



Pirtle Construction Company

5700 Griffin Road, Suite 200

Davie, Florid

Tel: 954.797.0410 Fax: 954.797.6330

Monday, August 16, 2010

SCHOOL BOARD OF BROWARD COUNTY 1700 SW 14th Court Ft. Lauderdale, FL 33312

Attn: Scott Hennigar

Re: PARKSIDE ELEMENTARY SCHOOL

Project No: 3631-27-01/P000680

Final Indoor Air Quality Assessment

Dear Scott:

As you are well aware, 8-classroom addition at Parkside Elementary has been unoccupied since late November of 2009 due to an apparent observed odor within the building that was deemed offensive to some of the building's occupants. Since that time, Pirtle Construction has diligently attempted to address the concerns of the staff at Parkside Elementary as well as the School Board of Broward County's Facilities and Risk Management Department. In our over 40 years of commercial construction, Pirtle Construction has never experienced a challenging situation of this nature.

Over the course of the last few months, we have worked with The School Board of Broward County (SBBC) as a team to address the concerns in the new building. We have performed IAQ Assessments and specific material testing with the help of Nutting Environmental, all of which produced negative results for contaminants within the building. Even with the negative air testing, we continued our commitment to the School Board by attempting to eliminate all potential sources of the odor.

The odor was described as a close resemblance to that of lightweight insulating concrete. In order to eliminate the potential for this as the source, we coated the entire underside of the metal deck with an elastomeric material that sealed any potential off-gassing produced by the lightweight insulating concrete from the interior of the building. We took additional steps to remove and replace the ceiling tiles throughout the building. We performed detailed investigations of the HVAC system to ensure all classrooms are receiving the proper air-flow per the approved design. All of the actions described above were performed at our expense to ensure your ultimate satisfaction with our company.

Upon completion of the above, it was requested that we again test the building utilizing a Certified Industrial Hygienist who can assess any contaminants within the building. At the





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recommendation of your Risk Management Department, we hired Enhealth Environmental, Inc. to perform another Indoor Air Quality Assessment. Attached you will find a copy of the IAQ analysis performed by Enhealth. We are pleased to inform you that the testing has produced results indicating there are no airborne contaminants within the building that could pose additional health risks to the occupants.

We are proud of the teamwork displayed by the school staff, SBBC Facilities and Risk Management as well as the Pirtle project team along with Triple M Roofing and Acousti Engineering (project subcontractors) while we worked through this challenging dilemma. We are proud of the successful relationship we continue with one of our best owners and this situation further enhances our commitment to the owner as we stand behind our work.

If you have any questions or concerns related to the information within this report, please feel free to contact me in our corporate office.

Very truly yours,

JAMES B. PIRTLE CONSTRUCTION CO., INC.

William R. Ellis Vice President

CW

enclosures (Enhealth IAQ Report dated 8/11/10)

cc: Chris Westrick, Pirtle Construction

emailed: scott.hennigar@browardschools.com



Limited Indoor Air Quality Testing

Parkside Elementary School, Coral Springs, Florida

Pirtle Construction Company 5700 Griffin Road Davie, FL 33314 Attn: Chris Westrick

Prepared By:

EnHealth Environmental, Inc. 8064 NW 124 Terrace Parkland, FL 33076

August 11, 2010

Environmental & Industrial Hygiene Services

8064 NW 124 Terrace, Parkland, Florida 33076 Telephone/Fax (954) 522-5040

www.enhealthenvironmental.com



August 11, 2010

Pirtle Construction Company 5700 Griffin Road Davie, FL 33314 Attn: Chris Westrick

Reference:

Limited Indoor Air Quality Testing

Parkside Elementary School

10257 NW 29th Street Coral Springs, FL

EHE Project No. 10-037

Dear Mr. Westrick:

Enclosed is the final report for the above referenced project.

If you have any questions concerning this project or need further assistance, please feel free to contact me at your convenience.

Sincerely yours,

EnHealth Environmental, Inc.

