

Fairfield Public Schools
Fairfield, CT 06825

TO: Dr. David Title and Members of the Board of Education

FROM: Thomas P. Cullen

DATE: March 2, 2012

RE: FLHS Window Replacement Project
PCB testing of two classrooms **"Results"**

This letter is to notify you that the Fairfield Public School district has received the laboratory results for the Polychlorinated Biphenyl (PCB) testing of two classrooms at the Fairfield Ludlowe High School. The testing performed in classrooms 203 and 220 was scheduled and performed on Saturday, February 11, 2012. I am happy to report at this time that the air sampling did not document the presence of any PCBs in the air and the wipe tests documented results below the actionable level per state regulations.

All results are posted on the Fairfield Public Schools website. The central office administration and the FLHS administrator will keep PCB test reports on file per State regulations.

If you have any questions or concerns regarding the PCB testing, please feel free to contact me at (203) 255-8373.

Thank you.

c: Beverly Dyer
Central Office Administration
Sands Cleary



ENVIRONMENTAL, LLC

February 29, 2012

Mr. Tom Cullen
Fairfield Public Schools
501 Kings Highway East
Fairfield, CT 06824

RE: PCB Air and Wipe Sampling at Fairfield Ludlowe High School, Fairfield, CT

Dear Mr. Cullen:

INTRODUCTION

AMC Environmental was retained to obtain initial PCB in air samples and PCB wipe samples from two (2) rooms from Fairfield Ludlowe High School in Fairfield on February 11 & 12, 2012. The sampling was obtained from the areas where materials with the highest PCB concentrations were previously identified during the initial bulk sample inspection associated with the anticipated window replacement project (see report dated October 21, 2011). These areas pose the greatest potential for direct exposure and release of PCB contaminants into the environment by way of air, dust, or soil.

BACKGROUND

Polychlorinated Biphenyl (PCB)

Polychlorinated biphenyls (PCBs) are a group of chemicals that contain 209 individual compounds (known as congeners) with varying harmful effects. The U.S. Environmental Protection Agency (EPA) treats all PCBs as being potentially hazardous based on results from some formulations. However, this can have large uncertainty for any given mixture situation. PCBs were domestically manufactured from 1929 until their manufacture was banned in 1979. They have a range of toxicity and vary in consistency from thin, light-colored liquids to yellow or black waxy solids. Due to their non-flammability, chemical stability, high boiling point, and electrical insulating properties, PCBs were used in hundreds of industrial and commercial applications including electrical, heat transfer, and hydraulic equipment; as plasticizers in paints, plastics, and rubber products; in pigments, dyes, and carbonless copy paper; and many other industrial applications. For this project, initial PCB samples were tested in caulks and window glazings throughout the building.

PCBs are no longer produced or used in the United States today; the major source of exposure to PCBs today is the redistribution of PCBs already present in soil and water. Chronic (long-term) exposure to some PCB formulations by inhalation in humans results in respiratory tract symptoms, gastrointestinal effects, mild liver effects, and effects on the skin and eyes such as chloracne, skin rashes, and eye irritation. Epidemiological studies indicate an association between dietary PCB exposures and developmental effects. Human studies provide inconclusive, yet suggestive, evidence of an association

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between PCBs exposure and cancer. Animal studies have reported an increase in liver tumors in rats and mice exposed orally to all tested PCB formulations. EPA has classified PCBs as a Group B2, probable human carcinogen.

PCB Air Samples

Public Health Levels for PCBs in Indoor School Air

The U.S. EPA has calculated prudent public health levels that maintain PCB exposures below the "reference dose" – the amount of PCB exposure that EPA does not believe will cause harm. EPA's reference dose (RfD) is 20 ng PCB/kg body weight per day. Indoor air levels are based upon EPA's understanding of average exposure to PCBs from all other major sources, and were calculated for all ages of children from toddlers in day-care to adolescents in high school as well as for adult school employees.

In calculating these indoor air levels, EPA considered potential sources of PCB exposure from both school and non-school environments. Non-school sources of PCB exposure include both indoor and outdoor air, indoor dust, outside soils, and diet. Although the concentrations of PCBs in environmental media are not well characterized, mean or median values from the scientific literature, and average contact rates, were used to estimate exposure. For non-school sources, the largest single source of PCB exposure for most individuals in uncontaminated buildings is diet, which contributes roughly 50 to 60% to total PCB exposure. Typical indoor and outdoor air contains a small amount of PCBs, and inhalation exposure accounts for another 25 to 35% of total exposure. Together, these non-school sources of PCBs generally result in exposures that are significantly below the reference dose. In addition, it is worth noting that the PCB concentrations in food have been decreasing and this trend would further decrease exposure.

