Citizens Block
28-36 Park Place
Vernon, Connecticut

Hazardous Building Materials Assessment
Prepared For:
Capitol Region Council of Governments
March 2016
Mary Ellen Kowalewski  
Director of Policy and Planning  
Capitol Region Council of Governments  
241 Main Street  
Hartford, CT  06106

Re: Limited Hazardous Building Material Assessment Report  
Citizen’s Block  
28-36 Park Place  
Vernon, CT  

Dear Ms. Kowalewski:

In accordance with our proposal dated October 14, 2015, Tighe & Bond has completed the Limited Hazardous Building Materials Assessment (HBMA) for the Citizen’s Block Property at 28-36 Park Place in Vernon, CT. It is our understanding that the Town of Vernon owns the site and plans on performing renovations to improve the appearance of the building façade. The purpose of the inspection was to determine if hazardous building materials are associated with building components that will be impacted during proposed renovations. We utilized a Pre-renovation Hazardous Materials Inspection report from Eagle Environmental, Inc. dated July 31, 2003 to assist in our assessment.

Assessment Summary

The HBMA was conducted by State of Connecticut licensed inspector, Philip C. Hutter of Tighe & Bond on November 6, 2015. A copy of the inspector’s license is included in Appendix A. The HBMA was limited to the building’s façade in locations where renovations are planned. The inspection included sampling of suspect asbestos containing materials (ACM), lead-based paint screening by paint chip analysis, and an assessment of suspect materials for polychlorinated biphenyls (PCBs). A photographic log is found in Appendix B.

Suspect Asbestos-Containing Materials Sampling

A total of 22 different types of suspect asbestos containing materials were observed and sampled including window frame caulk, window glazing compound, paints, mortar and residual flashing material. Sampled materials are listed in Tables 1 and 2 in Appendix C. Up to 3 samples were collected of each suspect material in accordance with the United States Environmental Protection Agency (EPA) requirements for asbestos identification. Samples were submitted to EMSL Laboratories in Wallingford, Connecticut for asbestos analysis via Polarized Light Microscopy (PLM) using EPA approved protocol in accordance with accreditation of the National Institute of Standards and Technology (NIST).

During inspection activities the sample locations, types of material, and quantities were recorded. Homogenous materials were noted when observed.

Lead-Based Paint Sampling

Lead based paint (LBP) screening was conducted utilizing paint chip sampling techniques. Paint was sampled from the main components on the exterior. There are multiple painted items in the exterior façade that are proposed to be disturbed that include but not limited to wall panel paint, portico paint, window paint, and soffit/cornice paint. The samples were submitted to Phoenix Laboratories for analysis of lead by Flame AAS (SW 846 3050B/7000B).
**PCB Assessment**

Several types of paints were observed around the façade along with caulking and glazing compounds in locations that are proposed to be disturbed. Tighe & Bond has provided an option to CRCOG that the paints, the caulking and window glazing compound can be assumed to contain PCBs greater than or equal to (≥) 50 ppm and therefore would be managed as such. CRCOG has directed Tighe & Bond to use the assumed method, the paints, caulking, and window glazing compound will be handled and disposed of as a Toxic Substances Control Act (TSCA) Bulk Product Waste with assumed PCB concentrations ≥50 ppm. Eleven types of assumed materials were observed, window frame caulk, window glazing compound, door frame caulk, wall panel caulk, glass block caulk, gray/black paint on concrete columns, light gray paint on metal panels, multiple types of window component paint, multiple types of door component paint, beige soffit/cornice paint, and light gray paint on wood portico components.

**Findings and Conclusions**

**Asbestos Sampling Results**

During the course of the sampling, a total of 26 bulk samples of suspect ACM were collected, 25 of which were analyzed by PLM based on the “stop on first positive” request from the laboratory. EPA defines any material containing more than 1% asbestos as an asbestos-containing material. Of the materials sampled, the following materials were determined to be asbestos-containing:

- Brown Wood Window Frame Caulk – Main Building
- Black Residual Wall Flashing – South Façade

The previous Eagle report determined the following materials to be asbestos-containing:

- Flashing Felts at Chimney – Main Roof
- Flashing Tar – Lower Roof
- Flashing Tar – Lower Roof Edges
- Tan Wall Panel Caulk – South Façade
- Yellow Door Frame Caulk – East Elevation

Refer to Table 1 for a summary of asbestos-containing materials identified and locations. Refer to Table 2 for a summary of non-asbestos-containing materials. Laboratory analytical reports for asbestos sampling are provided in Appendix D.