Litrides, MS, CIH

JSL/j

Page 1 of 5

INTRODUCTION

The School Board of Broward County requested Pirtle Construction to reassess the quality of the indoor air resulting from an objectionable odor perceived in the new 8 room classroom building at the Parkside Elementary School, located at 10257 NW 29th Street in Coral Springs, Florida. It was reported that there was a strong odor present in the school building during occupancy at the start of the 2009 school year. Indoor air quality testing was conducted by Nutting Environmental of Florida, Inc. which did not identify the source of the odor. Pirtle Construction investigated possible sources and determined that the odor may be off gassing from the lightweight insulating concrete deck. Based on their assessment, the metal deck was sealed on the interior side and Pirtle Construction contacted EnHealth Environmental, Inc. to conduct follow-up airborne testing. Review of the Nutting Environmental report "Limited Indoor Air Quality Evaluation" dated April, 2010, identified aldehydes and volatile organic compounds at measureable concentrations, therefore this assessment conducted on August 2, 2010 documented the aldehyde and volatile organic compound concentrations after the sealing of the metal deck to determine if there were any significant concentrations which may solicit complaints from the building occupants.

RECOMMENDED CRITERIA

There are currently no regulatory agencies, federal, state or local, which have set standards for acceptable levels of indoor air contaminants. Indoor air quality guidelines have been developed from governmental agencies and private professional organizations including recommendations from the Environmental Protection Agency (EPA), Housing and Urban Development (HUD), American Conference of Governmental Industrial Hygienists (ACGIH), the American Industrial Hygiene Association (AIHA), the American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. (ASHRAE), and The Leadership in Energy and Environmental Design (LEED) Green Building Rating. The following guidelines for assessing the quality of indoor air are a compilation of the above published criteria:

CONTAMINANT	GUIDELINES
Organic Vapors	500 ug/m3 (LEE

500 ug/m3 (LEED-NC, v2.2-2007)

<300 ug/m3 (<0.3 mg/m3) - Complaints unlikely

300-3,000 ug/m3 (0.3-3.0 mg/m3) - Complaints possible

>3,000 ug/m3(>3.0 mg/m3) - Complaints likely

(ASHRAE 62-1989R)

Note: ASHRAE 62.1-2004 does not recommend setting target

concentrations for TVOC.

0.4 ppm target ambient level, HUD standard for manufactured Formaldehyde

Homes, HUD 24 CFR 3280.308 (1984)

0.05 ppm LEED-NC.2007 v2.2; LEED-EB.2005 v2.0

0.027 ppm LEED-NC.2009 v3.0

OSHA and ACGIH see chart Aldehydes



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Total volatile organic compound (TVOC) sampling for exposure to indoor chemical contaminants is useful when there is no specific chemical source such as typically found in industrial settings. However, there is insufficient evidence that TVOC measurements can be used to predict health or comfort effects because odor and irritation responses to organic compounds are highly variable between individuals. Usually, the TVOC measurements identify potential chemicals which may be contributing to the overall indoor air quality and may warrant further testing for target chemical concentrations. Therefore, ASHRAE does not recommend setting target concentrations for TVOC's and only in the ASHRAE 62-1989R document does ASHRAE suggest concentration ranges which may solicit complaints. Leadership in Energy and Environmental Design (LEED) Green Building Rating establishes new building criteria for TVOC's which may be used as a target goal for indoor air quality assessments.

Formaldehyde is a common indoor air contaminant which by inhalation exposure can result in eye, nose, and throat irritation, respiratory symptoms, and sensitization. It is frequently used in plywood, fiberboard, resins, glues, carpet adhesives, and several other construction components. Because of the materials used in manufactured homes, HUD has set an ambient air level which should not be exceeded. Other guidelines and standards have been published by OSHA, NIOSH, ACGIH, which are governmental agencies for industrial exposures, and the WHO/Europe for the general public.

The Occupational Safety and Health Administration (OSHA) has set Permissible Exposure Limits (PEL) for a number of air contaminants in the Code of Federal Regulations for Labor and Industry (29 CFR 1910.1000). The PEL's are based upon an 8-hour Time Weighted Average (TWA) concentration. An employees' exposure to a substance for an 8-hour work shift of a 40-hour work week should not exceed the 8-hour TWA PEL for that substance. Ceiling levels are concentrations that should not be exceeded during any part of the working exposure.