School sources of PCBs that were considered include school indoor and outdoor air, indoor dust, and nearby outside soils. In calculating these public health levels for indoor air in schools, EPA assumed that the PCB concentrations in dusts and soils in and around schools were the same as in average homes or other buildings without elevated PCBs. EPA also assumed an 8-hour school day for adults and children less than 3 years old, and a 6.5 hour school for all other children. EPA also assumed children would be in school 180 days per year. Using estimates of exposure for sources except indoor air in schools, EPA calculated the school indoor air PCB concentration that would result in a total exposure equal to the reference dose. These calculated indoor air concentrations are the air concentration values provided in the table below.

EPA recommends that the concentrations of PCBs in indoor air be kept as low as is reasonably achievable and that total PCB exposure be kept below the reference dose level. The concentration values provided in the table below are based upon average situations. Spending less time in schools would decrease school exposure and cause the values to be higher. Spending more time in schools would have the opposite effect and would decrease the values. PCB concentrations in outdoor soils, indoor dusts, or indoor surfaces greater than those in background, non-school environments would suggest that exposure sources other than air in schools increase total exposure and, therefore, would decrease these air concentration values.

Public Health Levels of PCB's in School Indoor Air (ng/m3)						
Assuming a background scenario of no significant PCB contamination in building materials and average exposure from other sources, these concentrations should keep total exposure below the reference dose of 20 ng PCB/KG-day.						
Age 1-<2 yr	Age 2-<3 yr	Age 3-<6 yr	Age 6-<12 yr Elementary School	Age 12<15 yr Middle School	Age 15-<19 High School	Age 19 + yr Adult
70	70	100	300	450	600	450

PCB Air Sampling

- A. Carefully remove the clean sample cartridge from the aluminum foil wrapping (the foil is returned to jars for later use) and attached to the pump with flexible tubing. The sampling assembly is positioned with the intake downward or in horizontal position. Locate the sampler in an unobstructed area at least 30 meters from any obstacle to air flow. The PUF or PUF/XAD-2 cartridge intake is positioned 1 to 2 m above ground level. Cartridge height above ground is recorded on the Compendium Method TO-10A field test data sheet (FTDS), as illustrated in Figure 5.
- B. After the PUF cartridge is correctly inserted and positioned, the power switch is turned on and the sampling begins. The elapsed time meter is activated and the start time is recorded. The pumps are checked during the sampling process and any abnormal conditions discovered are recorded on the FTDS. Ambient temperatures and barometric pressures are measured and recorded periodically during the sampling procedure on the FTDS. For this project, a low flow sampling pump was calibrated using a low flow rotometer. The samples were run at 2.5 liters per minute for a period of approximately 24 hours.
- C. At the end of the desired sampling period, the power is turned off, the PUF cartridge removed from the sampler and wrapped with the original aluminum foil and placed in a sealed, labeled container for transport, under blue ice (<4°C), back to the laboratory. Post calibration is conducted and recorded.

PCB Wipe Samples

AMC carefully obtained PCB wipe samples from Rooms 203 and 220. The greatest concentration (<50) of caulk and glazings were identified in these rooms, therefore was deemed a priority for further assessment. Non-porous surface samples were collected on the floors and window sills from each of these rooms to determine if surface contamination is present, and if so, at what levels. A standard wipe test as specified in 40CFR 761.123 uses a 10x10 cm template (or equivalent) to outline the sample area and a gauze pad to

be saturated with Hexane to collect the sample. The Hexane saturated wipe is used to thoroughly wipe the area inside the 100 cm² template. The wipe media is then inserted into a 6 ounce sterilized glass jar and refrigerated until delivered to the lab. The sample analysis used for this process is the SOXHLET 8040 method.

