



GEORGIA

DEPARTMENT OF NATURAL RESOURCES

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

May 31, 2022

MEMORANDUM

To: Karen Hays, Air Branch Chief *KH*

Through: James Boylan, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: South DeKalb July 3- August 14, 2021 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were taken at our South DeKalb monitoring station during the period of July 3- August 14, 2021. Samples were also collected on a pressurized system at our South DeKalb monitoring site for comparison purposes. 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. 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. The Qualifier code of "D-F" was given by ERG to indicate that the duplicate exceeds Data Quality Objectives (DQO) criteria. The Qualifier codes of "1" and "6" were added to data because the pressurized system samplers used for collection had not been verified against an ethylene oxide standard prior to sampling. Please see above for qualifier explanations. Please note that ERG is now providing values for levels below the detection limit.

| Location | Date | Qualifier | EtO Concentration (ug/m ³) |
|-------------------------|------------|------------|--|
| South DeKalb passive | 07/03/2021 | D-F | 0.25 |
| South DeKalb passive QA | 07/03/2021 | D-F, LK, 2 | 0.50 |
| South DeKalb passive | 07/09/2021 | 2 | 0.23 |
| South DeKalb passive | 07/15/2021 | | 0.56 |
| South DeKalb passive | 07/21/2021 | | 0.60 |
| South DeKalb passive | 07/27/2021 | 2 | 0.51 |
| South DeKalb passive | 08/02/2021 | LK, 2 | 0.46 |
| South DeKalb passive QA | 08/02/2021 | LK, 2 | 0.80 |
| South DeKalb passive | 08/08/2021 | 2 | 0.31 |
| South DeKalb passive | 08/14/2021 | LK, 2 | 1.56 |
| | | | |

| | | | | | |
|----------------------|--|------------|--|---------------------|------|
| | | | | | |
| South DeKalb ATEC | | 07/03/2021 | | 1, 6 | 0.14 |
| South DeKalb ATEC | | 07/09/2021 | | 1, 6, 2 | 0.16 |
| South DeKalb ATEC QA | | 07/09/2021 | | 1, 6 | 0.08 |
| South DeKalb ATEC | | 07/15/2021 | | 1, 6 | 0.17 |
| South DeKalb ATEC | | 07/21/2021 | | 1, 6 | 0.13 |
| South DeKalb ATEC | | 07/27/2021 | | 1, 6 | 0.22 |
| South DeKalb ATEC | | 08/02/2021 | | 1, 6 | 0.33 |
| South DeKalb ATEC | | 08/08/2021 | | D-F, LK, 1, 6 | 0.31 |
| South DeKalb ATEC QA | | 08/08/2021 | | D-F, LK, 2, 1, 6 | 0.40 |
| South DeKalb ATEC | | 08/14/2021 | | 1, 6 | 0.19 |

If you have any questions, please let me know.

DGO/do



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

October 04, 2021

Ms. Jaime Gore
GA Ambient Monitoring Program
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 07/08/21 11:24 through 08/19/21 13:50.

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.



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 #: 4022.00
REPORTED: 10/04/21 14:02
SUBMITTED: 07/08/21 to 08/19/21
AQS SITE CODE:
SITE CODE: GA EtO

ANALYTICAL REPORT FOR SAMPLES

| <u>SampleName</u> | <u>LabNumber</u> | <u>Matrix</u> | <u>Sampled</u> | <u>Received</u> |
|----------------------|------------------|---------------|----------------|-----------------|
| South Dekalb | 1070816-01 | Air | 07/03/21 23:59 | 07/08/21 11:24 |
| South Dekalb QA | 1070816-02 | Air | 07/03/21 23:59 | 07/08/21 11:24 |
| South Dekalb-Atec | 1070816-03 | Air | 07/03/21 23:59 | 07/08/21 11:24 |
| South Dekalb | 1072323-01 | Air | 07/09/21 23:59 | 07/23/21 11:24 |
| South Dekalb | 1072323-02 | Air | 07/15/21 23:59 | 07/23/21 11:24 |
| South Dekalb-Atec | 1072323-03 | Air | 07/09/21 23:59 | 07/23/21 11:24 |
| South Dekalb-Atec | 1072323-04 | Air | 07/15/21 23:59 | 07/23/21 11:24 |
| South Dekalb-Atec QA | 1072323-05 | Air | 07/09/21 23:59 | 07/23/21 11:24 |
| South Dekalb | 1072939-01 | Air | 07/21/21 23:59 | 07/29/21 11:02 |
| South Dekalb-Atec | 1072939-02 | Air | 07/21/21 23:59 | 07/29/21 11:02 |
| South Dekalb | 1080437-01 | Air | 07/27/21 23:59 | 08/04/21 12:25 |
| South Dekalb-Atec | 1080437-02 | Air | 07/27/21 23:59 | 08/04/21 12:25 |
| South Dekalb | 1080542-01 | Air | 08/02/21 23:59 | 08/05/21 12:17 |
| South Dekalb QA | 1080605-01 | Air | 08/02/21 23:59 | 08/06/21 11:11 |
| South Dekalb-Atec | 1080605-02 | Air | 08/02/21 23:59 | 08/06/21 11:11 |
| South Dekalb | 1081128-01 | Air | 08/08/21 23:59 | 08/11/21 11:27 |
| South Dekalb-Atec | 1081128-02 | Air | 08/08/21 23:59 | 08/11/21 11:27 |
| South Dekalb QA | 1081128-03 | Air | 08/08/21 23:59 | 08/11/21 11:27 |
| South Dekalb | 1081922-01 | Air | 08/14/21 23:59 | 08/19/21 13:50 |
| South Dekalb-Atec | 1081922-02 | Air | 08/14/21 23:59 | 08/19/21 13:50 |