The Threshold Limit Values (TLV) are health-based values that are established by committees that review existing published and peer-reviewed literature in various scientific disciplines. Based off the available information, American Conference of Governmental Industrial Hygienists (ACGIH) formulates a conclusion on the level of exposure that the typical worker can experience without adverse health effects. TLVs represent conditions under which ACGIH believes that nearly all workers may be repeatedly exposed without adverse health effects.

Both the OSHA Standards and ACGIH guidelines are developed for evaluating potential employee exposures in industrial environments and are not intended for non-industrial environments, therefore interpretation of the measured concentrations must be viewed with caution when compared to values established by OSHA and/or ACGIH. They may provide some usefulness, however, in non-industrial environments when used by a professional Industrial Hygienist to reference a target value. Some scientists have suggested a safety factor of 10 or 100 be applied to the OSHA PEL or ACGIH TLV when used in non-industrial environments although this practice has not been validated.



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The etiology of indoor air quality is not totally understood. A wide variety of low level air contaminants have been detected in buildings, but their significance is not clear, and while most of the contaminants in office air are below accepted standards, their synergistic health effects are virtually unknown.

SAMPLING METHODOLOGY

The samples for total volatile organic compounds (TVOC) were collected by drawing ambient air through 1 Liter mini-canisters and analyzed by Gas Chromatography in accordance with EPA Modified Method TO-15. The samples were screened for the 61 compounds in the EPA Priority Pollutant List.

Air samples for aldehydes were collected by passive sampling in accordance with the National Institute of Occupational Safety and Health (NIOSH) Method No. 2016 Modified. Air passes through a passive dosimeter, ChemDisk Personal Sampler (Aldehyde), containing a fiberglass disk impregnated with the reagent dinitrophenylhydrazine (DNPH) which adsorbs the aldehyde. The badge is analyzed for multiple components by High Pressure Liquid Chromatography (HPLC) ultraviolet light (UV) to include all aldehydes.

The aldehyde samples were analyzed by EMSL Analytical, Inc. located in Westmont, New Jersey. The TVOC samples were analyzed by Galson Laboratories located in East Syracuse, New York. EMSL Analytical, Inc. and Galson Laboratories are American Industrial Hygiene Association (AIHA) accredited laboratories and successfully participate in the NIOSH/AIHA Proficiency Analytical Testing (PAT) program.

RESULTS AND DISCUSSION

The laboratory results of the baseline survey are attached. The following table summarizes the results collected on August 2, 2010 of the various parameters measured in the selected areas.

Aldehyde		Location		Exposure C	Guidelines
	Room 313	Hallway	Room 320	OSHA PEL* (ppm)	ACGIH TLV (ppm)
	Sample	Concentrati	on (ppm)		
Formaldehyde	0.15	0.10	0.10	0.75 (1910.1048)	0.3 C
Acetaldehyde	0.010	ND	ND	200	25 C
Acrolein	ND	ND	ND	0.1	0.1 C
Acetone	0.049	0.025	ND	1,000	500
Propionaldehyde	ND	ND	ND		20
Butylaldehyde	ND	ND	ND		25 (WEEL)
Benzaldehyde	0.0069	0.0030	ND		2 (WEEL)
Crotonaldehyde	ND	ND	ND	2	0.3 C

ND denotes Not Detected



*OSHA 29 CFR 1910.1000 (Table Z-1)

AIHA WEEL - Workplace Environmental Exposure Level

ACGIH Ceiling (C) - The concentration that should not be exceeded during any part of the working exposure.

Volatile Organic Compound (VOC)		Location		Exposure	Guidelines
	Room 313	Hallway	Room 320	OSHA PEL* (ppm)	ACGIH TLV (ppm)
	Sample	Concentrati	on (ppm)		
Isopropyl Alcohol	0.022	0.055	0.035	400	200
Acetone	0.014	0.020	0.014	1,000	500
Toluene	0.074	0.026	0.0092	200	20

The samples for selected volatile organic compounds did not identify any significant concentrations of chemicals at or above the detection limit which would be expected to solicit complaints. Very low concentrations of isopropyl alcohol, acetone, and toluene were detected which are commonly found in cleaning agents and solvents.