The following lists the sampling procedure followed:

An Example of a Wipe Sampling Procedure

- a) Ensure that the exact sampling site has been marked to a 100 cm² surface area.
- b) With gloved hands, remove the cap from the sampling vial. A 6 ounce sterilized glass jar was used for the sample jar.
- c) With the forceps, remove the gauze from the sampling vial.
- d) From a solvent bottle, use the volumetric delivery device or fill a graduated cylinder with 5 milliliters of solvent to the gauze. The solvent used in this procedure was Hexane.
- e) Immediately begin applying the gauze using a gloved hand and, applying pressure, wipe the marked area completely twice, from left to right and then from top to bottom.
- f) Let the gauze air dry.
- g) Fold the dry gauze (sampled side inward) and return it to the sample vial.
- h) Cap the sample vial.
- i) Remove and discard the gloves.
- j) Label the vial and fill out sampling details on the sampling forms.
- k) Fill out chain of custody forms and prepare the sample for storage and shipping.

RESULTS

Air Samples

Results of the PCB in air samples obtained from Room 203, Room 220 and the Corridor did not document the presence of any PCBs in the air. Therefore Room 203, Room 220 and the Corridor are **acceptable and under the PCB in air in school threshold of 20 ng of PCB/kg a day.**

Wipe Samples

Results of the PCB in wipe samples obtained from the floor and window sills in Room 203 and Room 220 documented results below the actionable level of 10 ug/cm² and therefore are **acceptable**. Room 203 had detectable levels of PCBs (1.6 ug/cm²), however the concentrations were significantly lower than the 10ug/cm² threshold.

CONCLUSION

Overall, the samples obtained documented no presence of airborne PCB in Room 220 and 203 and the Corridor. The PCB dust wipe sampling documented no PCBs or PCBs well below the 10 ug/cm² threshold within the areas tested. Therefore all sample results for February 11, 2012 are considered to be acceptable. The testing was limited and restricted to only two rooms within the building. This included Rooms 220 and 203. Moving forward, a full assessment of the various homogeneous window caulking and glazing should be administered to assess all potential hazards that may be present within the building. AMC is prepared to conduct a comprehensive inspection of existing building materials and surrounding substrates and soils to accurately identify the location and extent of PCB and PCB contamination that may be present. At minimum, ongoing surveillance and monitoring of surfaces should be administered until a more permanent solution can be developed.

Very truly yours,



Richard Onofrio
Environmental Consultant

RO:so

Enclosure

References: www.epa.gov/epawaste/hazard/tsd/pcbs/index.htm
www.epa.gov/epawaste/hazard/tsd/pcbs/pubs/about.htm

Laboratory Results – PCB Air Samples



Monday, February 20, 2012

AMC Environmental
PO Box 423
Stratford, CT 06497

Project ID: LUDLOW HS FAIRFIELD
Sample ID#s: BB42958 - BB42960

This laboratory is in compliance with the QA/QC procedures outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, SW846 QA/QC and NELAC requirements of procedures used.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "Phyllis Shiller".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

February 20, 2012

FOR: AMC Environmental
PO Box 423
Stratford, CT 06497

Sample Information

Matrix: AIR
Location Code: AMCENV
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time
02/11/12 0:00
02/13/12 16:36

Laboratory Data

SDG ID: GBB42958
Phoenix ID: BB42958

Project ID: LUDLOW HS FAIRFIELD

Client ID: PCB AIR-01/RM 203

Parameter	Result	RL	Units	Date	Time	By	Reference
Extraction for PCB for Puff samples	Completed			02/13/12		BB/K	SW3540C 1
Polychlorinated Biphenyls							
PCB-1016	ND	0.05	ug/m3	02/14/12		MH	EPA TO-10A
PCB-1221	ND	0.05	ug/m3	02/14/12		MH	EPA TO-10A
PCB-1232	ND	0.05	ug/m3	02/14/12		MH	EPA TO-10A
PCB-1242	ND	0.05	ug/m3	02/14/12		MH	EPA TO-10A
PCB-1248	ND	0.05	ug/m3	02/14/12		MH	EPA TO-10A
PCB-1254	ND	0.05	ug/m3	02/14/12		MH	EPA TO-10A
PCB-1260	ND	0.05	ug/m3	02/14/12		MH	EPA TO-10A
PCB-1262	ND	0.05	ug/m3	02/14/12		MH	EPA TO-10A
PCB-1268	ND	0.05	ug/m3	02/14/12		MH	EPA TO-10A
QA/QC Surrogates							
% DCBP	96		%	02/14/12		MH	30 - 150 %
% TCMX	93		%	02/14/12		MH	30 - 150 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