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FILE #: 4022.00

REPORTED: 10/04/21 14:02

SUBMITTED: 07/08/21 to 08/19/21

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb

Lab ID: 1070816-01

Sampled: 07/03/21 23:59

Pressure @ Receipt: 4.00" Hg

Canister #: A21035

Received: 07/08/21 11:24

Comments:

Analyzed: 07/20/21 17:53

Air Toxics by EPA Compendium Method TO-15

| <u>Analyte</u> | <u>Results</u> | | <u>Flag</u> | <u>MDL</u> |
|----------------|----------------|-------------------------|-------------|-------------|
| | <u>ppbv</u> | <u>ug/m³</u> | | <u>ppbv</u> |
| Ethylene oxide | 0.136 | 0.25 | D-F | 0.0261 |



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FILE #: 4022.00

REPORTED: 10/04/21 14:02

SUBMITTED: 07/08/21 to 08/19/21

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb QA

Lab ID: 1070816-02

Sampled: 07/03/21 23:59

Pressure @ Receipt: 12.50" Hg

Canister #: A21091

Received: 07/08/21 11:24

Comments:

Analyzed: 07/20/21 19:56

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 | 0.278 | 0.50 | D-F, LK | 0.0261 |



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FILE #: 4022.00

REPORTED: 10/04/21 14:02

SUBMITTED: 07/08/21 to 08/19/21

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb-Atec

Lab ID: 1070816-03

Sampled: 07/03/21 23:59

Pressure @ Receipt: 10.00 psig

Canister #: 18817

Received: 07/08/21 11:24

Comments:

Analyzed: 07/20/21 22:00

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 | 0.0794 | 0.14 | | 0.0261 |



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FILE #: 4022.00

REPORTED: 10/04/21 14:02

SUBMITTED: 07/08/21 to 08/19/21

AQS SITE CODE:

SITE CODE: GA EtO

| | | |
|--------------------------------------|---------------------------|---------------------------------|
| Description: South Dekalb | Lab ID: 1072323-01 | Sampled: 07/09/21 23:59 |
| Pressure @ Receipt: 15.00" Hg | Canister #: 111211 | Received: 07/23/21 11:24 |
| Comments: | | Analyzed: 07/26/21 22:24 |

Air Toxics by EPA Compendium Method TO-15

| <u>Analyte</u> | <u>Results</u> | | <u>Flag</u> | <u>MDL</u> |
|----------------|----------------|-------------------------|-------------|-------------|
| | <u>ppbv</u> | <u>ug/m³</u> | | <u>ppbv</u> |
| Ethylene oxide | 0.127 | 0.23 | | 0.0261 |



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FILE #: 4022.00

REPORTED: 10/04/21 14:02

SUBMITTED: 07/08/21 to 08/19/21

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb

Lab ID: 1072323-02

Sampled: 07/15/21 23:59

Pressure @ Receipt: 3.50" Hg

Canister #: 110314

Received: 07/23/21 11:24

Comments:

Analyzed: 07/26/21 23:25

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 | 0.309 | 0.56 | | 0.0261 |



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FILE #: 4022.00

REPORTED: 10/04/21 14:02

SUBMITTED: 07/08/21 to 08/19/21

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb-Atec

Lab ID: 1072323-03

Sampled: 07/09/21 23:59

Pressure @ Receipt: 9.00 psig

Canister #: 110308

Received: 07/23/21 11:24

Comments:

Analyzed: 07/27/21 00:25

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 | 0.0862 | 0.16 | | 0.0261 |



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FILE #: 4022.00
 REPORTED: 10/04/21 14:02
 SUBMITTED: 07/08/21 to 08/19/21
 AQS SITE CODE:
 SITE CODE: GA EtO

Description: South Dekalb-Atec **Lab ID:** 1072323-04 **Sampled:** 07/15/21 23:59
Pressure @ Receipt: 10.00 psig **Canister #:** 110252 **Received:** 07/23/21 11:24
Comments: **Analyzed:** 07/27/21 02:26

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 | 0.0942 | 0.17 | | 0.0261 |



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FILE #: 4022.00

REPORTED: 10/04/21 14:02

SUBMITTED: 07/08/21 to 08/19/21

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb-Atec QA

Lab ID: 1072323-05

Sampled: 07/09/21 23:59

Pressure @ Receipt: 9.75 psig

Canister #: 110335

Received: 07/23/21 11:24

Comments:

Analyzed: 07/27/21 03:26

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 | 0.0430 | 0.08 | | 0.0261 |



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FILE #: 4022.00

REPORTED: 10/04/21 14:02

SUBMITTED: 07/08/21 to 08/19/21

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb

Lab ID: 1072939-01

Sampled: 07/21/21 23:59

Pressure @ Receipt: 3.0" Hg

Canister #: 114366

Received: 07/29/21 11:02

Comments:

Analyzed: 08/13/21 07:24

Air Toxics by EPA Compendium Method TO-15

| <u>Analyte</u> | <u>Results</u> | | <u>Flag</u> | <u>MDL</u> |
|----------------|----------------|-------------------------|-------------|-------------|
| | <u>ppbv</u> | <u>ug/m³</u> | | <u>ppbv</u> |
| Ethylene oxide | 0.330 | 0.60 | | 0.0261 |



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FILE #: 4022.00

REPORTED: 10/04/21 14:02

SUBMITTED: 07/08/21 to 08/19/21

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb-Atec

Lab ID: 1072939-02

Sampled: 07/21/21 23:59

Pressure @ Receipt: 10.25 psig

Canister #: 19643

Received: 07/29/21 11:02

Comments:

Analyzed: 08/13/21 08:24

Air Toxics by EPA Compendium Method TO-15

| <u>Analyte</u> | <u>Results</u> | | <u>Flag</u> | <u>MDL</u> |
|----------------|----------------|-------------------------|-------------|-------------|
| | <u>ppbv</u> | <u>ug/m³</u> | | <u>ppbv</u> |
| Ethylene oxide | 0.0740 | 0.13 | | 0.0261 |



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FILE #: 4022.00

REPORTED: 10/04/21 14:02

SUBMITTED: 07/08/21 to 08/19/21

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb-Atec

Lab ID: 1080437-02

Sampled: 07/27/21 23:59

Pressure @ Receipt: 10.25 psig

Canister #: 35140

Received: 08/04/21 12:25

Comments:

Analyzed: 08/17/21 01:49

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 | 0.122 | 0.22 | | 0.0261 |



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FILE #: 4022.00

REPORTED: 10/04/21 14:02

SUBMITTED: 07/08/21 to 08/19/21

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb

Lab ID: 1080542-01

Sampled: 08/02/21 23:59

Pressure @ Receipt: 7.50" Hg

Canister #: A21073

Received: 08/05/21 12:17

Comments:

Analyzed: 08/17/21 02:49

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 | 0.253 | 0.46 | LK | 0.0261 |



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FILE #: 4022.00

REPORTED: 10/04/21 14:02

SUBMITTED: 07/08/21 to 08/19/21

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb QA

Lab ID: 1080605-01

Sampled: 08/02/21 23:59

Pressure @ Receipt: 6.0" Hg

Canister #: SAT068

Received: 08/06/21 11:11

Comments:

Analyzed: 08/20/21 02:56

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 | 0.445 | 0.80 | LK | 0.0261 |



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ATTN: Ms. Jaime Gore

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FILE #: 4022.00

REPORTED: 10/04/21 14:02

SUBMITTED: 07/08/21 to 08/19/21

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb-Atec

Lab ID: 1080605-02

Sampled: 08/02/21 23:59

Pressure @ Receipt: 10.25 psig

Canister #: 35158

Received: 08/06/21 11:11

Comments:

Analyzed: 08/20/21 04:57

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 | 0.184 | 0.33 | | 0.0261 |



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FILE #: 4022.00

REPORTED: 10/04/21 14:02

SUBMITTED: 07/08/21 to 08/19/21

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb

Lab ID: 1081128-01

Sampled: 08/08/21 23:59

Pressure @ Receipt: 7.00" Hg

Canister #: 19668

Received: 08/11/21 11:27

Comments:

Analyzed: 09/08/21 12:57

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 | 0.169 | 0.31 | I-02 | 0.0261 |



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FILE #: 4022.00

REPORTED: 10/04/21 14:02

SUBMITTED: 07/08/21 to 08/19/21

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb-Atec

Lab ID: 1081128-02

Sampled: 08/08/21 23:59

Pressure @ Receipt: 10.00 psig

Canister #: A21076

Received: 08/11/21 11:27

Comments:

Analyzed: 09/01/21 17:45

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 | 0.170 | 0.31 | D-F, LK | 0.0261 |



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FILE #: 4022.00

REPORTED: 10/04/21 14:02

SUBMITTED: 07/08/21 to 08/19/21

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb QA

Lab ID: 1081128-03

Sampled: 08/08/21 23:59

Pressure @ Receipt: 10.25 psig

Canister #: A21067

Received: 08/11/21 11:27

Comments:

Analyzed: 09/01/21 18:45

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 | 0.222 | 0.40 | D-F, LK | 0.0261 |



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 #: 4022.00

REPORTED: 10/04/21 14:02

SUBMITTED: 07/08/21 to 08/19/21

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb

Lab ID: 1081922-01

Sampled: 08/14/21 23:59

Pressure @ Receipt: 8.50" Hg

Canister #: SAT039

Received: 08/19/21 13:50

Comments:

Analyzed: 09/08/21 13:58

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 | 0.863 | 1.56 | LK | 0.0261 |



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FILE #: 4022.00

REPORTED: 10/04/21 14:02

SUBMITTED: 07/08/21 to 08/19/21

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb-Atec

Lab ID: 1081922-02

Sampled: 08/14/21 23:59

Pressure @ Receipt: 10.00 psig

Canister #: 114344

Received: 08/19/21 13:50

Comments:

Analyzed: 09/01/21 23:45

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 | 0.104 | 0.19 | | 0.0261 |



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FILE #: 4022.00
 REPORTED: 10/04/21 14:02
 SUBMITTED: 07/08/21 to 08/19/21
 AQS SITE CODE:
 SITE CODE: GA EtO

| Analyte | Result | Units | Source Result | RPD | RPD Limit | Notes |
|--|--------|-------|---|------|-----------|-------|
| Air Toxics by EPA Compendium Method TO-15 - Quality Control | | | | | | |
| <i>Batch B1G1308 - Summa Canister Prep</i> | | | | | | |
| Blank (B1G1308-BLK1) | | | Prepared: 07/13/21 Analyzed: 07/20/21 | | | |
| Ethylene oxide | ND | ppbv | | | | U |
| Duplicate (B1G1308-DUP1) | | | Source: 1070816-01 Prepared: 07/03/21 Analyzed: 07/20/21 | | | |
| Ethylene oxide | 0.148 | ppbv | 0.14 | 8.65 | 25 | |
| Duplicate (B1G1308-DUP2) | | | Source: 1070816-02 Prepared: 07/03/21 Analyzed: 07/20/21 | | | |
| Ethylene oxide | 0.285 | ppbv | 0.28 | 2.45 | 25 | |
| <i>Batch B1G2605 - Summa Canister Prep</i> | | | | | | |
| Blank (B1G2605-BLK1) | | | Prepared & Analyzed: 07/26/21 | | | |
| Ethylene oxide | ND | ppbv | | | | U |
| Duplicate (B1G2605-DUP4) | | | Source: 1072323-03 Prepared: 07/09/21 Analyzed: 07/27/21 | | | |
| Ethylene oxide | 0.0819 | ppbv | 0.09 | 5.12 | 25 | |
| Duplicate (B1G2605-DUP5) | | | Source: 1072323-05 Prepared: 07/09/21 Analyzed: 07/27/21 | | | |
| Ethylene oxide | 0.0556 | ppbv | 0.04 | 25.6 | 25 | |
| <i>Batch B1H1105 - Summa Canister Prep</i> | | | | | | |
| Blank (B1H1105-BLK1) | | | Prepared: 08/11/21 Analyzed: 08/12/21 | | | |
| Ethylene oxide | ND | ppbv | | | | U |
| <i>Batch B1H1609 - Summa Canister Prep</i> | | | | | | |
| Blank (B1H1609-BLK1) | | | Prepared & Analyzed: 08/16/21 | | | |
| Ethylene oxide | ND | ppbv | | | | U |
| <i>Batch B1H1907 - Summa Canister Prep</i> | | | | | | |
| Blank (B1H1907-BLK1) | | | Prepared & Analyzed: 08/19/21 | | | |
| Ethylene oxide | ND | ppbv | | | | U |
| Duplicate (B1H1907-DUP2) | | | Source: 1080605-01 Prepared: 07/27/21 Analyzed: 08/20/21 | | | |
| Ethylene oxide | 0.427 | ppbv | 0.45 | 4.06 | 25 | |
| <i>Batch B1I0109 - Summa Canister Prep</i> | | | | | | |
| Blank (B1I0109-BLK1) | | | Prepared: 08/16/21 Analyzed: 09/01/21 | | | |
| Ethylene oxide | ND | ppbv | | | | U |
| Duplicate (B1I0109-DUP1) | | | Source: 1081128-02 Prepared: 08/08/21 Analyzed: 09/01/21 | | | |
| Ethylene oxide | 0.177 | ppbv | 0.17 | 4.38 | 25 | |
| Duplicate (B1I0109-DUP2) | | | Source: 1081128-03 Prepared: 08/08/21 Analyzed: 09/01/21 | | | |
| Ethylene oxide | 0.224 | ppbv | 0.22 | 1.17 | 25 | |
| <i>Batch B1I0808 - Summa Canister Prep</i> | | | | | | |
| Blank (B1I0808-BLK1) | | | Prepared & Analyzed: 09/08/21 | | | |
| Ethylene oxide | ND | ppbv | | | | U |