If additional materials are encountered during upgrade activities that were not previously sampled then they would need to be sampled to determine if it is an asbestos-containing material or should be assumed to be asbestos-containing.

All regulated friable and non-friable ACM must be removed prior to renovation or 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. The abatement areas must meet final visual inspection criteria prior to renovation or demolition activities. Re-occupancy air monitoring is required before any 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 Sampling Results
Refer to Table 3 for a detailed list of paint chip sample results. Laboratory analytical reports for paint chip sampling are provided in Appendix E.

A total of six samples were collected during the lead-based paint screen of the target area. Lead-based paint is typically defined as containing greater than 5,000 milligrams per kilogram (mg/Kg) of lead.

- The paints on the wood soffit/cornice, concrete columns, and wood portico components were determined to above 5,000 mg/Kg of lead.

Note: The window component paint sample was found below 5,000 mg/kg of lead but the previous report from Eagle in 2003 describes the interior portions of the window sashes as having lead-based paint via x-ray fluorescence (XRF) testing.

Due to the presence of lead based paint, one sample was collected from the painted wood windows, brick and mortar on walls, plywood behind metal panels, and painted items from the exterior and submitted to Phoenix Laboratories of Manchester, CT for lead analysis using Toxicity Characterization Leaching Procedure (TCLP) and methods SW6010, SW3005 and EPA 1311.

EPA and State regulations define a lead waste stream as hazardous if lead leaches out of the material(s) during the testing process at a rate of 5 milligrams per liter (mg/L) or greater. The TCLP results for the lead-based painted wood windows indicate that lead leached out of the composited waste materials at a rate of 0.38 mg/L. Therefore, the proposed renovation areas of the window sashes, wall panels, brick openings and painted items can be considered non-lead hazardous waste but it is important to keep in mind that the window caulk is asbestos-containing and all painted components are assumed PCB containing (≥50 ppm).

US Occupational Safety and Health Administration (OSHA) requires task specific worker exposure monitoring for any abatement activities that disturb lead-based paints. If surfaces identified to contain lead-based paints will be impacted by cutting, grinding, scraping or other dust generating activities a task specific worker exposure assessment must be conducted by the abatement contractor in accordance with OSHA 29 CRF 1926.62 to confirm lead dust is not being generated.

The laboratory analytical report for the lead-based TCLP sampling is provided in Appendix E.

PCB Recommendations
Refer to Table 4 for a detailed list of materials which were observed at the site that are assumed to have PCB concentrations ≥50 ppm. The façade paints, caulking and window glazing compound are assumed to contain PCBs. Using the assumed method, the following materials should be handled and disposed a Toxic Substances Control Act (TSCA) Bulk Product Waste with assumed PCB concentrations greater than or equal to ≥50 ppm:

- Window Frame Caulk
- Window Glazing Compound
- Door Frame Caulk
- Wall Panel Caulk
- Glass Block Caulk
- Gray/Black Paint on Concrete Columns
- Light Gray Paint on Metal Panels
- Multiple Types of Window Component Paint
- Multiple Types of Door Component Paint
- Beige Soffit/Cornice Paint
- Light Gray Paint on Wood Portico Components
- Window Glazing Compound
Since PCB concentrations are assumed to be greater than or equal to ≥50 ppm, the following tasks are recommended in association with the proposed façade renovations:

- Abatement of PCB containing source materials (e.g. caulks, paints and glazing compound)
- Handled and Disposed per EPA regulations (40 CFR Part 761)
- 3rd Party Project Oversight including “Pre” and “Post” Visual Inspections
- Provide proper waste documents of disposal / transportation (e.g. waste shipment records and waste manifests)

Source materials containing PCBs at concentrations ≥50 ppm are regulated by EPA and the Connecticut Department of Energy and Environmental Protection (CTDEEP). Materials at concentrations greater than 1 ppm are regulated by the Connecticut Department of Energy and Environmental Protection (CTDEEP). Materials with PCB concentrations less than 1 ppm are not regulated and can be disposed of as general construction waste. The materials observed during this inspection are assumed to be ≥50 ppm.

Tighe & Bond was not provided with a full detailed set of architectural plans for the renovations. Therefore, we will not be able to generate an opinion of probable abatement cost until the full renovation plans are available.

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.