February 20, 2012



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

February 20, 2012

FOR: AMC Environmental
PO Box 423
Stratford, CT 06497

Sample Information

Matrix: AIR
Location Code: AMCENV
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time
02/11/12 0:00
02/13/12 16:36

Laboratory Data

SDG ID: GBB42958
Phoenix ID: BB42959

Project ID: LUDLOW HS FAIRFIELD
Client ID: PCB AIR-02/RM 220

Parameter	Result	RL	Units	Date	Time	By	Reference
Extraction for PCB for Puff samples	Completed			02/13/12		BB/K	SW3540C 1
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	0.05	ug/m3	02/14/12		MH	EPA TO-10A
PCB-1221	ND	0.05	ug/m3	02/14/12		MH	EPA TO-10A
PCB-1232	ND	0.05	ug/m3	02/14/12		MH	EPA TO-10A
PCB-1242	ND	0.05	ug/m3	02/14/12		MH	EPA TO-10A
PCB-1248	ND	0.05	ug/m3	02/14/12		MH	EPA TO-10A
PCB-1254	ND	0.05	ug/m3	02/14/12		MH	EPA TO-10A
PCB-1260	ND	0.05	ug/m3	02/14/12		MH	EPA TO-10A
PCB-1262	ND	0.05	ug/m3	02/14/12		MH	EPA TO-10A
PCB-1268	ND	0.05	ug/m3	02/14/12		MH	EPA TO-10A
<u>QA/QC Surrogates</u>							
% DCBP	96		%	02/14/12		MH	30 - 150 %
% TCMX	90		%	02/14/12		MH	30 - 150 %

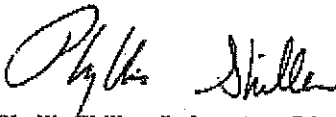
1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters.

Comments:

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ND=Not detected BDL=Below Detection Level RL=Reporting Level

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Phyllis Shiller, Laboratory Director
February 20, 2012



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

February 20, 2012

FOR: AMC Environmental
PO Box 423
Stratford, CT 06497

Sample Information

Matrix: AIR
Location Code: AMCENV
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time
02/11/12 0:00
02/13/12 16:36

Laboratory Data

SDG ID: GBB42958
Phoenix ID: BB42960

Project ID: LUDLOW HS FAIRFIELD

Client ID: PCB AIR-03/CORRIDOR

Parameter	Result	RL	Units	Date	Time	By	Reference
Extraction for PCB for Puff samples	Completed			02/13/12		BB/K	SW3540C 1
Polychlorinated Biphenyls							
PCB-1016	ND	0.05	ug/m3	02/14/12		MH	EPA TO-10A
PCB-1221	ND	0.05	ug/m3	02/14/12		MH	EPA TO-10A
PCB-1232	ND	0.05	ug/m3	02/14/12		MH	EPA TO-10A
PCB-1242	ND	0.05	ug/m3	02/14/12		MH	EPA TO-10A
PCB-1248	ND	0.05	ug/m3	02/14/12		MH	EPA TO-10A
PCB-1254	ND	0.05	ug/m3	02/14/12		MH	EPA TO-10A
PCB-1260	ND	0.05	ug/m3	02/14/12		MH	EPA TO-10A
PCB-1262	ND	0.05	ug/m3	02/14/12		MH	EPA TO-10A
PCB-1268	ND	0.05	ug/m3	02/14/12		MH	EPA TO-10A
QA/QC Surrogates							
% DCBP	96		%	02/14/12		MH	30 - 150 %
% TCMX	93		%	02/14/12		MH	30 - 150 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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Phyllis Shiller, Laboratory Director
February 20, 2012



Environmental Laboratories, Inc.
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QA/QC Report

February 20, 2012

QA/QC Data

SDG I.D.: GBB42958

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 194319, QC Sample No: BB42958 (BB42958, BB42959, BB42960)									
Polychlorinated Biphenyls									
PCB-1016	ND	85	88	3.5				40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	108	105	2.8				40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	87	94	94	0.0				30 - 150	30
% TCMX (Surrogate Rec)	74	81	79	2.5				30 - 150	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Phyllis Shiller, Laboratory Director
February 20, 2012