The samples for aldehydes did not identify any significant concentrations of chemicals at or above the detection limit which would be expected to solicit complaints. Low levels of formaldehyde were reported as less than 0.2 ppm in the areas tested which is below the 0.4 ppm target ambient level suggested by HUD therefore occupant complaints are unlikely. When compared to the LEED target criteria, the formaldehyde levels were slightly elevated although not significant. It should be noted that the HUD target criteria is established for home occupancy whereas the LEED criteria is a target level to be achieved after new construction prior to occupancy of office buildings.

Volatile organic compounds (VOCs) are emitted as gases from certain solids or liquids. VOCs include a variety of chemicals, some of which may have short and long term adverse health effects. Concentrations of many VOCs are consistently higher indoors (up to ten times higher) than outdoors. VOCs are emitted by a wide array of products numbering in the thousands. Examples include: paints and lacquers, paint strippers, cleaning supplies, pesticides, building materials and furnishings, office equipment such as copiers and printers, correction fluids and carbonless copy paper, graphics and craft materials including glues and adhesives, permanent markers, and photographic solutions.

Organic chemicals are widely used as ingredients in household products. Paints, varnishes, and wax all contain organic solvents, as do many cleaning, disinfecting, cosmetic, degreasing, and hobby products. Fuels are made up of organic chemicals. All of these products can release organic compounds while you are using them, and, to some degree, when they are stored.



Pirtle Construction Parkside Elementary School Coral Springs, FL

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It is important to recognize that the results of our tests represent conditions only at the time the observation, collection or sampling occurred. Thus, this report should not be relied on to represent conditions at other locations, times, or dates and does not imply the space is free of other contaminates. In addition, changes in equipment operational characteristics, changes in air velocity, maintenance procedures, and many other factors can have a significant effect on the particle distribution associated with indoor air quality (IAQ). Maintaining acceptable IAQ is an ongoing effort and must be continually monitored to be effective.

CONCLUSION

The results, when compared to the referenced guidelines for indoor air quality, obtained August 2, 2010 in the new 8 room classroom building at the Parkside Elementary School, located at 10257 NW 29th Street in Coral Springs, Florida suggest that the indoor air quality parameters measured are in agreement with the referenced ASHRAE, A1HA, ACGIH, HUD, and OSHA guidelines. Based on the results of the data obtained from the indoor air quality parameters measured on August 2, 2010, it is our opinion based on our experience and certifications that the sample concentrations for volatile organic compounds and aldehydes did not identify any significant chemical concentrations which would be expected to solicit complaints and there is no increased health risk to the occupants.

Limitations: This report was prepared in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions. This report was prepared for the exclusive use of the client and assigned agents and is not intended for any other purposes. Our report is based on the information available to us at the time of our investigation and limited in scope to the stated purpose and/or the areas inspected. Other conditions elsewhere in the subject building(s) may differ from those in the inspected/surveyed locations and such conditions are unknown, may change over time and have not been considered. This report does not claim to identify all potential hazards and/or contaminants that may be present, nor does it imply any medical opinion on the relationship of potential health effects with any reported hazards and/or contaminants. Our opinions are based on our findings and upon professional expertise with no warranty or guarantee implied herein. The data obtained in this report does not establish the habitability of the building(s) nor does it determine if a building is safe or unsafe. Should additional information become available, we reserve the right to determine the impact, if any, of the new information on our opinions, conclusions, and recommendations, and to revise our opinions, conclusions, and recommendations if necessary as warranted by the discovery of the additional information. EnHealth Environmental, Inc. accepts no responsibility for interpretation of this report by others. Its contents shall not be used or relied upon by other parties without prior written authorization of EnHealth Environmental, Inc.