Philip C, Hutter
Project Compliance Specialist

James T. Olsen, LEP
Vice President

Enclosures:  
Appendix A  - Inspector License  
Appendix B  - Photographic Log  
Appendix C  - Table 1 Summary of Asbestos Containing Materials  
Table 2 Summary of Non-Asbestos Containing Materials  
Table 3 Summary of Lead Paint Chip Sample Results  
Table 4 Summary of PCB Assessment and Assumed Materials  
Appendix D  - EMSL Asbestos Laboratory Analytical Report  
Appendix E  - Phoenix Lead Laboratory Analytical Report
THIS IS TO CERTIFY THAT

Philip C. Hutter

ATTENDED AND SUCCESSFULLY PASSED AN EXAMINATION FOR THE COURSE:

4-Hour Asbestos Inspector Refresher Training Course

on

NOVEMBER 25, 2014

THE COURSE AND EXAMINATION LOCATION WAS:

1141 JEFFERSON GREEN CIRCLE
MIDLOTHIAN, VIRGINIA 23113

THIS CERTIFICATE EXPIRES ON NOVEMBER 25, 2015

Joseph T. France
Training Manager

Andrew S. Richmond
Principal Instructor

The Person Receiving This Certificate Has Received The Requisite Training For Asbestos Accreditation Under TSCA Title II

7834 FOREST HILL AVENUE, SUITE #7, RICHMOND, VIRGINIA 23225 PH. (804) 716-0560 FAX (804) 918-7098 WWW.FRANCEENV.COM
STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
PHILIP C HUTTER

VALIDATION NO.
03-334131

CERTIFICATE NO.
002264

CURRENT THROUGH
03/31/16

PROFESSION
LEAD INSPECTOR RISK ASSESSOR

Signature:

[Signature]

[Signature]
Instructor Risk Assessor Refresher

has successfully completed the

000-00-8326
3 William Street, Middletown, CT 06457

Phillip Charles Hunter

This certifies that

Certificate of Achievement
<table>
<thead>
<tr>
<th>Photograph No.:</th>
<th>Date:</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>11/6/15</td>
<td>East Elevation Portico with Gray Paint (Lead-based and assumed PCB Containing)</td>
</tr>
<tr>
<td>2</td>
<td>11/6/15</td>
<td>Window (Assumed PCB containing paint, caulk, glazing), Asbestos-containing Caulk</td>
</tr>
</tbody>
</table>
# Appendix B

## Photographic Log

**Client:** Capitol Region Council of Governments  
**Site:** Citizens Block 28-36 Park Place, Vernon, CT  
**Job Number:** C-1077-3

<table>
<thead>
<tr>
<th>Photograph No.</th>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>11/6/15</td>
<td>Concrete Column Gray Paint (Lead-based and assumed PCB Containing)</td>
</tr>
<tr>
<td>4</td>
<td>11/6/15</td>
<td>Rear Soffit and Fascia Paint (Lead-based and assumed PCB containing)</td>
</tr>
</tbody>
</table>
## Appendix B

### Photographic Log

<table>
<thead>
<tr>
<th>Photograph No.</th>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>11/6/15</td>
<td>Wall Panels with Caulk (Asbestos-containing and assumed PCB containing)</td>
</tr>
</tbody>
</table>

![Image of wall panels with caulking]

<table>
<thead>
<tr>
<th>Photograph No.</th>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>11/6/15</td>
<td>Wall Panel Paint (Assumed PCB containing)</td>
</tr>
</tbody>
</table>

![Image of wall panel paint]
Appendix B

Client: Capitol Region Council of Governments
Site: Citizens Block 28-36 Park Place, Vernon, CT

Photographic Log

<table>
<thead>
<tr>
<th>Photograph No.</th>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
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<tr>
<td>7</td>
<td>11/6/15</td>
<td>Rear Door with Caulk and Paint (Assumed PCB Paint/Caulk), Asbestos-containing Caulk</td>
</tr>
<tr>
<td>8</td>
<td>11/6/15</td>
<td>East Elevation—Residual Roof Flashing (asbestos-containing)</td>
</tr>
</tbody>
</table>
Appendix B

Photographic Log

Client: Capitol Region Council of Governments
Site: Citizens Block 28-36 Park Place, Vernon, CT

