

**EPD Director's Office**

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

August 16, 2021

**MEMORANDUM**

To: Karen Hays, Air Branch Chief *KH*

Through: James Boylan, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: Fulton March 05, 2021 – April 04, 2021 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were collected during the period of March 05, 2021 – April 04, 2021 in the south Fulton area to characterize the EtO concentrations. The samples were sent to Eastern Research Group (ERG) for analysis. Qualifier code "LK" was given by ERG to indicate that the reported value for identified analyte may be biased high. The sample labeled as AF indicates that sample was scheduled but not collected. The Qualifier code of "2" is applied to samples to indicate that the collection deviated from established procedures, but the integrity of the sample was not compromised. Please note that ERG is now providing values for levels below the detection limit.

Location	Date	Qualifier	EtO Concentration (ug/m <sup>3</sup> )
F1	03/05/2021		AF
F1	03/11/2021		0.13
F1	03/17/2021		0.17
F1	03/23/2021	LK	0.43
F1	03/29/2021		0.14
F1	04/04/2021		0.22
F2	03/05/2021		AF
F2	03/11/2021	2	0.36
F2	03/17/2021	2	0.10
F2	03/23/2021	2	0.11
F2	03/29/2021	2	0.18
F2	04/04/2021	2	0.52
F2 QA	03/23/2021		0.16
F4	03/05/2021		AF
F4	03/11/2021	LK	0.33
F4	03/17/2021		0.29
F4	03/23/2021		0.13
F4	03/29/2021		0.09
F4	04/04/2021		0.15

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: Fulton

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 12:40 through 04/22/21 12:53.

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](mailto:julie.swift@erg.com)

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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 #:** 4222.00  
**REPORTED:** 05/11/21 12:43  
**SUBMITTED:** 03/16/21 to 04/22/21  
**AQS SITE CODE:**  
**SITE CODE:** Fulton

### ANALYTICAL REPORT FOR SAMPLES

<u>SampleName</u>	<u>LabNumber</u>	<u>Matrix</u>	<u>Sampled</u>	<u>Received</u>
F1	1031636-01	Air	03/11/21 23:59	03/16/21 12:40
F2	1031636-02	Air	03/11/21 23:59	03/16/21 12:40
F4	1031636-03	Air	03/11/21 23:59	03/16/21 12:40
F1	1032433-01	Air	03/17/21 23:59	03/24/21 12:24
F2	1032433-02	Air	03/17/21 23:59	03/24/21 12:24
F4	1032433-03	Air	03/17/21 23:59	03/24/21 12:24
F2-QA	1040731-01	Air	03/23/21 23:59	04/07/21 13:36
F1	1040823-01	Air	03/23/21 23:59	04/08/21 12:16
F2	1040823-02	Air	03/23/21 23:59	04/08/21 12:16
F4	1040823-03	Air	03/23/21 23:59	04/08/21 12:16
F2	1041342-01	Air	03/29/21 23:59	04/13/21 14:00
F1	1041410-01	Air	03/29/21 23:59	04/14/21 11:05
F4	1041410-02	Air	03/29/21 23:59	04/14/21 11:05
F4	1042123-01	Air	04/04/21 23:59	04/21/21 11:47
F1	1042216-01	Air	04/04/21 23:59	04/22/21 12:53
F2	1042216-02	Air	04/04/21 23:59	04/22/21 12:53



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FILE #: 4222.00

REPORTED: 05/11/21 12:43

SUBMITTED: 03/16/21 to 04/22/21

AQS SITE CODE:

SITE CODE: Fulton

Description: F1

Lab ID: 1031636-01

Sampled: 03/11/21 23:59

Pressure @ Receipt: 7.50" Hg

Canister #: 19654

Received: 03/16/21 12:40

Comments:

Analyzed: 03/22/21 18:12

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.0713	0.13		0.0261



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FILE #: 4222.00

REPORTED: 05/11/21 12:43

SUBMITTED: 03/16/21 to 04/22/21

AQS SITE CODE:

SITE CODE: Fulton

Description: F2

Lab ID: 1031636-02

Sampled: 03/11/21 23:59

Pressure @ Receipt: 7.50 "Hg

Canister #: 18825

Received: 03/16/21 12:40

Comments:

Analyzed: 03/22/21 19:13

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.199	0.36		0.0261



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FILE #: 4222.00

REPORTED: 05/11/21 12:43

SUBMITTED: 03/16/21 to 04/22/21

AQS SITE CODE:

SITE CODE: Fulton

Description: F4

Lab ID: 1031636-03

Sampled: 03/11/21 23:59

Pressure @ Receipt: 7.00 "Hg

Canister #: SAT058

Received: 03/16/21 12:40

Comments:

Analyzed: 03/22/21 20:14

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.184	0.33	LK	0.0261



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FILE #: 4222.00

REPORTED: 05/11/21 12:43

SUBMITTED: 03/16/21 to 04/22/21

AQS SITE CODE:

SITE CODE: Fulton

Description: F1

Lab ID: 1032433-01

Sampled: 03/17/21 23:59

Pressure @ Receipt: 4.00" Hg

Canister #: 110308

Received: 03/24/21 12:24

Comments:

Analyzed: 04/06/21 15:02

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.0958	0.17		0.0261





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FILE #: 4222.00

REPORTED: 05/11/21 12:43

SUBMITTED: 03/16/21 to 04/22/21

AQS SITE CODE:

SITE CODE: Fulton

Description: F2

Lab ID: 1032433-02

Sampled: 03/17/21 23:59

Pressure @ Receipt: 7.00" Hg

Canister #: 110335

Received: 03/24/21 12:24

Comments:

