



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

July 11, 2019

Mr. Benjamin Chandler  
GHD Services Inc.  
11719 Hinson Road, Suite 100  
Little Rock, AR 72223  
Project Name: Village of Gurnee

Dear Mr. Benjamin Chandler,

This report contains the analytical results for the sample(s) received under chain(s) of custody by Eastern Research Group on 06/18/19 16:01 through 06/26/19 11:29.

The test results in this report are in compliance with NELAC accreditation requirements for the certified parameters. 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

GHD Services Inc.  
11719 Hinson Road, Suite 100  
Little Rock, AR 72223

ATTN: Mr. Benjamin Chandler

PHONE: (501) 224-1926 FAX:

FILE #: 4210.00

REPORTED: 07/11/19 15:10

SUBMITTED: 06/18/19 to 06/26/19

AQS SITE CODE:

SITE CODE: Village of Gurnee

## ANALYTICAL REPORT FOR SAMPLES

<u>SampleName</u>	<u>LabNumber</u>	<u>Matrix</u>	<u>Sampled</u>	<u>Received</u>
Air-11197130-KS-01	9061827-01	Air	06/14/19 23:00	06/18/19 16:01
Air-11197130-KS-02	9061827-02	Air	06/14/19 23:00	06/18/19 16:01
Air-11197130-KS-03	9061827-03	Air	06/14/19 23:00	06/18/19 16:01
Air-11197130-KS-04	9061827-04	Air	06/14/19 23:00	06/18/19 16:01
Air-11197130-KS-05	9061827-05	Air	06/15/19 23:00	06/18/19 16:01
Air-11197130-KS-07	9061827-07	Air	06/15/19 23:00	06/18/19 16:01
Air-11197130-KS-09	9061827-08	Air	06/15/19 23:00	06/18/19 16:01
Air-11197130-KS-10	9061827-09	Air	06/15/19 23:00	06/18/19 16:01
Air-11197130-KS-11	9061827-10	Air	06/15/19 23:00	06/18/19 16:01
Air-11197130-KS-12	9061827-11	Air	06/15/19 23:00	06/18/19 16:01
Air-11197130-KS-13	9061827-12	Air	06/15/19 23:00	06/18/19 16:01
Air-11197130-KS-14	9061827-13	Air	06/15/19 23:00	06/18/19 16:01
Air-11197130-KS-15	9061827-14	Air	06/15/19 23:00	06/18/19 16:01
11197130-KS-16	9062015-01	Air	06/17/19 23:29	06/20/19 12:58
11197130-KS-28	9062015-02	Air	06/18/19 22:30	06/20/19 12:58
11197130-KS-18	9062015-03	Air	06/17/19 23:34	06/20/19 12:58
11197130-KS-19	9062015-04	Air	06/17/19 23:28	06/20/19 12:58
11197130-KS-20	9062015-05	Air	06/17/19 22:53	06/20/19 12:58
11197130-KS-21	9062015-06	Air	06/18/19 23:39	06/20/19 12:58
11197130-KS-22	9062015-07	Air	06/18/19 23:30	06/20/19 12:58
11197130-KS-23	9062015-08	Air	06/18/19 23:24	06/20/19 12:58
11197130-KS-24	9062015-09	Air	06/18/19 23:15	06/20/19 12:58
11197130-KS-25	9062015-10	Air	06/18/19 23:10	06/20/19 12:58



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**AQS SITE CODE:**

**SITE CODE:** Village of Gurnee

11197130-KS-27	9062015-11	Air	06/18/19 22:52	06/20/19 12:58
11197130-KS-30	9062015-12	Air	06/18/19 21:31	06/20/19 12:58
11197130-KS-31	9062015-13	Air	06/18/19 21:20	06/20/19 12:58
11197130-KS-29	9062015-14	Air	06/18/19 23:59	06/20/19 12:58
11197130-DS-25	9062631-01	Air	06/22/19 22:20	06/26/19 11:29
11197130-DS-26	9062631-02	Air	06/22/19 22:02	06/26/19 11:29
11197130-DS-28	9062631-03	Air	06/22/19 21:54	06/26/19 11:29
11197130-DS-29	9062631-04	Air	06/22/19 21:49	06/26/19 11:29
11197130-DS-30	9062631-05	Air	06/22/19 21:46	06/26/19 11:29
11197130-DS-31	9062631-06	Air	06/22/19 22:44	06/26/19 11:29
11197130-DS-32	9062631-07	Air	06/22/19 21:40	06/26/19 11:29
11197130-DS-33	9062631-08	Air	06/22/19 21:34	06/26/19 11:29
11197130-DS-34	9062631-09	Air	06/22/19 21:22	06/26/19 11:29
11197130-DS-35	9062631-10	Air	06/22/19 21:11	06/26/19 11:29



