

**Mr. Matthew Lazaric
GHD Services Inc.
6400 Shafer Court
Suite 400
Rosemont, IL 60018**

June 18, 2019

Account# 29016

Login# L482831

Dear Matthew Lazaric:

Enclosed are the analytical results for the samples received by our laboratory on June 14, 2019. All samples on the chain of custody were received in good condition unless otherwise noted. Any additional observations will be noted on the chain of custody.

Please contact client services at (888) 432-5227 if you would like any additional information regarding this report. Thank you for using SGS Galson.

Sincerely,

SGS Galson



**Lisa Swab
Laboratory Director**

Enclosure(s)



GALSON

ANALYTICAL REPORT

Account : 29016
Login No. : L482831

Terms and Conditions & General Disclaimers

- This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.
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Analytical Disclaimers

- Unless otherwise noted within the report, all quality control results associated with the samples were within established control limits or did not impact reported results.
- Note: The findings recorded within this report were drawn from analysis of the sample(s) provided to the laboratory by the Client (or a third party acting at the Client’s direction). The laboratory does not have control over the sampling process, including but not limited to the use of field equipment and collection media, as well as the sampling duration, collection volume or any other collection parameter used by the Client. The findings herein constitute no warranty of the sample’s representativeness of any sampled environment, and strictly relate to the samples as they were presented to the laboratory. For recommended sampling collection parameters, please refer to the Sampling and Analysis Guide at www.sgs.com.
- Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceding the final result column may have been rounded and therefore, if carried through the calculations, may not yield an identical final result to the one reported.
- The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).
- Unless otherwise noted within the report, results have not been blank corrected for any field blank or method blank data.

Accreditations SGS Galson holds a variety of accreditations and recognitions. Our quality management system conforms with the requirements of ISO/IEC 17025. Where applicable, samples may also be analyzed in accordance with the requirements of ELAP, NELAC, or LELAP under one of the state accrediting bodies listed below. Current Scopes of Accreditation can be viewed at <http://www.sgs.com> in the accreditations section of the "About" page. To determine if the analyte tested falls under our scope of accreditation, please visit our website or call Client Services at (888) 432-5227.

National/International	Accreditation/Recognition	Lab ID#	Program/Sector
AIHA-LAP, LLC - IHLAP, ELLAP, EMLAP	ISO/IEC 17025 and USEPA NLLAP	Lab ID 100324	Industrial Hygiene, Environmental Lead, Environmental Microbiology

State	Accreditation/Recognition	Lab ID#	Program/Sector
New York (NYSDOH)	ELAP and NELAC (TNI)	Lab ID: 11626	Air Analysis, Solid and Hazardous Waste
New Jersey (NJDEP)	NELAC (TNI)	Lab ID: NY024	Air Analysis
Louisiana (LDEQ)	LELAP	Lab ID: 04083	Air Analysis, Solid Chemical Materials
Texas	Texas Dept. of Licensing and Regulation	Lab ID: 1042	Mold Analysis Laboratory license

Legend

< - Less than	mg - Milligrams	MDL - Method Detection Limit	ppb - Parts per Billion
> - Greater than	ug - Micrograms	NA - Not Applicable	ppm - Parts per Million
l - Liters	m3 - Cubic Meters	NS - Not Specified	ppbv - ppb Volume
LOQ - Limit of Quantitation	kg - Kilograms	ND - Not Detected	ppmv - ppm Volume
ft2 - Square Feet	cm2 - Square Centimeters	in2 - Square Inches	ng - Nanograms



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LABORATORY ANALYSIS REPORT

LELAP Lab ID #04083

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.sgsgalson.com

Client : GHD Services Inc.
Site : NS
Project No. : 11191155-02
Date Sampled : 12-JUN-19
Date Received : 14-JUN-19

Account No.: 29016
Login No. : L482831
Date Analyzed : 14-JUN-19
Report ID : 1141469

Ethylene Oxide

Galson ID:	L482831-1	L482831-2	L482831-3
Client ID:	AIR-11191155-028	AIR-11191155-029	AIR-11191155-030