Analyzed: 04/06/21 16:03

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.0529	0.10		0.0261



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FILE #: 4222.00

REPORTED: 05/11/21 12:43

SUBMITTED: 03/16/21 to 04/22/21

AQS SITE CODE:

SITE CODE: Fulton

Description: F4

Lab ID: 1032433-03

Sampled: 03/17/21 23:59

Pressure @ Receipt: 4.50" Hg

Canister #: SAT087

Received: 03/24/21 12:24

Comments:

Analyzed: 04/06/21 17:03

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.161	0.29		0.0261



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FILE #: 4222.00

REPORTED: 05/11/21 12:43

SUBMITTED: 03/16/21 to 04/22/21

AQS SITE CODE:

SITE CODE: Fulton

Description: F2-QA

Lab ID: 1040731-01

Sampled: 03/23/21 23:59

Pressure @ Receipt: 5.50" Hg

Canister #: 110342

Received: 04/07/21 13:36

Comments:

Analyzed: 04/13/21 05:40

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.0897	0.16		0.0261



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FILE #: 4222.00

REPORTED: 05/11/21 12:43

SUBMITTED: 03/16/21 to 04/22/21

AQS SITE CODE:

SITE CODE: Fulton

Description: F1

Lab ID: 1040823-01

Sampled: 03/23/21 23:59

Pressure @ Receipt: 4.50" Hg

Canister #: A21076

Received: 04/08/21 12:16

Comments:

Analyzed: 04/13/21 02:37

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.236	0.43	LK	0.0261



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FILE #: 4222.00

REPORTED: 05/11/21 12:43

SUBMITTED: 03/16/21 to 04/22/21

AQS SITE CODE:

SITE CODE: Fulton

Description: F2

Lab ID: 1040823-02

Sampled: 03/23/21 23:59

Pressure @ Receipt: 7.50" Hg

Canister #: 110306

Received: 04/08/21 12:16

Comments:

Analyzed: 04/13/21 03:38

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.0600	0.11		0.0261



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FILE #: 4222.00

REPORTED: 05/11/21 12:43

SUBMITTED: 03/16/21 to 04/22/21

AQS SITE CODE:

SITE CODE: Fulton

Description: F4

Lab ID: 1040823-03

Sampled: 03/23/21 23:59

Pressure @ Receipt: 5.50" Hg

Canister #: 18824

Received: 04/08/21 12:16

Comments:

Analyzed: 04/15/21 01:06

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.0720	0.13		0.0261



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FILE #: 4222.00

REPORTED: 05/11/21 12:43

SUBMITTED: 03/16/21 to 04/22/21

AQS SITE CODE:

SITE CODE: Fulton

Description: F2

Lab ID: 1041342-01

Sampled: 03/29/21 23:59

Pressure @ Receipt: 7.50" Hg

Canister #: 114340

Received: 04/13/21 14:00

Comments:

Analyzed: 04/16/21 01:31

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.0984	0.18		0.0261



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FILE #: 4222.00

REPORTED: 05/11/21 12:43

SUBMITTED: 03/16/21 to 04/22/21

AQS SITE CODE:

SITE CODE: Fulton

Description: F1

Lab ID: 1041410-01

Sampled: 03/29/21 23:59

Pressure @ Receipt: 4.50" Hg

Canister #: A21021

Received: 04/14/21 11:05

Comments:

Analyzed: 04/16/21 05:34

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.0796	0.14		0.0261





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FILE #: 4222.00

REPORTED: 05/11/21 12:43

SUBMITTED: 03/16/21 to 04/22/21

AQS SITE CODE:

SITE CODE: Fulton

Description: F4

Lab ID: 1041410-02

Sampled: 03/29/21 23:59

Pressure @ Receipt: 5.00" Hg

Canister #: 18879

Received: 04/14/21 11:05

Comments:

Analyzed: 04/16/21 06:35

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.0518	0.09		0.0261



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FILE #: 4222.00

REPORTED: 05/11/21 12:43

SUBMITTED: 03/16/21 to 04/22/21

AQS SITE CODE:

SITE CODE: Fulton

Description: F4

Lab ID: 1042123-01

Sampled: 04/04/21 23:59

Pressure @ Receipt: 4.50" Hg

Canister #: 18884

Received: 04/21/21 11:47

Comments:

Analyzed: 04/27/21 18:47

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.0816	0.15		0.0261



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FILE #: 4222.00

REPORTED: 05/11/21 12:43

SUBMITTED: 03/16/21 to 04/22/21

AQS SITE CODE:

SITE CODE: Fulton

Description: F1

Lab ID: 1042216-01

Sampled: 04/04/21 23:59

Pressure @ Receipt: 2.00" Hg

Canister #: 33535

Received: 04/22/21 12:53

Comments:

Analyzed: 04/27/21 23:51

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.123	0.22		0.0261



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FILE #: 4222.00

REPORTED: 05/11/21 12:43

SUBMITTED: 03/16/21 to 04/22/21

AQS SITE CODE:

SITE CODE: Fulton

Description: F2

Lab ID: 1042216-02

Sampled: 04/04/21 23:59

Pressure @ Receipt: 7.00" Hg

Canister #: SAT180

Received: 04/22/21 12:53

Comments:

Analyzed: 04/28/21 00:52

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	0.287	0.52		0.0261



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**FILE #:** 4222.00  
**REPORTED:** 05/11/21 12:43  
**SUBMITTED:** 03/16/21 to 04/22/21  
**AQS SITE CODE:**  
**SITE CODE:** Fulton

Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes
<b>Air Toxics by EPA Compendium Method TO-15 - Quality Control</b>						
<i>Batch B1C2207 - Summa Canister Prep</i>						
<b>Blank (B1C2207-BLK1)</b>			Prepared & Analyzed: 03/22/21			
Ethylene oxide	ND	ppbv				U
<i>Batch B1D0606 - Summa Canister Prep</i>						
<b>Blank (B1D0606-BLK1)</b>			Prepared & Analyzed: 04/06/21			
Ethylene oxide	ND	ppbv				U
<i>Batch B1D1205 - Summa Canister Prep</i>						
<b>Blank (B1D1205-BLK1)</b>			Prepared & Analyzed: 04/12/21			
Ethylene oxide	ND	ppbv				U
<b>Duplicate (B1D1205-DUP3)</b>	<b>Source: 1040823-02</b>		Prepared: 03/23/21 Analyzed: 04/13/21			
Ethylene oxide	0.0624	ppbv	0.06	3.92	25	
<b>Duplicate (B1D1205-DUP4)</b>	<b>Source: 1040731-01</b>		Prepared: 03/23/21 Analyzed: 04/13/21			
Ethylene oxide	0.0928	ppbv	0.09	3.40	25	
<i>Batch B1D1403 - Summa Canister Prep</i>						
<b>Blank (B1D1403-BLK1)</b>			Prepared & Analyzed: 04/14/21			
Ethylene oxide	ND	ppbv				U
<i>Batch B1D1505 - Summa Canister Prep</i>						
<b>Blank (B1D1505-BLK1)</b>			Prepared & Analyzed: 04/15/21			
Ethylene oxide	ND	ppbv				U
<i>Batch B1D2707 - Summa Canister Prep</i>						
<b>Blank (B1D2707-BLK1)</b>			Prepared & Analyzed: 04/27/21			
Ethylene oxide	ND	ppbv				U



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**FILE #:** 4222.00  
**REPORTED:** 05/11/21 12:43  
**SUBMITTED:** 03/16/21 to 04/22/21  
**AQS SITE CODE:**  
**SITE CODE:** Fulton

Analyte	Result	Units	% Difference	Limit (%)	Notes
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### Air Toxics by EPA Compendium Method TO-15 - Quality Control

#### Sequence 2103062

##### Calibration Check (2103062-CCV1)

Prepared & Analyzed: 03/22/21

Ethylene oxide	2.22	ppbv	-11.4	30.00
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#### Sequence 2104016

##### Calibration Check (2104016-CCV1)

Prepared & Analyzed: 04/06/21

Ethylene oxide	2.79	ppbv	11.8	30.00
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#### Sequence 2104023

##### Calibration Check (2104023-CCV1)

Prepared & Analyzed: 04/12/21

Ethylene oxide	2.33	ppbv	-3.6	30.00
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#### Sequence 2104029

##### Calibration Check (2104029-CCV1)

Prepared & Analyzed: 04/14/21

Ethylene oxide	2.56	ppbv	5.9	30.00
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#### Sequence 2104031

##### Calibration Check (2104031-CCV1)

Prepared & Analyzed: 04/15/21

Ethylene oxide	2.70	ppbv	11.6	30.00
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#### Sequence 2104053

##### Calibration Check (2104053-CCV1)

Prepared & Analyzed: 04/27/21

Ethylene oxide	3.00	ppbv	24.3	30.00
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## CERTIFICATE OF ANALYSIS

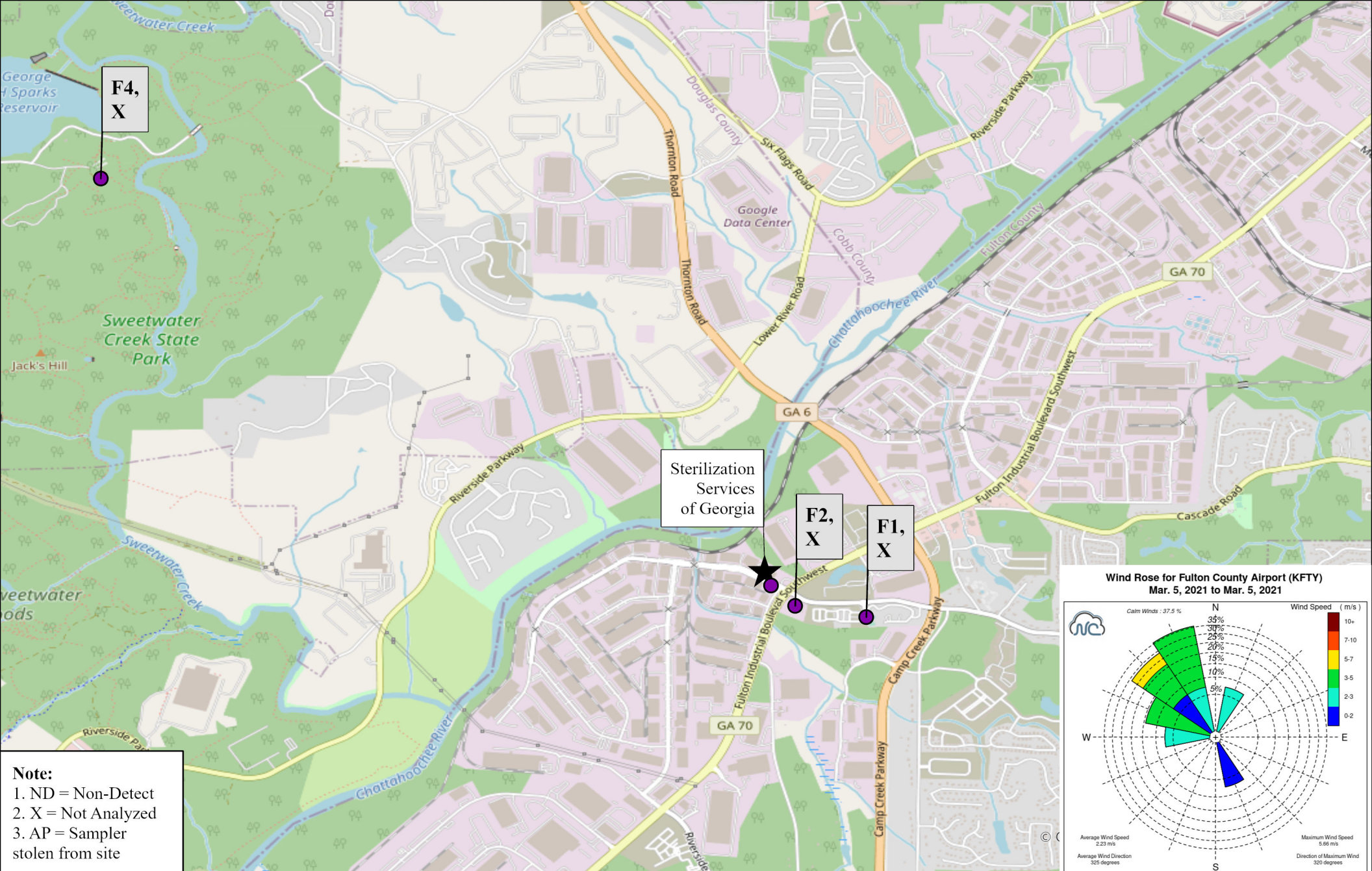
U.S. Environmental Protection Agency, Region 4  
4244 International Pkwy, Suite 120  
Atlanta, GA 30354  
**ATTN:** Ms. Jaime Gore  
**PHONE:** (404) 362-4912 **FAX:** (919) 541-0516

