



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

April 30, 2020

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 04/08/20 11:24 through 04/15/20 11:17.

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

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

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: 04/30/20 11:57
SUBMITTED: 04/08/20 to 04/15/20
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>
11197130-M1-31	0040818-01	Air	04/04/20 23:59	04/08/20 11:24
11197130-M3-31	0040818-02	Air	04/04/20 23:59	04/08/20 11:24
11197130-V2-31	0040818-03	Air	04/04/20 23:59	04/08/20 11:24
11197130-R1-31	0040818-04	Air	04/04/20 23:59	04/08/20 11:24
11197130-V5-31	0040818-05	Air	04/04/20 23:59	04/08/20 11:24
11197130-V1-31	0040818-06	Air	04/04/20 23:59	04/08/20 11:24
11197130-M4-31	0040818-07	Air	04/04/20 23:59	04/08/20 11:24
11197130-R2-31	0040818-08	Air	04/04/20 23:59	04/08/20 11:24
11197130-M2-31	0040818-09	Air	04/04/20 23:59	04/08/20 11:24
11197130-V3-31	0040818-10	Air	04/04/20 23:59	04/08/20 11:24
11197130-V4-31	0040818-11	Air	04/04/20 23:59	04/08/20 11:24
11197130-M5-31	0040818-12	Air	04/04/20 23:59	04/08/20 11:24
11197130-R1-32	0041005-01	Air	04/07/20 23:59	04/10/20 10:49
11197130-V1-32	0041005-02	Air	04/07/20 23:59	04/10/20 10:49
11197130-R2-32	0041005-03	Air	04/07/20 23:59	04/10/20 10:49
11197130-V2-32	0041005-04	Air	04/07/20 23:59	04/10/20 10:49
11197130-V4-32	0041005-05	Air	04/07/20 23:59	04/10/20 10:49
11197130-M5-32	0041005-06	Air	04/07/20 23:59	04/10/20 10:49
11197130-M3-32	0041005-07	Air	04/07/20 23:59	04/10/20 10:49
11197130-M4-32	0041005-08	Air	04/07/20 23:59	04/10/20 10:49
11197130-V5-32	0041005-09	Air	04/07/20 23:59	04/10/20 10:49
11197130-M1-32	0041005-10	Air	04/07/20 23:59	04/10/20 10:49
11197130-V3-32	0041005-11	Air	04/07/20 23:59	04/10/20 10:49



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11197130-M2-32	0041005-12	Air	04/07/20 23:59	04/10/20 10:49
11197130-V2-33	0041523-01	Air	04/10/20 23:59	04/15/20 11:17
11197130-M3-33	0041523-02	Air	04/10/20 23:59	04/15/20 11:17
11197130-V4-33	0041523-03	Air	04/10/20 23:59	04/15/20 11:17
11197130-V3-33	0041523-04	Air	04/10/20 23:59	04/15/20 11:17
11197130-M5-33	0041523-05	Air	04/10/20 23:59	04/15/20 11:17
11197130-M4-33	0041523-06	Air	04/10/20 23:59	04/15/20 11:17
11197130-M1-33	0041523-07	Air	04/10/20 23:59	04/15/20 11:17
11197130-R2-33	0041523-08	Air	04/10/20 23:59	04/15/20 11:17
11197130-M2-33	0041523-09	Air	04/10/20 23:59	04/15/20 11:17
11197130-V5-33	0041523-10	Air	04/10/20 23:59	04/15/20 11:17
11197130-R1-33	0041523-11	Air	04/10/20 23:59	04/15/20 11:17
11197130-V1-33	0041523-12	Air	04/10/20 23:59	04/15/20 11:17



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Description: 11197130-M1-31	Lab ID: 0040818-01	Sampled: 04/04/20 23:59
Pressure @ Receipt: 4.00" Hg	Canister #: SAT005	Received: 04/08/20 11:24
Comments:		Analyzed: 04/10/20 19:51

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/m³</u>		<u>ppbv</u>
Ethylene oxide	0.0622	0.11		0.0285



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Description: 11197130-M3-31	Lab ID: 0040818-02	Sampled: 04/04/20 23:59
Pressure @ Receipt: 4.00" Hg	Canister #: 18884	Received: 04/08/20 11:24
Comments:		Analyzed: 04/10/20 20:46

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	0.142	0.26		0.0285



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 SITE CODE: Village of Gurnee