APPENDIX A Analytical Results



LABORATORY ANALYSIS REPORT

6601 Kirkville Road East Syracuse, NY 13057

(315) 432-5227 FAX: (315) 437-0571 www.galsonlabs.com

: EnHealth Environmental Client

: NS Site Project No. : 010-037

Account No.: 21608 Date Sampled : 03-AUG-10 Login No. : L220312 Date Received : 04-AUG-10 : ppbv Units Date Analyzed : 08-AUG-10

Report ID : 657708

Galson ID: Client ID:	LOQ ppbv CAN	L220312-1 WA485 REG WR389	L220312-2 CAN WA693 REG WR383	L220312-3 CAN WA692 REG WR439
	5.0	<5.0	<5.0	<5.0
Propylene	5.0	<5.0	<5.0	<5.0
Freon-12	5.0	<5.0	<5.0	<5.0
Chloromethane	5.0	<5.0	<5.0	<5.0
Freon-114	5.0	<5.0	<5.0	<5.0
Vinyl Chloride	5.0	<5.0	<5.0	<5.0
1,3-Butadiene	5.0	<5.0	<5.0	<5.0
Bromomethane	5.0	<5.0	<5.0	<5.0
Chloroethane	5.0	<5.0	<5.0	<5.0
Vinyl Bromide	5.0	<5.0	<5.0	<5.0
Freon-11	5.0	35	55	22
Isopropyl Alcohol	5.0	14	20	14
Acetone	5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	5.0	<5.0	<5.0	<5.0
Methylene Chloride	5.0	<5.0	<5.0	<5.0
Freon-113	5.0	<5.0	<5.0	<5.0
Allyl Chloride	10	<10	<10	<10
Carbon Disulfide	5.0	<5.0	<5.0	<5.0
Trans-1,2-Dichloroethene	5.0	<5.0	<5.0	<5.0
Methyl Tert-Butyl Ether	5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	5.0	<5.0	<5.0	<5.0
Vinyl Acetate		<5.0	<5.0	<5.0
Methyl Ethyl Ketone	5.0	∠5 O	<5.0	<5.0
cis-1,2-Dichloroethylene COMMENTS: Please see atta	5.0 ched lab	footnote report f	or any applicable foo	tnotes.

Analytical Method : mod.OSHA PV2120/EPA TO15

Collection Media : Mini Can

Submitted by: kaw Approved by : rjw

Date : 10-AUG-10 NYS DOH # : 11626

QC by : Karen Becker

> -Less Than MG -Milligrams
> -Greater Than UG -Micrograms
NA -Nor Applicable ND -Not Detected
NS -Nor Specified KG -Kilograms

M3 -Cubic Meters

L -Liters

ppbv-Parts per Billion Volume LOQ -Level of quantitation



LABORATORY ANALYSIS REPORT

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: EnHealth Environmental Client

: NS Site Project No. : 010-037

Account No.: 21608 Date Sampled : 03-AUG-10 Login No. : L220312 Date Received: 04-AUG-10 : ppbv Units Date Analyzed: 08-AUG-10

Report ID : 657708

Galson ID: Client ID:	LOQ ppbv CAN	L220312-1 WA485 REG WR389	L220312-2 CAN WA693 REG WR383	L220312-3 CAN WA692 REG WR439
	5.0	<5.0	<5.0	<5.0
Hexane	5.0	<5.0	<5.0	<5.0
Ethyl Acetate	5.0	<5.0	<5.0	<5.0
Chloroform	5.0	<5.0	<5.0	<5.0
Tetrahydrofuran	5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	5.0	<5.0	<5.0	<5.0
1,1,1-Trichloroethane	5.0	<5.0	<5.0	<5.0
Cyclohexane	5.0	< 5.0	<5.0	<5.0
Carbon Tetrachloride	5.0	<5.0	<5.0	<5.0
Benzene	20	<20	<20	<20
1,4-Dioxane	5.0	<5.0	<5.0	<5.0
2,2,4-Trimethylpentane	5.0	<5.0	<5.0	<5.0
Heptane	5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	5.0	<5.0	<5.0	<5.0
Trichloroethylene	5.0	<5.0	<5.0	<5.0
Bromodichloromethane	5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene		<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	5.0	9.2	26	74
Toluene		<5.0	<5.0	<5.0
Dibromochloromethane	5.0 20	<20	<20	<20
Methyl Isobutyl Ketone		<20	<20	<20
Methyl Butyl Ketone	20	<5.0	<5.0	<5.0
1,2-Dibromoethane COMMENTS: Please see attac	5.0 ched lab	footnote report f		tnotes.