**FILE #:** 4222.00  
**REPORTED:** 05/11/21 12:43  
**SUBMITTED:** 03/16/21 to 04/22/21  
**AQS SITE CODE:**  
**SITE CODE:** Fulton

### 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.



0 0.3 0.61  
Miles



Site ID, Concentration ( $\mu\text{g}/\text{m}^3$ )

Ethylene Oxide Sampling  
Fulton County, GA

03/05/2021

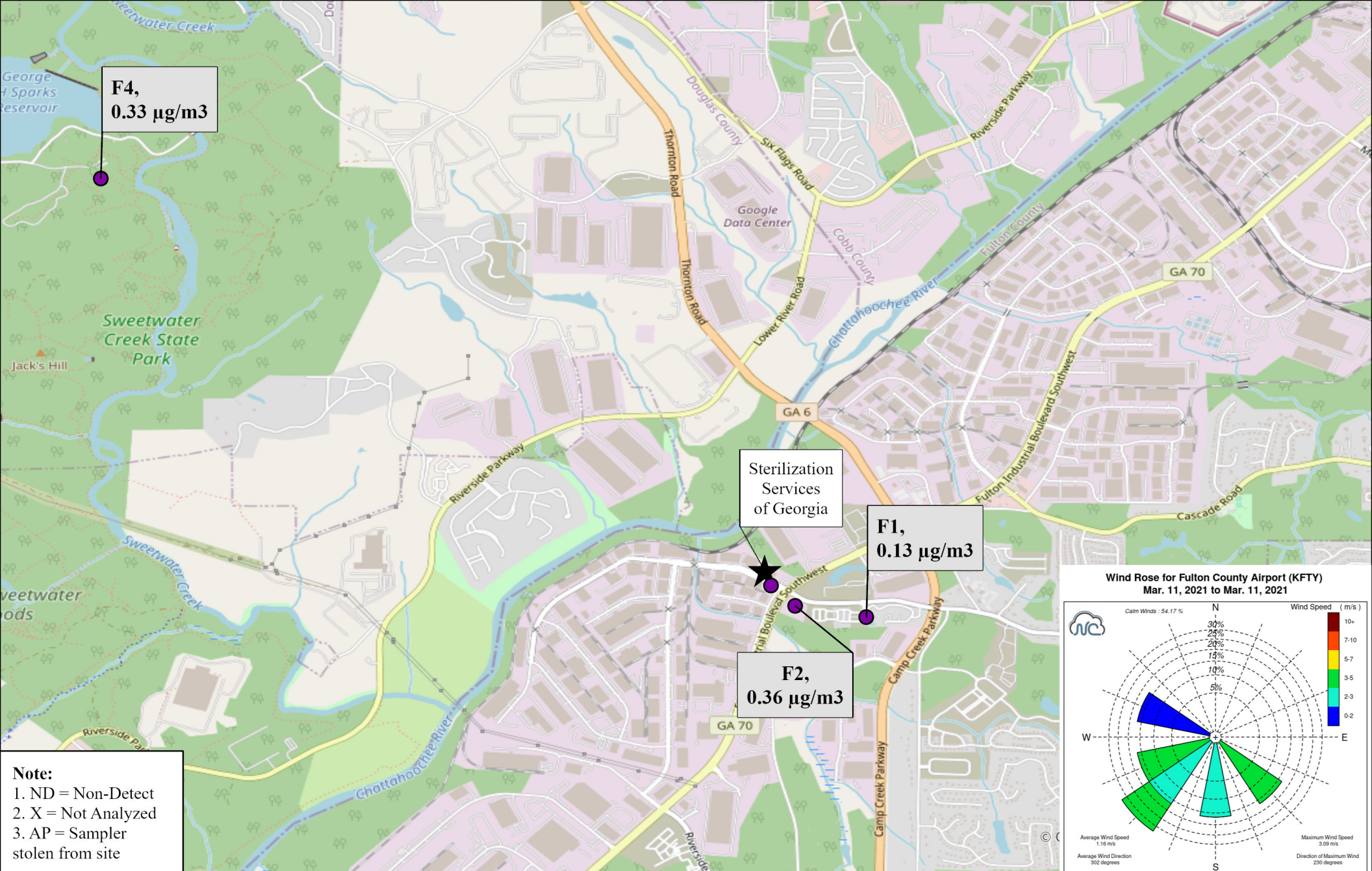
Sampled By: Georgia Environmental Protection Division  
Analyzed By: Eastern Research Group



