

EHS ENVIRONMENTAL, INC.

**411 SOUTHGATE COURT, SUITE E • MICKLETON, NJ • 08056
MAIN: 856-224-0080 • FAX: 856-224-0081**

FORMALDEHYDE SURVEY REPORT

CLIENT: Centennial School District
433 Centennial Road
Warminster, PA 18974

LOCATION: Log College Middle School
730 Norristown Way
Warminster, PA

PROJECT NUMBER: 5-18-21214

CONTACT PERSON: Mr. Tom Golden

DATE OF REPORT: June 2, 2018

REPORT REVIEWED BY:



Jack F. Carney, President

EXECUTIVE SUMMARY

EHS Environmental, Inc. was contracted by Centennial School District to provide airborne sample collection and analytical services for airborne Formaldehyde, in specified locations, at the Log College Middle School located at 730 Norristown Way in Warminster, Pennsylvania. The survey was conducted on May 25, 2018.

Results indicate:

1. Airborne sampling results indicate Formaldehyde levels were below 0.75 parts per million (ppm), the current OSHA Time Weighted Average (TWA).

METHODS

Formaldehyde and Other Aldehydes Sampling

Airborne samples were collected with the use of passive monitoring badges. Badges were placed in the breathing zone at a height of approximately five to six feet above the floor level.

Sample Analysis

Sample analysis was performed at EMSL located in Cinnaminson, New Jersey. Formaldehyde and Other Aldehyde analysis was performed by HPLC/UV of Passive Monitoring Badges via Modified NIOSH 2016.

OSHA Standards

Time Weighted Average Concentration (TWA): The employer shall assure that no employee is exposed to an airborne concentration of formaldehyde which exceeds 0.75 parts formaldehyde per million parts of air (0.75 ppm) as an 8-hour TWA.

Short Term Exposure Limit (STEL): The employer shall assure that no employee is exposed to an airborne concentration of formaldehyde which exceeds two parts formaldehyde per million parts of air (2 ppm) as a 15-minute STEL.

FORMALDEHYDE SAMPLING RESULTS

CLIENT: Centennial School District

PROJECT NUMBER: 5-18-21214

LOCATION: Log College Middle School
730 Norristown Way
Warminster, PA

ACTIVITY: Background Air Samples

COLLECTION DATE: May 25, 2018

SAMPLE#	LOCATION/DESCRIPTION	CONCENTRATION (ppm)
MT6542	Hallway outside Room 19	0.0047
MT8464	Hallway outside Room 24	0.0061
MT8654	Hallway outside Room 22	0.0075
MT6705	Cafeteria	0.0079
MT8001	Hallway outside Room 29	0.0059
MT9229	Hallway outside Room 36	0.0062
MT9370	Nurse's Office	0.0052
MT9726	Hallway by vending machine	0.0033
MT6246	Inside Room 43	0.0095
MT9102	Inside Room 18	0.0060
MT9016	Outside sample	0.023

**EMSL Analytical - Industrial Hygiene**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800)220-3675 /

www.EMSL.com www.formaldehydetesting.comEMSL Order #: **281802385**Customer ID: **ENVI92**Customer PO: **Not Available**

Attn: **Jack Carney**
EHS Environmental, Inc.
411 Southgate Court
Suite E
Mickleton, NJ 08056

Phone: **856-224-0080**Fax: **856-224-0081**Project: **21214**Date Received: **5/25/2018**Date Analyzed: **5/30/2018***Reported Date:* 5/31/2018*Current Rev:* R0**Formaldehyde Analysis by HPLC/UV of Passive Monitoring Badges via modified NIOSH 2016, Issue 2, 3/15/03****Lab Sample #:** 281802385-0001**Sample Identification:** MT6542

Test Parameter	Sampling Time (Min)	Reporting Limit (ug)	Reporting Limit (ppm)	Sample Concentration (ug)	Sample Concentration (ppm)	Comments
Formaldehyde	1480	0.050	0.0017	0.14	0.0047	

Lab Sample #: 281802385-0002**Sample Identification:** MT8464

Test Parameter	Sampling Time (Min)	Reporting Limit (ug)	Reporting Limit (ppm)	Sample Concentration (ug)	Sample Concentration (ppm)	Comments
Formaldehyde	1464	0.050	0.0017	0.18	0.0061	

Lab Sample #: 281802385-0003**Sample Identification:** MT8954

Test Parameter	Sampling Time (Min)	Reporting Limit (ug)	Reporting Limit (ppm)	Sample Concentration (ug)	Sample Concentration (ppm)	Comments
Formaldehyde	1462	0.050	0.0017	0.22	0.0075	

Lab Sample #: 281802385-0004**Sample Identification:** MT6705

Test Parameter	Sampling Time (Min)	Reporting Limit (ug)	Reporting Limit (ppm)	Sample Concentration (ug)	Sample Concentration (ppm)	Comments
Formaldehyde	1449	0.050	0.0017	0.23	0.0079	

Lab Sample #: 281802385-0005**Sample Identification:** MT8001

Test Parameter	Sampling Time (Min)	Reporting Limit (ug)	Reporting Limit (ppm)	Sample Concentration (ug)	Sample Concentration (ppm)	Comments
Formaldehyde	1435	0.050	0.0017	0.17	0.0059	

Lab Sample #: 281802385-0006**Sample Identification:** MT9229

Test Parameter	Sampling Time (Min)	Reporting Limit (ug)	Reporting Limit (ppm)	Sample Concentration (ug)	Sample Concentration (ppm)	Comments
Formaldehyde	1434	0.050	0.0017	0.18	0.0062	