Description: 11197130-V2-31	Lab ID: 0040818-03	Sampled: 04/04/20 23:59
Pressure @ Receipt: 7.00" Hg	Canister #: A21015	Received: 04/08/20 11:24
Comments:		Analyzed: 04/10/20 21:41

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	0.0371	0.07		0.0285



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Description: 11197130-R1-31 **Lab ID:** 0040818-04 **Sampled:** 04/04/20 23:59
Pressure @ Receipt: 6.50" Hg **Canister #:** 18822 **Received:** 04/08/20 11:24
Comments: **Analyzed:** 04/10/20 22:37

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/m³</u>		<u>ppbv</u>
Ethylene oxide	0.0354	0.06		0.0285



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 SITE CODE: Village of Gurnee

Description: 11197130-V5-31	Lab ID: 0040818-05	Sampled: 04/04/20 23:59
Pressure @ Receipt: 0.00 psig	Canister #: 5057	Received: 04/08/20 11:24
Comments: ambient at lab recovery		Analyzed: 04/10/20 23:32

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	0.0488	0.09		0.0285



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 AQS SITE CODE:
 SITE CODE: Village of Gurnee

Description: 11197130-V1-31	Lab ID: 0040818-06	Sampled: 04/04/20 23:59
Pressure @ Receipt: 5.50" Hg	Canister #: 19654	Received: 04/08/20 11:24
Comments: ambient at lab recovery		Analyzed: 04/11/20 00:27

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	0.0313	0.06		0.0285



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 AQS SITE CODE:
 SITE CODE: Village of Gurnee

Description: 11197130-M4-31 **Lab ID:** 0040818-07 **Sampled:** 04/04/20 23:59
Pressure @ Receipt: 5.50" Hg **Canister #:** 19653 **Received:** 04/08/20 11:24
Comments: **Analyzed:** 04/11/20 01:22

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	0.0285	0.05		0.0285



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 AQS SITE CODE:
 SITE CODE: Village of Gurnee

Description: 11197130-R2-31 **Lab ID:** 0040818-08 **Sampled:** 04/04/20 23:59
Pressure @ Receipt: 6.00" Hg **Canister #:** 19293 **Received:** 04/08/20 11:24
Comments: **Analyzed:** 04/11/20 02:18

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	0.0398	0.07		0.0285



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 AQS SITE CODE:
 SITE CODE: Village of Gurnee

Description: 11197130-M2-31	Lab ID: 0040818-09	Sampled: 04/04/20 23:59
Pressure @ Receipt: 4.50" Hg	Canister #: 18808	Received: 04/08/20 11:24
Comments:		Analyzed: 04/11/20 03:13

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/m³</u>		<u>ppbv</u>
Ethylene oxide	0.0302	0.05		0.0285



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 SUBMITTED: 04/08/20 to 04/15/20
 AQS SITE CODE:
 SITE CODE: Village of Gurnee

Description: 11197130-V3-31 **Lab ID:** 0040818-10 **Sampled:** 04/04/20 23:59
Pressure @ Receipt: 6.00" Hg **Canister #:** 5071 **Received:** 04/08/20 11:24
Comments: sampled >30 days from cleaning **Analyzed:** 04/11/20 04:08

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	0.270	0.49		0.0285



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 SUBMITTED: 04/08/20 to 04/15/20
 AQS SITE CODE:
 SITE CODE: Village of Gurnee

Description: 11197130-V4-31 **Lab ID:** 0040818-11 **Sampled:** 04/04/20 23:59
Pressure @ Receipt: 6.00" Hg **Canister #:** AZ52 **Received:** 04/08/20 11:24
Comments: sampled >30 days from cleaning **Analyzed:** 04/11/20 05:03

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/m³</u>		<u>ppbv</u>
Ethylene oxide	0.125	0.23		0.0285



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 SITE CODE: Village of Gurnee

Description: 11197130-M5-31	Lab ID: 0040818-12	Sampled: 04/04/20 23:59
Pressure @ Receipt: 6.00" Hg	Canister #: A21047	Received: 04/08/20 11:24
Comments:		Analyzed: 04/11/20 05:59

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	0.0883	0.16		0.0285



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 SITE CODE: Village of Gurnee

Description: 11197130-R1-32	Lab ID: 0041005-01	Sampled: 04/07/20 23:59
Pressure @ Receipt: 8.50" Hg	Canister #: SAT056	Received: 04/10/20 10:49
Comments:		Analyzed: 04/18/20 07:19

