

March 3, 2020

Mr. Dan Gilbert District Office Supervisor of Maintenance & Facilities Libertyville School District 70 1381 Lake Street Libertyville, Illinois 60048

#### Re: Formaldehyde Air Quality Retest Highland Middle School 310 West Rockland Road Libertyville, Illinois 60048

Dear Mr. Gilbert:

Environmental Consulting Group, Inc. (ECG) has completed a formaldehyde air quality retest at Libertyville SD 70 Highland Middle School, 310 West Rockland Road, Libertyville, Illinois, 60048. The assessment took place on February 18, 2020. This report summarizes the work performed, outlines the sampling methodology, and provides the analytical results along with conclusions.

If you have any questions or need additional information, please contact our office.

Sincerely,

# ENVIRONMENTAL CONSULTING GROUP, INC.

Daniel Brust Senior Project Manager





<u>REPORT</u> Formaldehyde Air Quality Retest Highland Middle School 310 West Rockland Road Libertyville, Illinois 60048

#### **Performed for:**

Libertyville School District 70 1381 Lake Street Libertyville, Illinois 60048

#### **Prepared by:**

Environmental Consulting Group, Inc. 105 S. York Road, Suite 250 Elmhurst, Illinois 60126 (630) 607-0060 www.ecgmidwest.com

ECG Project Number: II202651-150 Date: March 3, 2020

630-607-0060

# **EXECUTIVE SUMMARY**

On November 1, 2019, formaldehyde concentrations were tested in every occupiable room (classrooms, workrooms, conference rooms, gyms, offices, etc.) at Libertyville SD 70 Highland Middle School (HMS), 310 West Rockland Road, Libertyville, Illinois 60048. All the results were below the strictest applicable guideline (<0.0073 parts per million [ppm], according to ASHRAE 62.1-2016 / California EPA Office of Environmental Health Hazard Assessment), except for 3 locations which ranged from 0.008 to 0.020 ppm (Classroom 002, Workroom 101 and Learning Center 127).

At the request of HMS, on February 18, 2020, Environmental Consulting Group, Inc. (ECG) conducted a retest for formaldehyde at Libertyville SD 70 Highland Middle School (HMS), 310 West Rockland Road, Libertyville, Illinois, 60048 in Classroom 002, Workroom 101 and Learning Center 127.

Samples were submitted to Assay Technology in Boardman, Ohio for analysis. Assay Technology is accredited by the American Industrial Hygiene Association (AIHA) under Laboratory Number 100903. Occupational Safety and Health Administration (OSHA) and National Institute for Occupational Safety and Health (NIOSH) analytical methods were followed for sampling and analysis protocols.

The formaldehyde concentrations were compared to the following standards and guidelines:

- American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLVs) 0.1 ppm
- Center for Disease Control (CDC) Agency for Toxic Substances and Disease Registry (ATSDR) – 0.008 ppm
- Indoor air quality standards developed by the Environmental Protection Agency (EPA) Not Established
- Occupational Safety & Health Administration (OSHA) permissible exposure limit (PEL) - 0.75 ppm

The formaldehyde concentrations in Classroom 002, Workroom 101 and Outdoors were <0.0038 ppm. The formaldehyde concentration in Learning Center 127 was 0.0051 ppm. All the indoor formaldehyde concentrations were below the applicable standards and guidelines.

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# **APPENDICES**

Appendix A – Summary Table of IAQ Testing Results Appendix B – Floor Plan Appendix C – Laboratory Reports and Chains of Custody

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# **1.0 PROJECT BACKGROUND**

On November 1, 2019, formaldehyde concentrations were tested at Libertyville SD 70 Highland Middle School (HMS), 310 West Rockland Road, Libertyville, Illinois 60048. All the results were below the strictest applicable guideline (<0.0073 parts per million, according to ASHRAE 62.1-2016 / California EPA Office of Environmental Health Hazard Assessment), except for 3 locations which ranged from 0.008 to 0.020 ppm (Classroom 002, Workroom 101 and Learning Center 127).

Between December 2019 and February 2020, HMS made adjustments to the air handling units that provide conditioned air to these 3 locations and requested that ECG perform another assessment to re-evaluate the spaces for airborne formaldehyde concentrations in 002, 101 and 127.

This retest was designed by ECG Senior Project Manager, Mr. Daniel Brust. Mr. Dan Gilbert, Libertyville SD 70 District Office Supervisor of Maintenance & Facilities, provided assistance in completing this project.

