

22-081719
April 10, 2014



Juliet Burdelski
Director of Economic Development
City of Meriden
142 East Main Street
Meriden, CT 06450

Re: **Hazardous Building Materials Inspection Report,
Mold Evaluation and Radon Air Sampling
Record Journal Building
11 Crown Street Meriden, CT**

Dear Ms. Burdelski:

In accordance with our proposals dated October 9, 2013 and March 14, 2014, Tighe & Bond has completed a Hazardous Building Materials Inspection (HBMI), a visual mold evaluation and radon air sampling for the building located at 11 Crown Street in Meriden, Connecticut. It is our understanding that the HBMI, mold evaluation and radon air sampling were requested in support of a potential transfer of the site.

Inspection Summary

The HBMI was conducted by State of Connecticut licensed inspectors, James Webb and Justin Proto of Tighe & Bond on October 16, 17 and 18, 2013. The mold evaluation and radon air sampling were conducted by James Webb and Michelle Rudy of Tighe & Bond on April 4 and 7, 2014. Copies of inspector licenses are included in Appendix A. The HBMI was conducted in accordance with the United States Environmental Protection Agency (EPA) National Emissions Standard for Hazardous Air Pollutants Act (NESHAP). The inspection included sampling of suspect asbestos containing materials (ACM), lead-based paint screening using an Innov-X X-Ray Fluorescence (XRF) analyzer, sampling of caulking, glazing, paint and sealant type materials for analysis of polychlorinated biphenyls (PCBs), a visual inspection for the presence of PCB, di-(2-ethylhexyl) phthalate (DEHP), mercury, or chlorofluorocarbon containing equipment (i.e. universal wastes). The mold evaluation included a visual inspection for the presence or potential presence of mold growth. The radon air sampling was conducted according to procedures recommended by the testing laboratory, Radon Testing Corporation of America (RTCA). Selective exploratory demolition activities were not conducted as part of this inspection.

Suspect Asbestos-Containing Material Sampling

A total of 87 different types of suspect ACMs were observed and sampled including roofing, sheetrock, joint compound, floor tile and mastic, cove base and mastic, pipe insulation and other miscellaneous materials. Sample locations are depicted in Figures HM-1 through HM-3 (Appendix B). Sampled materials are listed in Tables 1 and 2 in (Appendix C).

Up to three samples were collected of each suspect material in accordance with the EPA requirements for asbestos identification. Samples were submitted to EMSL Laboratories in Wallingford, Connecticut for asbestos analysis using Polarized Light Microscopy (PLM) by EPA approved protocol in accordance with accreditation of the National Institute of Standards and Technology (NIST). During inspection activities sample locations, types of material, and quantities were recorded. Homogenous materials were noted when observed.



Lead-Based Paint Screening

Lead based paint (LBP) screening was conducted using an XRF analyzer. The XRF is an instant read instrument that measures lead content of painted surfaces in milligrams per square centimeter (mg/cm²). Painted building components (interior and exterior) such as walls, ceilings, door and window systems, metal I-beams, and other building components were screened with the XRF and measurements were recorded as part of the inspection. Interior components and surface locations were identified by side designations represented by the letters "A", "B", "C", and "D". The "A" side is considered the door/entrance side to the various rooms with the "B", "C", and "D" side following in a clockwise order. A summary of XRF screening results is provided in Table 3.

Suspect PCB Containing Materials Sampling

Samples were collected for PCB analysis from painted surfaces, caulking, glazing, and sealant compounds observed during the inspection. One sample of each different type of material was collected during this investigation for screening purposes. Samples were submitted to Phoenix Laboratories of Manchester, Connecticut for analysis of PCBs utilizing the EPA Method 3540C Soxhlet Extraction and SW 846 8082 analytical method. A summary of PCB sampling results is provided in Table 4. Sample locations are depicted in Figures HM-1 through HM-3.

Visual Inspection for Universal Wastes

A visual inspection for lighting ballasts, transformers, electrical switches, small electrical motor capacitors, and other items that could contain PCBs/DEHP was conducted. The inspection included identification of mercury vapor lamps, other components known to contain mercury (i.e. thermostats), and compressors with the potential to contain chlorofluorocarbons. An inventory of emergency lights and exit signs that may contain hazardous or regulated substances was also completed. A summary of universal wastes is provided in Table 5.

Visual Inspection for Mold

A visual inspection for the presence or potential presence of mold was conducted. The inspection include observations of dampness, mold growth, and olfactory evidence of musty odors. Obvious signs of water damage or moisture problems from rain leaks and/or plumbing leaks was noted. Evidence of mold growth or potential mold issues were documented through photographs found in the photo log in Appendix F. No microbial sampling activities were included in the inspection.

Radon Air Sampling

Passive air sampling for radon was conducted using charcoal canisters. Two charcoal canisters were placed side-by-side in the lowest level of the building according to procedures recommended by the testing laboratory, Radon Testing Corporation of America (RTCA). Canisters were placed at least 20" from the ground, at least 3' from walls and away from sources of air disturbance, such as frequently used doors, windows and vents. Canisters were not placed in a room with a direct source of heat, such as a boiler room, or a direct source of moisture, such as a bathroom. The canisters remained in the sampling location for a period of 48 hours, after which time they were retrieved and submitted to RTCA for laboratory analysis. Laboratory results for the radon air samples are found in Appendix G.

Findings and Conclusions

Asbestos Sampling Results

During the course of the inspection, a total of 169 bulk samples of suspect ACM were collected of which 153 samples were analyzed by PLM based on the “stop on first positive” request from the laboratory. Some materials were found to be homogeneous to each room (i.e. sheetrock, floor tile, ceiling tiles, vinyl cove base, etc). EPA defines any materials containing more than 1% asbestos as an asbestos containing material. 20 types of materials were found to be ACM including; window frame caulking, window glazing compound, floor tile mastic, pipe insulation, mudded pipe fitting cement, transite panels, pin tab adhesives, roofing and other miscellaneous building materials. Refer to Table 1 for a summary of asbestos containing materials both sampled and assumed. Table 2 is a summary of non-asbestos containing materials sampled. Laboratory analytical reports for the asbestos samples collected are provided in Appendix D.

For the purpose of this inspection the different roofing systems were tested and labeled roofs 1 through 10. Of the 10 different roofs, three different roof systems types were identified. Roofs 1, 3, 4, 5, 8, 9, and 10 were found to be a built up roofing system with a stone pebble ballast. The black felts and bottom layer tar found at these roofs parapet walls were found to be ACM. Roof 2 is the only roof with a modified rubber surface. The yellow adhesive and felts on the parapet walls of roof 2 were found to be ACM. No ACM was found at roofs 6 and 7. Multiple types of flashing cements were found throughout the different roofs. The gray flashing cement found on HVAC systems, vents, and skylights of roofs 5 and 8 were found to be ACM.

If additional materials are encountered during upgrade activities that were not previously sampled, then they would either need to be sampled for asbestos or should be assumed to contain asbestos.

All regulated friable and non-friable ACM must be removed prior to demolition activities. A State of Connecticut Licensed Asbestos Abatement Contractor must be retained to perform removal work. Visual inspections must be performed within each abatement area at the completion of the abatement work. The visual inspection must be performed by a State of Connecticut Licensed Asbestos Project Monitor (APM). The abatement areas must meet final visual inspection criteria prior to demolition activities. Re-occupancy air monitoring is required by an APM before entry of any person into the work area.

The Asbestos Abatement Contractor must submit a notice of asbestos abatement to the State of Connecticut Department of Health post marked or hand delivered 10 days prior to the commencement of any asbestos abatement activities involving the abatement of greater than 10 linear feet or 25 square feet of asbestos containing materials.

Lead-Based Paint Screening Results

A total of 32 readings were collected during the lead-based paint screen of the buildings. Lead-based paint is typically defined as containing lead concentrations greater than 1.0 mg/cm². However, US Department of Occupational Safety and Health Administration (OSHA), assumes that any detectable concentration of lead in paint requires worker task specific exposure monitoring. XRF readings identified various lead painted components throughout the building ranging in concentration from 0.0 mg/cm² to 2.64 mg/cm². Leaded paints were identified on structural I-beams, doors and door frames, window components, and brick cement walls.

Items painted with lead based paint will need to be properly disposed/recycled as part of demolition activities. If other items containing low concentrations of lead (i.e. door frames)

will be impacted by cutting, grinding or other dust generating activities a worker task specific exposure assessment should be conducted by the contractor in accordance with OSHA 29 CFR 1926.62 to confirm lead dust is not being generated. Refer to Table 3 for a detailed list of painted surfaces screened and XRF measurements recorded.

PCB Sample Results

One sample of each of the 15 materials suspected to contain PCBs was submitted for PCB analysis. Caulking materials associated with window frames and sills were reported to contain PCB concentrations of 58 and 4,100 parts per million (ppm) respectively. Caulking found at the exterior door frames, expansion joints, parapet walls, exterior window glazing and paints were found to contain PCBs in concentrations ranging from of 1.8 ppm to 23 ppm. Window glazing and door frame caulks were also found to contain ACM and must be disposed as mixed asbestos and PCB waste. Sample descriptions and analytical results are summarized in Table 4. PCB analysis reports are provided in Appendix E.

EPA regulates the removal and disposal of source materials (caulk, glazing, paints, etc.) with concentrations of PCBs greater than or equal to 50 ppm. The EPA also regulates soil and adjacent substrate materials (brick, concrete, mortar, wood) contaminated by source materials containing PCB concentrations greater than or equal to 50 ppm if the soil and substrates contain greater than 1 ppm PCB. Regulations are defined in 40 CFR 761 and source materials with PCBs greater than 50 ppm must be disposed of as a "Bulk Product Waste" and impacted soils with PCB concentrations greater than 1 ppm must be disposed of as a "Remediation Waste".

The EPA regulation also requires submission of a Self-Implementing Cleanup and Disposal Plan (SIP), a Performance-Based Disposal Notification, or a Risk-Based Disposal Approval for the removal of and disposal of PCB containing materials greater than 50 ppm. Post-remediation verification sampling must be performed and included in the plan as required by the EPA regulations.

The State of Connecticut Department of Energy and Environmental Protection (CTDEEP) regulates the removal and disposal of source materials, substrate materials, and soil with PCB concentrations in excess of 1 ppm. Per CT Statute 22a-463, 22a-464, and 22a-467, any materials containing PCB in excess of 1 ppm are regulated for clean-up and disposal.

Building Materials with PCB concentrations less than 1 ppm are not regulated by EPA or CTDEEP and their unrestricted use or disposal is not subject to State or Federal PCB Regulation. However, soils with PCB concentrations less than 1 ppm are considered "polluted" soils as defined in the Remediation Standard Regulations (RSRs) and their re-use is subject to the restrictions listed in the CT RSRs.

Source materials have been reported to contain PCB concentrations greater than 1 ppm, as such further investigation and sampling is recommended to determine if the PCB containing materials have leached into the substrates. Additional source material sampling is also recommended as EPA guidance recommends that a minimum of three samples be analyzed for each material suspected to contain PCBs.

Visual Inspection for Universal Wastes

Fluorescent lighting fixtures were observed throughout the buildings. Each of these fixtures is assumed to contain ballasts that may contain PCBs and fluorescent tubes that contain mercury vapor. Additional universal wastes observed during the inspection included emergency lights and exit signs that may contain mercury vapor and lead acid batteries. Transformers with the potential to contain PCBs were observed both interior and exterior to the buildings. Labels were not observed on these transformers indicating PCB content.

Roof top cooling units and refrigeration units potentially containing chlorofluorocarbons were observed along with emergency diesel generators in association with each of the buildings. Table 5 provides a summary of universal wastes observed for each building.

If these fixtures are to be removed as part of demolition activities they should be properly handled and disposed in accordance with State and Federal regulations. A hazardous materials evaluation was not conducted on the buildings electrical equipment because power to the building was live at the time of the inspection.

Visual Inspection for Mold

Evidence of the presence or potential presence of mold was observed in 5 locations on the basement and first floors of the site building. In the basement, delamination of concrete mortar due to moisture, in addition to a musty odor was observed in rooms 006 and 006A, indicating potential for mold growth. Visible mold was observed in the basement in Room 005A due to moisture from a leaking sink. Minor visible mold was also observed on the first floor in Rooms 016 and 016A also due to moisture from a leaking sink. Evidence of mold growth or potential mold issues was documented through photographs provided in Appendix F. No microbial sampling activities were included in the inspection.

Radon Air Sampling

The side-by-side radon canisters placed in Room 003 of the site building basement were analyzed by RTCA Laboratories and found to contain an average radon level of 1.3 pCi/L. This level is well below the EPA acceptable standard of 4 pCi/L and indicates that no radon mitigation is needed. Radon laboratory reports are provided in Appendix G.

Opinion of Probable Abatement Costs

We have developed a preliminary Opinion of Probable Abatement Costs for hazardous building materials abatement and removal/disposal of universal wastes as summarized in Table 6. Additional sampling/investigation is recommended for certain items to confirm probable costs such as asbestos containing floor tile mastic, PCB containing materials (caulking, glazing, and paints), and impacted substrates and damp proofing tar on building foundations. Furthermore, once hazardous building materials quantities have been confirmed, we recommend technical specifications be developed to facilitate proper removal and disposal of these materials prior to demolition or renovation activities.

If you have any questions regarding this letter report please contact me at (860)704-4761 or jtolsen@tighebond.com.

Very truly yours,

TIGHE & BOND, INC.



James T. Olsen, LEP
Senior Project Manager, Associate

Enclosures: Appendix A - Inspector Licenses
Appendix B - Figures HM-1 to HM-3 Floor Plans
Appendix C - Table 1 Summary of Asbestos Containing Materials

Table 2 Summary of Non-Asbestos Containing Materials

Table 3 Summary of XRF Lead Screening Results

Table 4 Summary of PCB Sampling Results

Table 5 Summary of Universal Wastes

Table 6 Opinion of Probable Hazardous Building Materials
Removal and Disposal Costs

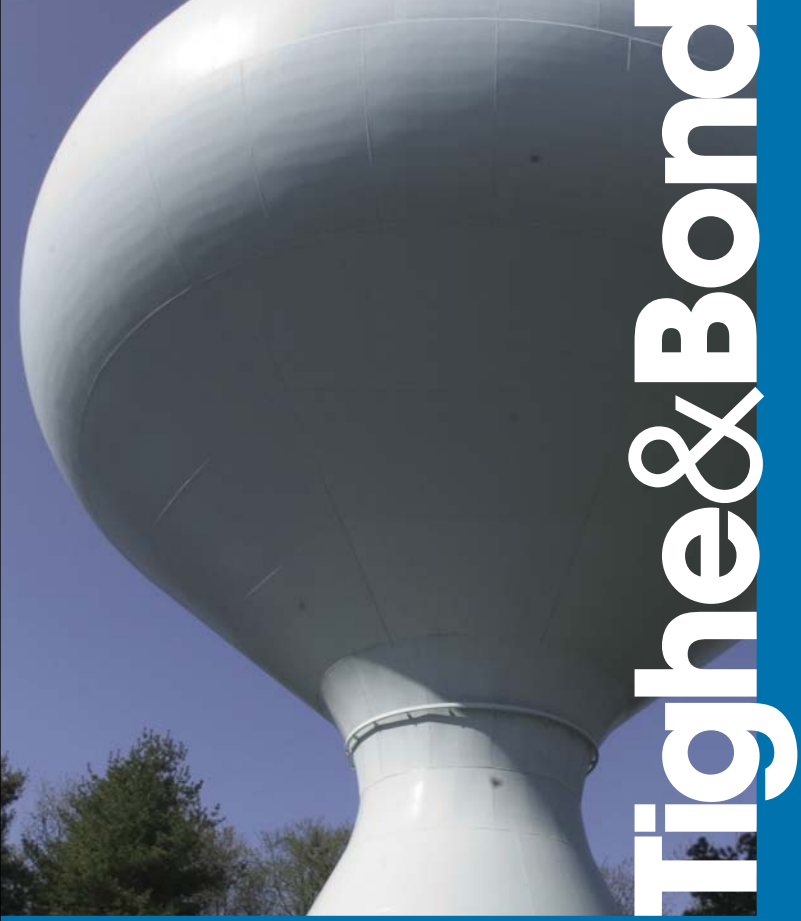
Appendix D - Asbestos Laboratory Analytical Reports

Appendix E - PCB Laboratory Analytical Report

Appendix F - Mold Assessment Photo Log

Appendix G - Radon Laboratory Analytical Report





Tighe & Bond

State of Connecticut Online Enterprise Site State of Connecticut

Lookup Detail View

Name

Name
JAMES T WEBB

License Information
lookup

License Type	License Number	Expiration Date	Granted Date	License Name	License Status	Licensure Actions or Pending Charges
Asbestos Consultant-Inspector	588	08/31/2014	06/23/2004	James T. Webb	ACTIVE	None

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CERTIFICATE OF PARTICIPATION

The Faculty of

RTCA

certifies that

James Webb

has successfully completed the modules

Radon Measurement Operators

Training Course

16 Hours

On-line Course

Elmsford, NY



Andreas C. George 3/24/2014

Date

Andreas C. George

Director of Analytical Operations

 State of Connecticut

Lookup Detail View

Name

Name
JUSTIN F PROTO

License Information
lookup

License Type	License Number	Expiration Date	Granted Date	License Name	License Status	Licensure Actions or Pending Charges
Asbestos Consultant-Inspector	697	03/31/2015	02/25/2008	Justin F. Proto	ACTIVE	None

