MEMORANDUM

To: Karen Hays, Air Branch Chief
Through: James Boylan, Assistant Branch Chief
From: DeAnna Oser, Ambient Monitoring Program Manager

RE: South DeKalb January 22 – February 27, 2021 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were taken at our South DeKalb monitoring station in January and February 2021. Samples were also collected at a nearby ambient monitoring station 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 on the same type of sampler to compare the precision of the sampler. The Qualifier code of “ND” was given to samples to indicate that no value was detected and a concentration of zero was reported. The Qualifier code "U" was given by ERG to indicate that the sample is under the detection limit. The Qualifier code of “LK” was given by ERG to indicate that the sample may be biased high. 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. 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. below. The sample listed as “AA” indicates a sample pressure was out of limits. Please note that ERG is now providing values for levels below the detection limit.

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Qualifier</th>
<th>EtO Concentration (ug/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>South DeKalb passive</td>
<td>01/22/2021</td>
<td>2, ND, U</td>
<td>0.00</td>
</tr>
<tr>
<td>South DeKalb passive</td>
<td>01/28/2021</td>
<td>2, LK</td>
<td>0.76</td>
</tr>
<tr>
<td>South DeKalb passive</td>
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<td>AA</td>
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<tr>
<td>South DeKalb passive QA</td>
<td>02/03/2021</td>
<td>2</td>
<td>0.06</td>
</tr>
<tr>
<td>South DeKalb passive</td>
<td>02/09/2021</td>
<td>2, LK</td>
<td>0.39</td>
</tr>
<tr>
<td>South DeKalb passive</td>
<td>02/15/2021</td>
<td></td>
<td>0.19</td>
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<td>South DeKalb passive</td>
<td>02/21/2021</td>
<td></td>
<td>0.12</td>
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<td>South DeKalb passive</td>
<td>02/27/2021</td>
<td>2</td>
<td>0.13</td>
</tr>
<tr>
<td>NR – 285 passive</td>
<td>02/09/2021</td>
<td></td>
<td>0.08</td>
</tr>
<tr>
<td>NR – 285 passive</td>
<td>02/21/2021</td>
<td></td>
<td>0.24</td>
</tr>
</tbody>
</table>
Samples were also collected on a pressurized system at our South DeKalb and NR -285 monitoring stations 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. These samples were also sent to Eastern Research Group for analysis. The samples listed as AF were scheduled but not collected. Please see above for the other qualifier explanations.

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Qualifier</th>
<th>EtO Concentration (ug/m³)</th>
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</thead>
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<tr>
<td>South DeKalb pressurized</td>
<td>01/22/2021</td>
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</tr>
<tr>
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<td>01/28/2021</td>
<td>1, 2, 6</td>
<td>0.26</td>
</tr>
<tr>
<td>South DeKalb pressurized</td>
<td>02/03/2021</td>
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<td>AF</td>
</tr>
<tr>
<td>South DeKalb pressurized</td>
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<td>02/27/2021</td>
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<td>NR – 285 pressurized</td>
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<tr>
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</table>

If you have any questions, please let me know.

DG0/do
April 16, 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 01/29/21 10:39 through 03/05/21 12:55.

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

REPORTED: 04/16/21 14:41
FILE #: 4022.00
SUBMITTED: 01/29/21 to 03/05/21
AQS SITE CODE: GA EtO
SITE CODE: 4244 International Pkwy, Suite 120

ANALYTICAL REPORT FOR SAMPLES

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<th>LabNumber</th>
<th>Matrix</th>
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<td>1012902-01</td>
<td>Air</td>
<td>01/22/21 23:59</td>
<td>01/29/21 10:39</td>
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<tr>
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<td>1012902-02</td>
<td>Air</td>
<td>01/22/21 23:59</td>
<td>01/29/21 10:39</td>
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<tr>
<td>South Dekalb</td>
<td>1020518-01</td>
<td>Air</td>
<td>01/28/21 23:59</td>
<td>02/05/21 11:22</td>
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<td>South Dekalb-Atec</td>
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<td>Air</td>
<td>01/28/21 23:59</td>
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<td>South Dekalb</td>
<td>1021209-01</td>
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</tr>
</tbody>
</table>