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	0.129	0.23		0.0285



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 AQS SITE CODE:
 SITE CODE: Village of Gurnee

Description: 11197130-V1-32 **Lab ID:** 0041005-02 **Sampled:** 04/07/20 23:59
Pressure @ Receipt: 9.00" Hg **Canister #:** 19283 **Received:** 04/10/20 10:49
Comments: **Analyzed:** 04/21/20 17:47

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/m³</u>		<u>ppbv</u>
Ethylene oxide	0.0916	0.17		0.0285



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Description: 11197130-R2-32	Lab ID: 0041005-03	Sampled: 04/07/20 23:59
Pressure @ Receipt: 8.50" Hg	Canister #: A21102	Received: 04/10/20 10:49
Comments:		Analyzed: 04/21/20 19:39

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		0.0285



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Description: 11197130-V2-32	Lab ID: 0041005-04	Sampled: 04/07/20 23:59
Pressure @ Receipt: 9.50" Hg	Canister #: SAT039	Received: 04/10/20 10:49
Comments:		Analyzed: 04/21/20 20:34

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/m³</u>		<u>ppbv</u>
Ethylene oxide	0.318	0.57		0.0285



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Description: 11197130-V4-32	Lab ID: 0041005-05	Sampled: 04/07/20 23:59
Pressure @ Receipt: 9.00" Hg	Canister #: SAT032	Received: 04/10/20 10:49
Comments:		Analyzed: 04/21/20 21:30

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/m³</u>		<u>ppbv</u>
Ethylene oxide	0.266	0.48		0.0285



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Description: 11197130-M5-32	Lab ID: 0041005-06	Sampled: 04/07/20 23:59
Pressure @ Receipt: 10.00" Hg	Canister #: 18883	Received: 04/10/20 10:49
Comments:		Analyzed: 04/21/20 22:26

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	0.0528	0.10		0.0285



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Description: 11197130-M3-32	Lab ID: 0041005-07	Sampled: 04/07/20 23:59
Pressure @ Receipt: 7.50" Hg	Canister #: 18830	Received: 04/10/20 10:49
Comments:		Analyzed: 04/21/20 23:21

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	0.194	0.35		0.0285



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Description: 11197130-M4-32 **Lab ID:** 0041005-08 **Sampled:** 04/07/20 23:59
Pressure @ Receipt: 9.00" Hg **Canister #:** SAT138 **Received:** 04/10/20 10:49
Comments: **Analyzed:** 04/22/20 00:17

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/m³</u>		<u>ppbv</u>
Ethylene oxide	0.106	0.19		0.0285



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 REPORTED: 04/30/20 11:57
 SUBMITTED: 04/08/20 to 04/15/20
 AQS SITE CODE:
 SITE CODE: Village of Gurnee

Description: 11197130-V5-32	Lab ID: 0041005-09	Sampled: 04/07/20 23:59
Pressure @ Receipt: 8.00" Hg	Canister #: A21095	Received: 04/10/20 10:49
Comments:		Analyzed: 04/22/20 02:07

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	0.175	0.32		0.0285



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: 04/30/20 11:57
 SUBMITTED: 04/08/20 to 04/15/20
 AQS SITE CODE:
 SITE CODE: Village of Gurnee

Description: 11197130-M1-32	Lab ID: 0041005-10	Sampled: 04/07/20 23:59
Pressure @ Receipt: 7.50" Hg	Canister #: SAT179	Received: 04/10/20 10:49
Comments:		Analyzed: 04/22/20 01:12

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/m³</u>		<u>ppbv</u>
Ethylene oxide	0.168	0.30		0.0285



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 11719 Hinson Road, Suite 100
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 ATTN: Mr. Benjamin Chandler
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FILE #: 4210.00
 REPORTED: 04/30/20 11:57
 SUBMITTED: 04/08/20 to 04/15/20
 AQS SITE CODE:
 SITE CODE: Village of Gurnee

Description: 11197130-V3-32	Lab ID: 0041005-11	Sampled: 04/07/20 23:59
Pressure @ Receipt: 9.00" Hg	Canister #: 5044	Received: 04/10/20 10:49
Comments:		Analyzed: 04/22/20 03:03

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/m³</u>		<u>ppbv</u>
Ethylene oxide	0.198	0.36		0.0285



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 ATTN: Mr. Benjamin Chandler
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FILE #: 4210.00
 REPORTED: 04/30/20 11:57
 SUBMITTED: 04/08/20 to 04/15/20
 AQS SITE CODE:
 SITE CODE: Village of Gurnee