Formaldehyde is a gas that may be emitted from many indoor sources, such as wood particleboard, plywood, fiberboard, glues and adhesives, carpeting, permanent pressed fabrics, and combustion sources. These materials may release formaldehyde into the air, usually when they are newer. This process, commonly referred to as "off-gassing," may cause short-term health effects with symptoms including eye, nose, throat, and skin irritation, nausea, headache, allergic sensitization, and exacerbation of asthma.

When formaldehyde is present in the air at levels in excess of approximately 0.1 ppm, some individuals may experience adverse effects such as watery eyes; burning sensations in the eyes, nose, and throat; coughing; respiratory tract irritation; and skin irritation.

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#### 2.0 METHODOLOGY & STANDARDS AND GUIDELINES

#### **Methodology**

Formaldehyde concentrations were measured using Assay Technology 581 Formaldehyde Monitors. These formaldehyde monitors contain glass fiber filters, treated with 2,4-dinitrophenylhydrazine and phosphoric acid.

The formaldehyde monitors were placed in Classroom 002, Workroom 101 and Learning Center 127. A formaldehyde monitor was also placed outdoors, for comparison purposes. The monitors were placed in the 'breathing zone', between approximately 3 feet and 6 feet from the floor. The monitors collected air over a duration of 170 minutes, in order to measure formaldehyde concentrations down to a detection limit below 0.0073 parts per million (0.0073 ppm).

Samples were submitted to Assay Technology in Boardman, Ohio for analysis. Assay Technology is accredited by the American Industrial Hygiene Association (AIHA) under Laboratory Number 100903. Occupational Safety and Health Administration (OSHA) and National Institute for Occupational Safety and Health (NIOSH) analytical methods were followed for sampling and analysis protocols.

# **Standards and Guidelines**

The formaldehyde concentrations were compared to the following standards and guidelines:

- American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLVs)
- Center for Disease Control (CDC) Agency for Toxic Substances and Disease Registry (ATSDR)
- Indoor air quality standards developed by the Environmental Protection Agency (EPA)
- Occupational Safety & Health Administration (OSHA) permissible exposure limit (PEL)

IAQ Limits & Guidel	ine Levels
ACGIIH TLV – 2020	0.1 ppm
CDC ATSDR	0.008 ppm
EPA	NE
OSHA PEL	0.75 ppm

ACGIH and OSHA limits are applicable to workers/employees. CDC and EPA are guidelines applicable to the public. Except for the OSHA PEL (a regulatory limit for workers), these guidelines are based on research conducted by each of these agencies. These health-based guidelines are established by professionals in the scientific community, including industry, research and educational settings. These guidelines do not represent a strict line between safe and unsafe exposure conditions, but they do represent exposure levels under which each of these agencies believes that a person may be exposed without adverse health effects.

#### 3.0 RESULTS

A summary table of formaldehyde concentrations results is provided in Appendix A. A Floor plan of the facility is provided in Appendix B. The laboratory reports and chains of custody are provided in Appendix C.

#### **Formaldehyde**

During the IAQ assessment, no occupants or employees complained of any of the symptoms commonly associated with formaldehyde exposure and ECG's consultants did not experience or observe any of the symptoms associated with formaldehyde exposure.

Out of the 4 indoor locations that were tested, all the formaldehyde concentrations throughout the building, and outdoors, were less than the strictest guideline (CDC ATSDR 0.008 ppm):

- Classroom 002 <0.0034 ppm
- Workroom 101 <0.0033 ppm
- Learning Center 127 0.0051 ppm
- Outdoors <0.0038 ppm

#### 4.0 CONCLUSIONS AND RECOMMENDATONS

All the indoor formaldehyde concentrations were below the applicable standards and guidelines. No further action is needed in these spaces, other than to maintain the air handling units and provide sufficient fresh air into the spaces during occupancy.

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#### **5.0 QUALIFICATIONS**

ECG believes this study was developed in general accordance with the technical standards of practice for indoor air testing at the time the study was conducted. The standard of care exercised for this study was in accordance with generally accepted practices, and a reasonable effort was made to ensure that the information presented in this report is materially complete and accurate.

The conclusions presented in this report are professional opinions based solely upon visual observations of the site, analytical data, and other research as described in this report. They are intended for the sole use of our client. The scope of services performed in execution of this assessment may not be appropriate to satisfy the need of other users, and any use or reuse of this document of the findings, conclusions, or recommendations presented herein is at the sole risk of said user.