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State of Connecticut Online Enterprise Site State of Connecticut

Lookup Detail View

Name

Name
JUSTIN F PROTO

License Information
lookup

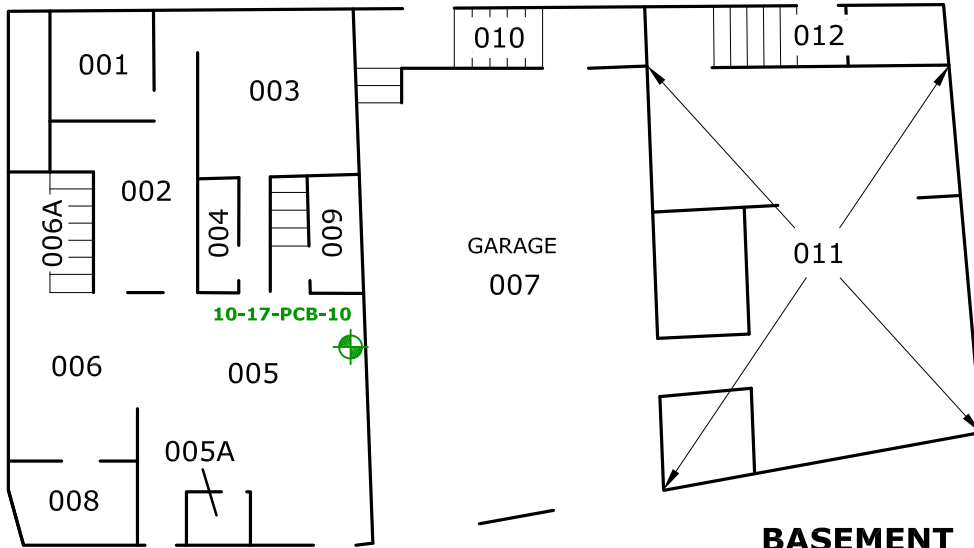
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Lead Inspector Risk Assessor	2204	03/31/2015	06/18/2008	Justin F. Proto	ACTIVE	None

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Tighe & Bond

CROWN STREET



BASEMENT

LEGEND

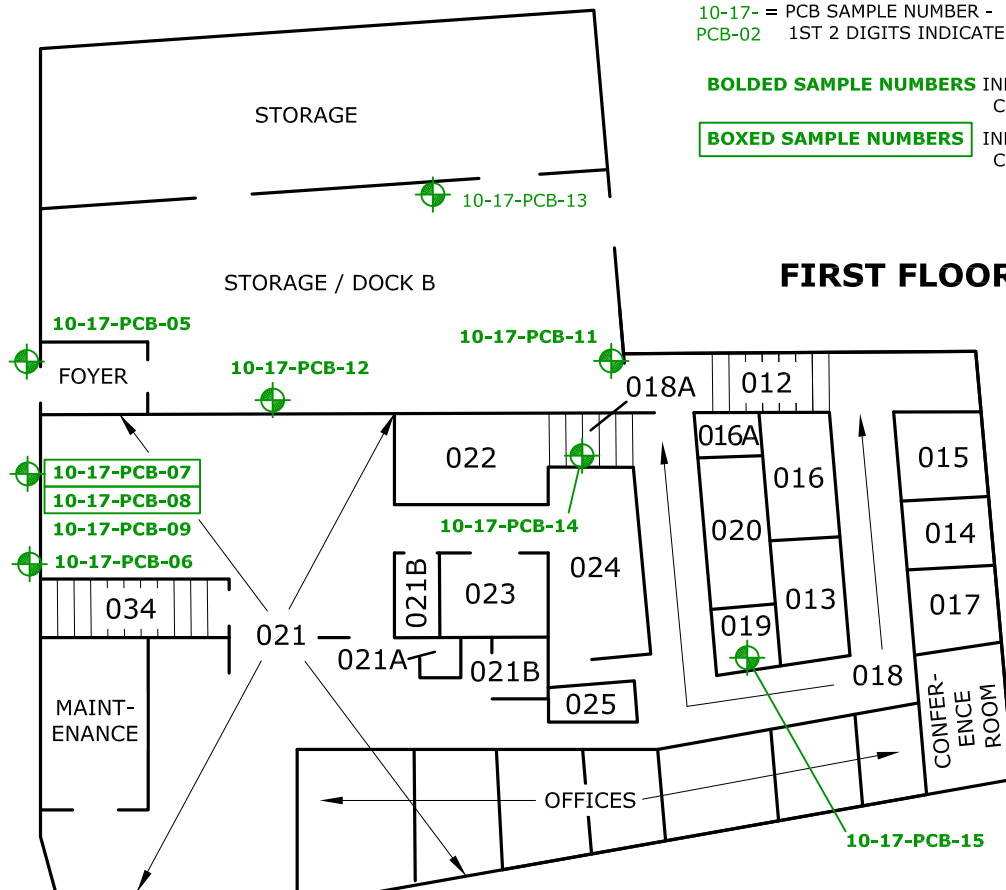
= PCB SAMPLE LOCATION

10-17- = PCB SAMPLE NUMBER -
PCB-02 1ST 2 DIGITS INDICATE DATE SAMPLED

BOLDED SAMPLE NUMBERS INDICATE PCBs IN CONCENTRATIONS > 1PPM.

BOXED SAMPLE NUMBERS INDICATE PCBs IN CONCENTRATIONS > 50PPM.

CROWN STREET



FIRST FLOOR

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213 Court Street
Suite 900
Middletown, CT 06457
(860) 704-4760

Scale:
NOT TO SCALE

Job No.
R0280

Drawn By:
MIR

Date:
4/10/2013

Date:

Revision:

RECORD JOURNAL
11 CROWN STREET, MERIDEN, CT

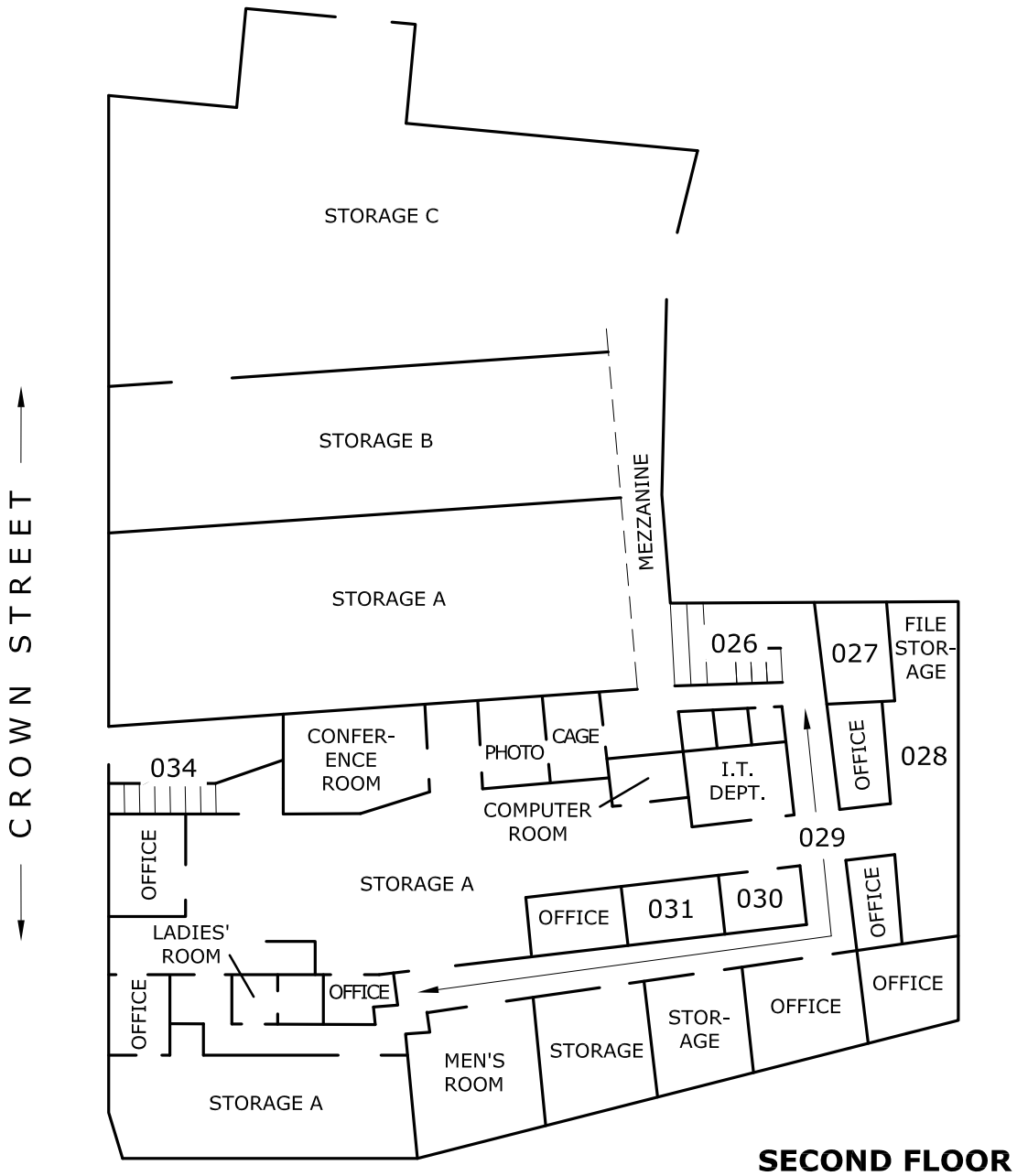
**HAZARDOUS BUILDING
MATERIALS INSPECTION**
BASEMENT AND FIRST FLOOR PLANS



SHEET NO:

HM-1

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Tighe & Bond
www.tighebond.com
 213 Court Street
 Suite 900
 Middletown, CT 06457
 (860) 704-4760

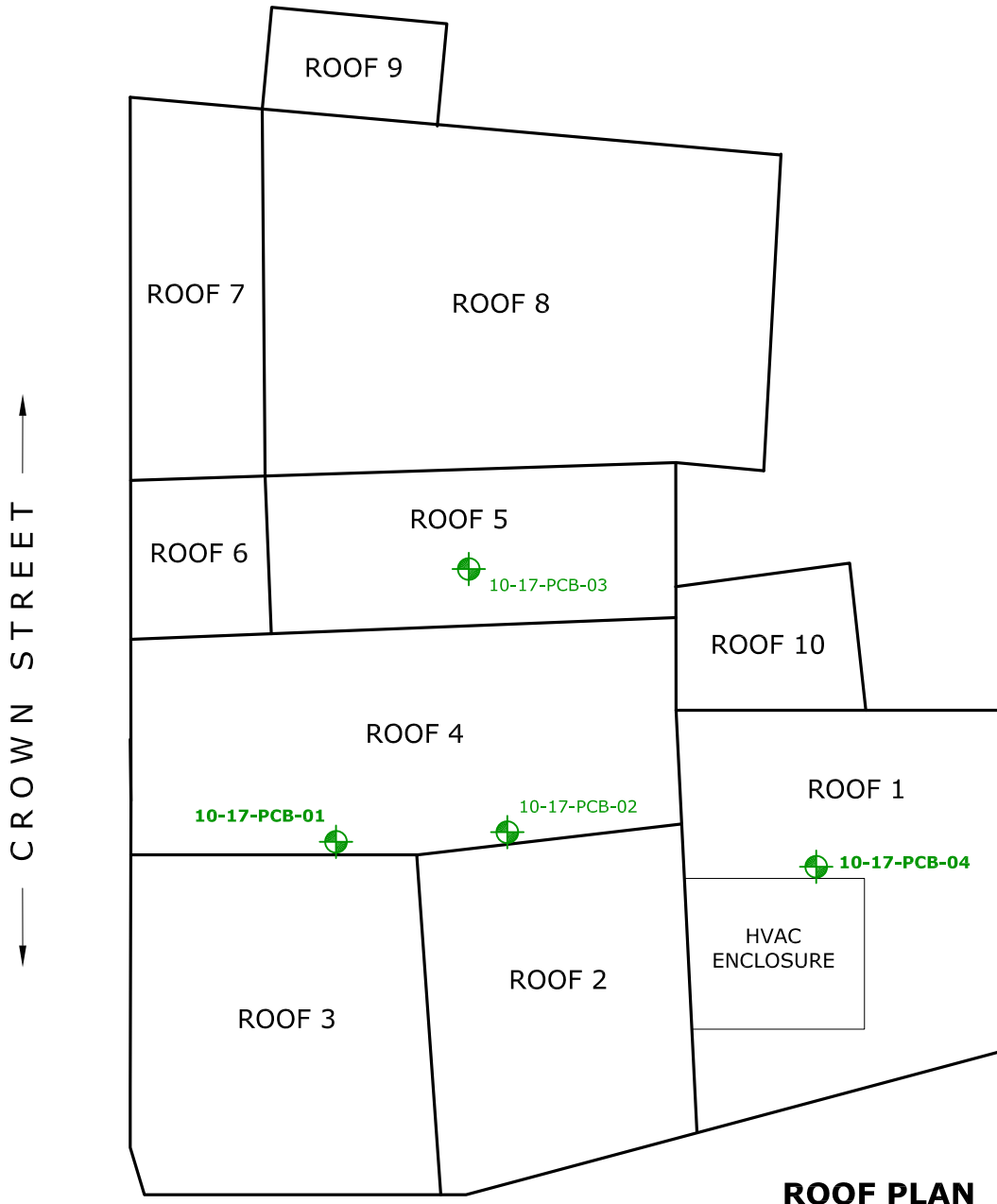
Scale: NOT TO SCALE	Date:	Revision:
Job No. R0280		
Drawn By: MIR		
Date: 4/10/2013		

RECORD JOURNAL
 11 CROWN STREET, MERIDEN, CT

**HAZARDOUS BUILDING
 MATERIALS INSPECTION**
 SECOND FLOOR PLAN

 NORTH
 SHEET NO:
HM-2

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ROOF PLAN

LEGEND

= PCB SAMPLE LOCATION

10-17- = PCB SAMPLE NUMBER - 1ST 2 DIGITS INDICATE DATE SAMPLED
PCB-02

BOLDED SAMPLE NUMBERS INDICATE PCBs IN CONCENTRATIONS >1PPM.

BOXED SAMPLE NUMBERS INDICATE PCBs IN CONCENTRATIONS >50PPM.



213 Court Street
Suite 900
Middletown, CT 06457
(860) 704-4760

Scale:
NOT TO SCALE

Job No.
R0280

Drawn By:
MIR

Date:
4/10/2013

Date:

Revision:

RECORD JOURNAL
11 CROWN STREET, MERIDEN, CT

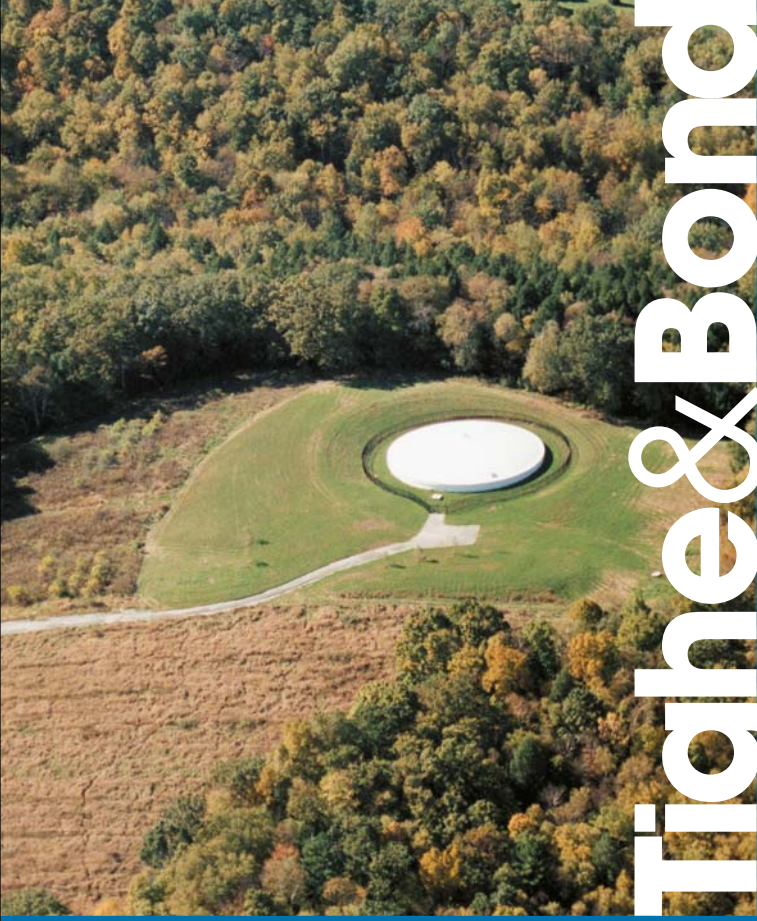
**HAZARDOUS BUILDING
MATERIALS INSPECTION**
ROOF PLANS



NORTH

SHEET NO:

HM-3



Tighe & Bond

Asbestos Sampling Date: 10/16/2013 & 10/17/2013

Sample #	Material	Color	Description	Location	Approximate Quantity	Result	Comment
10-16-JW-01 to 03	Pipe Insulation	White	Pipe Insulation	Throughout Basement	1450 LF	50% Chrysotile	Air cell pipe insulation found throughout the basement area. This material is mostly intact and in good condition.
10-16-JW-04 to 06	Mudded Pipe Fitting Cement	Tan	Elbow Fittings	Throughout Basement	195 each	55% Chrysotile	Fittings associated with the air cell pipe insulation. This material is mostly intact however damaged fittings were identified.
10-16-JW-25 & 26	Transite Panel	White	Panel at electrical equipment	Room 005	60 SF	30% Chrysotile	Found in room 005 behind electrical equipment.
10-16-JW-31 & 32	12"x12" Floor Tile	Tan	Flooring	Room 005A	30 SF	3% Chrysotile	Top layer flooring found throughout room
10-16-JW-33 & 34	Mastic associated w/ 12"x12" Floor Tile	Black	Mastic	Room 005A	30 SF	3% Chrysotile	Mastic associated with top layer flooring
10-16-JW-35 & 36	9"x9" Floor Tile	Black	Flooring	Room 005A	30 SF	8% Chrysotile	Bottom layer flooring on concrete slab
10-16-JW-37 & 38	Mastic associated w/ 9"x9" Floor Tile	Black	Mastic	Room 005A	30 SF	3% Chrysotile	Mastic associated with bottom layer flooring
10-16-JW-54 & 55	Pin Tab Adhesive	Brown	Adhesive Associated w/ Duct Insulation	Room 012	225 SF	7% Chrysotile	Adhesive associated with foam insulated ceiling on concrete deck
10-16-JW-56 & 57	9"x9" Floor Tile	Tan	Flooring	Room 013 & 029	1,900 SF	3% Chrysotile	9"x 9" Floor Tile
10-16-JW-58 & 59	Mastic Associated w/ Floor Tile	Black	Mastic	Room 013 & 029	1,900 SF	4% Chrysotile	Mastic associated with 9"x9" Floor Tile
10-16-JW-84 & 85	12"x12" Floor Tile	Tan/Brown	Flooring	Room 020	45 SF	2% Chrysotile	12"x 12" Floor tile
10-16-JW-91 & 92	9"x9" Floor Tile	Green	Flooring	Room 021A	500 SF	8% Chrysotile	9"x 9" Floor Tile
10-16-JW-93 & 94	9"x9" Floor Tile	Red	Flooring	Room 021A	500 SF	7% Chrysotile	9"x 9" Floor Tile
10-16-JW-107 & 108	Window Glazing Compound	Black	Window Glazing	Storage 3	1 @ 12 LF	3% Chrysotile	Interior window glazing compound found on metal window sash
10-16-JW-116 & 117	Residual Door Frame Caulk	Gray	Window Glazing	Exterior Façades	1 @ 17 LF	2% Chrysotile	Residual Metal Door Frame Caulk

Table 1
 Summary of Asbestos Containing Materials
 Record Journal
 11 Crown Street
 Meriden, Connecticut

10-16-JW-122 & 123	Window Glazing Compound	Black	Window Glazing	Exterior Façades	6 sashes @ 4' x 4' 9 sashes @ 4' x 6'	4% Chrysotile	Metal Window Glazing Compound found through out the building
10-17-JP-09 & 10	Felt at Parapet Wall	Black	Roofing	Roofs 1, 3, 4, 8, 9, & 10	1300 SF	35% Chrysotile	Felts associated with roofing found at the wood parapet walls of the roofing systems
10-17-JP-11 & 12	Tar on Wood Parapet Wall	Black	Roofing	Roofs 1, 3, 4, 8, 9, & 10	1300 SF	17% Chrysotile	Bottom layer tar found on wood parapet walls of the roofing systems
10-17-JP-23 & 24	Adhesive at Parapet Wall	Yellow	Roofing	Roof 2	250 SF	10% Chrysotile	Adhesive found behind rubber membrane on CMU block parapet wall associated with roof 2 only
10-17-JP-25 & 26	Felts on CMU Parapet Wall	Black	Roofing	Roof 2	250 SF	10% Chrysotile	Felt associated with rubber membrane on CMU block parapet wall
10-17-JP-39 & 40	Flashing Cement at Penetrations	Gray	Flashing Cement	Roofs 5 & 8	200 SF	15% Chrysotile	Flashing cement found on penetrations. Found at skylights, vents, and HVAC units where the component meets the roofing system
Assume	Sink Undercoating's	Black	Anti-Condensate	Rooms 016, 027	4 sinks	Assume	Sink anti-condensate coating on underside of metal sinks
Assume	Wood Window Glazing Compound	White	Glazing Compound	Room 005	5 openings	Assume	Interior window glazing compound found on wood window sash
Assume	Wood Window Frame Caulk	White	Window Frame Caulk	Room 005	5 openings	Assume	Interior window frame caulk
Assume	Electrical Switch Gears/ Electrical Breakers		Mechanical Equipment	Basement	5 each	Assume	Interior of electric panels
Assume	Ceramic Floor/ Wall Tile adhesive and grout	White	Tiles	Rooms 011, 016A, Storage B, 2nd Floor bathrooms	1,300 SF	Assume	Ceramic Floor /Wall Tile adhesives and grouts

LEGEND

ACM = ASBESTOS CONTAINING MATERIAL

LF = LINEAR FOOT

SF = SQUARE FOOT

Asbestos Sampling Date: 10/16/2013 & 10/17/2013

Sample #	Material	Color	Description	Location	Approximate Quantity	Result	Comment
10-16-JW-01 to 03	Pipe Insulation	White	Pipe Insulation	Throughout Basement	1450 LF	50% Chrysotile	Air cell pipe insulation found throughout the basement area. This material is mostly intact and in good condition.
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10-16-JW-58 & 59	Mastic Associated w/ Floor Tile	Black	Mastic	Room 013 & 029	1,900 SF	4% Chrysotile	Mastic associated with 9"x9" Floor Tile
10-16-JW-84 & 85	12"x12" Floor Tile	Tan/Brown	Flooring	Room 020	45 SF	2% Chrysotile	12"x 12" Floor tile
10-16-JW-91 & 92	9"x9" Floor Tile	Green	Flooring	Room 021A	500 SF	8% Chrysotile	9"x 9" Floor Tile
10-16-JW-93 & 94	9"x9" Floor Tile	Red	Flooring	Room 021A	500 SF	7% Chrysotile	9"x 9" Floor Tile
10-16-JW-107 & 108	Window Glazing Compound	Black	Window Glazing	Storage 3	1 @ 12 LF	3% Chrysotile	Interior window glazing compound found on metal window sash
10-16-JW-116 & 117	Residual Door Frame Caulk	Gray	Window Glazing	Exterior Façades	1 @ 17 LF	2% Chrysotile	Residual Metal Door Frame Caulk

Table 1
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 Meriden, Connecticut

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10-17-JP-11 & 12	Tar on Wood Parapet Wall	Black	Roofing	Roofs 1, 3, 4, 8, 9, & 10	1300 SF	17% Chrysotile	Bottom layer tar found on wood parapet walls of the roofing systems
10-17-JP-23 & 24	Adhesive at Parapet Wall	Yellow	Roofing	Roof 2	250 SF	10% Chrysotile	Adhesive found behind rubber membrane on CMU block parapet wall associated with roof 2 only
10-17-JP-25 & 26	Felts on CMU Parapet Wall	Black	Roofing	Roof 2	250 SF	10% Chrysotile	Felt associated with rubber membrane on CMU block parapet wall
10-17-JP-39 & 40	Flashing Cement at Penetrations	Gray	Flashing Cement	Roofs 5 & 8	200 SF	15% Chrysotile	Flashing cement found on penetrations. Found at skylights, vents, and HVAC units where the component meets the roofing system
Assume	Sink Undercoating's	Black	Anti-Condensate	Rooms 016, 027	4 sinks	Assume	Sink anti-condensate coating on underside of metal sinks
Assume	Wood Window Glazing Compound	White	Glazing Compound	Room 005	5 openings	Assume	Interior window glazing compound found on wood window sash
Assume	Wood Window Frame Caulk	White	Window Frame Caulk	Room 005	5 openings	Assume	Interior window frame caulk
Assume	Electrical Switch Gears/ Electrical Breakers		Mechanical Equipment	Basement	5 each	Assume	Interior of electric panels
Assume	Ceramic Floor/ Wall Tile adhesive and grout	White	Tiles	Rooms 011, 016A, Storage B, 2nd Floor bathrooms	1,300 SF	Assume	Ceramic Floor /Wall Tile adhesives and grouts

LEGEND

ACM = ASBESTOS CONTAINING MATERIAL

LF = LINEAR FOOT

SF = SQUARE FOOT

Asbestos Sampling Date: 10/17/2013

Sample #	Material	Color	Description	Location	Result
10-17-JW-07 & 08	Sheetrock	White	Walls	Room 001	None Detected
10-17-JW-09 & 10	Joint Compound	White	Walls	Room 001	None Detected
10-17-JW-11 & 12	Concrete	Gray	Walls	Room 002	None Detected
10-17-JW-13 & 14	Brick Mortar	Gray	Walls	Room 002	None Detected
10-17-JW-15 & 16	2x4 Ceiling Tiles	Gray	Ceiling	Room 004	None Detected
10-17-JW-17 & 18	Carpet Adhesive	Brown/Tan	Flooring	Room 004	None Detected
10-17-JW-19 & 20	Vinyl Cove Base	Gray	Cove Base	Room 004	None Detected
10-17-JW-21 & 22	Vinyl Cove Base Adhesive	Tan	Cove Base	Room 004	None Detected
10-17-JW-23 & 24	1'x1' Ceiling Tile	White	Ceiling	Room 004	None Detected
10-17-JW-27 & 28	Fiberboard	Brown	Walls	Room 006	None Detected
10-17-JW-29 & 30	Concrete Debris in Old Coal Fire Place	Gray/ White	Debris	Room 006	None Detected
10-17-JW-39 & 40	Stair Tread	Green	Stair Tread	Room 006	None Detected
10-17-JW-41 & 42	Tar on Cork Ceiling	Black	Ceiling Insulation	Room 006	None Detected
10-17-JW-43 & 44	2x4 Older Ceiling Tiles	Gray/White	Ceiling Tile	Room 011	None Detected
10-17-JW-45 to 47	Spray Applied Fire Proofing	Tan	Spray Applied Fire Proofing	Room 011	None Detected
10-17-JW-48 & 49	Vinyl Cove Base	Mauve	Cove Base	Room 011	None Detected
10-17-JW-50 & 51	Chimney Flue Cement	Gray/Red	Flue Cement	Room 012	None Detected
10-17-JW-52 & 53	Fiber Glass Pipe Insulation	White	Pipe Insulation	Room 012	None Detected
10-17-JW-60 & 61	Metal Door Frame Caulk	Tan	Door Frame Caulk	Room 012	None Detected
10-17-JW-62 & 63	Metal Window Frame Caulk	Gray	Window Frame Caulk	Room 012	None Detected
10-17-JW-64 & 65	Vinyl Cove Base	Black	Cove Base	Room 012	None Detected

Table 2
 Summary of Non-Asbestos Containing Materials
 Record Journal
 11 Crown Street
 Meriden, Connecticut

Sample #	Material	Color	Description	Location	Result
10-17-JW-66 & 67	Carpet Adhesive	Brown/Tan	Cove Base	Room 012	None Detected
10-17-JW-68 & 69	2'x4' Newer Ceiling Tiles	Brown	Ceiling	Room 012	None Detected
10-17-JW-70 & 71	Sheetrock	White	Walls	Room 012	None Detected
10-17-JW-72 & 73	Joint Compound	White	Walls	Room 012	0.5% Chrysotile
10-17-JW-74 & 75	Vinyl Cove Base	Black	Cove Base	Room 018	None Detected
10-17-JW-76 & 77	Vinyl Cove Base Adhesive	Tan	Cove Base	Room 018	None Detected
10-17-JW-78 & 79	Adhesive on Cork Board Ceiling	Black	Ceiling	Room 019	None Detected
10-17-JW-80 & 81	Caulk at Shower	White	Shower Surround	Room 020	None Detected
10-17-JW-82 & 83	12"x12" Floor Tile	Blue	Flooring	Room 020	None Detected
10-17-JW-86 & 87	Leveling Compound	White	Flooring	Room 021	None Detected
10-17-JW-88 & 89	Carpet Glue	Brown	Flooring	Room	None Detected
10-17-JW-95 & 96	Expansion Joint Felts	Black	Insulation	2nd Floor	None Detected
10-17-JW-97 & 98	Fiberboard	Brown	Walls	Copy Room	None Detected
10-17-JW-99 & 100	Vinyl Stair Tread	Black	Stair Tread	Room 018	None Detected
10-17-JW-101 & 102	1'x1' ACT	Gray	Ceiling	2nd Floor O/S photo	None Detected
10-17-JW-103 & 104	1'x1' Hole & Fischer ACT	Gray	Ceiling	2nd Floor	None Detected
10-17-JW-105 & 106	Concrete Block Mortar	Gray	Walls	Storage 2	None Detected
10-17-JW-109 & 111	Textured Wall Paint	Brown	Exterior Façade	Exterior Façade	None Detected
10-17-JW-112 & 113	Expansion Joint Caulk	Grey	Expansion Joint Caulk	Exterior Façade	None Detected
10-17-JW-114 & 115	Felt Behind Caulk	Grey	Felt Insulation	Exterior Façade	None Detected
10-17-JW-118 & 119	Window Frame Caulk	Grey	Window Frame Caulk	Exterior Façade	None Detected

Table 2
 Summary of Non-Asbestos Containing Materials
 Record Journal
 11 Crown Street
 Meriden, Connecticut

Sample #	Material	Color	Description	Location	Result
10-17-JW-120 & 121	Window Sill Caulk	White	Window Frame Caulk	Exterior Façade	None Detected
10-17-JP-01 & 02	Built Up Roofing	Black	Roofing	Roof 1	None Detected
10-17-JP-03 & 04	Fiberboard Insulation	Tan	Roofing	Roof 1	None Detected
10-17-JP-05 & 06	Bottom Layer Felts	Black	Roofing	Roof 1	None Detected
10-17-JP-07 & 08	Bottom Layer Tar	Black	Roofing	Roof 1	None Detected
10-17-JP-13 & 14	Caulk @ Aluminum Parapet Cap	Grey	Caulking	Roof 1	None Detected
10-17-JP-15 & 16	Black Flashing Cement at Vents	Black	Flashing Cement	Roof 1	None Detected
10-17-JP-17 & 18	Flashing Cement	Black	Flashing Cement	Roof 1	None Detected
10-17-JP-19 & 20	Fiberboard Insulation	Brown	Roof Insulation	Roof 2	None Detected
10-17-JP-21 & 22	Seam Cement	Black	Roofing	Roof 2	None Detected
10-17-JP-27 & 28	Flashing Cement at Parapet Walls	Black	Roofing	Roof 2	None Detected
10-17-JP-29 & 30	Caulk at Aluminum Parapet Cap	White	Roofing	Roof 2	None Detected
10-17-JP-31 & 32	Caulk at parapet/ Brick junction	White	Caulking	Roof 4	None Detected
10-17-JP-33 & 34	Expansion Joint Caulk	Gray	Expansion Joint Caulk	Roof 4	None Detected
10-17-JP-35 & 36	Built Up Roofing	Black	Roofing	Roof 5	None Detected
10-17-JP-37 & 38	Bottom Layer Paper	Brown/Black	Roofing	Roof 6	None Detected
10-17-JP-41 & 42	Tar on Wood Parapet	Black	Roofing	Roof 5	None Detected
10-17-JP-43 & 44	Edge Flashing Cement	Black	Roofing	Roof 5	None Detected
10-17-JP-45 & 46	Caulk on HVAC	White	Caulking	Roof 8	None Detected

LEGEND

ACM = ASBESTOS CONTAINING MATERIAL
 LF = LINEAR FOOT
 SF = SQUARE FOOT

Table 3
 Record Journal
 Summary of XRF Screening
 11 Crown Street
 Meriden, CT

XRF Screening & Lead Sampling Date: 10/17/2013

Component	Room	Side	Paint Color	Substrate	XRF Result (mg/cm²)
Wall	006A	B	Green	Brick	2.64
Ceiling	006A	Ceiling	White	Plaster	0.01
Fire Door	006A	C	Black	Metal	1.17
Wall	002	B	Green	Brick	0.97
I-Beam	001	Ceiling	Black	Steel	0.13
Wall	003	C	White	Cement	1.09
Wall	003	C	Green	Cement	1.07
Wall	003	D	Green	Brick	0.01
Wall	005	A	Green	Brick	2.62
Wall	005	A	Grey	Brick	1.96
Window Sash	005	A	Grey	Wood	0.08
Wall	012	C	White	Block	0.02
Stair Stringer	012	A	White	Metal	0.02
Door Frame	018	B	Grey	Metal	0.33
Wall	018	D	Grey	Block	0.02
Wall	Storage A	A	Green	Brick	0.07
I-Beam	Storage A	Ceiling	Green	Steel	1.79