Analytical Method : mod.OSHA PV2120/EPA TO15

Collection Media : Mini Can

Submitted by: kaw Approved by : rjw

Date: 10-AUG-10 NYS DOH 1: 11626

QC by : Karen Becker

M3 -Cubic Meters MG -Milligrams < -Less Than L -Liters

ppbv-Parts per Billion Volume LOQ -Level of quantitation KG -Kilograms NS -Not Specified



LABORATORY ANALYSIS REPORT

6601 Kirkville Road

East Syracuse, NY 13057

(315) 432-5227 FAX: (315) 437-0571 www.galsonlabs.com

: EnHealth Environmental Client

: NS Site Project No. : 010-037

Account No.: 21608 Date Sampled : 03-AUG-10 Login No. : L220312 Date Received : 04-AUG-10 : ppbv Units Date Analyzed: 08-AUG-10

Report ID : 657708

Galson ID: Client ID:	LOQ ppbv CAN	L220312-1 WA485 REG WR389	L220312-2 CAN WA693 REG WR383	L220312-3 CAN WA692 REG WR439
	5.0	<5.0	<5.0	<5.0
Tetrachloroethylene	5.0	<5.0	<5.0	<5.0
Chlorobenzene	5.0	<5.0	<5.0	<5.0
Ethylbenzene	5.0	<5.0	<5.0	<5.0
Bromoform	_	<10	<10	<10
n & p-xylene	10	<5.0	<5.0	<5.0
Styrene	5.0	<5.0	<5.0	<5.0
o-Xylene	5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	5.0		<5.0	<5.0
4-Ethyltoluene	5.0	<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene	5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	5.0	<5.0	<5.0	< 5.0
Benzyl Chloride	5.0	<5.0		<5.0
l,4-Dichlorobenzene	5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	5.0	<5.0	<5.0	73.0

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Analytical Method : mod.OSHA PV2120/EPA TO15

Collection Media : Mini Can

Submitted by: kaw Approved by : rjw

Date : 10-AUG-10 NYS DOH # : 11626

QC by : Karen Becker

< -Less Than

NS -Not Specified

MG -Milligrams

M3 -Cubic Meters

L -Liters

ppbv-Parts per Billion Volume LOQ -Level of quantitation



LABORATORY FOOTNOTE REPORT

Client Name : EnHealth Environmental

Site

Project No. : 010-037

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

www.galsonlabs.com

Account No.: 21608 Login No. : L220312 Date Sampled : 03-AUG-10 Date Received: 04-AUG-10 Date Analyzed: 08-AUG-10

Unless otherwise noted below, all quality control results associated with the samples were within established control limits.

Unrounded results are carried through the calculations that yield the final result and the final unrounced results are carried through the calculations that yield the their 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 preceeding the final result column may have been rounded in order to fit the report format and therefore, if carried through the calculations, may not yield an identical final result to the one reported.

The stated LOOs for each analyte represent the demonstrated LCQ concentrations prior to correction for description efficiency (if applicable).

L220312 (Report ID: 657708):

SOPs: in-vocs(14)

-Less Than -Greater Than NA -Not Applicable mg -Milligrams ug -Micrograms ND -Not Detected m3 -Cubic Meters 1 -!.iters

kg -Kilograms NS -Not Specified

ppm -Parts per Million

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			148	LAB ORIGINAL				1	



EMSL Analytical, Inc. 200 Route 130 North, Cinnaminson, NJ 08077

Order ID: 281001248

Jim Litrides Attn:

Enhealth Environmental, Inc.

8064 Northwest 124 Terrace

Parkland, FL 33076

954-522-4611

Fax: 010-037 Project:

08/09/10 Report Date:

ENHE50 Customer ID:

Customer PO:

Date Received:

08/04/10 9:10 AM

EMSL Order:

281001248

EMSL Project ID:

Date Analyzed:

08/05/10

Test Report - Multiple Component Analysis by HPLC/UV of Passive Monitoring Badges via Mod. NIOSH 2016 (to include all aldehydes), Issue 2, 3/15/03