	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Ethylene oxide	0.040	0.072	0.21	0.38	0.23	0.42	0.25	0.45

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : 6L Canister
Submitted by : BLD

Supervisor: SAP
Approved by : SAP
Date : 18-JUN-19



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LABORATORY ANALYSIS REPORT

LELAP Lab ID #04083

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.sgsgalson.com

Client : GHD Services Inc.
Site : NS
Project No. : 11191155-02
Date Sampled : 12-JUN-19
Date Received : 14-JUN-19

Account No.: 29016
Login No. : L482831
Date Analyzed : 14-JUN-19
Report ID : 1141469

Ethylene Oxide

Galson ID:	L482831-4	L482831-5
Client ID:	AIR-11191155-031	AIR-11191155-032

	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3
Ethylene oxide	0.040	0.072	0.26	0.46	0.14	0.26

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : 6L Canister
Submitted by : BLD

Approved by : SAP
Date : 18-JUN-19

Supervisor: SAP



GALSON

LABORATORY FOOTNOTE REPORT

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.sgsgalson.com

Client Name : GHD Services Inc.
Site :
Project No. : 11191155-02

Date Sampled : 12-JUN-19
Date Received: 14-JUN-19
Date Analyzed: 14-JUN-19

Account No.: 29016
Login No. : L482831

L482831 (Report ID: 1141469):
SOPs: in-vocs(36)

L482831-2-4 (Report ID: 1141469):
Sample canisters were received at/near ambient pressure.

L482831 (Report ID: 1141469):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated accuracy applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process. The accuracy is based solely on spike recovery data from internal quality control samples. Where N/A appears below, insufficient data is available to provide statistical accuracy and mean recovery values for the associated analyte.

Parameter	Accuracy	Mean Recovery
Ethylene oxide	+/-34.6%	103%

491552810547
Date: 06/14/19
Shipper: FEDEX
Initials: MAK
Prep: UNKNOWN

L482831

491552810536
Date: 06/14/19
Shipper: FEDEX
Initials: MAK
Prep: UNKNOWN

491552810580
Date: 06/14/19
Shipper: FEDEX
Initials: MAK
Prep: UNKNOWN

F CUSTODY

gray suit 2nd shell

UND

You may edit and complete this COC electronically by logging in to your Client Portal account at <https://portal.galsonlabs.com/>

<input checked="" type="checkbox"/> Standard 0%	Client Acct No.: 29016	Report To: Mr. Ben Chandler Matt Lazaric	Invoice To: ACCOUNTS PAYABLE
<input type="checkbox"/> 4 Business Days 35%	Original Prep No.: PSY532487	Company Name: GHD Services Inc.	Company Name: GHD Services Inc.
<input type="checkbox"/> 3 Business Days 50%	CS Rep: JTRAINER	Address 1: 11719 Hinson Road 6400 Shafer Ct.	Address 1: 2055 Niagara Falls Blvd
<input type="checkbox"/> 2 Business Days 75%	Online COC No.: 182889	Address 2: Suite 400	Address 2: Suite 3
<input type="checkbox"/> Next Day by 6pm 100%		City, State Zip: Little Rock, AR 72112 Rosemont, IL 60018	City, State Zip: Niagara Falls, NY 14304
<input type="checkbox"/> Next Day by Noon 150%		Phone No.: 501-366-3999 312-636-8503	Phone No.: 716-297-6150
<input type="checkbox"/> Same Day 200%		Cell No.: _____	Email Address: Jennifer.Devonshire@ghd.com
<input checked="" type="checkbox"/> Samples submitted using the FreePumpLoan™ Program		Email reports to: benjamin.chandler@ghd.com, dyron.hamlin@ghd.com	Comments: _____
<input type="checkbox"/> Samples submitted using the FreeSamplingBadges™ Program		Email EDD to: benjamin.chandler@ghd.com, dyron.hamlin@ghd.com , Matthew.Lazaric@ghd.com	P.O. No.: _____
		Comments: _____	Payment info.: <input type="checkbox"/> I will call SGS Galson to provide credit card info <input type="checkbox"/> Card on File (enter the last five digits on the line below)