Table 3
 Record Journal
 Summary of XRF Screening
 11 Crown Street
 Meriden, CT

Component	Room	Side	Paint Color	Substrate	XRF Result (mg/cm²)
Wall	Storage B	A	Green	Brick	0.22
Wall	Storage B	B	Green	Cement	0
Wall	Hall 2nd Floor	C	White	Sheetrock	0.33
Door Frame	Hall 2nd Floor	C	Grey	Wood	0.41
I-Beam	Hall 2nd Floor	Ceiling	Black	Steel	0.49
Wall	Hall 3rd Floor	B	White	Block	0.07
Door Frame	Hall 3rd Floor	B	Grey	Metal	0.01
Door Frame	Hall 3rd Floor	D	White	Wood	0
Wall	News Room	B	White	Sheetrock	0
Door Frame	News Room	C	White	Wood	0
Wall	Hall O/S News Rm	C	White	Brick	0
Column	Hall O/S News Rm C		White	Steel	0
Ceiling	021	Ceiling	Green	Wood	0.13
Pipe	021	Ceiling	Green	Steel	0.31
I-Beam	021	Ceiling	Black	Steel	0.02

Notes

XRF = X-Ray Fluorescence Analyzer
 mg/cm² = milligrams per square centimeter

Table 4
 Summary of PCB Sampling Results
 Record Journal
 11 Crown Street
 Meriden, CT

PCB Sampling Date: 10/17/2013

Sample #	Description	Sample Location	Result (ppm)	Quantity	Notes
10-17 PCB 01	Expansion Joint Caulk	Roof 4	1.9	100 LF	Found on upper exterior facades at concrete block expansion seams
10-17 PCB 02	Caulk at Parapet Wall	Roof 4	ND<0.81	NA	Found at parapet wall/ brick junction
10-17 PCB 03	Caulk on HVAC	Roof 5	ND<0.83	NA	Found at metal seams on HVAC unit
10-17 PCB 04	Caulk on Metal Parapet Cap	Roof 1	7.8	150 LF	Found on metal cap and stone coping
10-17 PCB 05	*Grey Door Frame Caulk	Exterior Façades	1.8	7 Openings @ 17 LF each	Found at exterior door frames
10-17 PCB 06	Expansion Joint Caulk	Exterior Façades	3.4	200 LF	Found on exterior facades at brick expansion seams
10-17 PCB 07	Grey Window Frame Caulk	Exterior Façades	58	300 LF	Found at exterior window frames
10-17 PCB 08	White Caulk at Window Sills	Exterior Façades	4,100	590 LF	Found on exterior concrete window sills
10-17 PCB 09	*Gray Window Glazing Compound	Exterior Façades	19	6 Sashes @ 4' x 4' 9 Sashes @ 4' x 6'	Found on exterior metal window sashes
10-17 PCB 10	Green/Gray Paint	Basement and First Floor	6.6	6000 SF	Found at the walls throughout the basement and first floor
10-17 PCB 11	Blue Paint	Storage B on First Floor	7.7	350 SF	Found at the door frames and doors
10-17 PCB 12	Brown Paint	Storage B on First Floor	2.6	6,500 SF	Found on Concrete Block Walls and Brick Walls
10-17 PCB 13	Green/Cream Paint	First Floor	ND<0.33	NA	Found on Concrete Block Walls and Brick Walls
10-17 PCB 14	Off White Paint	First Floor	11	350 SF	Found on sanitary pipe lines
10-17 PCB 15	White Paint	Room 019	23	7,800 SF	Found on concrete block walls and brick walls

Notes

ppm = parts per million

ND = not detected above laboratory detection limits

*Material also contains asbestos

LF= Linear Feet

SF= Square Feet

Bold Text indicates PCBs in concentrations greater than 1ppm.

Table 5
 Summary of Universal Wastes
 Record Journal
 11 Crown Street
 Meriden, CT

Inventory Date: 10/16/2013

Location	Lighting Ballasts	Fluorescent Light Bulbs (LF)	Emergency Lights	Exit Signs	Thermostats	Transformers	Refrigerants	Capacitors	Miscellaneous Items
Basement	67	456	3	9	0	1	2 Window Air Conditioning Units	0	-
1st Floor	98	744	7	10	2	0	-	0	10 Fire Extinguishers
Storage Areas	79	648	10	10	2	1 @ 1.5'x1' (Dry)	-	14 (Associated w/ Sodium Bulbs), 1 (Associated w/ Ceiling Heater)	14 High Pressure Sodium Bulbs, 9 Gallons of Ink
Roof	-	-	-	-	-	-	40 Gallons at Roof Top HVAC Units	-	-

Notes

LF = Linear Feet

Table 6
 Opinion of Probable Hazardous Building Materials Removal and Disposal Costs
 Record Journal Building
 11 Crown Street
 Meriden, CT

ASBESTOS ABATEMENT

MATERIAL	QUANTITY	UNIT COST	TOTAL COST
PIPE INSULATION	1,450 SF	\$ 30	\$ 43,500
MUDDER PIPE FITTING CEMENT	195 SF	\$ 25	\$ 4,875
TRANSITE PANELS	60 LF	\$ 5	\$ 300
FLOOR TILE AND MASTIC	2,475 SF	\$ 5	\$ 12,375
*WINDOW GLAZING COMPOUND	276 LF	\$ SEE BELOW	\$ SEE BELOW
*DOOR FRAME CAULK	119 LF	\$ SEE BELOW	\$ SEE BELOW
PIN TAB ADHESIVE	225 SF	\$ 10	\$ 2,250
PARAPET WALL FELTS	1,300 SF	\$ 4	\$ 5,200
TAR ON PARAPET BASE WOOD SUBSTRATE	1,300 SF	\$ 4	\$ 5,200
YELLOW PARAPET WALL ADHESIVE	250 SF	\$ 4	\$ 1,000
TAR AND ROOF FELTS ON CONCRETE BLOCK WALLS	250 SF	\$ 7	\$ 1,750
GREY ROOF TAR	200 SF	\$ 3	\$ 600
SINK UNDER COATINGS	6 EA	\$ 100	\$ 600
WOOD WINDOW GLAZING COMPOUND	15 EA	\$ 100	\$ 1,500
COMPOSITE ELECTRICAL SWITCHES	5 SF	\$ 75	\$ 375
CERAMIC FLOOR AND WALL TILE ADHESIVES AND GROUTS	1,300 SF	\$ 6	\$ 7,800
COMPOSITE ELECTRICAL SWITCHES	5 SF	\$ 75	\$ 375
 SUB-TOTAL			\$ 87,700
ASBESTOS ABATEMENT CONTINGENCY (30%)			\$ 26,310
 ASBESTOS ABATEMENT TOTAL			\$ 114,010

*Note: Material contains asbestos and PCBs and will require disposal as an asbestos/PCB waste. Abatement and disposal costs for this material are reflected in the PCB abatement cost table.

PCB PAINT, CAULK AND WINDOW GLAZING ABATEMENT

MATERIAL	QUANTITY	UNIT COST	TOTAL COST
PCB CAULK REMOVAL AND DISPOSAL <50 PPM	890 LF	\$ 25	\$ 22,250
PCB CAULK REMOVAL >50 PPM	570 LF	\$ 25	\$ 14,250
PCB WINDOW/GLAZING REMOVAL	15 EA	\$ 850	\$ 12,750
PCB DOOR FRAME REMOVAL	7 EA	\$ 175	\$ 1,225
PCB SUBSTRATE REMOVAL (If Required)	1,640 LF	\$ 35	\$ 57,400
PCB PAINT (SANDBLASTING)	21,000 SF	\$ 6	\$ 126,000
PCB PAINT AND MEDIA DISPOSAL	15 TONS	\$ 110	\$ 1,650
PCB CAULK AND WINDOW DISPOSAL >50 PPM	15 TONS	\$ 250	\$ 3,750
 SUB-TOTAL			\$ 239,275
PCB ABATEMENT CONTINGENCY (30%)			\$ 71,783
 PCB ABATEMENT TOTAL			\$ 311,058

Table 6
 Opinion of Probable Hazardous Building Materials Removal and Disposal Costs
 Record Journal Building
 11 Crown Street
 Meriden, CT

UNIVERSAL WASTE REMOVAL

MATERIAL	QUANTITY	UNIT COST	TOTAL COST
LIGHTING BALLASTS	244 EA	\$ 7	\$ 1,708
FLOURESCENT LIGHT TUBES	570 EA	\$ 2	\$ 1,140
EMERGENCY LIGHTING/LEAD ACID BATTERY	20 EA	\$ 15	\$ 300
MERCURY THERMOSTATIC CONTROLS	4 EA	\$ 75	\$ 300
TRANSFORMERS	2 EA	\$ 1,000	\$ 2,000
FREON REFRIGERANTS (GALLONS)	40 GAL	\$ 40	\$ 1,600
PCB CAPACITORS ON ELECTRIC MOTORS	14 EA	\$ 50	\$ 700
HIGH PRESSURE SODIUM BULBS	14 EA	\$ 40	\$ 560
SUB-TOTAL			\$ 8,308
UNIVERSAL WASTE CONTINGENCY (30%)			\$ 2,492
UNIVERSAL WASTE TOTAL			\$ 10,800

ASBESTOS ABATEMENT TOTAL **\$ 114,010**

PCB ABATEMENT TOTAL **\$ 311,058**

UNIVERSAL WASTE TOTAL **\$ 10,800**

ENGINEERING AND LABORATORY COSTS (15%) **\$ 65,380**

TOTAL OPINION OF PROBABLE HAZARDOUS BUILDING MATERIALS REMOVAL AND DISPOSAL COSTS **\$ 501,248**

NOTES: 1) Opinion of Probable Cost is intended to have an accuracy range of +/- 30%.
 2) Additional sampling of source and substrate materials is required to prepare a more accurate Opinion. 3) Engineering and Laboratory costs are estimated at 15% of the total abatement cost. Costs are subject to change based on site conditions, EPA and CTDEEP involvement, and the abatement contractor's schedule.



Tighe & Bond



EMSL Analytical, Inc.

29 North Plains Highway, Unit # 4, Wallingford, CT 06492
Phone/Fax: 203-284-5948 / (203) 284-5978
<http://www.EMSL.com> wallingfordlab@emsl.com

EMSL Order: 241304232
CustomerID: TIGH62
CustomerPO:
ProjectID:

Attn: **James Webb
Tighe & Bond
213 Court Street
Suite 900
Middletown, CT 06457**
Phone: (860) 704-4760
Fax: (860) 704-4775
Received: 10/21/13 4:00 PM
Analysis Date: 10/28/2013
Collected: 10/16/2013
Project: 11 Crown Street Meriden, CT

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
10-16-JW-01 241304232-0001	001 - pipe insulation	White Fibrous Homogeneous		50% Non-fibrous (other)	50% Chrysotile
10-16-JW-02 241304232-0002	001 - pipe insulation				Stop Positive (Not Analyzed)
10-16-JW-03 241304232-0003	001 - pipe insulation				Stop Positive (Not Analyzed)
10-16-JW-04 241304232-0004	001 - mudded pipe fitting cement	Tan Fibrous Homogeneous		45% Non-fibrous (other)	55% Chrysotile
10-16-JW-05 241304232-0005	001 - mudded pipe fitting cement				Stop Positive (Not Analyzed)
10-16-JW-06 241304232-0006	001 - mudded pipe fitting cement				Stop Positive (Not Analyzed)
10-16-JW-07 241304232-0007	001 - sheetrock	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-08 241304232-0008	001 - sheetrock	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-09 241304232-0009	001 - joint compound	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)
Julianna Granese (21) Naadira Carter (48)
Jillian Yurick (43)

Gloria V. Oriol, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial report from 10/28/2013 18:53:10

**EMSL Analytical, Inc.**

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 Phone/Fax: 203-284-5948 / (203) 284-5978
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Attn: **James Webb
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 Suite 900
 Middletown, CT 06457**

Phone: (860) 704-4760
 Fax: (860) 704-4775
 Received: 10/21/13 4:00 PM
 Analysis Date: 10/28/2013
 Collected: 10/16/2013

Project: 11 Crown Street Meriden, CT

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
10-16-JW-10 241304232-0010	001 - joint compound	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-11 241304232-0011	002 - concrete	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-12 241304232-0012	002 - concrete	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-13 241304232-0013	002 - brick mortar	Gray/Red Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-14 241304232-0014	002 - brick mortar	Gray/Red Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-15 241304232-0015	004 - 2x4 ceiling tile	Gray/White Fibrous Homogeneous	30% Cellulose 15% Glass	55% Non-fibrous (other)	None Detected
10-16-JW-16 241304232-0016	004 - 2x4 ceiling tile	Gray/White Fibrous Homogeneous	60% Cellulose 20% Min. Wool	20% Non-fibrous (other)	None Detected
10-16-JW-17 241304232-0017	004 - tan/brown carpet adhesive	Brown/Black/Yellow Fibrous Homogeneous	10% Synthetic	90% Non-fibrous (other)	None Detected

Analyst(s)

Julianna Granese (21) Naadira Carter (48)
 Jillian Yurick (43)

Gloria V. Oriol, Laboratory Manager
 or other approved signatory

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Initial report from 10/28/2013 18:53:10

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Project: 11 Crown Street Meriden, CT

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
10-16-JW-18 241304232-0018	004 - tan/brown carpet adhesive	Brown/Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-19 241304232-0019	004 - grey vcb	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-20 241304232-0020	004 - grey vcb	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-21 241304232-0021	004 - tan vcb adhesive	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-22 241304232-0022	004 - tan vcb adhesive	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-23 241304232-0023	004 - 1x1 act	Brown/White Fibrous Homogeneous	40% Cellulose	60% Non-fibrous (other)	None Detected
10-16-JW-24 241304232-0024	004 - 1x1 act	Brown/White Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (other)	None Detected
10-16-JW-25 241304232-0025	005 - transite panel	White Fibrous Homogeneous		70% Non-fibrous (other)	30% Chrysotile
10-16-JW-26 241304232-0026	005 - transite panel				Stop Positive (Not Analyzed)

Analyst(s)

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Initial report from 10/28/2013 18:53:10



EMSL Analytical, Inc.

29 North Plains Highway, Unit # 4, Wallingford, CT 06492
 Phone/Fax: 203-284-5948 / (203) 284-5978
<http://www.EMSL.com> wallingfordlab@emsl.com

EMSL Order: 241304232
 CustomerID: TIGH62
 CustomerPO:
 ProjectID:

Attn: **James Webb
 Tighe & Bond
 213 Court Street
 Suite 900
 Middletown, CT 06457**

Project: 11 Crown Street Meriden, CT

Phone: (860) 704-4760
 Fax: (860) 704-4775
 Received: 10/21/13 4:00 PM
 Analysis Date: 10/28/2013
 Collected: 10/16/2013

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
10-16-JW-27 241304232-0027	006 - brown fiberboard	Brown/White Fibrous Homogeneous	45% Cellulose	55% Non-fibrous (other)	None Detected
10-16-JW-28 241304232-0028	006 - brown fiberboard	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (other)	None Detected
10-16-JW-29 241304232-0029	006 - concrete debris in old coal fire place	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-30 241304232-0030	006 - concrete debris in old coal fire place	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-31 241304232-0031	005A - tan 12x12 ft	Tan Fibrous Homogeneous		97% Non-fibrous (other)	3% Chrysotile
10-16-JW-32 241304232-0032	005A - tan 12x12 ft				Stop Positive (Not Analyzed)
10-16-JW-33 241304232-0033	005A - black mastic associated w/12x12 ft	Black Fibrous Homogeneous		97% Non-fibrous (other)	3% Chrysotile
10-16-JW-34 241304232-0034	005A - black mastic associated w/12x12 ft				Stop Positive (Not Analyzed)
10-16-JW-35 241304232-0035	005A - black 9x9 ft	Black Fibrous Homogeneous		92% Non-fibrous (other)	8% Chrysotile

Analyst(s)
 Julianna Granese (21) Naadira Carter (48)
 Jillian Yurick (43)

Gloria V. Oriol, Laboratory Manager
 or other approved signatory

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
10-16-JW-36 241304232-0036	005A - black 9x9 ft				Stop Positive (Not Analyzed)
10-16-JW-37 241304232-0037	005A - black mastic associated w/9x9 ft	Black Fibrous Homogeneous		97% Non-fibrous (other)	3% Chrysotile
10-16-JW-38 241304232-0038	005A - black mastic associated w/9x9 ft				Stop Positive (Not Analyzed)
10-16-JW-39 241304232-0039	006 - green stair treads	Green Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-40 241304232-0040	006 - green stair treads	Green Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-41 241304232-0041	006 - black tar on cork ceiling	Brown/Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-42 241304232-0042	006 - black tar on cork ceiling	Brown/Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-43 241304232-0043	011 - 2x4 older ceiling tiles	Gray/White Fibrous Homogeneous	30% Cellulose 10% Min. Wool	60% Non-fibrous (other)	None Detected
10-16-JW-44 241304232-0044	011 - 2x4 older ceiling tiles	Gray Fibrous Homogeneous	60% Cellulose 20% Min. Wool	20% Non-fibrous (other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
10-16-JW-45 241304232-0045	011 - spray applied fire proofing	Tan Fibrous Homogeneous	35% Cellulose 10% Glass	55% Non-fibrous (other)	None Detected
10-16-JW-46 241304232-0046	011 - spray applied fire proofing	Tan Fibrous Homogeneous	35% Cellulose 10% Glass	55% Non-fibrous (other)	None Detected
10-16-JW-47 241304232-0047	011 - spray applied fire proofing	Gray Fibrous Homogeneous	25% Cellulose 10% Glass	65% Non-fibrous (other)	None Detected
10-16-JW-48-Cove Base 241304232-0048	011 - mauve vcb	Mauve Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-48-Mastic 241304232-0048A	011 - mauve vcb	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-49-Cove Base 241304232-0049	011 - mauve vcb	Mauve Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-49-Mastic 241304232-0049A	011 - mauve vcb	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-50 241304232-0050	012 - chimney flue cement	Gray/Red Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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 or other approved signatory