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AQS SITE CODE:

SITE CODE: Village of Gurnee

Description: Air-11197130-KS-01

Lab ID: 9061827-01

Sampled: 06/14/19 23:00

Pressure @ Receipt: 6.00"Hg

Canister #: A21046

Received: 06/18/19 16:01

Comments: 11197364

Analyzed: 06/25/19 18:34

## Air Toxics by EPA Compendium Method TO-15

Analyte	Results		Flag	MDL
	ppbv	ug/m <sup>3</sup>		ppbv
Ethylene oxide	ND	ND	U	0.0250



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REPORTED: 07/11/19 15:10

SUBMITTED: 06/18/19 to 06/26/19

AQS SITE CODE:

SITE CODE: Village of Gurnee

Description: Air-11197130-KS-02

Lab ID: 9061827-02

Sampled: 06/14/19 23:00

Pressure @ Receipt: 7.00"Hg

Canister #: N4117

Received: 06/18/19 16:01

Comments: 11197364

Analyzed: 06/25/19 19:21

## Air Toxics by EPA Compendium Method TO-15

Analyte	Results		Flag	MDL
	ppbv	ug/m <sup>3</sup>		ppbv
Ethylene oxide	2.39	4.31		0.0250



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REPORTED: 07/11/19 15:10

SUBMITTED: 06/18/19 to 06/26/19

AQS SITE CODE:

SITE CODE: Village of Gurnee

Description: Air-11197130-KS-03

Lab ID: 9061827-03

Sampled: 06/14/19 23:00

Pressure @ Receipt: 6.00"Hg

Canister #: 5043

Received: 06/18/19 16:01

Comments: 11197130

Analyzed: 06/25/19 20:08

## Air Toxics by EPA Compendium Method TO-15

Analyte	Results		Flag	MDL
	ppbv	ug/m <sup>3</sup>		ppbv
Ethylene oxide	ND	ND	U	0.0250



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REPORTED: 07/11/19 15:10

SUBMITTED: 06/18/19 to 06/26/19

AQS SITE CODE:

SITE CODE: Village of Gurnee

Description: Air-11197130-KS-04

Lab ID: 9061827-04

Sampled: 06/14/19 23:00

Pressure @ Receipt: 7.00"Hg

Canister #: 18874

Received: 06/18/19 16:01

Comments: 11197130

Analyzed: 06/25/19 20:55

## 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	ND	ND	U	0.0250



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FILE #: 4210.00

REPORTED: 07/11/19 15:10

SUBMITTED: 06/18/19 to 06/26/19

AQS SITE CODE:

SITE CODE: Village of Gurnee

Description: Air-11197130-KS-05

Lab ID: 9061827-05

Sampled: 06/15/19 23:00

Pressure @ Receipt: 5.00"Hg

Canister #: A21034

Received: 06/18/19 16:01

Comments: 11197364

Analyzed: 06/25/19 21:42

## Air Toxics by EPA Compendium Method TO-15

Analyte	Results		Flag	MDL
	ppbv	ug/m <sup>3</sup>		ppbv
Ethylene oxide	0.686	1.24		0.0250



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REPORTED: 07/11/19 15:10

SUBMITTED: 06/18/19 to 06/26/19

AQS SITE CODE:

SITE CODE: Village of Gurnee

Description: Air-11197130-KS-07

Lab ID: 9061827-07

Sampled: 06/15/19 23:00

Pressure @ Receipt: 9.00"Hg

Canister #: SAT172

Received: 06/18/19 16:01

Comments: 11197364

Analyzed: 06/25/19 22:29

## Air Toxics by EPA Compendium Method TO-15

Analyte	Results		Flag	MDL
	ppbv	ug/m <sup>3</sup>		ppbv
Ethylene oxide	1.14	2.06		0.0250