Comments: Ambient air

State Sampled: IL

Please indicate which OEL(s) this data will be used for:
 OSHA PEL ACGIH TLV MSHA Cal OSHA
 IAQ: _____ Other: _____
Specify Limit(s) Specify Other

Site Name: _____ Project: ~~1119155~~ **1119155-02** Sampled By: **Youa Yang**

List description of industry or Process/interferences present in sampling area: _____

Sample ID * (Maximum of 20 Characters)	Date Sampled *	Collection Medium	Sample Volume Sample Time Sample Area *	Liters Minutes in ³ , cm ³ , ft ³ *	Analysis Requested	Method Reference ^	Hexavalent Chromium Process (e.g., welding, plating, painting, etc.)
AIR-1119155-028	6/12/2019	6-L Canister	6	L	Ethylene Oxide	mod. OSHA PV2120/mod. EPA TO15; GC/MS	

^ If the method(s) indicated on the COC are not our routine/preferred method(s), we will substitute our routine/preferred methods. If this is not acceptable, check here to have us contact you.

Chain of Custody	Print Name / Signature	Date	Time	Print Name / Signature	Date	Time
Relinquished By:	Youa Yang	6/13/2019	1450	Received By:		
Relinquished By:	<i>[Signature]</i>			Received By:	Michelle Krause	6/14/19 1140

* You must fill in these columns for any samples which you are submitting.
Samples received after 3pm will be considered as next day's business.

COC No.: 182889
Prep No.: PSY532487
Account No.: 29016
Draft: 6/6/2019 2:03:33 PM

All services are rendered in accordance with the applicable SGS General Conditions of Service accessible via: <http://www.sgs.com/en/Terms-and-Conditions.aspx>



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CHAIN OF CUSTODY

Comments :

Sample ID * (Maximum of 20 Characters)	Date Sampled *	Collection Medium	Sample Volume Sample Time Sample Area *	Liters Minutes in ² , cm ² , ft ² *	Analysis Requested	Method Reference ^	Hexavalent Chromium Process (e.g., welding, plating, painting, etc.)
AIR-11191155-028	6/12/2019	6-L Canister	6	L	Ethylene Oxide	mod. OSHA PV2120/mod. EPA TO15; GC/MS	xy
AIR-11191155-029	6/12/2019	6-L Canister	6	L	Ethylene Oxide	mod. OSHA PV2120/mod. EPA TO15; GC/MS	
AIR-11191155-030	6/12/2019	6-L Canister	6	L	Ethylene Oxide	mod. OSHA PV2120/mod. EPA TO15; GC/MS	
AIR-11191155-031	6/12/2019	6-L Canister	6	L	Ethylene Oxide	mod. OSHA PV2120/mod. EPA TO15; GC/MS	
AIR-11191155-032	6/12/2019	6-L Canister	6	L	Ethylene Oxide	mod. OSHA PV2120/mod. EPA TO15; GC/MS	
		6-L Canister			Ethylene Oxide	mod. OSHA PV2120/mod. EPA TO15; GC/MS	
		6-L Canister			Ethylene Oxide	mod. OSHA PV2120/mod. EPA TO15; GC/MS	
		6-L Canister			Ethylene Oxide	mod. OSHA PV2120/mod. EPA TO15; GC/MS	

^ If the method(s) indicated on the COC are not our routine/preferred method(s), we will substitute our routine/preferred methods. If this is not acceptable, check here to have us contact you.

Chain of Custody	Print Name / Signature		Date	Time		Print Name / Signature		Date	Time
Relinquished By :	<i>[Signature]</i>	Youna Yang	6/13/2019	1450	Received By :				
Relinquished By :	<i>[Signature]</i>				Received By :	Michelle Krause	<i>[Signature]</i>	6/14/19	1440

* You must fill in these columns for any samples which you are submitting.

Samples received after 3pm will be considered as next day's business.

Online COC No. : 182889
 Prep No. : PSY532487
 Account No. : 29016
 Draft : 6/6/2019 2:03:33 PM

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