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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: 04/16/21 14:41
SUBMITTED: 01/29/21 to 03/05/21
AQS SITE CODE:
FILE #: 4022.00
REPORTED: 04/16/21 14:41
SUBMITTED: 01/29/21 to 03/05/21
AQS SITE CODE:

Description: South Dekalb  Lab ID: 1012902-01  Sampled: 01/22/21 23:59
Pressure @ Receipt: 2" Hg  Canister #: SAT078  Received: 01/29/21 10:39
Comments:  Analyzed: 02/18/21 03:59

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<th>Analyte</th>
<th>Results</th>
<th>MDL</th>
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<tbody>
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<td>ppbv</td>
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<td>ND</td>
<td>ND</td>
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</table>

Air Toxics by EPA Compendium Method TO-15

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FILE #:  4022.00
REPORTED: 04/16/21 14:41
SUBMITTED: 01/29/21 to 03/05/21
AQS SITE CODE:
SITE CODE: GA Eto

<table>
<thead>
<tr>
<th>Description</th>
<th>Lab ID:</th>
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<th>Received:</th>
<th>Analyzed:</th>
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<tbody>
<tr>
<td>South Dekalb-Atec</td>
<td>1012902-02</td>
<td>01/22/21 23:59</td>
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<td>Pressure @ Receipt:</td>
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<tr>
<td>Comments:</td>
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Air Toxics by EPA Compendium Method TO-15

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Results</th>
<th>MDL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene oxide</td>
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<td>0.285</td>
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</table>

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FILE #: 4022.00
REPORTED: 04/16/21 14:41
SUBMITTED: 01/29/21 to 03/05/21
AQS SITE CODE:
SITE CODE: GA EtO

<table>
<thead>
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<th>Description</th>
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Air Toxics by EPA Compendium Method TO-15

<table>
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<tr>
<th>Analyte</th>
<th>Results ppbv</th>
<th>ug/m³</th>
<th>Flag</th>
<th>MDL ppbv</th>
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<tbody>
<tr>
<td>Ethylene oxide</td>
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<td>0.76</td>
<td>LK</td>
<td>0.0285</td>
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</table>

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FILE #: 4022.00
REPORTED: 04/16/21 14:41
SUBMITTED: 01/29/21 to 03/05/21

AQS SITE CODE:
SITE CODE: GA EtO

Description: South Dekalb-Atec
Pressure @ Receipt: 12.25 psi
Canister #: SAT025

Comments:
Lab ID: 1020518-02
Received: 02/05/21 11:22
Sampled: 01/28/21 23:59
Canister #: SAT025
Received: 02/05/21 11:22
Sampled: 01/28/21 23:59

<table>
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<th>Analyte</th>
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<tr>
<td></td>
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<tr>
<td>Ethylene oxide</td>
<td>0.143</td>
<td>0.26</td>
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</table>

Air Toxics by EPA Compendium Method TO-15

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Atlanta, GA 30354

**ATTN:** Ms. Jaime Gore

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

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**FILE #:**  4022.00
**REPORTED:** 04/16/21 14:41
**SUBMITTED:** 01/29/21 to 03/05/21

**FILE #:** 4022.00

**REPORTED:** 04/16/21 14:41

**ADDRESS:**
4244 International Pkwy, Suite 120
Atlanta, GA 30354

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

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**AQS SITE CODE:**

**FILE #:** 4022.00
**REPORTED:** 04/16/21 14:41
**SUBMITTED:** 01/29/21 to 03/05/21

**AQS SITE CODE:**

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**ATTN:** Ms. Jaime Gore
**PHONE:** (404) 362-4912  **FAX:** (919) 541-0516

---

**SITE CODE:**

**FILE #:** 4022.00
**REPORTED:** 04/16/21 14:41
**SUBMITTED:** 01/29/21 to 03/05/21

**SITE CODE:**

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**Description:** NR285
**Lab ID:** 1020518-03
**Sampled:** 01/28/21 23:59

**Pressure @ Receipt:** 12.25 psi
**Canister #:** 19288
**Received:** 02/05/21 11:22

**Comments:**
**Analyzed:** 02/24/21 05:10

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### Air Toxics by EPA Compendium Method TO-15