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.



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 AQS SITE CODE:
 SITE CODE: GA EtO

| Analyte | Result | Units | % Difference | Limit (%) | Notes |
|---------|--------|-------|--------------|-----------|-------|
|---------|--------|-------|--------------|-----------|-------|

Air Toxics by EPA Compendium Method TO-15 - Quality Control

Sequence 2107033

Calibration Check (2107033-CCV1)

Prepared & Analyzed: 07/20/21

| | | | | |
|----------------|------|------|------|-------|
| Ethylene oxide | 2.36 | ppbv | -5.6 | 30.00 |
|----------------|------|------|------|-------|

Sequence 2107075

Calibration Check (2107075-CCV1)

Prepared & Analyzed: 07/26/21

| | | | | |
|----------------|------|------|------|-------|
| Ethylene oxide | 2.43 | ppbv | -2.8 | 30.00 |
|----------------|------|------|------|-------|

Sequence 2108032

Calibration Check (2108032-CCV1)

Prepared & Analyzed: 08/12/21

| | | | | |
|----------------|------|------|------|-------|
| Ethylene oxide | 2.86 | ppbv | 14.2 | 30.00 |
|----------------|------|------|------|-------|

Sequence 2108043

Calibration Check (2108043-CCV1)

Prepared & Analyzed: 08/16/21

| | | | | |
|----------------|------|------|-----|-------|
| Ethylene oxide | 2.65 | ppbv | 6.1 | 30.00 |
|----------------|------|------|-----|-------|

Sequence 2108059

Calibration Check (2108059-CCV1)

Prepared & Analyzed: 08/19/21

| | | | | |
|----------------|------|------|------|-------|
| Ethylene oxide | 2.40 | ppbv | -0.6 | 30.00 |
|----------------|------|------|------|-------|

Sequence 2109007

Calibration Check (2109007-CCV1)

Prepared & Analyzed: 09/01/21

| | | | | |
|----------------|------|------|------|-------|
| Ethylene oxide | 2.36 | ppbv | -5.6 | 30.00 |
|----------------|------|------|------|-------|

Sequence 2109018

Calibration Check (2109018-CCV1)

Prepared & Analyzed: 09/08/21

| | | | | |
|----------------|------|------|-------|-------|
| Ethylene oxide | 2.25 | ppbv | -10.3 | 30.00 |
|----------------|------|------|-------|-------|



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FILE #: 4022.00
REPORTED: 10/04/21 14:02
SUBMITTED: 07/08/21 to 08/19/21
AQS SITE CODE:
SITE CODE: GA EtO

Notes and Definitions

U Under Detection Limit
I-02 This result was analyzed outside of the EPA recommended holding time.
D-F Duplicate exceeds DQO criteria.
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.