**GEORGIA**  
DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL PROTECTION DIVISION





0 0.3 0.61  
 Miles



**Site ID, Concentration ( $\mu\text{g}/\text{m}^3$ )**

Ethylene Oxide Sampling  
 Fulton County, GA

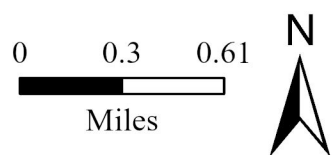
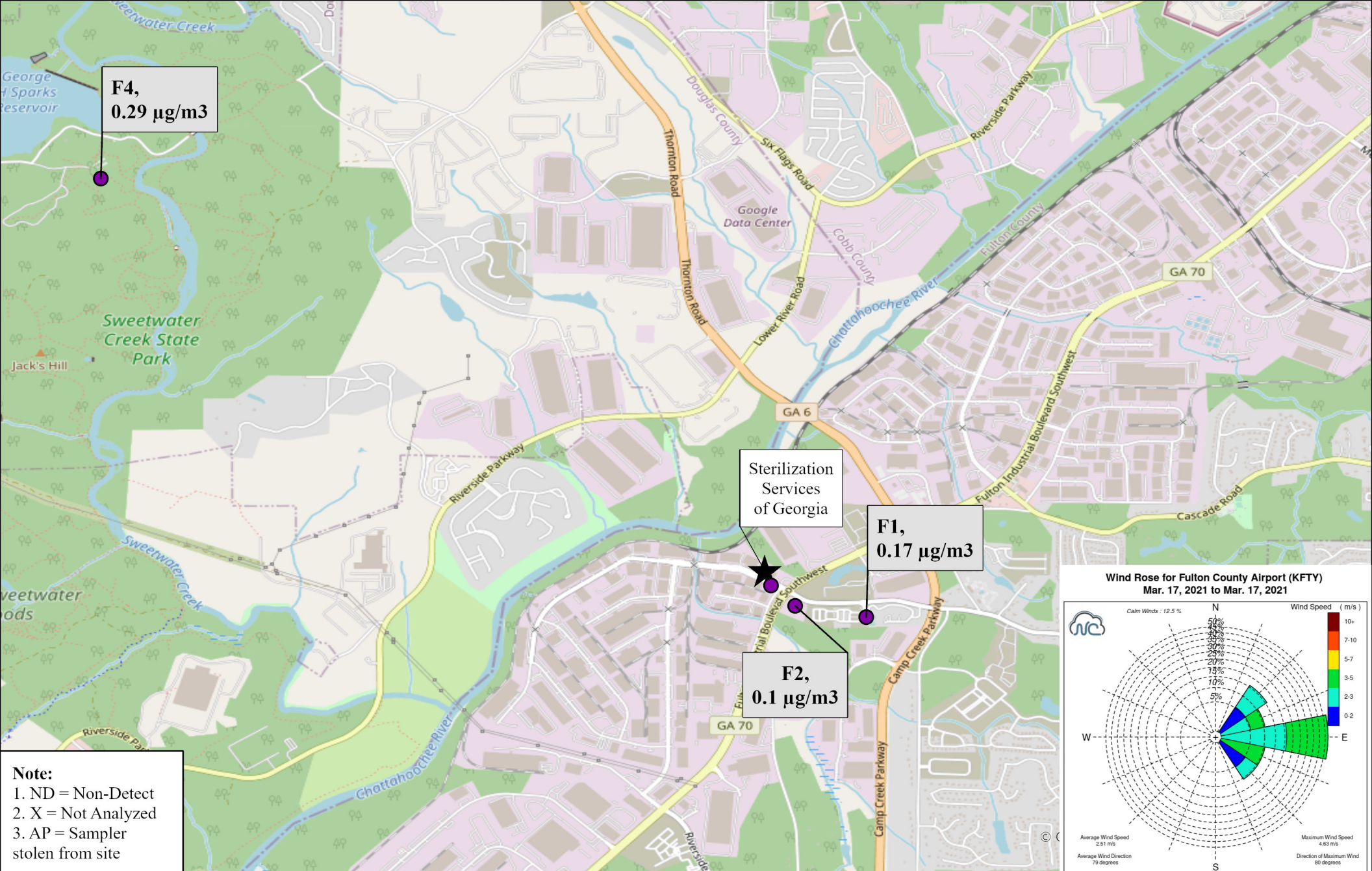
03/11/2021  
 Sampled By: Georgia Environmental Protection Division  
 Analyzed By: Eastern Research Group