<table>
<thead>
<tr>
<th>Photograph No.: 9</th>
<th>Date: 11/6/15</th>
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</thead>
<tbody>
<tr>
<td><strong>Description:</strong> Rear Addition—Caulk and Glazing (Assumed PCB Containing / Non-asbestos)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Photograph No.: 10</th>
<th>Date: 11/6/15</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description:</strong> East Elevation—Assumed PCBs in all Paints, Caulks and Glazings</td>
<td></td>
</tr>
<tr>
<td>Photograph No.: 11</td>
<td>Date: 11/6/15</td>
</tr>
<tr>
<td>-------------------</td>
<td>--------------</td>
</tr>
<tr>
<td><strong>Description:</strong> South Elevation—Assumed PCBs in all paints, caulks and glazings</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Photograph No.: 12</th>
<th>Date: 11/6/15</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description:</strong> West Elevation—Assumed PCBs in all paints, caulks and glazings</td>
<td></td>
</tr>
<tr>
<td>Photograph No.: 13</td>
<td>Date: 11/6/15</td>
</tr>
<tr>
<td>-------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>Description:</td>
<td>Alley / North Elevation—No proposed work to be performed</td>
</tr>
</tbody>
</table>

<table>
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<tr>
<th>Photograph No.: 14</th>
<th>Date: 11/6/15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description:</td>
<td>Rear entrances and windows (Assumed PCBs in paints, caulks and glazings)</td>
</tr>
</tbody>
</table>
# TABLE 1

Summary of Asbestos Containing Materials  
Citizen’s Block  
28-36 Park Place  
Vernon, CT

**Asbestos Sampling Date:** November 6, 2015

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Material Description</th>
<th>Color</th>
<th>Sample Location</th>
<th>Approximate Quantity</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-06-PCH-09</td>
<td>Black Wall/Residual Roof Flashing</td>
<td>Black</td>
<td>Front Former Overhang Roof Portions</td>
<td>&lt;10 LF</td>
<td>None Detected</td>
</tr>
<tr>
<td>11-06-PCH-10</td>
<td>Wood Window Frame Caulk</td>
<td>Brown</td>
<td>Main Building - All Windows</td>
<td>928 LF</td>
<td>4% Chrysotile</td>
</tr>
<tr>
<td>11-06-PCH-13</td>
<td>Eagle Report 6-23-CC-49 Flashing Felts at Chimney</td>
<td>Black</td>
<td>Main Roof</td>
<td>4 @ 4 SF Each</td>
<td>26% Chrysotile</td>
</tr>
<tr>
<td>11-06-PCH-14</td>
<td>Eagle Report 6-23-CC-50 Flashing Tar</td>
<td>Black</td>
<td>Lower Roof</td>
<td>33 LF</td>
<td>6% Chrysotile</td>
</tr>
<tr>
<td>11-06-PCH-17</td>
<td>Eagle Report 6-23-CC-51 Flashing Tar at Lower Roof Edges</td>
<td>Black</td>
<td>Throughout</td>
<td>Not quantified</td>
<td>7% Chrysotile</td>
</tr>
<tr>
<td>11-06-PCH-18</td>
<td>Eagle Report 6-23-CC-54 Caulk at Panels</td>
<td>Tan</td>
<td>Façade A (South Elevation)</td>
<td>200 LF</td>
<td>7% Chrysotile</td>
</tr>
<tr>
<td>11-06-PCH-19</td>
<td>Eagle Report 6-23-CC-56 Caulk at Door</td>
<td>Yellow</td>
<td>Exterior D (East Elevation)</td>
<td>17 LF</td>
<td>12% Chrysotile</td>
</tr>
</tbody>
</table>

**LEGEND**

Asbestos Containing Material  = < 1% Asbestos  
LF = Linear Foot  
SF = Square Foot
**TABLE 2**  
Summary of Non-Asbestos Containing Materials  
Citizen’s Block  
28-36 Park Place  
Vernon, CT