687 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax: (860) 645-0823
 Client Services (860) 645-8726

Data Delivery: ☐ Fax #: _____
☒ Email: Results@amtech.com

Temp in °F of

Project: SPR, Livdane H.S. Fairfield Project P.O.: _____
Report to: _____ Phone #: _____

Invoice to: _____ Fax #: _____

Analysis Request

Matrix Code:
 DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
 SE=Sediment SL=Sludge S=Soil/Solid W=Wipe O=Other

PHOENIX USE ONLY
SAVING 4

SAMPLE #

85627

542959

429100

100

1

1

1

1

Relinquished by:

5

5

Comments, Special

1

1

• A

Date:	Time:
2/13/12	12:00
2/13/12	10:36

RI	CI	MA
<input type="checkbox"/> Direct Exposure (Residential)	<input type="checkbox"/> RCP Cert	<input type="checkbox"/> MCP Certification
<input type="checkbox"/> GW	<input type="checkbox"/> GW Protection	<input type="checkbox"/> GW-1
<input type="checkbox"/> Other	<input type="checkbox"/> SW Protection	<input type="checkbox"/> GW-2
	<input type="checkbox"/> GA Mobility	<input type="checkbox"/> GW-3
	<input type="checkbox"/> GB Mobility	<input type="checkbox"/> S-1
	<input type="checkbox"/> Residential DEC	<input type="checkbox"/> S-2
	<input type="checkbox"/> I/C DEC	<input type="checkbox"/> S-3
	<input type="checkbox"/> Other	<input type="checkbox"/> MAWRA eSMART
		<input type="checkbox"/> Other

State where samples were collected: CT

<input type="checkbox"/> Data Format	<input type="checkbox"/> Excel
<input type="checkbox"/> PDF	<input type="checkbox"/> GIS/Key
<input type="checkbox"/> GIS/Key	<input type="checkbox"/> Equis
<input type="checkbox"/> Other	
<input type="checkbox"/> Data Package	<input type="checkbox"/> Tier II Checklist
<input type="checkbox"/> Full Data Package*	<input type="checkbox"/> Phoenix Std Report
<input type="checkbox"/> Other	

* SURCHARGE APPLIES

State where samples were collected: CA

* SURCHARGE APPLIES



587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Data Delivery: ☐ Fax #:
☒ Email: results@manctech.com

CHAIN OF CUSTODY RECORD

Temp 60 Pg 1 of 1

Customer: AME ENV. LLC

Address: PO Box 423
Stretford CT

Project: 2010 Ludlowe HS. Fairfield Project P.O.:

Report to: Steve Phone #:
Invoice to: Fax #:

Client Sample - Information - Identification
Date: 2.13.12

Analysis Request

Matrix Code:
DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
SE=Sediment SL=Sludge S=Soil/Solid W=Wipe O=Other

PHOENIX USE ONLY
SAMPLE # Customer Sample Identification Sample Matrix Date Sampled Time Sampled

42958 R8A16-01/KM 203 A 2.11.12

42959 02/KM 203 V

42910 03/KM 203 V

1010A
Soil VOA Vials | 1 methanol | 1 H2O
GL Soil Container | 1 or
40 ml VOA Vial | 1 or
GL Amber 100ml | 1 As is | 1 H2SO4
PL As is | 1 250ml | 1 500ml | 1 1000ml
PL H2SO4 | 1 250ml | 1 500ml
PL NaOH 250ml
Bacteria Bottle