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FILE #: 4210.00

REPORTED: 07/11/19 15:10

SUBMITTED: 06/18/19 to 06/26/19

AQS SITE CODE:

SITE CODE: Village of Gurnee

Description: Air-11197130-KS-09

Lab ID: 9061827-08

Sampled: 06/15/19 23:00

Pressure @ Receipt: 5.00"Hg

Canister #: 19662

Received: 06/18/19 16:01

Comments: 11197364

Analyzed: 06/25/19 23:16

## Air Toxics by EPA Compendium Method TO-15

Analyte	Results		Flag	MDL
	ppbv	ug/m <sup>3</sup>		ppbv
Ethylene oxide	ND	ND	U	0.0250



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FILE #: 4210.00

REPORTED: 07/11/19 15:10

SUBMITTED: 06/18/19 to 06/26/19

AQS SITE CODE:

SITE CODE: Village of Gurnee

Description: Air-11197130-KS-10

Lab ID: 9061827-09

Sampled: 06/15/19 23:00

Pressure @ Receipt: 4.50"Hg

Canister #: 5087

Received: 06/18/19 16:01

Comments: 11197364

Analyzed: 06/26/19 00:03

## Air Toxics by EPA Compendium Method TO-15

Analyte	Results		Flag	MDL
	ppbv	ug/m <sup>3</sup>		ppbv
Ethylene oxide	ND	ND	U	0.0250



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FILE #: 4210.00

REPORTED: 07/11/19 15:10

SUBMITTED: 06/18/19 to 06/26/19

AQS SITE CODE:

SITE CODE: Village of Gurnee

Description: Air-11197130-KS-11

Lab ID: 9061827-10

Sampled: 06/15/19 23:00

Pressure @ Receipt: 5.00"Hg

Canister #: 19298

Received: 06/18/19 16:01

Comments: 11197130

Analyzed: 06/26/19 00:50

## 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	ND	ND	U	0.0250



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FILE #: 4210.00

REPORTED: 07/11/19 15:10

SUBMITTED: 06/18/19 to 06/26/19

AQS SITE CODE:

SITE CODE: Village of Gurnee

Description: Air-11197130-KS-12

Lab ID: 9061827-11

Sampled: 06/15/19 23:00

Pressure @ Receipt: 6.50"Hg

Canister #: SAT099

Received: 06/18/19 16:01

Comments: 11197130

Analyzed: 06/26/19 01:37

## Air Toxics by EPA Compendium Method TO-15

Analyte	Results		Flag	MDL
	ppbv	ug/m <sup>3</sup>		ppbv
Ethylene oxide	0.608	1.10		0.0250



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FILE #: 4210.00

REPORTED: 07/11/19 15:10

SUBMITTED: 06/18/19 to 06/26/19

AQS SITE CODE:

SITE CODE: Village of Gurnee

Description: Air-11197130-KS-13

Lab ID: 9061827-12

Sampled: 06/15/19 23:00

Pressure @ Receipt: 6.00"Hg

Canister #: SAT044

Received: 06/18/19 16:01

Comments: 11197130

Analyzed: 06/26/19 02:24

## Air Toxics by EPA Compendium Method TO-15

Analyte	Results		Flag	MDL
	ppbv	ug/m <sup>3</sup>		ppbv
Ethylene oxide	ND	ND	U	0.0250



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FILE #: 4210.00

REPORTED: 07/11/19 15:10

SUBMITTED: 06/18/19 to 06/26/19

AQS SITE CODE:

SITE CODE: Village of Gurnee

Description: Air-11197130-KS-14

Lab ID: 9061827-13

Sampled: 06/15/19 23:00

Pressure @ Receipt: 8.00"Hg

Canister #: 5075

Received: 06/18/19 16:01

Comments: 11197130

Analyzed: 06/26/19 03:11

## 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	ND	ND	U	0.0250



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FILE #: 4210.00

REPORTED: 07/11/19 15:10

SUBMITTED: 06/18/19 to 06/26/19

AQS SITE CODE:

SITE CODE: Village of Gurnee

Description: Air-11197130-KS-15

Lab ID: 9061827-14

Sampled: 06/15/19 23:00

Pressure @ Receipt: 9.00"Hg

Canister #: 5071

Received: 06/18/19 16:01

Comments: 11197130

Analyzed: 06/26/19 04:00

## Air Toxics by EPA Compendium Method TO-15

Analyte	Results		Flag	MDL
	ppbv	ug/m <sup>3</sup>		ppbv
Ethylene oxide	0.0869	0.16		0.0250



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FILE #: 4210.00  
 REPORTED: 07/11/19 15:10  
 SUBMITTED: 06/18/19 to 06/26/19  
 AQS SITE CODE:  
 SITE CODE: Village of Gurnee

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<b>Description:</b> 11197130-KS-16	<b>Lab ID:</b> 9062015-01	<b>Sampled:</b> 06/17/19 23:29
<b>Pressure @ Receipt:</b> 4.00"Hg	<b>Canister #:</b> 19643	<b>Received:</b> 06/20/19 12:58
<b>Comments:</b> 11197364		<b>Analyzed:</b> 06/27/19 15:35

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### 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	2.98	5.38		0.0250



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SUBMITTED: 06/18/19 to 06/26/19

AQS SITE CODE:

SITE CODE: Village of Gurnee

Description: 11197130-KS-28

Lab ID: 9062015-02

Sampled: 06/18/19 22:30

Pressure @ Receipt: 7.00"Hg

Canister #: A21044

Received: 06/20/19 12:58

Comments: 11197130. Sample run less than 23 hours.

Analyzed: 06/27/19 16:22

## Air Toxics by EPA Compendium Method TO-15

Analyte	Results		Flag	MDL
	ppbv	ug/m <sup>3</sup>		ppbv
Ethylene oxide	ND	ND	U	0.0250



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**FILE #:** 4210.00  
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**SUBMITTED:** 06/18/19 to 06/26/19  
**AQS SITE CODE:**  
**SITE CODE:** Village of Gurnee

**Description:** 11197130-KS-18                      **Lab ID:** 9062015-03                      **Sampled:** 06/17/19 23:34  
**Pressure @ Receipt:** 7.00"Hg                      **Canister #:** 5015                      **Received:** 06/20/19 12:58  
**Comments:** 11197364                      **Analyzed:** 06/27/19 17:09

### 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	ND	ND	U	0.0250





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**AQS SITE CODE:**  
**SITE CODE:** Village of Gurnee

**Description:** 11197130-KS-20                      **Lab ID:** 9062015-05                      **Sampled:** 06/17/19 22:53  
**Pressure @ Receipt:** 5.50"Hg                      **Canister #:** SAT119                      **Received:** 06/20/19 12:58  
**Comments:** 11197130                      **Analyzed:** 06/27/19 18:43

### 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	ND	ND	U	0.0250



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 AQS SITE CODE:  
 SITE CODE: Village of Gurnee

**Description:** 11197130-KS-21                      **Lab ID:** 9062015-06                      **Sampled:** 06/18/19 23:39  
**Pressure @ Receipt:** 5.50"Hg                      **Canister #:** 5114                      **Received:** 06/20/19 12:58  
**Comments:** 11197364                      **Analyzed:** 06/27/19 19:30

### 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	1.75	3.16		0.0250



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**SUBMITTED:** 06/18/19 to 06/26/19  
**AQS SITE CODE:**  
**SITE CODE:** Village of Gurnee

**Description:** 11197130-KS-22                      **Lab ID:** 9062015-07                      **Sampled:** 06/18/19 23:30  
**Pressure @ Receipt:** 5.50"Hg                      **Canister #:** 19279                      **Received:** 06/20/19 12:58  
**Comments:** 11197364                      **Analyzed:** 06/27/19 20:17

## 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	ND	ND	U	0.0250





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AQS SITE CODE:

SITE CODE: Village of Gurnee

Description: 11197130-KS-24

Lab ID: 9062015-09

Sampled: 06/18/19 23:15

Pressure @ Receipt: 4.50"Hg

Canister #: 19642

Received: 06/20/19 12:58

Comments: 11197364. No field recovery pressure recording.