Sample ID	Location	Component	Sampling Volume (minutes)	Report Limit (ug)	Report Limit (PPM)	Sample Conc. (ug)	Sample Conc. (PPM)
3H10-HD1938	Room 313	Formaldehyde	380	0.050	0.0081	0.91	0.15
281001248-0001		Acetaldehyde	380	0.050	0.0055	0.095	0.010
3H10-HD1938	Room 313		380	0.050	0.0043	ND_	ND
3H10-HD1938	Room 313	Acrolein	380	0.050	0.0042	0.59	0.049
3H10-HD1938	Room 313	Acetone	380	0.050	0.0042	ND	ND
3H10-HD1938	Room 313	Propionaldehyde		0.050	0.0034	ND	ND
3H10-HD1938	Room 313	Butylaldehyde	380	0.050	0.0023	0.15	0.0069
3H10-HD1938	Room 313	Benzaldehyde	380	0.050	0.0035	ND	ND
3H10-HD1938	Room 313	Crotonaldehyde	380	0.030	0.0055		
3H10-HD2379	Hallway	Formaldehyde	380	0.050	0.0081	0.63	0.10
281001248-0002		i dililinda	380	0.050	0.0055	ND	ND_
3H10-HD2379	Hallway	Acetaldehyde	380	0.050	0.0043	ND	ND_
3H10-HD2379	Hallway	Acrolein		0.050	0.0042	0.29	0.025
3H10-HD2379	Hailway	Acetone	380	0.050	0.0042	ND	ND
3H10-HD2379	Haliway	Propionaldehyde	380	0.050	0.0034	ND	ND
3H10-HD2379	Haliway	Butylaldehyde	380		0.0023	0.066	0.0030
3H10-HD2379	Hallway	Benzaldehyde	380	0.050	0.0025	ND	ND
3H10-HD2379	Hallway	Crotonaldehyde	380	0.050	0.0033	1 190	

- 1. Samples were received in acceptable condition unless otherwise noted.
- These results relate only to the samples tested.
- Sample results are blank corrected. 3.
- Discernable blank(s) not submitted with samples.
- ND denotes Not Detected.

Alexis Willey Analyst

Or other approved signatory



EMSL Analytical, Inc. 200 Route 130 North, Cinnaminson, NJ 08077

281001248 Order ID:

Attn:

Jim Litrides

Enhealth Environmental, Inc.

8064 Northwest 124 Terrace

Parkland, FL 33076

Fax:

954-522-4611

Project: Report Date: 010-037

08/09/10

ENHE50 Customer ID:

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Date Received:

08/04/10 9:10 AM

EMSL Order:

281001248

EMSL Project ID:

Date Analyzed:

08/05/10

Test Report - Multiple Component Analysis by HPLC/UV of Passive Monitoring Badges via Mod. NIOSH 2016 (to include all aldehydes), Issue 2, 3/15/03

Sample ID	Location	Component	Sampling Volume (minutes)	Report Limit (ug)	Report Limit (PPM)	Sample Conc. (ug)	Sample Conc. (PPM)
5F10-HG4430	Room 320	Formaldehyde	330	0.050	0.0093	0.55	0.10
281001248-0003		Acetaldehyde	330	0.050	0.0064	ND	ND
5F10-HG4430	Room 320	Acrolein	330	0.050	0.0050	ND	ND
5F10-HG4430	Room 320		330	0.050	0.0048	ND	ND_
5F10-HG4430	Room 320	Acetone	330	0.050	0.0048	ND	ND _
5F10-HG4430	Room 320	Propionaldehyde	330	0.050	0.0039	ND	ND
5F10-HG4430	Room 320	Butylaldehyde	330	0.050	0.0026	ND	ND
5F10-HG4430	Room 320	Benzaldehyde	330	0.050	0.0040	ND	ND
5F10-HG4430	Room 320	Crotonaldehyde	330	0.050			
		Formaldehyde		0.050	N/A	ND	N/A
Desportion Blank		Acetaldehyde	Ö	0.050	N/A	ND	N/A
		Acrolein	0	0.050	N/A	ND	N/A
	<u> </u>	Acetone	0	0.050	N/A	ND	N/A
		Propionaldehyde	0	0.050	N/A	ND	N/A
			0	0.050	N/A	ND	N/A
		Butylaldehyde	1 0	0.050	N/A	ND	N/A
		Benzaldehyde Crotonaldehyde	0	0.050	N/A	ND	N/A