Start Time 10:35 10:55 11:15 11:35 11:55 12:15 12:35 12:55 13:15 13:35 13:55 14:15 14:35 14:55 15:15 15:35 15:55 16:15 16:35 16:55 17:15 17:35 17:55 18:15 18:35 18:55 19:15 19:35 19:55 20:15 20:35 20:55 21:15 21:35 21:55 22:15 22:35 22:55 23:15 23:35 23:55 24:15 24:35 24:55 25:15 25:35 25:55 26:15 26:35 26:55 27:15 27:35 27:55 28:15 28:35 28:55 29:15 29:35 29:55 30:15 30:35 30:55 31:15 31:35 31:55 32:15 32:35 32:55 33:15 33:35 33:55 34:15 34:35 34:55 35:15 35:35 35:55 36:15 36:35 36:55 37:15 37:35 37:55 38:15 38:35 38:55 39:15 39:35 39:55 40:15 40:35 40:55 41:15 41:35 41:55 42:15 42:35 42:55 43:15 43:35 43:55 44:15 44:35 44:55 45:15 45:35 45:55 46:15 46:35 46:55 47:15 47:35 47:55 48:15 48:35 48:55 49:15 49:35 49:55 50:15 50:35 50:55 51:15 51:35 51:55 52:15 52:35 52:55 53:15 53:35 53:55 54:15 54:35 54:55 55:15 55:35 55:55 56:15 56:35 56:55 57:15 57:35 57:55 58:15 58:35 58:55 59:15 59:35 59:55 60:15 60:35 60:55 61:15 61:35 61:55 62:15 62:35 62:55 63:15 63:35 63:55 64:15 64:35 64:55 65:15 65:35 65:55 66:15 66:35 66:55 67:15 67:35 67:55 68:15 68:35 68:55 69:15 69:35 69:55 70:15 70:35 70:55 71:15 71:35 71:55 72:15 72:35 72:55 73:15 73:35 73:55 74:15 74:35 74:55 75:15 75:35 75:55 76:15 76:35 76:55 77:15 77:35 77:55 78:15 78:35 78:55 79:15 79:35 79:55 80:15 80:35 80:55 81:15 81:35 81:55 82:15 82:35 82:55 83:15 83:35 83:55 84:15 84:35 84:55 85:15 85:35 85:55 86:15 86:35 86:55 87:15 87:35 87:55 88:15 88:35 88:55 89:15 89:35 89:55 90:15 90:35 90:55 91:15 91:35 91:55 92:15 92:35 92:55 93:15 93:35 93:55 94:15 94:35 94:55 95:15 95:35 95:55 96:15 96:35 96:55 97:15 97:35 97:55 98:15 98:35 98:55 99:15 99:35 99:55 100:15 100:35 100:55 101:15 101:35 101:55 102:15 102:35 102:55 103:15 103:35 103:55 104:15 104:35 104:55 105:15 105:35 105:55 106:15 106:35 106:55 107:15 107:35 107:55 108:15 108:35 108:55 109:15 109:35 109:55 110:15 110:35 110:55 111:15 111:35 111:55 112:15 112:35 112:55 113:15 113:35 113:55 114:15 114:35 114:55 115:15 115:35 115:55 116:15 116:35 116:55 117:15 117:35 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546:55 547:15 547:35 547:55 548:15 548:35 548:55 549:15 549:35 549:55 550:15 550:35 550:55 551:15 551:35 551:55 552:15 552:35 552:55 553:15 553:35 553:55 554:15 554:35 554:55 555:15 555:35 555:55 556:15 556:35 556:55 557:15 557:35 557:55 558:15 558:35 558:55 559:15 559:35 559:55 5

Laboratory Results – PCB Wipe Samples



Thursday, February 16, 2012

AMC Environmental
PO Box 423
Stratford, CT 06497

Project ID: LUDLOW AT SCHOOL FAIRFIELD
Sample ID#s: BB42961 - BB42964

This laboratory is in compliance with the QA/QC procedures outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, SW846 QA/QC and NELAC requirements of procedures used.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "Phyllis Shiller".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

February 16, 2012

FOR: AMC Environmental
PO Box 423
Stratford, CT 06497

Sample Information

Matrix: WIPE
Location Code: AMCENV
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time
02/11/12 11:30
02/13/12 16:36

Laboratory Data

SDG ID: GBB42961
Phoenix ID: BB42961

Project ID: LUDLOW AT SCHOOL FAIRFIELD

Client ID: PCB-01/RM 203-FLOOR

Parameter	Result	RL	Units	Date	Time	By	Reference
PCB Wipe Extraction	Completed			02/13/12		BB/K	SW-3540C

Polychlorinated Biphenyls

PCB-1016	ND	1.0	ug	02/14/12		MH	SW8082
PCB-1221	ND	1.0	ug	02/14/12		MH	SW8082
PCB-1232	ND	1.0	ug	02/14/12		MH	SW8082
PCB-1242	ND	1.0	ug	02/14/12		MH	SW8082
PCB-1248	ND	1.0	ug	02/14/12		MH	SW8082
PCB-1254	ND	1.0	ug	02/14/12		MH	SW8082
PCB-1260	ND	1.0	ug	02/14/12		MH	SW8082
PCB-1262	ND	1.0	ug	02/14/12		MH	SW8082
PCB-1268	ND	1.0	ug	02/14/12		MH	SW8082