<table>
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<th>Analyte</th>
<th>Results</th>
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<tr>
<td></td>
<td>ppbv</td>
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<td>Ethylene oxide</td>
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<td>ND</td>
</tr>
</tbody>
</table>

---

Eastern Research Group

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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: 04/16/21 14:41
SUBMITTED: 01/29/21 to 03/05/21
AQS SITE CODE:
SITE CODE: GA EtO

Description: South Dekalb
Pressure @ Receipt: 0.00" Hg
Comments:

Lab ID: 1021209-01
Canister #: AQL0397

Sampled: 02/21/21 23:59
Received: 02/12/21 11:10
Analyzed: 02/26/21 08:51

Air Toxics by EPA Compendium Method TO-15

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Results ppbv</th>
<th>Results ug/m³</th>
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<th>MDL ppbv</th>
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<tr>
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<td>0.93</td>
<td>LK</td>
<td>0.0261</td>
</tr>
</tbody>
</table>

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Atlanta, GA 30354  
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**FILE #:** 4022.00  
**REPORTED:** 04/16/21 14:41  
**SUBMITTED:** 01/29/21 to 03/05/21  
**AQS SITE CODE:**  
**SITE CODE:** GA Eto  

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<table>
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<td>Ethylene oxide</td>
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<td>0.06</td>
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</table>

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FILE #: 4022.00
REPORTED: 04/16/21 14:41
SUBMITTED: 01/29/21 to 03/05/21

FILE #: 4022.00
REPORTED: 04/16/21 14:41
SUBMITTED: 01/29/21 to 03/05/21

AQS SITE CODE: GA EtO

Description: NR285
Pressure @ Receipt: 1.0"Hg
Comments: Entech

Lab ID: 1021909-01
Canister #: 114322

Sampled: 02/09/21 23:59
Received: 02/19/21 13:57
Analyzed: 03/02/21 00:01

Air Toxics by EPA Compendium Method TO-15

<table>
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<td>Flag</td>
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<tr>
<td>Ethylene oxide</td>
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<td>0.08</td>
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</table>

Eastern Research Group

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

FILE #:  4022.00
REPORTED: 04/16/21 14:41
SUBMITTED: 01/29/21 to 03/05/21
AQS SITE CODE:
SITE CODE: GA Eto

<table>
<thead>
<tr>
<th>Description</th>
<th>Lab ID:</th>
<th>Sampled:</th>
<th>Pressure @ Receipt</th>
<th>Canister #:</th>
<th>Received:</th>
<th>Analyzed:</th>
</tr>
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<tbody>
<tr>
<td>NR285</td>
<td>1021909-02</td>
<td>02/09/21 23:59</td>
<td>18.0 psi</td>
<td>SAT107</td>
<td>02/19/21 13:57</td>
<td>03/02/21 01:01</td>
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<td>Comments: Xontec</td>
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</table>

Air Toxics by EPA Compendium Method TO-15

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Results</th>
<th>MDL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ppbv</td>
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</tr>
<tr>
<td>Ethylene oxide</td>
<td>0.186</td>
<td>0.34</td>
</tr>
</tbody>
</table>

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CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 4
4244 International Pkwy, Suite 120
Atlanta, GA 30354

ATTN: Ms. Jaime Gore
PHONE: (404) 362-4912  FAX: (919) 541-0516

FILE #: 4022.00
REPORTED: 04/16/21 14:41
SUBMITTED: 01/29/21 to 03/05/21
AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb
Pressure @ Receipt: 5.50" Hg
Comments:

Lab ID: 1021909-03
Canister #: SAT112

Sampled: 02/09/21 23:59
Received: 02/19/21 13:57
Analyzed: 03/03/21 00:12

### Air Toxics by EPA Compendium Method TO-15

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Results ppbv</th>
<th>Results ug/m³</th>
<th>MDL ppbv</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene oxide</td>
<td>0.215</td>
<td>0.39</td>
<td>0.0261</td>
</tr>
</tbody>
</table>