Notes:

- Samples were received in acceptable condition unless otherwise noted.
- These results relate only to the samples tested. 2.
- Sample results are blank corrected.
- Discernable blank(s) not submitted with samples.
- ND denotes Not Detected

Alexis Willey Analyst

Or other approved signatory

Industrial Hygiene

Chain of Custody

EMSL Order Number (Lab Use Only):

EMSL ANALYTICAL INC. 200 RC JTC 130 N.C. (C. NN.ANINCLA, NJ. 36077 P.C.) NG 858-4800 FAV. 1561786-0380
--

Report To Contact Name: Jim Litrides Bill To Company:	Atention To: Number of Samples in Shipment:	Address 1: 8/3/10	O / I I I T/ 77076 Address 2: L.S. State where Samples Collected: I'C		Phone:	Email Results To: enhealth @ concast. net Project Name: 010-037	Media Type:	Unmaround Illie	4 Day 2 Day	Ż.	Media Analyte / Method Volume Date/Time Location Comments	6/2	Aldehyde Scan	Aldolude Scan 8/3/10 8/30-2:30 Hallway	41:11 SCC 18/2/ 8:32-2:04 Roan 320	Nidenyar Jan				5 · · · · · · · · · · · · · · · · · · ·
 lact Name: Jim	FrHealth	451 CM 430	2 11 1	מרגומא	Phone: (954/57) -5040 Fax:	To: enhea 196		I urnaround # 11	- Meek	Š	Media		3410-401938; Cha-015k		+	SFIG-HEWSO CHELDISK	 <u></u> -			

Date 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. Received By Date

		017-8			
	8/3/10	AND-CX-			
Released BV	7			Comments:	



APPENDIX B Certifications



organized to improve the practice of industrial hygiene proclaims that

James S. Litrides

having met all requirements through education, experience and examination, is hereby certified in the

comprehensive practice of industrial hygiene

and has the right to use the designations

CERTIFIED INDUSTRIAL HYGIENIST

CIH

Certificate Number: 3611 CP

Awarded:

July 20, 1987

Expiration Date:

June 1, 2015

Chair ABIH

Executive Director ABIH

The · American Board of Industrial Hygiene® **ABIH®**

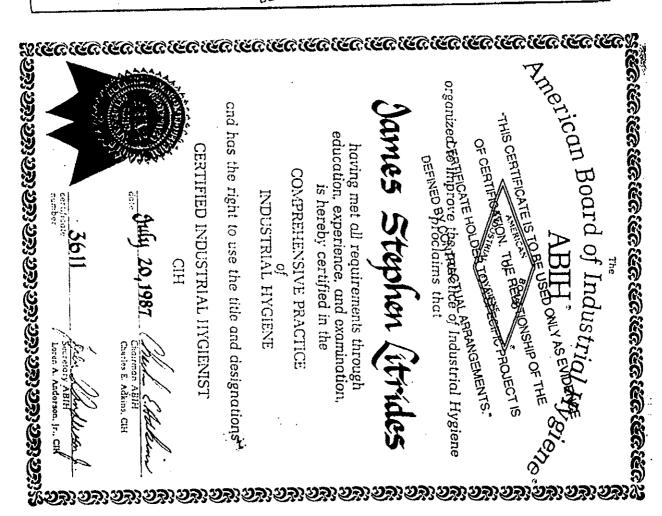


James S. Litrides, CIH

Diplomate of the American Board of Industrial Hygiene, has successfully met the requirements, including examination, in the industrial hygiene sub-specialty of

Indoor Environmental Quality

THIS CERTIFICATE IS TO BE USED ONLY AS EVIDENCE OF CERTIFICATION. THE RELATIONSHIP CONT. July 7, 1999 Date CERTIFICATE HOLDER TO A SPECIFICE DEFINED BY CONTRACTUAL ARRANGEMENTS BIN CP 3611 Diplomate Certificate Number(s)



hereby certifies that

James S. Litrides

has met all the specific standards and qualifications of the re-certification process, including continued professional development, and is hereby re-certified as a

Indoor Environmental Consultant Council-certified





Charles F. Wiles, Executive Director

Certificate Mumber