Description: 11197130-M2-32 **Lab ID:** 0041005-12 **Sampled:** 04/07/20 23:59
Pressure @ Receipt: 7.00" Hg **Canister #:** 19650 **Received:** 04/10/20 10:49
Comments: **Analyzed:** 04/22/20 03:59

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	0.0549	0.10		0.0285



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FILE #: 4210.00
 REPORTED: 04/30/20 11:57
 SUBMITTED: 04/08/20 to 04/15/20
 AQS SITE CODE:
 SITE CODE: Village of Gurnee

Description: 11197130-V2-33	Lab ID: 0041523-01	Sampled: 04/10/20 23:59
Pressure @ Receipt: 8.00" Hg	Canister #: SAT033	Received: 04/15/20 11:17
Comments:		Analyzed: 04/22/20 04:54

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	0.160	0.29		0.0285



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 REPORTED: 04/30/20 11:57
 SUBMITTED: 04/08/20 to 04/15/20
 AQS SITE CODE:
 SITE CODE: Village of Gurnee

Description: 11197130-M3-33 **Lab ID:** 0041523-02 **Sampled:** 04/10/20 23:59
Pressure @ Receipt: 6.00" Hg **Canister #:** 19284 **Received:** 04/15/20 11:17
Comments: **Analyzed:** 04/22/20 16:07

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	0.0475	0.09		0.0285



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FILE #: 4210.00
 REPORTED: 04/30/20 11:57
 SUBMITTED: 04/08/20 to 04/15/20
 AQS SITE CODE:
 SITE CODE: Village of Gurnee

Description: 11197130-V4-33	Lab ID: 0041523-03	Sampled: 04/10/20 23:59
Pressure @ Receipt: 7.50" Hg	Canister #: 19299	Received: 04/15/20 11:17
Comments:		Analyzed: 04/22/20 17:57

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	0.0393	0.07		0.0285



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FILE #: 4210.00
 REPORTED: 04/30/20 11:57
 SUBMITTED: 04/08/20 to 04/15/20
 AQS SITE CODE:
 SITE CODE: Village of Gurnee

Description: 11197130-V3-33	Lab ID: 0041523-04	Sampled: 04/10/20 23:59
Pressure @ Receipt: 6.50" Hg	Canister #: SAT152	Received: 04/15/20 11:17
Comments:		Analyzed: 04/22/20 18:53

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	0.198	0.36		0.0285



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FILE #: 4210.00
 REPORTED: 04/30/20 11:57
 SUBMITTED: 04/08/20 to 04/15/20
 AQS SITE CODE:
 SITE CODE: Village of Gurnee

Description: 11197130-M5-33	Lab ID: 0041523-05	Sampled: 04/10/20 23:59
Pressure @ Receipt: 8.00" Hg	Canister #: A22294	Received: 04/15/20 11:17
Comments:		Analyzed: 04/22/20 19:48

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/m³</u>		<u>ppbv</u>
Ethylene oxide	0.229	0.41		0.0285



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FILE #: 4210.00
 REPORTED: 04/30/20 11:57
 SUBMITTED: 04/08/20 to 04/15/20
 AQS SITE CODE:
 SITE CODE: Village of Gurnee

Description: 11197130-M4-33	Lab ID: 0041523-06	Sampled: 04/10/20 23:59
Pressure @ Receipt: 7.00" Hg	Canister #: 19291	Received: 04/15/20 11:17
Comments:		Analyzed: 04/22/20 20:43

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/m³</u>		<u>ppbv</u>
Ethylene oxide	0.0834	0.15		0.0285



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FILE #: 4210.00
 REPORTED: 04/30/20 11:57
 SUBMITTED: 04/08/20 to 04/15/20
 AQS SITE CODE:
 SITE CODE: Village of Gurnee

Description: 11197130-M1-33	Lab ID: 0041523-07	Sampled: 04/10/20 23:59
Pressure @ Receipt: 4.00" Hg	Canister #: A21021	Received: 04/15/20 11:17
Comments:		Analyzed: 04/22/20 21:39

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	0.0825	0.15		0.0285



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FILE #: 4210.00
 REPORTED: 04/30/20 11:57
 SUBMITTED: 04/08/20 to 04/15/20
 AQS SITE CODE:
 SITE CODE: Village of Gurnee