QA/QC Surrogates

% DCBP	89	%	02/14/12	MH	30 - 150 %
% TCMX	86	%	02/14/12	MH	30 - 150 %

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
February 16, 2012



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

February 16, 2012

FOR: AMC Environmental
PO Box 423
Stratford, CT 06497

Sample Information

Matrix: WIPE
Location Code: AMCENV
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time
02/11/12 11:30
02/13/12 16:36

Laboratory Data

SDG ID: GBB42961
Phoenix ID: BB42962

Project ID: LUDLOW AT SCHOOL FAIRFIELD

Client ID: PCB-02/RM 203-WINDSILL

Parameter	Result	RL	Units	Date	Time	By	Reference
PCB Wipe Extraction	Completed			02/13/12		BB/K	SW-3540C
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	1.0	ug	02/14/12		MH	SW8082
PCB-1221	ND	1.0	ug	02/14/12		MH	SW8082
PCB-1232	ND	1.0	ug	02/14/12		MH	SW8082
PCB-1242	ND	1.0	ug	02/14/12		MH	SW8082
PCB-1248	ND	1.0	ug	02/14/12		MH	SW8082
PCB-1254	ND	1.0	ug	02/14/12		MH	SW8082
PCB-1260	1.6	1.0	ug	02/14/12		MH	SW8082
PCB-1262	ND	1.0	ug	02/14/12		MH	SW8082
PCB-1268	ND	1.0	ug	02/14/12		MH	SW8082
<u>QA/QC Surrogates</u>							
% DCBP	88		%	02/14/12		MH	30 - 150 %
% TCMX	84		%	02/14/12		MH	30 - 150 %

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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Phyllis Shiller, Laboratory Director
February 16, 2012



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Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

February 16, 2012

FOR: AMC Environmental
PO Box 423
Stratford, CT 06497

Sample Information

Matrix: WIPE
Location Code: AMCENV
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time
02/11/12 11:30
02/13/12 16:36

Laboratory Data

SDG ID: GBB42961
Phoenix ID: BB42963

Project ID: LUDLOW AT SCHOOL FAIRFIELD

Client ID: PCB-03/RM 220-FLOOR

Parameter	Result	RL	Units	Date	Time	By	Reference
PCB Wipe Extraction	Completed			02/13/12		BB/K	SW-3540C

Polychlorinated Biphenyls

PCB-1016	ND	1.0	ug	02/14/12		MH	SW8082
PCB-1221	ND	1.0	ug	02/14/12		MH	SW8082
PCB-1232	ND	1.0	ug	02/14/12		MH	SW8082
PCB-1242	ND	1.0	ug	02/14/12		MH	SW8082
PCB-1248	ND	1.0	ug	02/14/12		MH	SW8082
PCB-1254	ND	1.0	ug	02/14/12		MH	SW8082
PCB-1260	ND	1.0	ug	02/14/12		MH	SW8082
PCB-1262	ND	1.0	ug	02/14/12		MH	SW8082
PCB-1268	ND	1.0	ug	02/14/12		MH	SW8082

QA/QC Surrogates

% DCBP	103		%	02/14/12		MH	30 - 150 %
% TCMX	90		%	02/14/12		MH	30 - 150 %

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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Phyllis Shiller, Laboratory Director
February 16, 2012



Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

February 16, 2012

FOR: AMC Environmental
PO Box 423
Stratford, CT 06497

Sample Information

Matrix: WIPE
Location Code: AMCENV
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time
02/11/12 11:30
02/13/12 16:36