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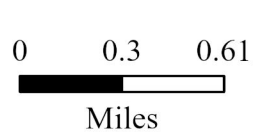
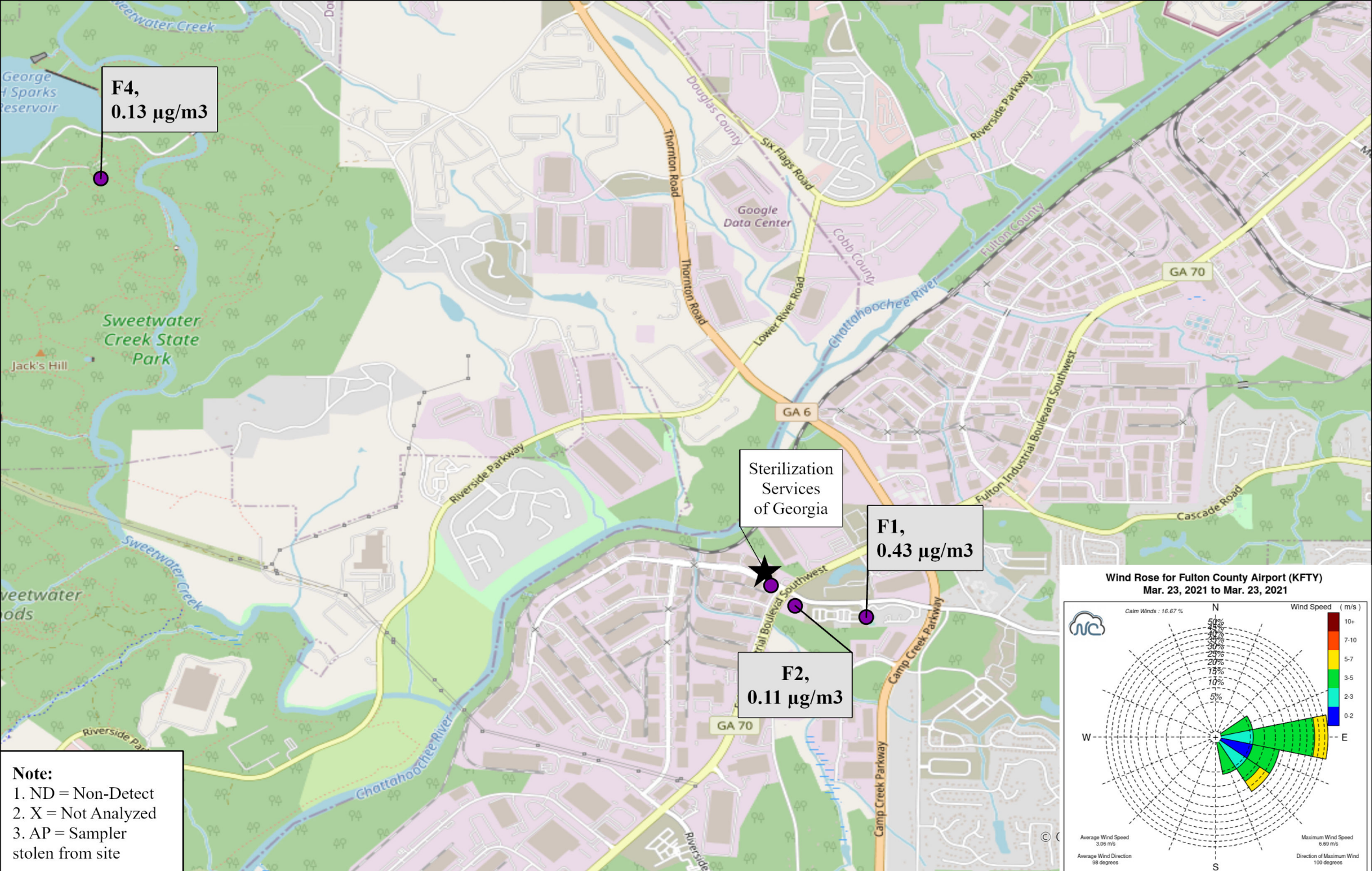


Site ID, Concentration ( $\mu\text{g}/\text{m}^3$ )

Ethylene Oxide Sampling  
 Fulton County, GA

03/17/2021  
 Sampled By: Georgia Environmental Protection Division  
 Analyzed By: Eastern Research Group