Analyzed: 06/27/19 21:51

## Air Toxics by EPA Compendium Method TO-15

Analyte	Results		Flag	MDL
	ppbv	ug/m <sup>3</sup>		ppbv
Ethylene oxide	0.135	0.24		0.0250



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 Little Rock, AR 72223  
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 PHONE: (501) 224-1926 FAX:

FILE #: 4210.00  
 REPORTED: 07/11/19 15:10  
 SUBMITTED: 06/18/19 to 06/26/19  
 AQS SITE CODE:  
 SITE CODE: Village of Gurnee

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<b>Description:</b> 11197130-KS-25	<b>Lab ID:</b> 9062015-10	<b>Sampled:</b> 06/18/19 23:10
<b>Pressure @ Receipt:</b> 5.00"Hg	<b>Canister #:</b> 5051	<b>Received:</b> 06/20/19 12:58
<b>Comments:</b> 11197130		<b>Analyzed:</b> 06/27/19 22:38

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### 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	ND	ND	U	0.0250



# CERTIFICATE OF ANALYSIS

GHD Services Inc.  
11719 Hinson Road, Suite 100  
Little Rock, AR 72223

ATTN: Mr. Benjamin Chandler

PHONE: (501) 224-1926 FAX:

FILE #: 4210.00

REPORTED: 07/11/19 15:10

SUBMITTED: 06/18/19 to 06/26/19

AQS SITE CODE:

SITE CODE: Village of Gurnee

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<b>Description:</b> 11197130-KS-27	<b>Lab ID:</b> 9062015-11	<b>Sampled:</b> 06/18/19 22:52
<b>Pressure @ Receipt:</b> 6.00"Hg	<b>Canister #:</b> 19650	<b>Received:</b> 06/20/19 12:58
<b>Comments:</b> 11197130. Sampled less than 23 hours		<b>Analyzed:</b> 06/27/19 23:25

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## 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	ND	ND	U	0.0250



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FILE #: 4210.00

REPORTED: 07/11/19 15:10

SUBMITTED: 06/18/19 to 06/26/19

AQS SITE CODE:

SITE CODE: Village of Gurnee

Description: 11197130-KS-30

Lab ID: 9062015-12

Sampled: 06/18/19 21:31

Pressure @ Receipt: 8.50"Hg

Canister #: A21086

Received: 06/20/19 12:58

Comments: 11197130. Sampled less than 22 hours.

Analyzed: 06/28/19 00:12

## Air Toxics by EPA Compendium Method TO-15

Analyte	Results		Flag	MDL
	ppbv	ug/m <sup>3</sup>		ppbv
Ethylene oxide	ND	ND	U	0.0250



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ATTN: Mr. Benjamin Chandler

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FILE #: 4210.00

REPORTED: 07/11/19 15:10

SUBMITTED: 06/18/19 to 06/26/19

AQS SITE CODE:

SITE CODE: Village of Gurnee

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<b>Description:</b> 11197130-KS-31	<b>Lab ID:</b> 9062015-13	<b>Sampled:</b> 06/18/19 21:20
<b>Pressure @ Receipt:</b> 10.50"Hg	<b>Canister #:</b> 18830	<b>Received:</b> 06/20/19 12:58
<b>Comments:</b> 11197130. Sampled less than 22 hours		<b>Analyzed:</b> 06/28/19 01:00

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### 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	0.708	1.28		0.0250



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FILE #: 4210.00

REPORTED: 07/11/19 15:10

SUBMITTED: 06/18/19 to 06/26/19

AQS SITE CODE:

SITE CODE: Village of Gurnee

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**Description:** 11197130-KS-29                      **Lab ID:** 9062015-14                      **Sampled:** 06/18/19 23:59  
**Pressure @ Receipt:** 8.00"Hg                      **Canister #:** SAT111                      **Received:** 06/20/19 12:58  
**Comments:** 11197130. No elapsed time given.                      **Analyzed:** 06/28/19 01:47

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## 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	ND	ND	U	0.0250



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FILE #: 4210.00  
 REPORTED: 07/11/19 15:10  
 SUBMITTED: 06/18/19 to 06/26/19  
 AQS SITE CODE:  
 SITE CODE: Village of Gurnee