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
10-16-JW-51 241304232-0051	012 - chimney flue cement	Gray Non-Fibrous Homogeneous	10% Wollastonite	90% Non-fibrous (other)	None Detected
10-16-JW-52 241304232-0052	012 - fiber glass pipe insulation	White Fibrous Homogeneous	40% Cellulose 15% Glass	45% Non-fibrous (other)	None Detected
10-16-JW-53 241304232-0053	012 - fiber glass pipe insulation	White Fibrous Homogeneous	75% Cellulose 15% Glass	10% Non-fibrous (other)	None Detected
10-16-JW-54 241304232-0054	012 - brown pin tab adhesive	Brown Non-Fibrous Homogeneous		93% Non-fibrous (other)	7% Chrysotile
10-16-JW-55 241304232-0055	012 - brown pin tab adhesive				Stop Positive (Not Analyzed)
10-16-JW-56 241304232-0056	012 - floor tile	Gray Non-Fibrous Homogeneous		97% Non-fibrous (other)	3% Chrysotile
10-16-JW-57 241304232-0057	012 - floor tile				Stop Positive (Not Analyzed)
10-16-JW-58 241304232-0058	012 - black mastic associated w/floor tile	Black Non-Fibrous Homogeneous		96% Non-fibrous (other)	4% Chrysotile
10-16-JW-59 241304232-0059	012 - black mastic associated w/floor tile				Stop Positive (Not Analyzed)

Analyst(s)

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 Jillian Yurick (43)

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 or other approved signatory

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Project: 11 Crown Street Meriden, CT

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
10-16-JW-60 241304232-0060	012 - tan door frame caulk	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-61 241304232-0061	012 - tan door frame caulk	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-62 241304232-0062	012 - grey window frame caulk	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-63 241304232-0063	012 - grey window frame caulk	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-64-Cove Base 241304232-0064	012 - black vcb	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-64-Mastic 241304232-0064A	012 - black vcb	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-65-Cove Base 241304232-0065	012 - black vcb	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-65-Mastic 241304232-0065A	012 - black vcb	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

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 or other approved signatory

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
10-16-JW-66 241304232-0066	013, 014, 015 - brown/tan carpet adhesive	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-67 241304232-0067	013, 014, 015 - brown/tan carpet adhesive	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-68 241304232-0068	013, 014, 015 - 2x4 newer ceiling tile	Brown Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (other)	None Detected
10-16-JW-69 241304232-0069	013, 014, 015 - 2x4 newer ceiling tile	Brown/White Fibrous Homogeneous	50% Cellulose 30% Min. Wool	20% Non-fibrous (other)	None Detected
10-16-JW-70 241304232-0070	013, 014, 015 - sheetrock	White Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (other)	None Detected
10-16-JW-71 241304232-0071	013, 014, 015 - sheetrock	White Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (other)	None Detected
10-16-JW-72 241304232-0072	013, 014, 015 - joint compound	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	<1% Chrysotile
10-16-JW-73 241304232-0073	013, 014, 015 - joint compound	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	<1% Chrysotile

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
10-16-JW-74 241304232-0074	018 - black vcb	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-75 241304232-0075	018 - black vcb	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-76 241304232-0076	018 - tan vcb adhesive	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-77 241304232-0077	018 - tan vcb adhesive	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-78 241304232-0078	018A, 018, 019, 020 - black adhesive on cork board ceilings	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-79 241304232-0079	018A, 018, 019, 020 - black adhesive on cork board ceilings	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-80 241304232-0080	020 - white caulk at showers	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-81 241304232-0081	020 - white caulk at showers	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
10-16-JW-82-Floor Tile 241304232-0082	020 - blue 12x12 ft	Blue Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-82-Mastic 241304232-0082A	020 - blue 12x12 ft	Tan/Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-83-Floor Tile 241304232-0083	020 - blue 12x12 ft	Blue Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-83-Mastic 241304232-0083A	020 - blue 12x12 ft	Tan/Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-84-Floor Tile 241304232-0084	020 - tan & brown 12x12 ft	Tan Non-Fibrous Homogeneous		98% Non-fibrous (other)	2% Chrysotile
10-16-JW-84-Mastic 241304232-0084A	020 - tan & brown 12x12 ft	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-85 241304232-0085	020 - tan & brown 12x12 ft				Stop Positive (Not Analyzed)
10-16-JW-86 241304232-0086	021 - white leveling compound	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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Initial report from 10/28/2013 18:53:10

**EMSL Analytical, Inc.**

29 North Plains Highway, Unit # 4, Wallingford, CT 06492
 Phone/Fax: 203-284-5948 / (203) 284-5978
<http://www.EMSL.com> wallingfordlab@emsl.com

EMSL Order: 241304232
 CustomerID: TIGH62
 CustomerPO:
 ProjectID:

Attn: **James Webb
 Tighe & Bond
 213 Court Street
 Suite 900
 Middletown, CT 06457**

Phone: (860) 704-4760
 Fax: (860) 704-4775
 Received: 10/21/13 4:00 PM
 Analysis Date: 10/28/2013
 Collected: 10/16/2013

Project: 11 Crown Street Meriden, CT

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
10-16-JW-87 241304232-0087	021 - white leveling compound	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-88 241304232-0088	021 - brown carpet glue	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-89 241304232-0089	021 - brown carpet glue	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-91-Floor Tile 241304232-0090	021A - green 9x9 ft	Green Non-Fibrous Homogeneous		92% Non-fibrous (other)	8% Chrysotile
10-16-JW-91-Mastic 241304232-0090A	021A - green 9x9 ft	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-92 241304232-0091	021A - green 9x9 ft				Stop Positive (Not Analyzed)
10-16-JW-93 241304232-0092	021A - red 9x9 ft	Red Non-Fibrous Homogeneous		93% Non-fibrous (other)	7% Chrysotile
10-16-JW-94 241304232-0093	021A - red 9x9 ft				Stop Positive (Not Analyzed)

Analyst(s)

Julianna Granese (21) Naadira Carter (48)
 Jillian Yurick (43)

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 or other approved signatory

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Project: 11 Crown Street Meriden, CT

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
10-16-JW-95 241304232-0094	2nd floor - expansion joint felts	Black Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (other)	None Detected
10-16-JW-96 241304232-0095	2nd floor - expansion joint felts	Black Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (other)	None Detected
10-16-JW-97 241304232-0096	Copy room - fiberboard	Brown Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (other)	None Detected
10-16-JW-98 241304232-0097	Copy room - fiberboard	Brown Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (other)	None Detected
10-16-JW-99 241304232-0098	018 - black vinyl stair tread	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-100 241304232-0099	018 - black vinyl stair tread	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-101 241304232-0100	2nd floor o/s photo - 1x1 ceiling tile	Gray Fibrous Homogeneous	30% Cellulose 60% Min. Wool	10% Non-fibrous (other)	None Detected
10-16-JW-102 241304232-0101	2nd floor o/s photo - 1x1 ceiling tile	Gray/White Fibrous Homogeneous	60% Cellulose 20% Min. Wool	20% Non-fibrous (other)	None Detected

Analyst(s)

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Project: 11 Crown Street Meriden, CT

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
10-16-JW-103 241304232-0102	2nd floor - 1x1 hole act	Gray Fibrous Homogeneous	60% Cellulose 30% Min. Wool	10% Non-fibrous (other)	None Detected
10-16-JW-104 241304232-0103	2nd floor - 1x1 hole act	Gray/White Fibrous Homogeneous	50% Cellulose 30% Min. Wool	20% Non-fibrous (other)	None Detected
10-16-JW-105 241304232-0104	Storage 2 - concrete block mortar	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-106 241304232-0105	Storage 2 - concrete block mortar	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-107 241304232-0106	Storage 3 - black wgc	Black Non-Fibrous Homogeneous		97% Non-fibrous (other)	3% Chrysotile
10-16-JW-108 241304232-0107	Storage 3 - black wgc				Stop Positive (Not Analyzed)
10-16-JW-109 241304232-0108	C-side - brown textured wall paint	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-110 241304232-0109	C-side - brown textured wall paint	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-111 241304232-0110	C-side - brown textured wall paint	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
10-16-JW-112 241304232-0111	C-side - grey expansion joint caulk	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-113 241304232-0112	C-side - grey expansion joint caulk	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-114 241304232-0113	C-side - grey felt behind caulk	Gray Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (other)	None Detected
10-16-JW-115 241304232-0114	C-side - grey felt behind caulk	Gray Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (other)	None Detected
10-16-JW-116 241304232-0115	B-side - old grey residual wfc	Brown Non-Fibrous Homogeneous		98% Non-fibrous (other)	2% Chrysotile
10-16-JW-117 241304232-0116	B-side - old grey residual wfc				Stop Positive (Not Analyzed)
10-16-JW-118 241304232-0117	B-side - grey wfc	Brown/Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-119 241304232-0118	B-side - grey wfc	Brown/Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-120 241304232-0119	B-side - white sill and stone caulk	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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Tighe & Bond
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Project: 11 Crown Street Meriden, CT

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
10-16-JW-121 241304232-0120	B-side - white sill and stone caulk	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-16-JW-122 241304232-0121	B-side - black metal wgc	Black Non-Fibrous Homogeneous		96% Non-fibrous (other)	4% Chrysotile
10-16-JW-123 241304232-0122	B-side - black metal wgc				Stop Positive (Not Analyzed)

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wallingfordlab@emsl.com

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Project: 11 Crown Street Meriden, CT	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
10-17-JP-01 241304231-0001	Roof 1 - built up roofing	Black Fibrous Homogeneous	5% Glass 3% Cellulose	92% Non-fibrous (other)	None Detected
10-17-JP-02 241304231-0002	Roof 1 - built up roofing	Black Fibrous Homogeneous	15% Glass	85% Non-fibrous (other)	None Detected
10-17-JP-03 241304231-0003	Roof 1 - fiberboard insulation	Tan Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (other)	None Detected
10-17-JP-04 241304231-0004	Roof 1 - fiberboard insulation	Brown Fibrous Homogeneous	85% Cellulose	15% Non-fibrous (other)	None Detected
10-17-JP-05 241304231-0005	Roof 1 - bottom layer felts	Black Non-Fibrous Homogeneous	25% Cellulose <1% Fibrous (other)	75% Non-fibrous (other)	None Detected
10-17-JP-06 241304231-0006	Roof 1 - bottom layer felts	Black Fibrous Homogeneous	35% Cellulose	65% Non-fibrous (other)	None Detected
10-17-JP-07 241304231-0007	Roof 1 - bottom layer black tar on metal deck	Black Non-Fibrous Homogeneous	5% Cellulose <1% Glass	95% Non-fibrous (other)	None Detected
10-17-JP-08 241304231-0008	Roof 1 - bottom layer black tar on metal deck	Black Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected

Analyst(s)

 Kristin Lopez (21)
 Renaldo Drakes (20)



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 or other approved signatory

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
10-17-JP-09 241304231-0009	Roof 1 - felt @ parapet wall	Black Non-Fibrous Homogeneous	30% Cellulose	35% Non-fibrous (other)	35% Chrysotile
10-17-JP-10 241304231-0010	Roof 1 - felt @ parapet wall				Stop Positive (Not Analyzed)
10-17-JP-11 241304231-0011	Roof 1 - black tar on wood parapet	Black Non-Fibrous Homogeneous	<1% Cellulose	83% Non-fibrous (other)	17% Chrysotile
10-17-JP-12 241304231-0012	Roof 1 - black tar on wood parapet				Stop Positive (Not Analyzed)
10-17-JP-13 241304231-0013	Roof 1 - grey caulk @ aluminum parapet cap	Gray Non-Fibrous Homogeneous	<1% Fibrous (other)	100% Non-fibrous (other)	None Detected
10-17-JP-14 241304231-0014	Roof 1 - grey caulk @ aluminum parapet cap	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-17-JP-15 241304231-0015	Roof 1 - black flashing cement at vents	Black Non-Fibrous Homogeneous	12% Cellulose	88% Non-fibrous (other)	None Detected
10-17-JP-16 241304231-0016	Roof 1 - black flashing cement at vents	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-17-JP-17 241304231-0017	Roof 1 - grey flashing on HVAC duct	Black Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected

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			% Fibrous	% Non-Fibrous	% Type
10-17-JP-18 241304231-0018	Roof 1 - grey flashing on HVAC duct	Black Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected
10-17-JP-19 241304231-0019	Roof 2 - fiberboard insulation	Brown Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (other)	None Detected
10-17-JP-20 241304231-0020	Roof 2 - fiberboard insulation	Brown Fibrous Homogeneous	100% Cellulose	0% Non-fibrous (other)	None Detected
10-17-JP-21 241304231-0021	Roof 2 - black seam cement	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-17-JP-22 241304231-0022	Roof 2 - black seam cement	Black Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
10-17-JP-23 241304231-0023	Roof 2 - yellow adhesive at parapet wall	Black Non-Fibrous Homogeneous	8% Glass	82% Non-fibrous (other)	10% Chrysotile
10-17-JP-24 241304231-0024	Roof 2 - yellow adhesive at parapet wall				Stop Positive (Not Analyzed)
10-17-JP-25 241304231-0025	Roof 2 - black felts on CMU parapet wall	Black Non-Fibrous Homogeneous	8% Cellulose	82% Non-fibrous (other)	10% Chrysotile
10-17-JP-26 241304231-0026	Roof 2 - black felts on CMU parapet wall				Stop Positive (Not Analyzed)

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 Collected:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
10-17-JP-27 241304231-0027	Roof 2 - black flashing cement @ parapet wall	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-17-JP-28 241304231-0028	Roof 2 - black flashing cement @ parapet wall	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-17-JP-29 241304231-0029	Roof 2 - white caulk at aluminum cap at parapet wall	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-17-JP-30 241304231-0030	Roof 2 - white caulk at aluminum cap at parapet wall	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-17-JP-31 241304231-0031	Roof 4 - caulk at parapet/brick junction	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-17-JP-32 241304231-0032	Roof 4 - caulk at parapet/brick junction	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-17-JP-33 241304231-0033	Roof 4 - expansion joint caulk	Gray Non-Fibrous Homogeneous	<1% Cellulose <1% Fibrous (other)	100% Non-fibrous (other)	None Detected
10-17-JP-34 241304231-0034	Roof 4 - expansion joint caulk	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)
 Kristin Lopez (21)
 Renaldo Drakes (20)


 Gloria V. Oriol, Laboratory Manager
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. Wallingford, CT NVLAP Lab Code 200700-0.

Initial report from 10/28/2013 13:36:49



EMSL Analytical, Inc.

29 North Plains Highway, Unit # 4, Wallingford, CT 06492

Phone/Fax: 203-284-5948 / (203) 284-5978

<http://www.EMSL.com>

wallingfordlab@emsl.com

EMSL Order:	241304231
CustomerID:	TIGH62
CustomerPO:	
ProjectID:	

Attn: James Webb Tighe & Bond 213 Court Street Suite 900 Middletown, CT 06457	Phone: (860) 704-4760 Fax: (860) 704-4775 Received: 10/21/13 4:00 PM Analysis Date: 10/28/2013 Collected:
Project: 11 Crown Street Meriden, CT	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
10-17-JP-35 241304231-0035	Roof 5 - built up roofing on Styrofoam	Black Non-Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (other)	None Detected
10-17-JP-36 241304231-0036	Roof 5 - built up roofing on Styrofoam	Black Fibrous Homogeneous	35% Cellulose	65% Non-fibrous (other)	None Detected
10-17-JP-37 241304231-0037	Roof 6 - bottom layer paper	Brown/Black Fibrous Homogeneous	15% Cellulose <1% Glass	85% Non-fibrous (other)	None Detected
10-17-JP-38 241304231-0038	Roof 6 - bottom layer paper	Black Fibrous Homogeneous	25% Cellulose	75% Non-fibrous (other)	None Detected
10-17-JP-39 241304231-0039	Roof 8 - grey flashing cement at penetrations	Black Non-Fibrous Homogeneous	<1% Cellulose	85% Non-fibrous (other)	15% Chrysotile
10-17-JP-40 241304231-0040	Roof 8 - grey flashing cement at penetrations				Stop Positive (Not Analyzed)
10-17-JP-41 241304231-0041	Roof 5 - black tar on wood parapet	Black Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
10-17-JP-42 241304231-0042	Roof 5 - black tar on wood parapet	Black Non-Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (other)	None Detected

Sample Labeled #42

Analyst(s)

 Kristin Lopez (21)
 Renaldo Drakes (20)

 Gloria V. Oriol, Laboratory Manager
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. Wallingford, CT NVLAP Lab Code 200700-0.