**Asbestos Sampling Date:** November 6, 2015

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Material</th>
<th>Color</th>
<th>Location(s)</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-06-PCH-01 to 02</td>
<td>Glass Block Caulk</td>
<td>White/Black</td>
<td>West Elevation</td>
<td>None Detected</td>
</tr>
<tr>
<td>11-06-PCH-03 to 04</td>
<td>Glass Block/Brick Mortar</td>
<td>Gray</td>
<td>West Elevation</td>
<td>None Detected</td>
</tr>
<tr>
<td>11-06-PCH-05 to 06</td>
<td>Column Paint</td>
<td>Light Gray / Black</td>
<td>Concrete Columns (South Elevation)</td>
<td>None Detected</td>
</tr>
<tr>
<td>11-06-PCH-07 to 08</td>
<td>Wall Panel Paint</td>
<td>Light Gray / Red</td>
<td>Wall Panels (South Elevation)</td>
<td>None Detected</td>
</tr>
<tr>
<td>11-06-PCH-11 to 12</td>
<td>Portico Paint</td>
<td>Light Gray</td>
<td>Front Portico (South Elevation)</td>
<td>None Detected</td>
</tr>
<tr>
<td>11-06-PCH-15 to 16</td>
<td>Wood Window Glazing Compound</td>
<td>White</td>
<td>All Wood Windows</td>
<td>None Detected</td>
</tr>
<tr>
<td>11-06-PCH-17 to 18</td>
<td>Wood Window Paint</td>
<td>White</td>
<td>All Wood Windows</td>
<td>None Detected</td>
</tr>
<tr>
<td>11-06-PCH-19 to 20</td>
<td>Cornice/Soffit Paint</td>
<td>Beige</td>
<td>All Elevations</td>
<td>None Detected</td>
</tr>
<tr>
<td>11-06-PCH-21 to 22</td>
<td>White Replacement Window Caulk</td>
<td>White</td>
<td>North Elevation (West Windows on 2nd and 3rd Floors)</td>
<td>None Detected</td>
</tr>
<tr>
<td>11-06-PCH-23 to 24</td>
<td>Wood Window Frame Caulk</td>
<td>White</td>
<td>Addition Windows</td>
<td>None Detected</td>
</tr>
<tr>
<td>11-06-PCH-25 to 26</td>
<td>Wood Window Glazing Compound</td>
<td>White</td>
<td>Addition Windows</td>
<td>None Detected</td>
</tr>
<tr>
<td>6-23-CC-48</td>
<td>Tar on felts at Chimney</td>
<td>Black</td>
<td>Main Roof</td>
<td>None Detected</td>
</tr>
<tr>
<td>6-23-CC-52</td>
<td>Rolled Asphalt</td>
<td>Black</td>
<td>Lower Roof</td>
<td>None Detected</td>
</tr>
<tr>
<td>6-23-CC-53</td>
<td>Rubberized Seals at corner panels</td>
<td>Black</td>
<td>Exterior B (South Elevation)</td>
<td>None Detected</td>
</tr>
<tr>
<td>6-23-CC-55</td>
<td>Door Frame Caulk</td>
<td>White</td>
<td>Rear Door</td>
<td>None Detected</td>
</tr>
</tbody>
</table>
TABLE 2
Summary of Non-Asbestos Containing Materials
Citizen's Block
28-36 Park Place
Vernon, CT

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Material</th>
<th>Color</th>
<th>Location(s)</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eagle Report 6-23-CC-11</td>
<td>Hard Window Glazing Compound</td>
<td>White</td>
<td>Main Building Windows</td>
<td>None Detected</td>
</tr>
</tbody>
</table>

**LEGEND**
Asbestos Containing Material = < 1% Asbestos
# TABLE 3
Summary of Lead Paint-Chip Sampling Results
Citizen's Block
28-36 Park Place
Vernon, CT

**Lead Paint-Chip Sampling Date:** November 6, 2015

<table>
<thead>
<tr>
<th>ID</th>
<th>Location</th>
<th>Component</th>
<th>Paint Color</th>
<th>Substrate</th>
<th>Result (mg/Kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-06-PB-01</td>
<td>Exterior - South Façade</td>
<td>Column</td>
<td>Gray/Black</td>
<td>Concrete</td>
<td>7,270</td>
</tr>
<tr>
<td>11-06-PB-02</td>
<td>Exterior - South Façade</td>
<td>Wall Panel</td>
<td>Light Gray/Red</td>
<td>Metal</td>
<td>149</td>
</tr>
<tr>
<td>11-06-PB-03</td>
<td>Exterior - South Façade</td>
<td>Wall Panel</td>
<td>Light Gray</td>
<td>Metal</td>
<td>441</td>
</tr>
<tr>
<td>11-06-PB-04</td>
<td>Exterior - South Façade</td>
<td>Window</td>
<td>White</td>
<td>Wood</td>
<td>1,600</td>
</tr>
<tr>
<td>11-06-PB-05</td>
<td>Exterior - North Façade</td>
<td>Soffit</td>
<td>Beige/White</td>
<td>Wood</td>
<td>305,000</td>
</tr>
<tr>
<td>11-06-PB-06</td>
<td>Exterior - South Façade</td>
<td>Portico</td>
<td>Light Gray</td>
<td>Wood</td>
<td>134,000</td>
</tr>
</tbody>
</table>