Therefore, we cannot be responsible for independent conclusions, opinions or recommendations of others based on our study. If additional information from the site is generated, it should be provided to us so that we may evaluate its impact on our conclusions.

If you have any questions or need additional information, please contact our office.

Sincerely,

# ENVIRONMENTAL CONSULTING GROUP, INC.

Daniel Brust Senior Project Manager



Appendix A

Summary Table of IAQ Testing Results

# Table 1: Summary of Indoor Air Quality Results Highland Middle School

310 West Rockland Avenue Libertyville, Illinois Date: 2-18-2020

Libertyville SD 70 II202651-150 Formaldehyde Results Table

Sample Location	Duration (minutes)	Sample Number	Formaldehyde (ppm)	Type of Ventilation
	IAQ L	imits & Guideli	ne Levels	
ACC	GIH-2020		0.1	
CDC	CATSDR		0.008**	
	EPA		NE	
OS	HA PEL		0.75	
Outdoors	172	OH0685	<0.0038	-
101 Workroom	202	OH0501	<0.0033	Ducted
002 Classroom	193	OH0391	<0.0034	Univent
127 Learning Center	196	OH0657	0.0051	Ducted

Appendix B

Floor Plan

Appendix C

Laboratory Reports & Chains of Custody

3		Lechnology		Lab Report	ort	The Innovation & Value Leader in Occupational Hygiene Analysis	novatic patione	n & Va I Hygie	lue Le ne An	ıder ılysis		
	Customer: Attention	<ul> <li>ENVIRONMENTAL CONSULTING GROUP INC</li> <li>DANIFI BRUST</li> </ul>	INC	Lab Work Order:	2020020518	Custo Recei	Customer No.: Received Date:		62813 February 19 2020			
	Address:					Date	Date Reported:		February 26, 2020			
			+	Project ID: 11202651-150	0							
ł	Phone No.	<i>Phone No.</i> : (630) 607-0060		PO No.:								
	Fax No.	<i>Fax No.:</i> (630) 607-0650										
Ext tes rep cor site	posure resu sted. Unless oorted, and ¿ ncentrations e at http://wv	Exposure results are the average concentration for the period of time monitored. '<' means the result is 'less than the RptLmt'. RptLmt = Reporting Limit. The results relate only to the items tested. Unless noted below, samples were received in acceptable condition, all applicable quality control were within method specifications, lab blanks were subtracted before a result was reported, and any customer supplied field blanks were not subtracted from sample results. The molar volume at 25 C (24.45 L/mole) was used to calculate parts per million, ppm. Air concentrations reported are based upon field sampling information provided by the customer. For assistance with the content of this report, please visit the Customer Support section of our web site at http://www.assaytech.com or contact Technical Support at 1-800-833-1258. For details of significant method modifications go to www.assaytech.com/methmod.html.	d of time monitored. '<' table condition, all appl ubtracted from sample r nation provided by the c int at 1-800-833-1258. F	means the result is 'less icable quality control were esults. The molar volume sustomer. For assistance or details of significant m	the result is 'less than the RptLmt'. RptLmt = Reporting Limit. The results relate only to the luality control were within method specifications, lab blanks were subtracted before a resul The molar volume at 25 C (24.45 L/mole) was used to calculate parts per million, ppm. Air ar. For assistance with the content of this report, please visit the Customer Support section ils of significant method modifications go to www.assaytech.com/methmod.html.	The results relate a subtracted before te parts per million, te Customer Suppore om/methmod.html.	only to the re a result ppm. Air rt section	items was of our web				
Lab Sample ID	Lab Code	Date Sampled Client Sample ID	Media	Media Lot / Serial #	Analytes Requested	Quantity Found Total RptLmt L	<sup>-</sup> ound mt Units	Sample Tī Vol. (L) (n	ple Time (min)	Conc	Concentration d	Units
20006694	ATOH 0	02/18/2020 BLANK	581	11H19 - OH0628								
Analyzed By	Analyzed By: JZATCHOK	Analyzed On: 2/25/2020		Approved By: BEWING	FORMALDEHYDE Approved On: 2/26/2020	۸ 0.10	0 NG					
20006695	ATOH 0	02/18/2020 002 CL	581	11H19 - OH0391			-	0 0 0	07	,	1000	
Analyzed By	Analyzed By: JZATCHOK	Analyzed On: 2/25/2020		Approved By: BEWING	Approved On: 2/26/2020			2.2.2	2			E
20006696	ATOH 0	02/18/2020 OA MAIN ENT	581	11H19 - OH0685	FORMALDEHYDE	< 0.10	ng	21.3	172	v	0.0038	Mdd
Analyzed By	Analyzed By: JZATCHOK	Analyzed On: 2/25/2020		Approved By: BEWING	Approved On: 2/26/2020							
20006697	ATOH 0	02/18/2020 127 LIBRARY	581	11H19 - OH0657	FORMALDEHYDE	0.15 0.10	nc	24.3	196	0.0051		Mdd
Analyzed By	Analyzed By: JZATCHOK	Analyzed On: 2/25/2020		Approved By: BEWING	Approved On: 2/26/2020							
20006698	ATOH 0	02/18/2020 101 WORKROOM	581	11H19 - OH0501	FORMALDEHYDE	< 0.10	DUG	25.0	202	v	0.0033 F	Mdd
Analyzed By	Analyzed By: JZATCHOK	Analyzed On: 2/25/2020		Approved By: BEWING	Approved On: 2/26/2020			-	-			
											Page 1 of 2	of 2
AIHA LAF	⊃, LLC AC(	CREDITATION. LAB # 101728 (ATCA)			1382 Stealth Street •	Livermore, CA §	94551 • (8	00) 833-	1258 • F	AX: (925	) 461-71	149
AIHA LAF	P, LLC AC(	AIHA LAP, LLC ACCREDITATION. LAB # 100903 (ATOH)			250 DeBartolo Place #2525 • Boardman, OH 44512 • (800) 833-1258 • FAX: (330) 758-1245	Boardman, OH ⊿	4512 • (8	00) 833-	1258 • F	AX: (330	) 758-12	245