Initial report from 10/28/2013 13:36:49

**EMSL Analytical, Inc.**

29 North Plains Highway, Unit # 4, Wallingford, CT 06492

Phone/Fax: 203-284-5948 / (203) 284-5978

<http://www.EMSL.com>wallingfordlab@emsl.com

EMSL Order:	241304231
CustomerID:	TIGH62
CustomerPO:	
ProjectID:	

Attn: **James Webb
Tighe & Bond
213 Court Street
Suite 900
Middletown, CT 06457**

Phone: (860) 704-4760
Fax: (860) 704-4775
Received: 10/21/13 4:00 PM
Analysis Date: 10/28/2013
Collected:

Project: 11 Crown Street Meriden, CT

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
10-17-JP-43 241304231-0043	Roof 5 - black flashing at edges	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10-17-JP-44 241304231-0044	Roof 5 - black flashing at edges	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
Sample Labeled #42					
10-17-JP-45 241304231-0045	Roof 8 - white caulk on HVAC	White Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
10-17-JP-46 241304231-0046	Roof 8 - white caulk on HVAC	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

Kristin Lopez (21)
Renaldo Drakes (20)

Gloria V. Oriol, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Wallingford, CT NVLAP Lab Code 200700-0.

Initial report from 10/28/2013 13:36:49



EMSL Analytical, Inc.

29 North Plains Highway, Unit # 4, Wallingford, CT 06492
Phone/Fax: 203-284-5948 / (203) 284-5978
<http://www.EMSL.com> wallingfordlab@emsl.com

EMSL Order: 241304232
CustomerID: TIGH62
CustomerPO:
ProjectID:


Attn: **James Webb**
Tighe & Bond
213 Court Street
Suite 900
Middletown, CT 06457
Project: 11 Crown Street Meriden, CT

Phone: (860) 704-4760
Fax: (860) 704-4775
Received: 10/21/13 4:00 PM
Analysis Date: 11/3/2013
Collected: 10/16/2013

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy. Quantitation using 400 Point Count Procedure

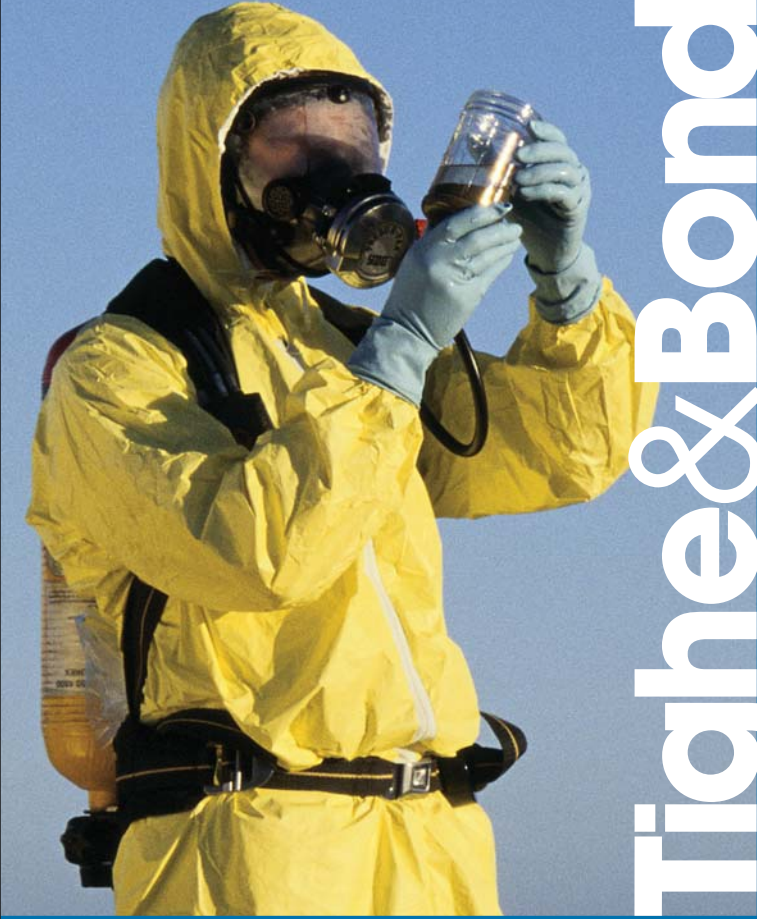
Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
10-16-JW-72 241304232-0072	013, 014, 015 - joint compound	Tan Non-Fibrous Homogeneous		99.75% Non-fibrous (other)	0.25% Chrysotile
10-16-JW-73 241304232-0073	013, 014, 015 - joint compound	Tan Non-Fibrous Homogeneous		99.50% Non-fibrous (other)	0.50% Chrysotile

Analyst(s)
Brittany Brown (2)


Gloria V. Oriol, Laboratory Manager
or other approved signatory

Disclaimer: Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. The limit of detection as stated in the method is 0.25%. EMSL Analytical Inc suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval of EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government. EMSL Analytical Inc., bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc., liability is limited to the cost of sample analysis. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.
Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial report from 11/04/2013 08:43:08



Tighe & Bond



Thursday, October 31, 2013

Attn: Mr James Webb
Tighe & Bond
213 Court St
Suite 900
Middletown, CT 06457

Project ID: RECORD JOURNAL
Sample ID#s: BF66119 - BF66133

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

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

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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 black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

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

October 31, 2013

FOR: Attn: Mr James Webb
 Tighe & Bond
 213 Court St
 Suite 900
 Middletown, CT 06457

Sample Information

Matrix: SOLID
 Location Code: TIGHE
 Rush Request: Standard
 P.O.#:

Custody Information

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

Date Time

10/17/13 14:55
 10/21/13 15:51

Laboratory Data

SDG ID: GBF66119
 Phoenix ID: BF66119

Project ID: RECORD JOURNAL
 Client ID: 10-17 PCB01-EXPANSION JOINT CAULK AT R 4

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	10/21/13		E160.3
Caulk Extraction for PCB	Completed			10/22/13	BB/X	SW3540C

PCB (Soxhlet)

PCB-1016	ND	720	ug/Kg	10/30/13	AW	3540C/8082
PCB-1221	ND	720	ug/Kg	10/30/13	AW	3540C/8082
PCB-1232	ND	720	ug/Kg	10/30/13	AW	3540C/8082
PCB-1242	ND	720	ug/Kg	10/30/13	AW	3540C/8082
PCB-1248	ND	720	ug/Kg	10/30/13	AW	3540C/8082
PCB-1254	1900	720	ug/Kg	10/30/13	AW	3540C/8082
PCB-1260	ND	720	ug/Kg	10/30/13	AW	3540C/8082
PCB-1262	ND	720	ug/Kg	10/30/13	AW	3540C/8082
PCB-1268	ND	720	ug/Kg	10/30/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	108		%	10/30/13	AW	30 - 150 %
% TCMX	104		%	10/30/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

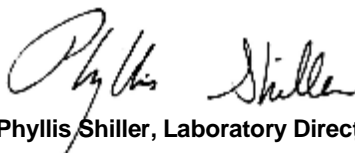
%SOLIDS ASSUMED 100%

* For PCBs, in order to reach the desired RL, multiple cleanup steps were performed. The extract was cleaned up with a combination of sulfuric acid, potassium permanganate, copper powder and additional florasil.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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

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Phyllis Shiller, Laboratory Director

October 31, 2013

Reviewed and Released by: Ethan Lee, Project Manager



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

Analysis Report

October 31, 2013

FOR: Attn: Mr James Webb
 Tighe & Bond
 213 Court St
 Suite 900
 Middletown, CT 06457

Sample Information

Matrix: SOLID
 Location Code: TIGHE
 Rush Request: Standard
 P.O.#:

Custody Information

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

Date	Time
10/17/13	15:00
10/21/13	15:51

Laboratory Data

SDG ID: GBF66119
 Phoenix ID: BF66120

Project ID: RECORD JOURNAL
 Client ID: 10-17 PCB02-CAULK AT PARAPIT/BRICK

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	10/21/13		E160.3
Caulk Extraction for PCB	Completed			10/22/13	BB/X	SW3540C

PCB (Soxhlet)

PCB-1016	ND	810	ug/Kg	10/30/13	AW	3540C/8082
PCB-1221	ND	810	ug/Kg	10/30/13	AW	3540C/8082
PCB-1232	ND	810	ug/Kg	10/30/13	AW	3540C/8082
PCB-1242	ND	810	ug/Kg	10/30/13	AW	3540C/8082
PCB-1248	ND	810	ug/Kg	10/30/13	AW	3540C/8082
PCB-1254	ND	810	ug/Kg	10/30/13	AW	3540C/8082
PCB-1260	ND	810	ug/Kg	10/30/13	AW	3540C/8082
PCB-1262	ND	810	ug/Kg	10/30/13	AW	3540C/8082
PCB-1268	ND	810	ug/Kg	10/30/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	112		%	10/30/13	AW	30 - 150 %
% TCMX	107		%	10/30/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

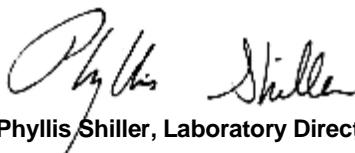
%SOLIDS ASSUMED 100%

* For PCBs, in order to reach the desired RL, multiple cleanup steps were performed. The extract was cleaned up with a combination of sulfuric acid, potassium permanganate, copper powder and additional florasil.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

October 31, 2013

Reviewed and Released by: Ethan Lee, Project Manager



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

Analysis Report

October 31, 2013

FOR: Attn: Mr James Webb
 Tighe & Bond
 213 Court St
 Suite 900
 Middletown, CT 06457

Sample Information

Matrix: SOLID
 Location Code: TIGHE
 Rush Request: Standard
 P.O.#:

Custody Information

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

Date Time

10/17/13 15:10
 10/21/13 15:51

Laboratory Data

SDG ID: GBF66119
 Phoenix ID: BF66121

Project ID: RECORD JOURNAL
 Client ID: 10-17 PCB03-CAULK ON HVAC METAL SEAMS R5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	10/21/13		E160.3
Caulk Extraction for PCB	Completed			10/22/13	BB/X	SW3540C

PCB (Soxhlet)

PCB-1016	ND	830	ug/Kg	10/23/13	AW	3540C/8082
PCB-1221	ND	830	ug/Kg	10/23/13	AW	3540C/8082
PCB-1232	ND	830	ug/Kg	10/23/13	AW	3540C/8082
PCB-1242	ND	830	ug/Kg	10/23/13	AW	3540C/8082
PCB-1248	ND	830	ug/Kg	10/23/13	AW	3540C/8082
PCB-1254	ND	830	ug/Kg	10/23/13	AW	3540C/8082
PCB-1260	ND	830	ug/Kg	10/23/13	AW	3540C/8082
PCB-1262	ND	830	ug/Kg	10/23/13	AW	3540C/8082
PCB-1268	ND	830	ug/Kg	10/23/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	62		%	10/23/13	AW	30 - 150 %
% TCMX	59		%	10/23/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

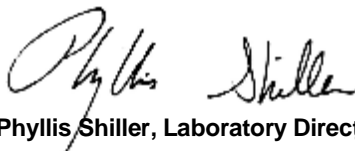
Comments:

%SOLIDS ASSUMED 100%

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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

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Phyllis Shiller, Laboratory Director

October 31, 2013

Reviewed and Released by: Ethan Lee, Project Manager



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

Analysis Report

October 31, 2013

FOR: Attn: Mr James Webb
 Tighe & Bond
 213 Court St
 Suite 900
 Middletown, CT 06457

Sample Information

Matrix: SOLID
 Location Code: TIGHE
 Rush Request: Standard
 P.O.#:

Custody Information

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

Date	Time
10/17/13	15:20
10/21/13	15:51

Laboratory Data

SDG ID: GBF66119
 Phoenix ID: BF66122

Project ID: RECORD JOURNAL
 Client ID: 10-17 PCB04-CAULK ON METAL PARAPIT CAP R1

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	10/21/13		E160.3
Caulk Extraction for PCB	Completed			10/22/13	BB/X	SW3540C

PCB (Soxhlet)

PCB-1016	ND	1500	ug/Kg	10/24/13	AW	3540C/8082
PCB-1221	ND	1500	ug/Kg	10/24/13	AW	3540C/8082
PCB-1232	ND	1500	ug/Kg	10/24/13	AW	3540C/8082
PCB-1242	ND	1500	ug/Kg	10/24/13	AW	3540C/8082
PCB-1248	ND	1500	ug/Kg	10/24/13	AW	3540C/8082
PCB-1254	7800	1500	ug/Kg	10/24/13	AW	3540C/8082
PCB-1260	ND	1500	ug/Kg	10/24/13	AW	3540C/8082
PCB-1262	ND	1500	ug/Kg	10/24/13	AW	3540C/8082
PCB-1268	ND	1500	ug/Kg	10/24/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	>150		%	10/24/13	AW	30 - 150 %	3
% TCMX	139		%	10/24/13	AW	30 - 150 %	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

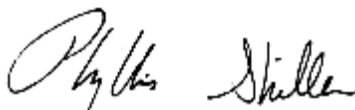
Comments:

%SOLIDS ASSUMED 100%

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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

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Phyllis Shiller, Laboratory Director

October 31, 2013

Reviewed and Released by: Ethan Lee, Project Manager



Environmental Laboratories, Inc.

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

Analysis Report

October 31, 2013

FOR: Attn: Mr James Webb
Tighe & Bond
213 Court St
Suite 900
Middletown, CT 06457

Sample Information

Matrix: SOLID
Location Code: TIGHE
Rush Request: Standard
P.O.#:

Custody Information

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

Date Time

10/17/13 15:30
10/21/13 15:51

Laboratory Data

SDG ID: GBF66119
Phoenix ID: BF66123

Project ID: RECORD JOURNAL
Client ID: 10-17 PCB05-BRITTLE GREY D.F. CAULK FAC B

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	10/21/13		E160.3
Caulk Extraction for PCB	Completed			10/22/13	BB/X	SW3540C

PCB (Soxhlet)

PCB-1016	ND	770	ug/Kg	10/24/13	AW	3540C/8082
PCB-1221	ND	770	ug/Kg	10/24/13	AW	3540C/8082
PCB-1232	ND	770	ug/Kg	10/24/13	AW	3540C/8082
PCB-1242	ND	770	ug/Kg	10/24/13	AW	3540C/8082
PCB-1248	ND	770	ug/Kg	10/24/13	AW	3540C/8082
PCB-1254	1800	770	ug/Kg	10/24/13	AW	3540C/8082
PCB-1260	ND	770	ug/Kg	10/24/13	AW	3540C/8082
PCB-1262	ND	770	ug/Kg	10/24/13	AW	3540C/8082
PCB-1268	ND	770	ug/Kg	10/24/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	110		%	10/24/13	AW	30 - 150 %
% TCMX	116		%	10/24/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

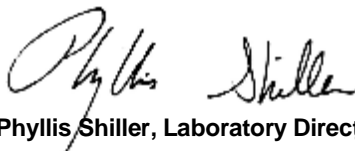
Comments:

%SOLIDS ASSUMED 100%

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

October 31, 2013

Reviewed and Released by: Ethan Lee, Project Manager



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

Analysis Report

October 31, 2013

FOR: Attn: Mr James Webb
 Tighe & Bond
 213 Court St
 Suite 900
 Middletown, CT 06457

Sample Information

Matrix: SOLID
 Location Code: TIGHE
 Rush Request: Standard
 P.O.#:

Custody Information

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

Date

10/17/13 15:35
 10/21/13 15:51

Time

Laboratory Data

SDG ID: GBF66119
 Phoenix ID: BF66124

Project ID: RECORD JOURNAL
 Client ID: 10-17 PCB06-BRITTLE GREEN D.F. CAULK FAC B

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	10/21/13		E160.3
Caulk Extraction for PCB	Completed			10/22/13	BB/X	SW3540C

PCB (Soxhlet)

PCB-1016	ND	1600	ug/Kg	10/24/13	AW	3540C/8082
PCB-1221	ND	1600	ug/Kg	10/24/13	AW	3540C/8082
PCB-1232	ND	1600	ug/Kg	10/24/13	AW	3540C/8082
PCB-1242	ND	1600	ug/Kg	10/24/13	AW	3540C/8082
PCB-1248	ND	1600	ug/Kg	10/24/13	AW	3540C/8082
PCB-1254	3400	1600	ug/Kg	10/24/13	AW	3540C/8082
PCB-1260	ND	1600	ug/Kg	10/24/13	AW	3540C/8082
PCB-1262	ND	1600	ug/Kg	10/24/13	AW	3540C/8082
PCB-1268	ND	1600	ug/Kg	10/24/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	112		%	10/24/13	AW	30 - 150 %
% TCMX	128		%	10/24/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

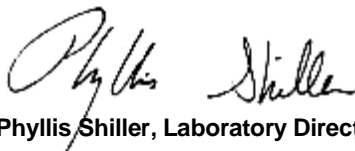
Comments:

%SOLIDS ASSUMED 100%

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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

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Phyllis Shiller, Laboratory Director

October 31, 2013

Reviewed and Released by: Ethan Lee, Project Manager



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

Analysis Report

October 31, 2013

FOR: Attn: Mr James Webb
 Tighe & Bond
 213 Court St
 Suite 900
 Middletown, CT 06457

Sample Information

Matrix: SOLID
 Location Code: TIGHE
 Rush Request: Standard
 P.O.#:

Custody Information

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

Date Time

10/17/13 14:40
 10/21/13 15:51

Laboratory Data

SDG ID: GBF66119
 Phoenix ID: BF66125

Project ID: RECORD JOURNAL
 Client ID: 10-17 PCB07-GREY W.F.C. FAC B

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	10/21/13		E160.3
Caulk Extraction for PCB	Completed			10/22/13	BB/X	SW3540C

PCB (Soxhlet)