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**CERTIFICATE OF ANALYSIS**

U.S. Environmental Protection Agency, Region 4  
4244 International Pkwy, Suite 120  
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**ATTN:** Ms. Jaime Gore  
**PHONE:** (404) 362-4912  
**FAX:** (919) 541-0516

**FILE #:** 4022.00  
**REPORTED:** 04/16/21 14:41  
**SUBMITTED:** 01/29/21 to 03/05/21  
**AQS SITE CODE:**

**SITE CODE:** GA EtO

<table>
<thead>
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<th>Description</th>
<th>Lab ID:</th>
<th>Sampled:</th>
<th>Received:</th>
<th>Analyzed:</th>
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<tbody>
<tr>
<td>South Dekalb</td>
<td>1022212-01</td>
<td>02/15/21 23:59</td>
<td>02/22/21 12:29</td>
<td>02/26/21 17:59</td>
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<tr>
<td>Pressure @ Receipt:</td>
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**Air Toxics by EPA Compendium Method TO-15**

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Results</th>
<th>MDL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ppbv</td>
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<tr>
<td>Ethylene oxide</td>
<td>0.107</td>
<td>0.19</td>
</tr>
</tbody>
</table>

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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: 04/16/21 14:41
SUBMITTED: 01/29/21 to 03/05/21
AQ S SITE CODE:

SITE CODE: GA ETo

Description: South Dekalb-Atec
Pressure @ Receipt: 13.00 psi
Comments:

Lab ID: 1022212-02
Canister #: 2767

Sampled: 02/15/21 23:59
Received: 02/22/21 12:29
Analyzed: 02/26/21 20:01

Air Toxics by EPA Compendium Method TO-15

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Results ppbv</th>
<th>Results ug/m³</th>
<th>Flag</th>
<th>MDL ppbv</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene oxide</td>
<td>0.0239</td>
<td>0.04</td>
<td>U</td>
<td>0.0261</td>
</tr>
</tbody>
</table>

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ATTN: Ms. Jaime Gore
 PHONE: (404) 362-4912  FAX: (919) 541-0516

FILE #: 4022.00
REPORTED: 04/16/21 14:41
SUBMITTED: 01/29/21 to 03/05/21
AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb
Pressure @ Receipt: 4.50" Hg
Comments:

Lab ID: 1030511-01
Canister #: 18828

Sampled: 02/21/21 23:59
Received: 03/05/21 12:55
Analyzed: 03/06/21 04:41

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Results</th>
<th>MDL</th>
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<tbody>
<tr>
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<td>ppbv</td>
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</tbody>
</table>

Air Toxics by EPA Compendium Method TO-15

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FILE #: 4022.00  REPORTED: 04/16/21 14:41
SUBMITTED: 01/29/21 to 03/05/21
AQS SITE CODE:
SITE CODE: GA EtO

Description: South Dekalb-Atec  Lab ID: 1030511-02  Sampled: 02/21/21 23:59
Pressure @ Receipt: 12.50 psig  Canister #: SAT092  Received: 03/05/21 12:55
Comments:  Analyzed: 03/06/21 05:42

<table>
<thead>
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<th>Analyte</th>
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<tbody>
<tr>
<td></td>
<td>ppbv</td>
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<td>Ethylene oxide</td>
<td>0.122</td>
<td>0.22</td>
</tr>
</tbody>
</table>

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Atlanta, GA 30354

ATTN: Ms. Jaime Gore
PHONE: (404) 362-4912  FAX: (919) 541-0516

FILE #: 4022.00
REPORTED: 04/16/21 14:41
SUBMITTED: 01/29/21 to 03/05/21
AQS SITE CODE:
SITE CODE: GA E10

Description: South Dekalb-Atec
Pressure @ Receipt: 12.50 psig
Comments:

Lab ID: 1030511-03
Canister #: 33540
Sampled: 02/27/21 23:59
Received: 03/05/21 12:55
Analyzed: 03/06/21 06:43

<table>
<thead>
<tr>
<th>Analyte</th>
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</thead>
<tbody>
<tr>
<td>Ethylene oxide</td>
<td>ppbv</td>
<td>ug/m³</td>
</tr>
<tr>
<td></td>
<td>Flag</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.0422</td>
<td>0.08</td>
</tr>
<tr>
<td></td>
<td>0.0261</td>
<td></td>
</tr>
</tbody>
</table>

