Source: 0.0666 r Prep	ppbv 1032613-02 ppbv 1040132-02 ppbv 1040132-01 ppbv	0.06 Prepared: 03/23/21 0.11 Prepared: 03/29/21 0.04 Prepared: 03/29/21 0.05 Prepared & Analyzed	13.6 Analyzed: 04/06/21 2.00 Analyzed: 04/07/21 4.79 Analyzed: 04/07/21 19.4 d: 04/14/21	25 25	U
Ethylene oxide Duplicate (B1D0606-DUP2) Ethylene oxide Duplicate (B1D0606-DUP3) Ethylene oxide Duplicate (B1D0606-DUP4) Ethylene oxide Batch B1D1403 - Summa Canister Blank (B1D1403-BLK1) Ethylene oxide Duplicate (B1D1403-DUP3)	0.0543 Source: 0.104 Source: 0.0406 Source: 0.0666 r Prep ND Source: 0.0493	ppbv : 1032613-02 ppbv : 1040132-02 ppbv : 1040132-01 ppbv ppbv : 1040822-02	0.06 Prepared: 03/23/21 0.11 Prepared: 03/29/21 0.04 Prepared: 03/29/21 0.05 Prepared & Analyzed Prepared: 04/04/21 0.05	13.6 Analyzed: 04/06/21 2.00 Analyzed: 04/07/21 4.79 Analyzed: 04/07/21 19.4 d: 04/14/21 Analyzed: 04/14/21	25 25 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: 05/11/21 12:51

SUBMITTED: 03/16/21 to 04/14/21

AQS SITE CODE:

SITE CODE: GA EtO

Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes
Air Toxics by EPA Compendium Batch B1D1505 - Summa Canister		- Quality Con	trol			
Blank (B1D1505-BLK1)			Prepared & Analyzed	d: 04/15/21		
Ethylene oxide	ND	ppbv				U
Duplicate (B1D1505-DUP2)	Source	: 1041341-02	Prepared: 04/10/21	Analyzed: 04/15/21		
Ethylene oxide	0.170	ppbv	0.17	0.0589	25	
Duplicate (B1D1505-DUP3)	Source	: 1041341-03	Prepared: 04/10/21	Analyzed: 04/16/21		
Ethylene oxide	0.0544	ppbv	0.06	5.02	25	
Batch B1D2707 - Summa Canister	Prep					
Blank (B1D2707-BLK1)			Prepared & Analyzed	d: 04/27/21		
Ethylene oxide	ND	ppbv				U
Duplicate (B1D2707-DUP1)	Source	: 1041341-01	Prepared: 04/07/21	Analyzed: 04/28/21		
Ethylene oxide	0.0635	ppbv	0.07	8.01	25	
Duplicate (B1D2707-DUP2)	Source	: 1041411-01	Prepared: 04/07/21	Analyzed: 04/28/21		
Ethylene oxide	0.160	ppbv	0.16	2.29	25	



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1					
Analyte	Result	Units	% Difference	Limit (%)	Notes
Air Toxics by EPA Compendium M	ethod TO-15	i - Quality Con	ntrol		
Sequence 2103062		-			
Calibration Check (2103062-CCV1)	c (2103062-CCV1) P			ed: 03/22/21	
Ethylene oxide	2.22	ppbv	-11.4	30.00	
Sequence 2103072					
Calibration Check (2103072-CCV1)		F	Prepared & Analyze	ed: 03/26/21	
Ethylene oxide	2.46	ppbv	-1.8	30.00	
Sequence 2104016					
Calibration Check (2104016-CCV1)			Prepared & Analyze	ed: 04/06/21	
Ethylene oxide	2.79	ppbv	11.8	30.00	
Sequence 2104029					
Calibration Check (2104029-CCV1)		F	Prepared & Analyze	ed: 04/14/21	
Ethylene oxide	2.56	ppbv	5.9	30.00	
Sequence 2104031					
Calibration Check (2104031-CCV1)			Prepared & Analyze	ed: 04/15/21	
Ethylene oxide	2.70	ppbv	11.6	30.00	
Sequence 2104053					
Calibration Check (2104053-CCV1)			Prepared & Analyze	ed: 04/27/21	
Ethylene oxide	3.00	ppbv	24.3	30.00	

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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.