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<b>Description:</b> 11197130-DS-25	<b>Lab ID:</b> 9062631-01	<b>Sampled:</b> 06/22/19 22:20
<b>Pressure @ Receipt:</b> 7.50"Hg	<b>Canister #:</b> SAT018	<b>Received:</b> 06/26/19 11:29
<b>Comments:</b> 11197130		<b>Analyzed:</b> 06/28/19 03:22

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### 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	3.08	5.56		0.0250







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FILE #: 4210.00  
 REPORTED: 07/11/19 15:10  
 SUBMITTED: 06/18/19 to 06/26/19  
 AQS SITE CODE:  
 SITE CODE: Village of Gurnee

**Description:** 11197130-DS-29      **Lab ID:** 9062631-04      **Sampled:** 06/22/19 21:49  
**Pressure @ Receipt:** 8.00"Hg      **Canister #:** SAT177      **Received:** 06/26/19 11:29  
**Comments:** 11197130      **Analyzed:** 06/28/19 17:48

### 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	ND	ND	U	0.0250



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FILE #: 4210.00  
 REPORTED: 07/11/19 15:10  
 SUBMITTED: 06/18/19 to 06/26/19  
 AQS SITE CODE:  
 SITE CODE: Village of Gurnee

**Description:** 11197130-DS-30      **Lab ID:** 9062631-05      **Sampled:** 06/22/19 21:46  
**Pressure @ Receipt:** 7.00"Hg      **Canister #:** N4096      **Received:** 06/26/19 11:29  
**Comments:** 11197130      **Analyzed:** 06/28/19 18:35

### 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	0.495	0.89		0.0250



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FILE #: 4210.00  
 REPORTED: 07/11/19 15:10  
 SUBMITTED: 06/18/19 to 06/26/19  
 AQS SITE CODE:  
 SITE CODE: Village of Gurnee

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<b>Description:</b> 11197130-DS-31	<b>Lab ID:</b> 9062631-06	<b>Sampled:</b> 06/22/19 22:44
<b>Pressure @ Receipt:</b> 8.00"Hg	<b>Canister #:</b> 18821	<b>Received:</b> 06/26/19 11:29
<b>Comments:</b> 11197130		<b>Analyzed:</b> 06/28/19 19:22

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### 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	ND	ND	U	0.0250



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FILE #: 4210.00  
 REPORTED: 07/11/19 15:10  
 SUBMITTED: 06/18/19 to 06/26/19  
 AQS SITE CODE:  
 SITE CODE: Village of Gurnee

**Description:** 11197130-DS-32                      **Lab ID:** 9062631-07                      **Sampled:** 06/22/19 21:40  
**Pressure @ Receipt:** 9.50"Hg                      **Canister #:** 18822                      **Received:** 06/26/19 11:29  
**Comments:** 11197130                      **Analyzed:** 06/28/19 20:09

### 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	ND	ND	U	0.0250



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FILE #: 4210.00  
 REPORTED: 07/11/19 15:10  
 SUBMITTED: 06/18/19 to 06/26/19  
 AQS SITE CODE:  
 SITE CODE: Village of Gurnee

**Description:** 11197130-DS-33      **Lab ID:** 9062631-08      **Sampled:** 06/22/19 21:34  
**Pressure @ Receipt:** 10.00"Hg      **Canister #:** 19282      **Received:** 06/26/19 11:29  
**Comments:** 11197130      **Analyzed:** 06/28/19 20:56

### 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/m<sup>3</sup></u>		<u>ppbv</u>
Ethylene oxide	ND	ND	U	0.0250



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FILE #: 4210.00  
 REPORTED: 07/11/19 15:10  
 SUBMITTED: 06/18/19 to 06/26/19  
 AQS SITE CODE:  
 SITE CODE: Village of Gurnee

**Description:** 11197130-DS-34                      **Lab ID:** 9062631-09                      **Sampled:** 06/22/19 21:22  
**Pressure @ Receipt:** 11.00"Hg                      **Canister #:** 5142                      **Received:** 06/26/19 11:29  
**Comments:** 11197130                      **Analyzed:** 06/28/19 21:44

### 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	0.277	0.50		0.0250



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FILE #: 4210.00  
 REPORTED: 07/11/19 15:10  
 SUBMITTED: 06/18/19 to 06/26/19  
 AQS SITE CODE:  
 SITE CODE: Village of Gurnee