**Site ID, Concentration ( $\mu\text{g}/\text{m}^3$ )**

Ethylene Oxide Sampling  
 Fulton County, GA

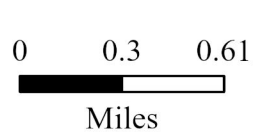
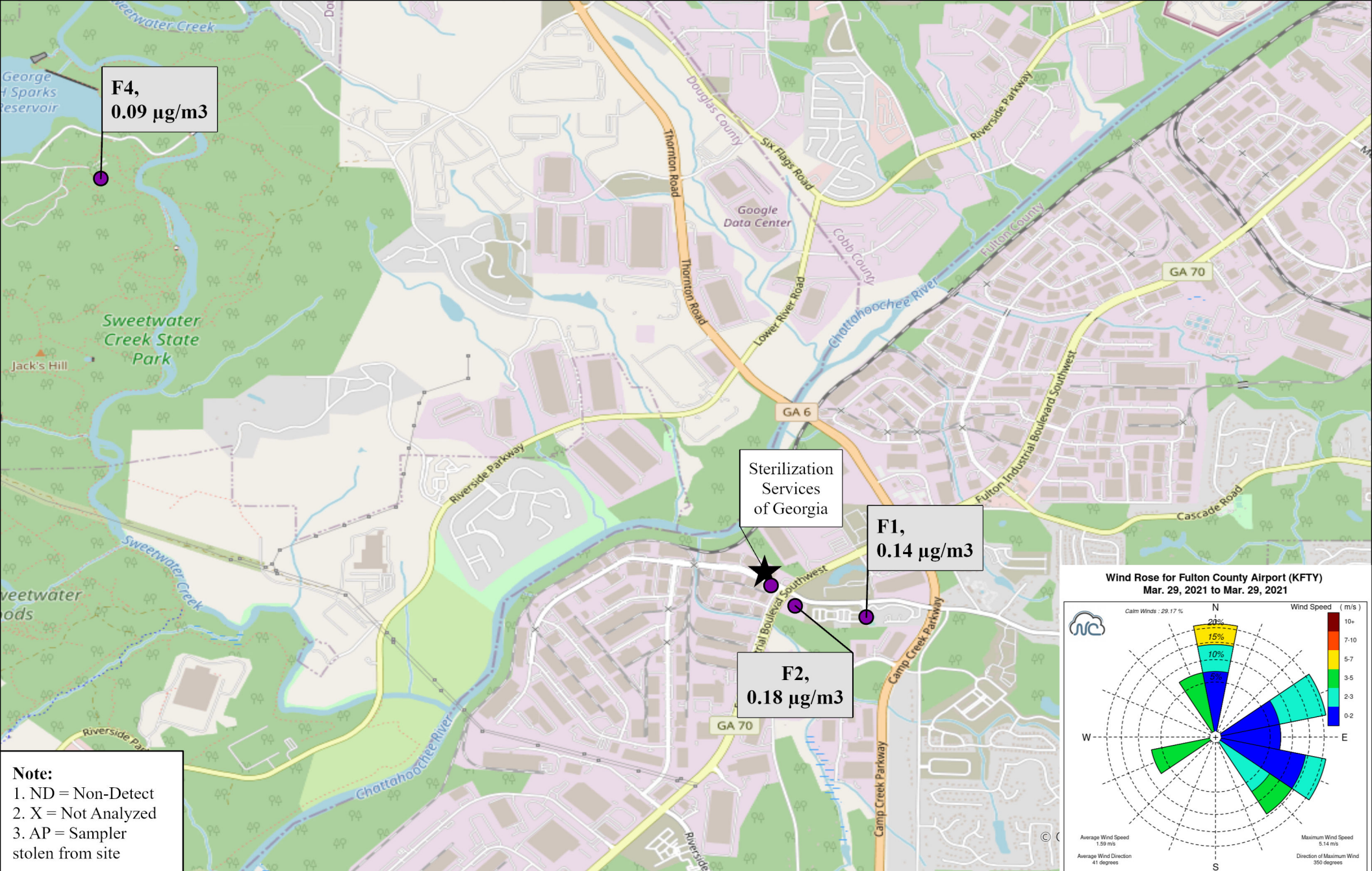
03/23/2021  
 Sampled By: Georgia Environmental Protection Division  
 Analyzed By: Eastern Research Group



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Site ID, Concentration ( $\mu\text{g}/\text{m}^3$ )

Ethylene Oxide Sampling  
 Fulton County, GA

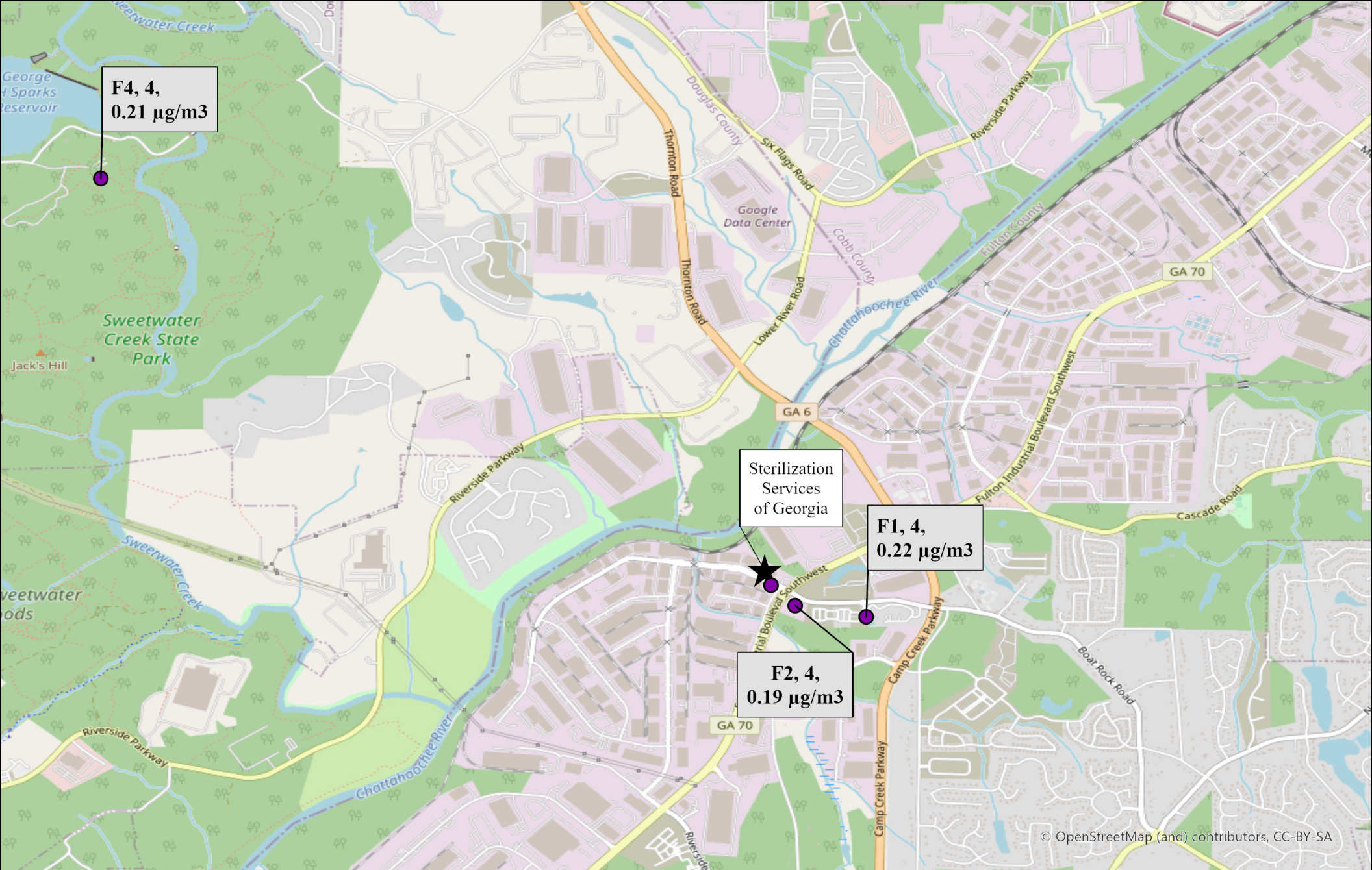
03/29/2021  
 Sampled By: Georgia Environmental Protection Division  
 Analyzed By: Eastern Research Group