**LEGEND**

**Bolded Result** = Paint considered "Lead-based" (≥ 5,000 mg/Kg)

**ND<#** = None detected above given laboratory limit

**mg/Kg = milligrams per Kilogram**
### TABLE 4
Summary of PCB Assessment and Assumed Materials
Citizen’s Block
28-36 Park Place
Vernon, CT

<table>
<thead>
<tr>
<th>Description</th>
<th>Location</th>
<th>Aroclor #</th>
<th>Result (ppm)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Window Frame Caulk (All Colors)</td>
<td>All Windows</td>
<td>N/A</td>
<td>Assumed PCB Containing ≥ 50 ppm</td>
<td>Approximately 68 Windows; 1,088 LF</td>
</tr>
<tr>
<td>Window Glazing Compound (All Colors)</td>
<td>Non-replacement Windows</td>
<td>N/A</td>
<td>Assumed PCB Containing ≥ 50 ppm</td>
<td>Approximately 51 non-replacement windows; 1,224 LF</td>
</tr>
<tr>
<td>Door Frame Caulk (All Colors)</td>
<td>All Entrances on South and North Elevations</td>
<td>N/A</td>
<td>Assumed PCB Containing ≥ 50 ppm</td>
<td>Approximately 10 Doors; 176 LF</td>
</tr>
<tr>
<td>Wall Panel Caulk (All Colors)</td>
<td>South Elevation</td>
<td>N/A</td>
<td>Assumed PCB Containing ≥ 50 ppm</td>
<td>Approximately 320 LF</td>
</tr>
<tr>
<td>Glass Block Caulk (White)</td>
<td>West Elevation</td>
<td>N/A</td>
<td>Assumed PCB Containing ≥ 50 ppm</td>
<td>Approximately 27 LF</td>
</tr>
<tr>
<td>Light Gray Paint on Metal Wall Panels</td>
<td>South Elevation</td>
<td>N/A</td>
<td>Assumed PCB Containing ≥ 50 ppm</td>
<td>Approximately 800 SF</td>
</tr>
<tr>
<td>Gray/Black Paint on Concrete Columns</td>
<td>South Elevation</td>
<td>N/A</td>
<td>Assumed PCB Containing ≥ 50 ppm</td>
<td>Approximate 800 SF (Assumed behind Metal Wall Panels also)</td>
</tr>
<tr>
<td>Window Component Paint (All Colors)</td>
<td>All Painted Windows</td>
<td>N/A</td>
<td>Assumed PCB Containing ≥ 50 ppm</td>
<td>Approximately 816 SF</td>
</tr>
<tr>
<td>Door Component Paint (All Colors)</td>
<td>All Painted Doors</td>
<td>N/A</td>
<td>Assumed PCB Containing ≥ 50 ppm</td>
<td>Approximately 210 SF</td>
</tr>
<tr>
<td>Beige Soffit/Cornice Paint</td>
<td>All Elevations</td>
<td>N/A</td>
<td>Assumed PCB Containing ≥ 50 ppm</td>
<td>Approximately 710 SF</td>
</tr>
<tr>
<td>Light Gray Paint on Wood Portico Components</td>
<td>South Elevation</td>
<td>N/A</td>
<td>Assumed PCB Containing ≥ 50 ppm</td>
<td>Approximately 20 SF</td>
</tr>
</tbody>
</table>

**LEGEND**

**Bolded** and boxed = Assumed greater than or equal to ( ) 50 ppm
**Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy**