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<b>Description:</b> 11197130-DS-35	<b>Lab ID:</b> 9062631-10	<b>Sampled:</b> 06/22/19 21:11
<b>Pressure @ Receipt:</b> 12.00"Hg	<b>Canister #:</b> SAT140	<b>Received:</b> 06/26/19 11:29
<b>Comments:</b> 11197130		<b>Analyzed:</b> 06/28/19 22:32

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### 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	ND	ND	U	0.0250



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**FILE #:** 4210.00  
**REPORTED:** 07/11/19 15:10  
**SUBMITTED:** 06/18/19 to 06/26/19  
**AQS SITE CODE:**  
**SITE CODE:** Village of Gurnee

Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes
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## Air Toxics by EPA Compendium Method TO-15 - Quality Control

### Batch B9F2505 - Summa Canister Prep

<b>Blank (B9F2505-BLK1)</b>			Prepared: 06/20/19 Analyzed: 06/25/19			
Ethylene oxide	ND	ppbv				U
<b>Duplicate (B9F2505-DUP1)</b>	<b>Source: 9061827-14</b>		Prepared: 06/15/19 Analyzed: 06/26/19			
Ethylene oxide	ND	ppbv	0.09		25	U

### Batch B9F2605 - Summa Canister Prep

<b>Blank (B9F2605-BLK1)</b>			Prepared: 06/20/19 Analyzed: 06/27/19			
Ethylene oxide	ND	ppbv				U
<b>Duplicate (B9F2605-DUP1)</b>	<b>Source: 9062015-14</b>		Prepared: 06/18/19 Analyzed: 06/28/19			
Ethylene oxide	ND	ppbv	ND		25	U

### Batch B9F2804 - Summa Canister Prep

<b>Blank (B9F2804-BLK1)</b>			Prepared: 06/24/19 Analyzed: 06/28/19			
Ethylene oxide	ND	ppbv				U
<b>Duplicate (B9F2804-DUP1)</b>	<b>Source: 9062631-10</b>		Prepared: 06/22/19 Analyzed: 06/28/19			
Ethylene oxide	ND	ppbv	ND		25	U



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**FILE #:** 4210.00  
**REPORTED:** 07/11/19 15:10  
**SUBMITTED:** 06/18/19 to 06/26/19  
**AQS SITE CODE:**  
**SITE CODE:** Village of Gurnee

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

### Sequence 1906075

**Calibration Check (1906075-CCV1)**

Prepared &amp; Analyzed: 06/27/19

Ethylene oxide	2.39	ppbv	-4.4	30.00
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### Sequence 1906084

**Calibration Check (1906084-CCV1)**

Prepared &amp; Analyzed: 06/28/19

Ethylene oxide	2.40	ppbv	-3.9	30.00
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### Sequence 1907002

**Calibration Check (1907002-CCV1)**

Prepared: 07/01/19 Analyzed: 07/02/19

Ethylene oxide	2.37	ppbv	-3.5	30.00
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### Sequence 1907021

**Calibration Check (1907021-CCV1)**

Prepared &amp; Analyzed: 06/25/19

Ethylene oxide	2.11	ppbv	-15.6	30.00
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**FILE #:** 4210.00

**REPORTED:** 07/11/19 15:10

**SUBMITTED:** 06/18/19 to 06/26/19

**AQS SITE CODE:**

**SITE CODE:** Village of Gurnee

## Notes and Definitions

U	Under Detection Limit
ND	Analyte NOT DETECTED
NR	Not Reported
MDL	Method Detection Limit
RPD	Relative Percent Difference

Note: The test results meet all requirements of NELAC; however the following analytes are not accredited: 1,2,4-trimethylbenzene, 1,2-dibromoethane, 1,2-dichloropropane, 1,3,5-trimethylbenzene, 1,3-butadiene, acetylene, acrolein, bromochloromethane, bromodichloromethane, bromoform, carbon disulfide, dibromochloromethane, dichlorodifluoromethane, dichlorotetrafluoroethane, ethyl acrylate, ethyl tert butyl ether, ethylene oxide, hexachloro-1,3-butadiene, n-octane, propylene, tert amyl methyl ether, tetrachloroethylene, trans-1,2-dichloroethylene, trichlorofluoromethane, and trichlorotrifluoroethane.