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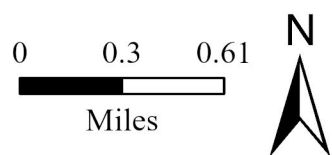
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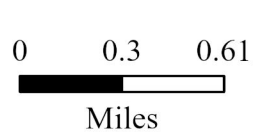
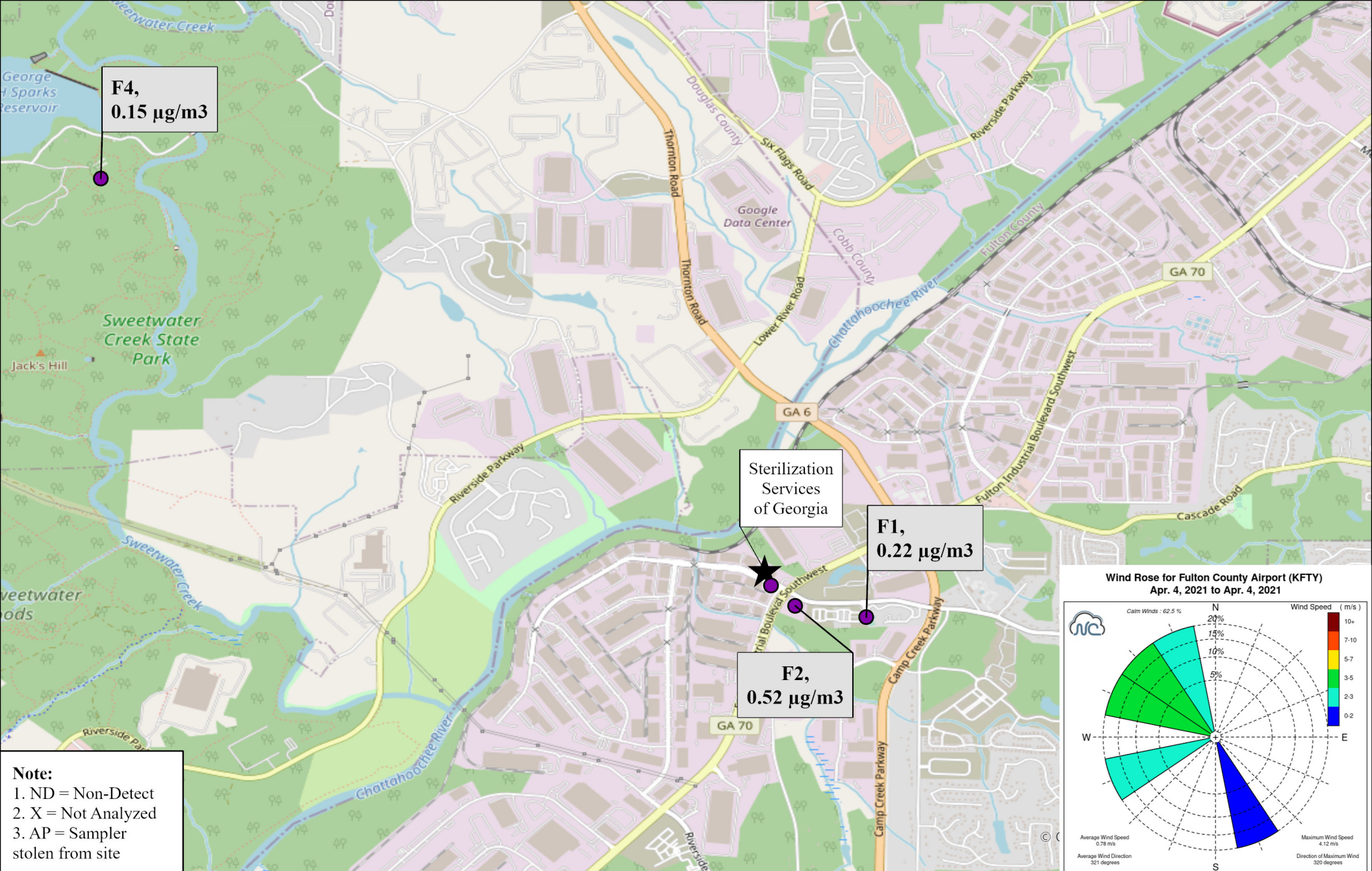
### Ethylene Oxide Sampling Fulton County, GA



**Site ID, Number of Samples,  
Concentration ( $\mu\text{g}/\text{m}^3$ )**

March 2021 Site Average Values  
Note: Not detectable values were included in average calculations as a value of 0.  
Sampled By: Georgia Environmental Protection Division  
Analyzed By: Eastern Research Group





Site ID, Concentration ( $\mu\text{g}/\text{m}^3$ )

Ethylene Oxide Sampling  
 Fulton County, GA

04/04/2021  
 Sampled By: Georgia Environmental Protection Division  
 Analyzed By: Eastern Research Group



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