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FILE #: 4022.00
REPORTED: 04/16/21 14:41
SUBMITTED: 01/29/21 to 03/05/21
AQS SITE CODE:

South Dekalb
Pressure @ Receipt: 0.8" Hg
Canister #: SAT002
Lab ID: 1030511-04

Sampled: 02/27/21 23:59
Received: 03/05/21 12:55
Analyzed: 03/06/21 07:44

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Results</th>
<th>MDL</th>
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<tbody>
<tr>
<td>Ethylene oxide</td>
<td>0.0727</td>
<td>0.13</td>
</tr>
</tbody>
</table>

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FILE #: 4022.00
REPORTED: 04/16/21 14:41
SUBMITTED: 01/29/21 to 03/05/21
AQS SITE CODE:
SITE CODE: GA EtO

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<tr>
<th>Description</th>
<th>Lab ID:</th>
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<tbody>
<tr>
<td>NR285</td>
<td>1030511-05</td>
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<td>03/05/21 12:55</td>
</tr>
<tr>
<td>Pressure @ Receipt:</td>
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<td>Canister #:</td>
<td>A21099</td>
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<tr>
<td>Comments:</td>
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<td>03/06/21 08:44</td>
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</table>

**Air Toxics by EPA Compendium Method TO-15**

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Results</th>
<th>MDL</th>
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</thead>
<tbody>
<tr>
<td>Ethylene oxide</td>
<td>0.131</td>
<td>0.0261</td>
</tr>
</tbody>
</table>

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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:** 04/16/21 14:41  
**SUBMITTED:** 01/29/21 to 03/05/21  
**AQS SITE CODE:**  

**FILE #:** 4022.00  
**REPORTED:** 04/16/21 14:41  
**SUBMITTED:** 01/29/21 to 03/05/21  
**AQS SITE CODE:**

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**Description:** NR285 Xontec  
**Lab ID:** 1030511-06  
**Sampled:** 02/21/21 23:59  
**Pressure @ Receipt:** 17.50 psig  
**Canister #:** A21044  
**Received:** 03/05/21 12:55  
**Comments:**  
**Analyzed:** 03/06/21 10:46

---

### Air Toxics by EPA Compendium Method TO-15

<table>
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<th>Results ppbV</th>
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<th>MDL ppbV</th>
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<tbody>
<tr>
<td>Ethylene oxide</td>
<td>0.0423</td>
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<td></td>
<td>0.0261</td>
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</tbody>
</table>

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

**Batch B1B2307 - Summa Canister Prep**

<table>
<thead>
<tr>
<th>Blank (B1B2307-BLK1)</th>
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<tbody>
<tr>
<td>Ethylene oxide</td>
<td>ND ppbv</td>
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<td></td>
<td>U</td>
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</table>

**Batch B1B2507 - Summa Canister Prep**

<table>
<thead>
<tr>
<th>Blank (B1B2507-BLK1)</th>
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</thead>
<tbody>
<tr>
<td>Ethylene oxide</td>
<td>ND ppbv</td>
</tr>
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<td></td>
<td>U</td>
</tr>
</tbody>
</table>

**Batch B1B2507-DUP5**

<table>
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<tr>
<th>Source: 1021209-01</th>
<th>Prepared: 02/03/21  Analyzed: 02/26/21</th>
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<tbody>
<tr>
<td>Ethylene oxide</td>
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<td>LK</td>
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**Batch B1B2507-DUP6**

<table>
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<tr>
<th>Source: 1021209-02</th>
<th>Prepared: 02/03/21  Analyzed: 02/26/21</th>
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</thead>
<tbody>
<tr>
<td>Ethylene oxide</td>
<td>0.0304 ppbv</td>
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<td>0.03</td>
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<tr>
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**Batch B1B2603 - Summa Canister Prep**

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<tbody>
<tr>
<td>Ethylene oxide</td>
<td>ND ppbv</td>
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<td>U</td>
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**Batch B1C0110 - Summa Canister Prep**