<b>A</b> assay technology		Lab Report			The Innovation & Value Leader in Occupational Hygiene Analysis	The Innovation & Value Leader 1 Occupational Hygiene Analysi	Leader Analysis	
Customer: ENVIRONMENTAL CONSULTING GROUP INC	IG GROUP INC	Lab Work Order:	2020020518		Customer No.: 62813	o.: 62813		
Attention: DANIEL BRUST					Received Dat	Received Date: February 19, 2020	2020	
Address: 105 SOUTH YORK STREET SUITE 250 ELMHURST, IL 60126 USA					Date Reporte	<i>Date Reported</i> : February 26, 2020	2020	
		Project ID: 11202651-150						
<i>Phone No.:</i> (630) 607-0060		PO No.:						
Fax No.: (630) 607-0650								
					Quantity Found	Sample	Concentration	E
Lab Lab Date Sample ID Code Sampled Client Sample ID	Media	Media Lot / Serial #	Analytes Requested		Total RptLmt Units	its Vol. (L) Time (min)	e n) Found	Units
Method References:								
TestCode         Analytes Requested           50000A         FORMALDEHYDE		<u>Method Reference</u> MOD OSHA 1007		<u>Regulatory Agency</u> OSHA PEL / STEL	<u>TWA Limit</u> 0.75	<u>STEL Limit</u> 2	<u>Exposure Units</u> PPM	
Applicable OSHA PELs or NIOSH RELS have been included in this lab report for guidance , but may not be sufficient for regulatory compliance . Clients should be aware that more stringent international, state, local, or organizational exposure limits may supersede the limits included with this report. Visit www.OSHA.gov/dsg/annotated-pels for detailed information on exposure limits and OSHA policies.	e been included in this lab report i ational exposure limits may super	for guidance , but may not be rsede the limits included with i	sufficient for regulato this report. Visit wwv	rry compliance . Clients v.OSHA.gov/dsg/annota	should be aware that m ated-pels for detailed inf	ore formation		



K. Taylor - Ohio Supervisor

AIHA LAP, LLC ACCREDITATION. LAB # 101728 (ATCA) AIHA LAP, LLC ACCREDITATION. LAB # 100903 (ATOH)

1382 Stealth Street • Livermore, CA 94551 • (800) 833-1258 • FAX: (925) 461-7149 250 DeBartolo Place #2525 • Boardman, OH 44512 • (800) 833-1258 • FAX: (330) 758-1245