Lab Sample #: 281802385-0007**Sample Identification:** MT9370

Test Parameter	Sampling Time (Min)	Reporting Limit (ug)	Reporting Limit (ppm)	Sample Concentration (ug)	Sample Concentration (ppm)	Comments
Formaldehyde	1416	0.050	0.0017	0.15	0.0052	

Lab Sample #: 281802385-0008**Sample Identification:** MT9726

Test Parameter	Sampling Time (Min)	Reporting Limit (ug)	Reporting Limit (ppm)	Sample Concentration (ug)	Sample Concentration (ppm)	Comments
Formaldehyde	1414	0.050	0.0018	0.094	0.0033	

Lab Sample #: 281802385-0009

**EMSL Analytical - Industrial Hygiene**

200 Route 130 North, Cinnaminson, NJ 08077

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www.EMSL.com www.formaldehydetesting.com

EMSL Order #:	281802385
Customer ID:	ENVI92
Customer PO:	Not Available

Attn: **Jack Carney**
EHS Environmental, Inc.
411 Southgate Court
Suite E
Mickleton, NJ 08056

Phone: **856-224-0080**
 Fax: **856-224-0081**

Project: **21214**Date Received: **5/25/2018**Date Analyzed: **5/30/2018**Reported Date: 5/31/2018 Current Rev: R0**Formaldehyde Analysis by HPLC/UV of Passive Monitoring Badges via modified NIOSH 2016, Issue 2, 3/15/03**Sample Identification: MT6246

Test Parameter	Sampling Time (Min)	Reporting Limit (ug)	Reporting Limit (ppm)	Sample Concentration (ug)	Sample Concentration (ppm)	Comments
Formaldehyde	1401	0.050	0.0018	0.27	0.0095	

Lab Sample #: 281802385-0010Sample Identification: MT9102

Test Parameter	Sampling Time (Min)	Reporting Limit (ug)	Reporting Limit (ppm)	Sample Concentration (ug)	Sample Concentration (ppm)	Comments
Formaldehyde	1397	0.050	0.0018	0.17	0.0060	

Lab Sample #: 281802385-0011Sample Identification: MT9016

Test Parameter	Sampling Time (Min)	Reporting Limit (ug)	Reporting Limit (ppm)	Sample Concentration (ug)	Sample Concentration (ppm)	Comments
Formaldehyde	1360	0.050	0.0018	0.64	0.023	

If "Preliminary Report" is displayed in the signature box; this indicates that there are samples that have not yet been analyzed, that are in a preliminary state, or that analysis is in progress but not completed at the time of report issue.

N/A = Not Applicable

Analysts(s): tc/as

Report Date

5/31/2018

Report Revision

R0

Revision Comments

Initial Report

 Scott Van Etten, CIH, Laboratory Manager
 or other approved signatory

1. Sample were received in acceptable condition unless noted.
2. These results relate only to the sample tested.
3. Sample results are method blank corrected only. Results are not corrected for the Field Blank listed above.
4. A discernable Field Blank was submitted if listed above as a discrete sample.



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

**Industrial Hygiene
Chain of Custody**

EMSL Order Number (Lab Use Only):

281802385

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 320-3675
FAX: (856) 858-3502

Report To Contact Name: Jack F Carney Bill To Company: _____ Client ID #: _____
 Company Name: EHS Environmental Inc Attention To: _____
 Street: 5000 Street: _____ State/Province: _____ Zip/Postal Code: _____
 City: Millerton State/Province: NJ Zip/Postal Code: 08066 State/Province: _____ Zip/Postal Code: _____
 Phone: 856-224-0050 Fax: 856-224-0081 Phone: _____ Fax: _____
 Project Name: 21214 U.S. State where Samples Collected: PA
 # Samples in Shipment: 11 Date of Shipment: 10/25/18 Email Results To: _____
 Purchase Order: _____ Sampled By (Signature): Man On

Turnaround Time (TAT) - Please Check: If No Selection Made, Standard 2 Week TAT Will Apply
 2 Week 1 Week 4 Day 3 Day 2 Day 1 Day Other (Call Lab)
 Media Type: _____ Manufacturer/Part #: _____ Lot #: _____

Client Sample ID	Location/Description	Analyte / Method	Media	Flow (lpm)	Sample Time		Volume / Area	Sample Type	Sample Date	Comments
					On	Off				
MT642	Hallway outside of room 19	formaldehyde		1.0	9:50 am	10:35 am	1480	<input checked="" type="checkbox"/> Area <input type="checkbox"/> Personal	10/24/18	
MT8464	Hallway outside of room 24			1.0	10:57 am	10:31 am	1464	<input checked="" type="checkbox"/> Area <input type="checkbox"/> Personal		
MT8954	Hallway outside of room 22			1.0	10:16 am	10:32 am	1462	<input checked="" type="checkbox"/> Area <input type="checkbox"/> Personal		
MT6705	Cafeteria			1.0	10:24 am	10:33 am	1449	<input checked="" type="checkbox"/> Area <input type="checkbox"/> Personal		
MT9601	Hallway outside of room 29			1.0	10:02 am	10:37 am	1435	<input checked="" type="checkbox"/> Area <input type="checkbox"/> Personal		
MT9229	Hallway outside of room 36			1.0	10:45 am	10:31 am	1434	<input checked="" type="checkbox"/> Area <input type="checkbox"/> Personal		
MT9370	Manager's office			1.0	11:04 am	10:40 am	1406	<input checked="" type="checkbox"/> Area <input type="checkbox"/> Personal		
MT9726	Hallway bus vending machine			1.0	11:00 am	10:44 am	1414	<input checked="" type="checkbox"/> Area <input type="checkbox"/> Personal		

RECEIVED
EMSL
CINNAMINSON, N.J.
2018 MAY 25 P 1:28

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.
 Released By: Man On Date: _____
 Received By: [Signature] Date: 5-25-18

Comments:

(11)