PCB-1016	ND	7800	ug/Kg	10/25/13	AW	3540C/8082
PCB-1221	ND	7800	ug/Kg	10/25/13	AW	3540C/8082
PCB-1232	ND	7800	ug/Kg	10/25/13	AW	3540C/8082
PCB-1242	ND	7800	ug/Kg	10/25/13	AW	3540C/8082
PCB-1248	ND	7800	ug/Kg	10/25/13	AW	3540C/8082
PCB-1254	58000	7800	ug/Kg	10/25/13	AW	3540C/8082
PCB-1260	ND	7800	ug/Kg	10/25/13	AW	3540C/8082
PCB-1262	ND	7800	ug/Kg	10/25/13	AW	3540C/8082
PCB-1268	ND	7800	ug/Kg	10/25/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out		%	10/25/13	AW	30 - 150 %
% TCMX	Diluted Out		%	10/25/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

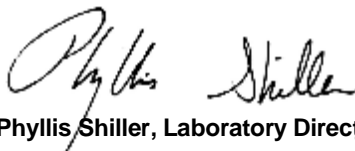
Comments:

%SOLIDS ASSUMED 100%

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

October 31, 2013

Reviewed and Released by: Ethan Lee, Project Manager



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

Analysis Report

October 31, 2013

FOR: Attn: Mr James Webb
 Tighe & Bond
 213 Court St
 Suite 900
 Middletown, CT 06457

Sample Information

Matrix: SOLID
 Location Code: TIGHE
 Rush Request: Standard
 P.O.#:

Custody Information

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

Date

10/17/13
 10/21/13

Time

15:45
 15:51

Laboratory Data

SDG ID: GBF66119
 Phoenix ID: BF66126

Project ID: RECORD JOURNAL
 Client ID: 10-17 PCB08-WHITE CAULK AT SILLS/FAC B

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	10/21/13		E160.3
Caulk Extraction for PCB	Completed			10/22/13	BB/X	SW3540C

PCB (Soxhlet)

PCB-1016	ND	810000	ug/Kg	10/30/13	AW	3540C/8082
PCB-1221	ND	810000	ug/Kg	10/30/13	AW	3540C/8082
PCB-1232	ND	810000	ug/Kg	10/30/13	AW	3540C/8082
PCB-1242	ND	810000	ug/Kg	10/30/13	AW	3540C/8082
PCB-1248	ND	810000	ug/Kg	10/30/13	AW	3540C/8082
PCB-1254	4100000	810000	ug/Kg	10/30/13	AW	3540C/8082
PCB-1260	ND	810000	ug/Kg	10/30/13	AW	3540C/8082
PCB-1262	ND	810000	ug/Kg	10/30/13	AW	3540C/8082
PCB-1268	ND	810000	ug/Kg	10/30/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out		%	10/30/13	AW	30 - 150 %
% TCMX	Diluted Out		%	10/30/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

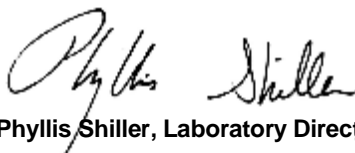
%SOLIDS ASSUMED 100%

* For PCBs, in order to reach the desired RL, multiple cleanup steps were performed. The extract was cleaned up with a combination of sulfuric acid, potassium permanganate, copper powder and additional florasil.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

October 31, 2013

Reviewed and Released by: Ethan Lee, Project Manager



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

Analysis Report

October 31, 2013

FOR: Attn: Mr James Webb
 Tighe & Bond
 213 Court St
 Suite 900
 Middletown, CT 06457

Sample Information

Matrix: SOLID
 Location Code: TIGHE
 Rush Request: Standard
 P.O.#:

Custody Information

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

Date Time

10/17/13 15:50
 10/21/13 15:51

Laboratory Data

SDG ID: GBF66119
 Phoenix ID: BF66127

Project ID: RECORD JOURNAL
 Client ID: 10-17 PCB09-W.G.C. FAC B

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	10/21/13		E160.3
Caulk Extraction for PCB	Completed			10/22/13	BB/X	SW3540C

PCB (Soxhlet)

PCB-1016	ND	7400	ug/Kg	10/30/13	AW	3540C/8082
PCB-1221	ND	7400	ug/Kg	10/30/13	AW	3540C/8082
PCB-1232	ND	7400	ug/Kg	10/30/13	AW	3540C/8082
PCB-1242	ND	7400	ug/Kg	10/30/13	AW	3540C/8082
PCB-1248	ND	7400	ug/Kg	10/30/13	AW	3540C/8082
PCB-1254	19000	7400	ug/Kg	10/30/13	AW	3540C/8082
PCB-1260	ND	7400	ug/Kg	10/30/13	AW	3540C/8082
PCB-1262	ND	7400	ug/Kg	10/30/13	AW	3540C/8082
PCB-1268	ND	7400	ug/Kg	10/30/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out		%	10/30/13	AW	30 - 150 %
% TCMX	Diluted Out		%	10/30/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

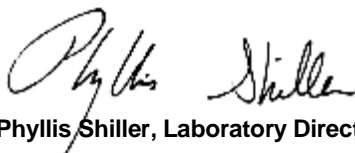
%SOLIDS ASSUMED 100%

* For PCBs, in order to reach the desired RL, multiple cleanup steps were performed. The extract was cleaned up with a combination of sulfuric acid, potassium permanganate, copper powder and additional florasil.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

October 31, 2013

Reviewed and Released by: Ethan Lee, Project Manager



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

Analysis Report

October 31, 2013

FOR: Attn: Mr James Webb
 Tighe & Bond
 213 Court St
 Suite 900
 Middletown, CT 06457

Sample Information

Matrix: SOLID
 Location Code: TIGHE
 Rush Request: Standard
 P.O.#:

Custody Information

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

Date Time

10/17/13 15:55
 10/21/13 15:51

Laboratory Data

SDG ID: GBF66119
 Phoenix ID: BF66128

Project ID: RECORD JOURNAL
 Client ID: 10-17 PCB10-GREEN/GREY PAINT RM 005

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	10/21/13		E160.3
Caulk Extraction for PCB	Completed			10/22/13	BB/X	SW3540C

PCB (Soxhlet)

PCB-1016	ND	740	ug/Kg	10/28/13	AW	3540C/8082
PCB-1221	ND	740	ug/Kg	10/28/13	AW	3540C/8082
PCB-1232	ND	740	ug/Kg	10/28/13	AW	3540C/8082
PCB-1242	ND	740	ug/Kg	10/28/13	AW	3540C/8082
PCB-1248	ND	740	ug/Kg	10/28/13	AW	3540C/8082
PCB-1254	6600	740	ug/Kg	10/28/13	AW	3540C/8082
PCB-1260	ND	740	ug/Kg	10/28/13	AW	3540C/8082
PCB-1262	ND	740	ug/Kg	10/28/13	AW	3540C/8082
PCB-1268	ND	740	ug/Kg	10/28/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	108		%	10/28/13	AW	30 - 150 %
% TCMX	108		%	10/28/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

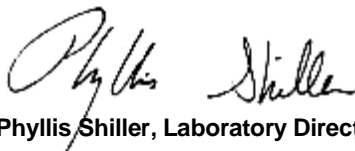
Comments:

%SOLIDS ASSUMED 100%

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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

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Phyllis Shiller, Laboratory Director

October 31, 2013

Reviewed and Released by: Ethan Lee, Project Manager



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

Analysis Report

October 31, 2013

FOR: Attn: Mr James Webb
 Tighe & Bond
 213 Court St
 Suite 900
 Middletown, CT 06457

Sample Information

Matrix: SOLID
 Location Code: TIGHE
 Rush Request: Standard
 P.O.#:

Custody Information

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

Date Time

10/17/13 16:05
 10/21/13 15:51

Laboratory Data

SDG ID: GBF66119
 Phoenix ID: BF66129

Project ID: RECORD JOURNAL
 Client ID: 10-17 PCB11-BLUE PAINT AT DOOR FRAME-STORAGE B

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	10/21/13		E160.3
Caulk Extraction for PCB	Completed			10/22/13	BB/X	SW3540C

PCB (Soxhlet)

PCB-1016	ND	910	ug/Kg	10/28/13	AW	3540C/8082
PCB-1221	ND	910	ug/Kg	10/28/13	AW	3540C/8082
PCB-1232	ND	910	ug/Kg	10/28/13	AW	3540C/8082
PCB-1242	ND	910	ug/Kg	10/28/13	AW	3540C/8082
PCB-1248	ND	910	ug/Kg	10/28/13	AW	3540C/8082
PCB-1254	7700	910	ug/Kg	10/28/13	AW	3540C/8082
PCB-1260	ND	910	ug/Kg	10/28/13	AW	3540C/8082
PCB-1262	ND	910	ug/Kg	10/28/13	AW	3540C/8082
PCB-1268	ND	910	ug/Kg	10/28/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	88		%	10/28/13	AW	30 - 150 %
% TCMX	98		%	10/28/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

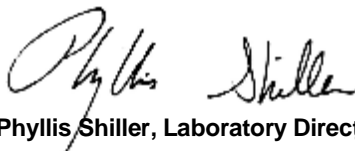
Comments:

%SOLIDS ASSUMED 100%

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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

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Phyllis Shiller, Laboratory Director

October 31, 2013

Reviewed and Released by: Ethan Lee, Project Manager



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

Analysis Report
 October 31, 2013

FOR: Attn: Mr James Webb
 Tighe & Bond
 213 Court St
 Suite 900
 Middletown, CT 06457

Sample Information

Matrix: SOLID
 Location Code: TIGHE
 Rush Request: Standard
 P.O.#:

Custody Information

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

Date	Time
10/17/13	16:15
10/21/13	15:51

Laboratory Data

SDG ID: GBF66119
 Phoenix ID: BF66130

Project ID: RECORD JOURNAL
 Client ID: 10-17 PCB12-BROWN PAINT AT WALLS -STORAGE B

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	10/21/13		E160.3
Extraction for PCB	Completed			10/22/13	BB/X	SW3540C

PCB (Soxhlet)

PCB-1016	ND	700	ug/Kg	10/30/13	AW	3540C/8082
PCB-1221	ND	700	ug/Kg	10/30/13	AW	3540C/8082
PCB-1232	ND	700	ug/Kg	10/30/13	AW	3540C/8082
PCB-1242	ND	700	ug/Kg	10/30/13	AW	3540C/8082
PCB-1248	ND	700	ug/Kg	10/30/13	AW	3540C/8082
PCB-1254	2600	700	ug/Kg	10/30/13	AW	3540C/8082
PCB-1260	ND	700	ug/Kg	10/30/13	AW	3540C/8082
PCB-1262	ND	700	ug/Kg	10/30/13	AW	3540C/8082
PCB-1268	ND	700	ug/Kg	10/30/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	105		%	10/30/13	AW	30 - 150 %
% TCMX	134		%	10/30/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

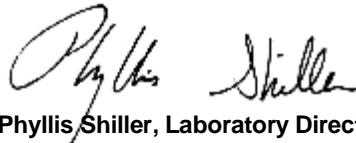
%SOLIDS ASSUMED 100%

* For PCBs, in order to reach the desired RL, multiple cleanup steps were performed. The extract was cleaned up with a combination of sulfuric acid, potassium permanganate, copper powder and additional florasil.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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

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Phyllis Shiller, Laboratory Director

October 31, 2013

Reviewed and Released by: Ethan Lee, Project Manager



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

Analysis Report

October 31, 2013

FOR: Attn: Mr James Webb
 Tighe & Bond
 213 Court St
 Suite 900
 Middletown, CT 06457

Sample Information

Matrix: SOLID
 Location Code: TIGHE
 Rush Request: Standard
 P.O.#:

Custody Information

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

Date Time

10/17/13 16:25
 10/21/13 15:51

Laboratory Data

SDG ID: GBF66119
 Phoenix ID: BF66131

Project ID: RECORD JOURNAL
 Client ID: 10-17 PCB13-LIGHT GREEN/CREAM PAINT ON CMU AT STORAGE B

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	10/21/13		E160.3
Extraction for PCB	Completed			10/22/13	BB/X	SW3540C

PCB (Soxhlet)

PCB-1016	ND	330	ug/Kg	10/23/13	AW	3540C/8082
PCB-1221	ND	330	ug/Kg	10/23/13	AW	3540C/8082
PCB-1232	ND	330	ug/Kg	10/23/13	AW	3540C/8082
PCB-1242	ND	330	ug/Kg	10/23/13	AW	3540C/8082
PCB-1248	ND	330	ug/Kg	10/23/13	AW	3540C/8082
PCB-1254	ND	330	ug/Kg	10/23/13	AW	3540C/8082
PCB-1260	ND	330	ug/Kg	10/23/13	AW	3540C/8082
PCB-1262	ND	330	ug/Kg	10/23/13	AW	3540C/8082
PCB-1268	ND	330	ug/Kg	10/23/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	89		%	10/23/13	AW	30 - 150 %
% TCMX	93		%	10/23/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

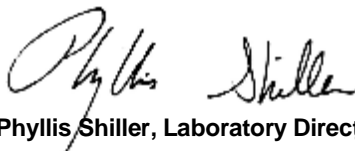
Comments:

%SOLIDS ASSUMED 100%

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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

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Phyllis Shiller, Laboratory Director

October 31, 2013

Reviewed and Released by: Ethan Lee, Project Manager



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

Analysis Report

October 31, 2013

FOR: Attn: Mr James Webb
 Tighe & Bond
 213 Court St
 Suite 900
 Middletown, CT 06457

Sample Information

Matrix: SOLID
 Location Code: TIGHE
 Rush Request: Standard
 P.O.#:

Custody Information

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

Date Time

10/17/13 16:35
 10/21/13 15:51

Laboratory Data

SDG ID: GBF66119
 Phoenix ID: BF66132

Project ID: RECORD JOURNAL
 Client ID: 10-17 PCB14-TAN PAINT ON SANITARY LINE RM 018A

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	10/21/13		E160.3
Extraction for PCB	Completed			10/22/13	BB/X	SW3540C

PCB (Soxhlet)

PCB-1016	ND	8300	ug/Kg	10/23/13	AW	3540C/8082
PCB-1221	ND	8300	ug/Kg	10/23/13	AW	3540C/8082
PCB-1232	ND	8300	ug/Kg	10/23/13	AW	3540C/8082
PCB-1242	ND	8300	ug/Kg	10/23/13	AW	3540C/8082
PCB-1248	ND	8300	ug/Kg	10/23/13	AW	3540C/8082
PCB-1254	11000	8300	ug/Kg	10/23/13	AW	3540C/8082
PCB-1260	ND	8300	ug/Kg	10/23/13	AW	3540C/8082
PCB-1262	ND	8300	ug/Kg	10/23/13	AW	3540C/8082
PCB-1268	ND	8300	ug/Kg	10/23/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out		%	10/23/13	AW	30 - 150 %
% TCMX	Diluted Out		%	10/23/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
-----------	--------	------------	-------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

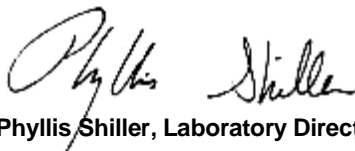
Comments:

%SOLIDS ASSUMED 100%

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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

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



Phyllis Shiller, Laboratory Director

October 31, 2013

Reviewed and Released by: Ethan Lee, Project Manager



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

Analysis Report

October 31, 2013

FOR: Attn: Mr James Webb
 Tighe & Bond
 213 Court St
 Suite 900
 Middletown, CT 06457

Sample Information

Matrix: SOLID
 Location Code: TIGHE
 Rush Request: Standard
 P.O.#:

Custody Information

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

Date Time

10/17/13 16:45
 10/21/13 15:51

Laboratory Data

SDG ID: GBF66119
 Phoenix ID: BF66133

Project ID: RECORD JOURNAL
 Client ID: 10-17 PCB15-WHITE PAINT AT CMU WALL RM 019

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	10/21/13		E160.3
Extraction for PCB	Completed			10/22/13	BB/X	SW3540C

PCB (Soxhlet)

PCB-1016	ND	12000	ug/Kg	10/23/13	AW	3540C/8082
PCB-1221	ND	12000	ug/Kg	10/23/13	AW	3540C/8082
PCB-1232	ND	12000	ug/Kg	10/23/13	AW	3540C/8082
PCB-1242	ND	12000	ug/Kg	10/23/13	AW	3540C/8082
PCB-1248	ND	12000	ug/Kg	10/23/13	AW	3540C/8082
PCB-1254	23000	12000	ug/Kg	10/23/13	AW	3540C/8082
PCB-1260	ND	12000	ug/Kg	10/23/13	AW	3540C/8082
PCB-1262	ND	12000	ug/Kg	10/23/13	AW	3540C/8082
PCB-1268	ND	12000	ug/Kg	10/23/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	143		%	10/23/13	AW	30 - 150 %
% TCMX	124		%	10/23/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
-----------	--------	------------	-------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

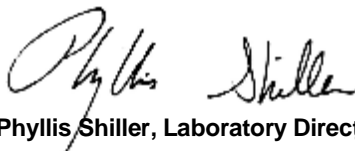
Comments:

%SOLIDS ASSUMED 100%

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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

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



Phyllis Shiller, Laboratory Director

October 31, 2013

Reviewed and Released by: Ethan Lee, Project Manager



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

QA/QC Report

October 31, 2013

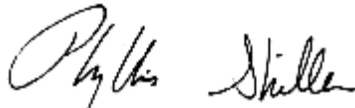
QA/QC Data

SDG I.D.: GBF66119

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 257708, QC Sample No: BF66396 (BF66119, BF66120, BF66121, BF66122, BF66123, BF66124, BF66125, BF66126, BF66127, BF66128, BF66129, BF66130, BF66131, BF66132, BF66133)									
Polychlorinated Biphenyls - Solid									
PCB-1016	ND	85			92	84	9.1	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	84			91	94	3.2	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	105	92			98	112	13.3	30 - 150	30
% TCMX (Surrogate Rec)	95	102			110	100	9.5	30 - 150	30

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
- Intf - Interference


 Phyllis Shiller, Laboratory Director
 October 31, 2013

Thursday, October 31, 2013

Requested Criteria: None

State: CT

Sample Criteria Exceedences Report

Page 1 of 1

GBF66119 - TIGHE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
--------	-------	-----------------	----------	--------	----	----------	----------------	-------------------

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** TIGHE

Project Location: RECORD JOURNAL **Project Number:**

Laboratory Sample ID(s): BF66119, BF66120, BF66121, BF66122, BF66123, BF66124, BF66125, BF66126, BF66127, BF66128, BF66129, BF66130

Sampling Date(s): 10/17/2013

RCP Methods Used:

- 1311/1312 6010 7000 7196 7470/7471 8081 EPH TO15
 8082 8151 8260 8270 ETPH 9010/9012 VPH

1.	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1a.	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? See Section: PCB Narration.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5b.	Were these reporting limits met?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
6.	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized
Signature:

Ethan Lee

Date: Thursday, October 31, 2013

Printed Name: Ethan Lee

Position: Project Manager



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



RCP Certification Report

October 31, 2013

SDG I.D.: GBF66119

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

Sample GBF66122 - The surrogate recovery is above the method criteria for %DCBP. Therefore, a high bias in this sample is possible.