Description: 11197130-R2-33	Lab ID: 0041523-08	Sampled: 04/10/20 23:59
Pressure @ Receipt: 6.50" Hg	Canister #: 19278	Received: 04/15/20 11:17
Comments:		Analyzed: 04/22/20 22:34

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/m³</u>		<u>ppbv</u>
Ethylene oxide	0.0437	0.08		0.0285



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 REPORTED: 04/30/20 11:57
 SUBMITTED: 04/08/20 to 04/15/20
 AQS SITE CODE:
 SITE CODE: Village of Gurnee

Description: 11197130-M2-33	Lab ID: 0041523-09	Sampled: 04/10/20 23:59
Pressure @ Receipt: 5.50" Hg	Canister #: SAT134	Received: 04/15/20 11:17
Comments:		Analyzed: 04/22/20 23:29

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	0.115	0.21		0.0285



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 SUBMITTED: 04/08/20 to 04/15/20
 AQS SITE CODE:
 SITE CODE: Village of Gurnee

Description: 11197130-V5-33	Lab ID: 0041523-10	Sampled: 04/10/20 23:59
Pressure @ Receipt: 6.00" Hg	Canister #: 18868	Received: 04/15/20 11:17
Comments:		Analyzed: 04/23/20 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	0.0614	0.11		0.0285



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 AQS SITE CODE:
 SITE CODE: Village of Gurnee

Description: 11197130-R1-33	Lab ID: 0041523-11	Sampled: 04/10/20 23:59
Pressure @ Receipt: 7.50" Hg	Canister #: SAT140	Received: 04/15/20 11:17
Comments:		Analyzed: 04/23/20 01:21

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	0.200	0.36		0.0285



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 REPORTED: 04/30/20 11:57
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 AQS SITE CODE:
 SITE CODE: Village of Gurnee

Description: 11197130-V1-33	Lab ID: 0041523-12	Sampled: 04/10/20 23:59
Pressure @ Receipt: 7.00" Hg	Canister #: AZ47	Received: 04/15/20 11:17
Comments:		Analyzed: 04/23/20 02:16

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	0.292	0.53		0.0285



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 REPORTED: 04/30/20 11:57
 SUBMITTED: 04/08/20 to 04/15/20
 AQS SITE CODE:
 SITE CODE: Village of Gurnee

Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes
Air Toxics by EPA Compendium Method TO-15 - Quality Control						
<i>Batch BOD1002 - Summa Canister Prep</i>						
Blank (BOD1002-BLK1)			Prepared & Analyzed: 04/10/20			
Ethylene oxide	ND	ppbv				U
<i>Batch BOD1701 - Summa Canister Prep</i>						
Blank (BOD1701-BLK1)			Prepared & Analyzed: 04/17/20			
Ethylene oxide	ND	ppbv				U
<i>Batch BOD2104 - Summa Canister Prep</i>						
Blank (BOD2104-BLK1)			Prepared & Analyzed: 04/21/20			
Ethylene oxide	ND	ppbv				U
Duplicate (BOD2104-DUP1)			Source: 0041005-02		Prepared: 04/07/20 Analyzed: 04/21/20	
Ethylene oxide	0.0896	ppbv	0.09	2.21	25	
<i>Batch BOD2203 - Summa Canister Prep</i>						
Blank (BOD2203-BLK1)			Prepared & Analyzed: 04/22/20			
Ethylene oxide	ND	ppbv				U
Duplicate (BOD2203-DUP1)			Source: 0041523-02		Prepared: 04/10/20 Analyzed: 04/22/20	
Ethylene oxide	0.0462	ppbv	0.05	2.77	25	



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 REPORTED: 04/30/20 11:57
 SUBMITTED: 04/08/20 to 04/15/20
 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 2004028

Calibration Check (2004028-CCV1)

Prepared & Analyzed: 04/10/20

Ethylene oxide	2.58	ppbv	4.3	30.00
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Sequence 2004040

Calibration Check (2004040-CCV1)

Prepared & Analyzed: 04/17/20

Ethylene oxide	2.58	ppbv	3.2	30.00
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Sequence 2004046

Calibration Check (2004046-CCV1)

Prepared & Analyzed: 04/21/20

Ethylene oxide	2.73	ppbv	9.4	30.00
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Sequence 2004051

Calibration Check (2004051-CCV1)

Prepared & Analyzed: 04/22/20

Ethylene oxide	2.82	ppbv	12.6	30.00
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FILE #: 4210.00
REPORTED: 04/30/20 11:57
SUBMITTED: 04/08/20 to 04/15/20
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.