<table>
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</thead>
<tbody>
<tr>
<td>Ethylene oxide</td>
<td>ND ppbv</td>
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<td>U</td>
</tr>
</tbody>
</table>

**Batch B1C0205 - Summa Canister Prep**

<table>
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<th>Blank (B1C0205-BLK1)</th>
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<tbody>
<tr>
<td>Ethylene oxide</td>
<td>ND ppbv</td>
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</table>

**Batch B1C0506 - Summa Canister Prep**

<table>
<thead>
<tr>
<th>Blank (B1C0506-BLK1)</th>
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<tbody>
<tr>
<td>Ethylene oxide</td>
<td>ND ppbv</td>
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</table>

**Batch B1C0506-DUP3**

<table>
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<tr>
<th>Source: 1030511-05</th>
<th>Prepared: 02/21/21  Analyzed: 03/06/21</th>
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</thead>
<tbody>
<tr>
<td>Ethylene oxide</td>
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<tr>
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<td>0.13</td>
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**Batch B1C0506-DUP4**

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<tbody>
<tr>
<td>Ethylene oxide</td>
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<tr>
<td></td>
<td>0.04</td>
</tr>
<tr>
<td></td>
<td>2.34 Limit 25</td>
</tr>
</tbody>
</table>
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: 04/16/21 14:41
SUBMITTED: 01/29/21 to 03/05/21

AQS SITE CODE: GA EtO

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result</th>
<th>Units</th>
<th>% Difference</th>
<th>Limit (%)</th>
<th>Notes</th>
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<tr>
<td>Ethylene oxide</td>
<td>2.91</td>
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<td>30.00</td>
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<tr>
<td>Ethylene oxide</td>
<td>3.06</td>
<td>ppbv</td>
<td>26.7</td>
<td>30.00</td>
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</tr>
<tr>
<td>Ethylene oxide</td>
<td>2.34</td>
<td>ppbv</td>
<td>-6.5</td>
<td>30.00</td>
<td>Prepared &amp; Analyzed: 02/25/21</td>
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<td>30.00</td>
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<td>Ethylene oxide</td>
<td>2.68</td>
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<td>7.1</td>
<td>30.00</td>
<td>Prepared &amp; Analyzed: 03/05/21</td>
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</table>

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

Sequence 2102036
Calibration Check (2102036-CCV1) Prepared & Analyzed: 02/17/21

Sequence 2102046
Calibration Check (2102046-CCV1) Prepared & Analyzed: 02/23/21

Sequence 2102052
Calibration Check (2102052-CCV1) Prepared & Analyzed: 02/25/21

Sequence 2102057
Calibration Check (2102057-CCV1) Prepared & Analyzed: 02/26/21

Sequence 2103006
Calibration Check (2103006-CCV1) Prepared & Analyzed: 03/01/21

Sequence 2103009
Calibration Check (2103009-CCV1) Prepared & Analyzed: 03/02/21

Sequence 2103026
Calibration Check (2103026-CCV1) Prepared & Analyzed: 03/05/21

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South DeKalb, 0.26 µg/m³

Note:
1. ND = Non-Detect
2. X = Not Analyzed
3. AP = Sampler stolen from site

Ethylene Oxide Sampling
DeKalb County, GA

01/28/2021 pressurized
Sampled By: Georgia Environmental Protection Division
Analyzed By: Eastern Research Group
Note:
1. ND = Non-Detect
2. X = Not Analyzed
3. AP = Sampler stolen from site

Ethylene Oxide Sampling
DeKalb County, GA

02/09/2021 pressurized
Sampled By: Georgia Environmental Protection Division
Analyzed By: Eastern Research Group
Ethylene Oxide Sampling
DeKalb County, GA

02/09/2021  passive
Sampled By: Georgia Environmental Protection Division
Analyzed By: Eastern Research Group

Note:
1. ND = Non-Detect
2. X = Not Analyzed
3. AP = Sampler stolen from site
Ethylene Oxide Sampling
DeKalb County, GA
02/21/2021 passive
Sampled By: Georgia Environmental Protection Division
Analyzed By: Eastern Research Group

Note:
1. ND = Non-Detect
2. X = Not Analyzed
3. AP = Sampler stolen from site

Site ID, Concentration (µg/m³)