Instrument: Au-ecd1 10/23/13-1 (BF66121, BF66122, BF66123, BF66124)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 10/23/2013

Instrument: Au-ecd1 10/30/13-1 (BF66126)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 10/30/2013

Instrument: Au-ecd24 10/23/13-1 (BF66130, BF66131, BF66132, BF66133)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 10/23/2013

Instrument: Au-ecd24 10/25/13-1 (BF66119, BF66125, BF66128, BF66129)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none



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



RCP Certification Report

October 31, 2013

SDG ID.: GBF66119

Printed Name Adam Werner
Position: Chemist
Date: 10/25/2013

Instrument: Au-ecd5 10/30/13-1 (BF66127)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 10/30/2013

Instrument: Au-ecd6 10/30/13-1 (BF66119)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 10/30/2013

Instrument: Au-ecd7 10/28/13-1 (BF66128, BF66129)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 10/28/2013

Instrument: Au-ecd8 10/24/13-1 (BF66122, BF66123, BF66124)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none



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



RCP Certification Report

October 31, 2013

SDG ID.: GBF66119

Printed Name Adam Werner
Position: Chemist
Date: 10/24/2013

QC (Batch Specific)

----- Sample No: BF66396, QA/QC Batch: 257708 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

Temperature Narration

The samples in this delivery group were received at 6°C.
(Note acceptance criteria is above freezing up to 6°C)

Cooler: Yes No
 Coolant: JPK ICE N
 Temp 6 °C Pg of

CHAIN OF CUSTODY RECORD

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



Data Delivery:
 Fax #:
 Email:

Customer: Tepe + Bond Project P.O.:
 Address: 713 Court St Suite 900 Report to: James Webb Phone #:
Middletown, CT Invoice to: Same Fax #:

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
66119	10-17 PCB 01-Expansion Joint Caulk Boat 4	S	10-17-13	255
66120	10-17 PCB 02-Caulk Junction Boat 4			300
66121	10-17 PCB 03-Caulk on HUAK Metal Seams BS			310
66122	10-17 PCB 04-Caulk on Metal Deck on GA 121			320
66123	10-17 PCB 05-Brittle Grey D.F. Caulk Fac. B			330
66124	10-17 PCB 06-Brittle Green D.F. Caulk Fac. B			335
66125	10-17 PCB 07-Grey W.F.S. Fac. B			340
66126	10-17 PCB 08-White Caulk Pills / Fac. Fac. B			345
66127	10-17 PCB 09-W.G. < Fac. B			350
66128	10-17 PCB 10-Green / Grey Paint Remains			355
66129	10-17 PCB 11-Blue Paint @ Door Frame - Storage B			405

Date:	Time:	RI	CI	MA	Data Format
10/17/13	12:25	<input type="checkbox"/> Direct Exposure (Residential) <input type="checkbox"/> GW <input type="checkbox"/> Other	<input type="checkbox"/> RCP Cert <input type="checkbox"/> GW Protection <input type="checkbox"/> SW Protection <input type="checkbox"/> GA Mobility <input type="checkbox"/> GB Mobility <input type="checkbox"/> Residential DEC <input type="checkbox"/> I/C DEC <input type="checkbox"/> Other	<input type="checkbox"/> MCP Certification <input type="checkbox"/> GW-1 <input type="checkbox"/> GW-2 <input type="checkbox"/> GW-3 <input type="checkbox"/> S-1 <input type="checkbox"/> S-2 <input type="checkbox"/> S-3 <input type="checkbox"/> MWRA eSMART <input type="checkbox"/> Other	<input type="checkbox"/> Excel <input type="checkbox"/> PDF <input type="checkbox"/> GIS/Key <input type="checkbox"/> EQUIS <input type="checkbox"/> Other
10/21/13	15:51				

Analysis Request

Soil VOA Vial [methanol] H2O
 40 ml VOA Vial [] oz
 GL Soil container []
 GL Amber 100ml [] HCl
 PL As ts [] 250ml [] 500ml [] 1000ml
 PL H2SO4 [] 250ml [] H2SO4
 PL HNO3 250ml
 Beaker Bottle

Soil VOA Vial [methanol] H2O
 40 ml VOA Vial [] oz
 GL Soil container []
 GL Amber 100ml [] HCl
 PL As ts [] 250ml [] 500ml [] 1000ml
 PL H2SO4 [] 250ml [] H2SO4
 PL HNO3 250ml
 Beaker Bottle

Soil VOA Vial [methanol] H2O
 40 ml VOA Vial [] oz
 GL Soil container []
 GL Amber 100ml [] HCl
 PL As ts [] 250ml [] 500ml [] 1000ml
 PL H2SO4 [] 250ml [] H2SO4
 PL HNO3 250ml
 Beaker Bottle

Relinquished by: [Signature]
 Accepted by: [Signature]
 Date: 10/21/13

Comments, Special Requirements or Regulations:
 Turnaround:
 1 Day*
 2 Days*
 3 Days*
 Standard
 Other
 * SURCHARGE APPLIES

State where samples were collected: CT
 * SURCHARGE APPLIES

Cooler: Yes No
 Coolant: IPK ICE N

Temp 6 °C Pg of

Data Delivery:

Fax # _____
 Email _____

CHAIN OF CUSTODY RECORD

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



Customer: Target Bond Project P.O.: _____
 Address: 213 Court St. Suite 900 Report to: Sam Webb Phone #: _____
Middletown, CT Invoice to: Same Fax #: _____

Client Sample - Information - Identification

Sampler's Signature	Date	Analysis Request
	10-17-13	Soil VOA Vial [methanol] 1 H2O
		GL Soil container () oz
		GL Soil container () oz
		40 ml VOA Vial [As ts] 1 HCl
		GL Amber 100ml [As ts] 1 HCl
		PL H2SO4 [250ml] [500ml] [1000ml]
		PL HNO3 250ml [500ml] [1000ml]
		Bacteria Bottle

Matrix Code:	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water SE=Sediment SL=Sludge S=Soil/Solid W=Wipe O=Other	10-17 PCB 12-Brown Paint @ walls - Storage B	S	10-17-13	415
	10-17 PCB 13-Light green/clean Paint on rim @ storage B	S		425
	10-17 PCB 14-Pan paint on sanitary line - rim O18A	S		435
	10-17 PCB 15-White Paint @ rim level rim O19	S		445

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
66130	10-17 PCB 12-Brown Paint @ walls - Storage B	S	10-17-13	415
66131	10-17 PCB 13-Light green/clean Paint on rim @ storage B	S		425
66132	10-17 PCB 14-Pan paint on sanitary line - rim O18A	S		435
66133	10-17 PCB 15-White Paint @ rim level rim O19	S		445

Relinquished by:

Accepted by:

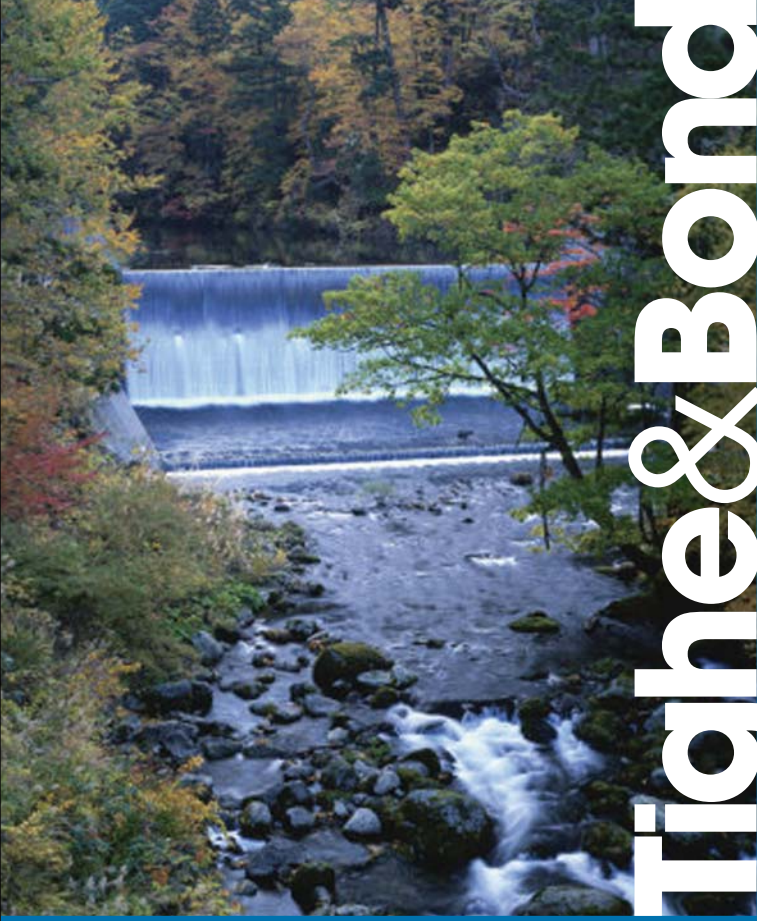
Date: 10-21-13 10:25
 10/21/13 15:51

Comments, Special Requirements or Regulations:


Turnaround:
 1 Day*
 2 Days*
 3 Days*
 Standard
 Other


State where samples were collected: CT


* SURCHARGE APPLIES




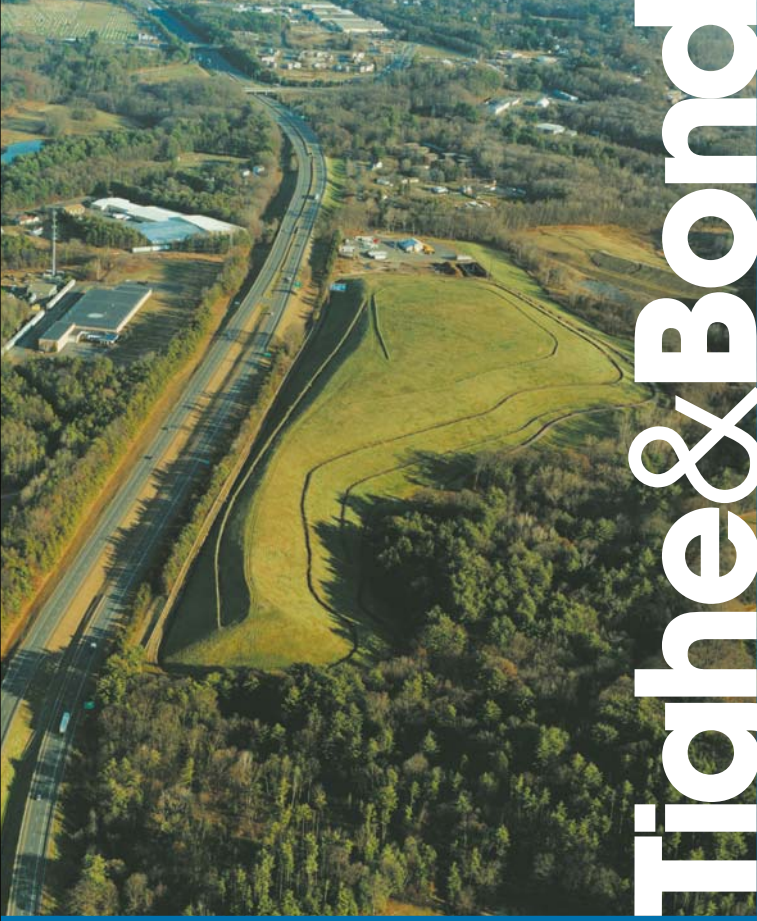
Tighe & Bond

Tighe&Bond		PHOTOGRAPHIC LOG	
Client Name: City of Meriden		Record Journal 11 Crown Street, Meriden, CT	Project No. 220817
Photo No. 1	Date: 4/8/14		
Area Photo Taken: Room 006 - Storage			
Description: Delamination of concrete mortar due to moisture.			

Tighe&Bond		PHOTOGRAPHIC LOG	
Client Name: City of Meriden		Record Journal 11 Crown Street, Meriden, CT	Project No. 220817
Photo No. 2	Date: 4/8/14		
Area Photo Taken: Room 006 - Storage			
Description: Delamination of concrete mortar due to moisture.			

Tighe&Bond		PHOTOGRAPHIC LOG	
Client Name: City of Meriden		Record Journal 11 Crown Street, Meriden, CT	Project No. 220817
Photo No. 3	Date: 4/8/14		
Area Photo Taken: Room 006A			
Description: Delamination of concrete mortar due to moisture.			

Tighe&Bond		PHOTOGRAPHIC LOG	
Client Name: City of Meriden		Record Journal 11 Crown Street, Meriden, CT	Project No. 220817
Photo No. 3	Date: 4/8/14		
Area Photo Taken: Room 005A			
Description: Visible mold due to leaking sink.			



Tighe & Bond

Site Radon Inspection Report

Date : 04/10/2014

Mr. James Webb
TIGHE & BOND
53 Southhampton Road
Westfield, MA 01085-

Client: City of Meriden
Test Location: 11 Crown Street
Meriden, CT 06451-

Individual Canister Results

Canister ID# :	2315329	Test Start :	04/04/2014 @ 09:15
Canister Type :	Charcoal Canister 4 inch	Test Stop :	04/07/2014 @ 08:15
Location :	Basement	Received:	04/10/2014 @ 09:25
Radon Level :	1.3 pCi/L	Analyzed:	04/10/2014 @ 13:12
Error for Measurement is: ±	0.2 pCi/L		

Canister ID# :	2315332	Test Start :	04/04/2014 @ 09:15
Canister Type :	Charcoal Canister 4 inch	Test Stop :	04/07/2014 @ 08:15
Location :	Basement	Received:	04/10/2014 @ 09:25
Radon Level :	1.2 pCi/L	Analyzed:	04/10/2014 @ 13:12

Average of Side by Side Canisters 1.3 pCi/L

Error for Measurement is: ± 0.2 pCi/L

The reported results indicate that radon levels in the building tested are below the United States Environmental Protection Agency (EPA) action level of 4.0 picoCuries per liter of air (pCi/L). The EPA recommends retesting if your living patterns change and you begin occupying a lower level of the building, such as a basement or if major remodeling is done.

General radon information may be obtained by consulting the EPA booklet: A Citizen's Guide to Radon (www.epa.gov/radon/pubs/citguide.html). To request a copy or for further information, please contact your state health department. The EPA maintains a radon information website, including copies of its publications, at www.epa.gov/iaq/radon.

For New Jersey clients: Please see the attached guidance document entitled Radon Testing and Mitigation: The Basics for further information.

For New York clients: If the radon level of one or more testing devices is equal to or exceeds 20 pCi/L please contact the New York State Department of Health, Bureau of Environmental Radiation Protection, for technical advice and assistance at 518-402-7556 or toll free 1-800-458-1158.

PLEDGE OF ASSURED QUALITY

All procedures used for generating this report are in complete accordance with the current EPA protocols for the analysis of radon in air (EPA 402-R-92-004). The analytical results relate only to the samples tested, in the condition received by the lab, and that calculations were based upon the information supplied by client. RTCA and its personnel do not assume responsibility or liability, collectively and individually, for analysis results when detectors have been improperly handled or placed by the consumer, nor does RTCA and its personnel accept responsibility for any financial or health consequences of subsequent action or lack of action, taken by the customer or its consultants based on RTCA-provided results.



Andreas C. George
Radon Measurement Specialist

NJ MES 11089

Dante Galan
Laboratory Director

NRSB ARL0001
NYS ELAP ID: 10806
PADEP ID: 0346
NJDEP ID: NY933
NJ MEB 90036
FL DOH RB1609