Laboratory Data

SDG ID: GBB42961
Phoenix ID: BB42964

Project ID: LUDLOW AT SCHOOL FAIRFIELD

Client ID: PCB-04/RM 220-WINDSILL

Parameter	Result	RL	Units	Date	Time	By	Reference
PCB Wipe Extraction	Completed			02/13/12		BB/K	SW-3540C
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	1.0	ug	02/14/12		MH	SW8082
PCB-1221	ND	1.0	ug	02/14/12		MH	SW8082
PCB-1232	ND	1.0	ug	02/14/12		MH	SW8082
PCB-1242	ND	1.0	ug	02/14/12		MH	SW8082
PCB-1248	ND	1.0	ug	02/14/12		MH	SW8082
PCB-1254	ND	1.0	ug	02/14/12		MH	SW8082
PCB-1260	ND	1.0	ug	02/14/12		MH	SW8082
PCB-1262	ND	1.0	ug	02/14/12		MH	SW8082
PCB-1268	ND	1.0	ug	02/14/12		MH	SW8082
<u>QA/QC Surrogates</u>							
% DCBP	95		%	02/14/12		MH	30 - 150 %
% TCMX	90		%	02/14/12		MH	30 - 150 %

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
February 16, 2012



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Tel. (860) 645-1102 Fax (860) 645-0823



QA/QC Report

February 16, 2012

QA/QC Data

SDG I.D.: GBB42961

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 193386, QC Sample No: BB38036 (BB42964)									
Polychlorinated Biphenyl									
PCB-1016	ND	107	105	1.9				40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	101	104	2.9				40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	80	81	84	3.6				30 - 150	30
% TCMX (Surrogate Rec)	83	82	85	3.6				30 - 150	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QA/QC Batch 194248, QC Sample No: BB42513 (BB42961, BB42962, BB42963)

Polychlorinated Biphenyl

PCB-1016	ND	99	103	4.0				40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	105	110	4.7				40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	97	97	98	1.0				30 - 150	30
% TCMX (Surrogate Rec)	83	78	80	2.5				30 - 150	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

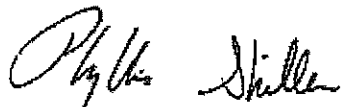
LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria


Phyllis Shiller, Laboratory Director
February 16, 2012

CHAIN OF CUSTODY RECORD



587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0823
 Client Services (860) 645-8726

Temp 60° Pg 1 of 1

Data Delivery:

☐ Fax #:

☒ Email:

Results@amc-labs.com

Customer: Amc Env. LLC
 Address: PO Box 423
Stratford, CT

Project: Ludlowe School - Fairfield
 Report to: J. Pringle
 Invoice to:

Project P.O.:

Phone #:

Fax #:

Client Sample - Information - Identification

Sampler's Signature R. Onufro Date: _____

Matrix Code:
 DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
 SE=Sediment SL=Sludge S=Soil/Solid W=Wipe O=Other

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
429601	PCB-01/Rm 203-Floor	W	2-11-12	11:30 AM
429602	PCB-02/Rm 203-Windmill	W		
429603	PCB-03/Rm 220-Floor	W		
429604	PCB-04/Rm 220-Windmill	W		

Analysis
Request

Soil VOA Vials (Methanol) H ₂ O	
GL Soil Container (oz)	
40 ml VOA Vial (As is) HCl	
GL Amber 1000ml (As is) HCl	
PL H ₂ SO ₄ (250ml) (As is) H ₂ SO ₄	
PL H ₂ SO ₄ (250ml) (As is) H ₂ SO ₄	
PL H ₂ SO ₄ (250ml) (As is) H ₂ SO ₄	
Sealene Bottle	

Box 117 808

Relinquished by:

Accepted by:

Signature J. Wagner

Date: 2/13/12 Time: 12:00

RI

CT

MA

Data Format

☐ Excel

☐ PDF

☐ GIS/Key

☐ EQUIS

☐ Other

Data Package

☐ Tier II Checklist

☐ Full Data Package*

☐ Phoenix Std Report

☐ Other

* SURCHARGE APPLIES

☐ Direct Exposure (Residential)

☐ GW

☐ Other

☐ RCP Cert

☐ GW Protection

☐ SW Protection

☐ GA Mobility

☐ GB Mobility

☐ Residential DEC

☐ I/C DEC

☐ Other

☐ MCP Certification

☐ GW-1

☐ GW-2

☐ GW-3

☐ S-1

☐ S-2

☐ S-3

☐ MWRA eSMART

☐ Other

* SURCHARGE APPLIES

Comments, Special Requirements or Regulations:

Turnaround:

☐ 1 Day*

☐ 2 Days*

☐ 3 Days*

☒ Standard

☐ Other

* SURCHARGE APPLIES

State where samples were collected: CT