Page 2 of 2

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FORM

Assay Tech Customer No. 62113

**Report To:** 

Name/Title/Mail Stop*		
Daniel Brust		
Company/Organization*	E-Mail	
Environmental Consulting Group, Inc.	db	rust@envcg.com
Address*		TEL*
105 South York Street, Suite 250		630-607-0060
City/State/Zip*		FAX
Elmhurst, IL 60126		630-607-0650

Sampling Data:

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Project Name/No. (optional): 11202651-150

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Check	CAS No.	CHEMICAL ANALYTE
	111-30-8	Glutaraldehyde
	643-79-8	o-Phthalaldehyde (Cidex OPA) * <b>OPA must be analyzed separately</b> *
	75-07-0	Acetaldehyde
	100-52-7	Benzaldehyde
	123-72-8	Butyraldehyde
	4170-30-3	Crotonaldehyde
1	50-00-0	Formaldehyde
	66-25-1	Hexaldehyde (Hexanal)
	123-38-6	Propionaldehyde

Return to: AT Labs, 250 DeBartolo Place STE 2525, Boardman, OH 44512

\* Minimum required fields. Failure to complete these fields may result in a delay of your samples being processed.

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**Report To:** 

Name/Title/Mail Stop*		
Daniel Brust		
Company/Organization*	E-Mail	
Environmental Consulting Group, Inc.	db	rust@envcg.com
Address*		TEL*
105 South York Street, Suite 250		630-607-0060
City/State/Zip*		FAX
Elmhurst, IL 60126	_	630-607-0650

Sampling Data:

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Project Name/No. (optional):<u>II202651-150</u>

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Check	CAS No.	CHEMICAL ANALYTE
	111-30-8	Glutaraldehyde
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	4170-30-3	Crotonaldehyde
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	123-38-6	Propionaldehyde

Return to: AT Labs, 250 DeBartolo Place STE 2525, Boardman, OH 44512

\* Minimum required fields. Failure to complete these fields may result in a delay of your samples being processed.

No Clip



LAB REQUEST FORM Assay Tech Customer No. Monitor Serial No.\* PLEASE Print Clearly 040685 & Complete all boxes

**Report** To:

Name/Title/Mail Stop*		
Daniel Brust		
Company/Organization*	E-Mail	
Environmental Consulting Group, Inc.	db	rust@envcg.com
Address*		TEL*
105 South York Street, Suite 250		630-607-0060
City/State/Zip*		FAX
Elmhurst, IL 60126		630-607-0650

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Project Name/No. (optional): II202651-150

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Check	CAS No.	CHEMICAL ANALYTE
	111-30-8	Glutaraldehyde
	643-79-8	o-Phthalaldehyde (Cidex OPA) *OPA must be analyzed separately*
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	100-52-7	Benzaldehyde
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	4170-30-3	Crotonaldehyde
1	50-00-0	Formaldehyde
	66-25-1	Hexaldehyde (Hexanal)
	123-38-6	Propionaldehyde

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\* Minimum required fields. Failure to complete these fields may result in a delay of your samples being processed.

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#### 20-006697

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Assay Tech Customer No.

Report To:		
Name/Title/Mail Stop*		
Daniel Brust		
Company/Organization*	E-Mail	
Environmental Consulting Group, Inc.	db	rust@envcg.com
Address*		TEL*
105 South York Street, Suite 250		630-607-0060
City/State/Zip*		FAX
Elmhurst, IL 60126		630-607-0650

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02/18/2020 Daniel Brust				
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IMPORTANT! Record All Sampling Data!

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Check	CAS No.	CHEMICAL ANALYTE
	111-30-8	Glutaraldehyde
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	4170-30-3	Crotonaldehyde
✓	50-00-0	Formaldehyde
	66-25-1	Hexaldehyde (Hexanal)
	123-38-6	Propionaldehyde

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# 20-006698

Monitor Serial No.*	LAB REQUEST FORM	Assay Tech Customer No.
040501	PLEASE Print Clearly & Complete all boxes	

**Report To:** 

Name/Title/Mail Stop* Daniel Brust		
Company/Organization* Environmental Consulting Group, Inc.	E-Mail	rust@envcg.com
Address* 105 South York Street, Suite 250		tel* 630-607-0060
City/State/Zip* Elmhurst, IL 60126		FAX 630-607-0650

Sampling Data:

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\* Minimum required fields. Failure to complete these fields may result in a delay of your samples being processed.

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