<table>
<thead>
<tr>
<th>Sample</th>
<th>Description</th>
<th>Appearance</th>
<th>% Fibrous</th>
<th>% Non-Fibrous</th>
<th>Asbestos % Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-06-PCH-01</td>
<td>1st floor south - white/black glass block caulk</td>
<td>White/Black</td>
<td>Non-Fibrous Homogeneous</td>
<td>100% Non-fibrous (Other)</td>
<td>None Detected</td>
</tr>
<tr>
<td>11-06-PCH-02</td>
<td>1st floor south - white/black glass block caulk</td>
<td>Gray/White</td>
<td>Non-Fibrous Homogeneous</td>
<td>100% Non-fibrous (Other)</td>
<td>None Detected</td>
</tr>
<tr>
<td>11-06-PCH-03</td>
<td>1st floor south - gray block/brick mortar</td>
<td>Gray</td>
<td>Non-Fibrous Homogeneous</td>
<td>10% Quartz 90% Non-fibrous (Other)</td>
<td>None Detected</td>
</tr>
<tr>
<td>11-06-PCH-04</td>
<td>1st floor south - gray block/brick mortar</td>
<td>Gray</td>
<td>Non-Fibrous Homogeneous</td>
<td>25% Quartz 75% Non-fibrous (Other)</td>
<td>None Detected</td>
</tr>
<tr>
<td>11-06-PCH-05</td>
<td>(column on concrete) front - light gray/black paint</td>
<td>Gray</td>
<td>Non-Fibrous Homogeneous</td>
<td>&lt;1% Cellulose</td>
<td>100% Non-fibrous (Other)</td>
</tr>
<tr>
<td>11-06-PCH-06</td>
<td>(column on concrete) front - light gray/black paint</td>
<td>Gray</td>
<td>Non-Fibrous Homogeneous</td>
<td>&lt;1% Cellulose</td>
<td>100% Non-fibrous (Other)</td>
</tr>
<tr>
<td>11-06-PCH-07</td>
<td>By 28 park - light gray/red wall paint</td>
<td>Gray/Red</td>
<td>Non-Fibrous Homogeneous</td>
<td>&lt;1% Cellulose</td>
<td>100% Non-fibrous (Other)</td>
</tr>
<tr>
<td>11-06-PCH-08</td>
<td>By 30 park - light gray/red wall paint</td>
<td>Gray/Red</td>
<td>Non-Fibrous Homogeneous</td>
<td>100% Non-fibrous (Other)</td>
<td>None Detected</td>
</tr>
<tr>
<td>11-06-PCH-09</td>
<td>East elevation - black wall/resilual roof flashing</td>
<td>Black</td>
<td>Fibrous Homogeneous</td>
<td>15% Glass 85% Non-fibrous (Other)</td>
<td>None Detected</td>
</tr>
<tr>
<td>11-06-PCH-10</td>
<td>East elevation - black wall/resilual roof flashing</td>
<td>Black</td>
<td>Fibrous Homogeneous</td>
<td>&lt;1% Synthetic 5% Glass</td>
<td>95% Non-fibrous (Other) &lt;1% Chrysotile</td>
</tr>
<tr>
<td>11-06-PCH-11</td>
<td>Front portico - light gray paint</td>
<td>Gray/Tan</td>
<td>Non-Fibrous Homogeneous</td>
<td>5% Cellulose</td>
<td>95% Non-fibrous (Other)</td>
</tr>
<tr>
<td>11-06-PCH-12</td>
<td>Front portico - light gray paint</td>
<td>Gray/Tan</td>
<td>Non-Fibrous Homogeneous</td>
<td>100% Non-fibrous (Other)</td>
<td>None Detected</td>
</tr>
<tr>
<td>11-06-PCH-13</td>
<td>East elev. 2nd fl - white wood window frame caulk</td>
<td>Brown</td>
<td>Non-Fibrous Homogeneous</td>
<td>96% Non-fibrous (Other)</td>
<td>4% Chrysotile</td>
</tr>
<tr>
<td>11-06-PCH-14</td>
<td>East elev. 3rd fl. - white wood window frame caulk</td>
<td></td>
<td></td>
<td></td>
<td>Stop Positive (Not Analyzed)</td>
</tr>
<tr>
<td>11-06-PCH-15</td>
<td>East elev. 2nd fl. - white wood window glazing compound</td>
<td>White</td>
<td>Non-Fibrous Homogeneous</td>
<td>100% Non-fibrous (Other)</td>
<td>None Detected</td>
</tr>
<tr>
<td>11-06-PCH-16</td>
<td>East elev. 3rd fl. - white wood window glazing compound</td>
<td>White</td>
<td>Non-Fibrous Homogeneous</td>
<td>100% Non-fibrous (Other)</td>
<td>None Detected</td>
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</table>

**Report amended:** 11/19/2015 17:06:28 Replaces initial report from: 11/13/2015 11:00:32 Reason Code: Client-Change to Appearance

<table>
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<tr>
<th>Sample</th>
<th>Description</th>
<th>Appearance</th>
<th>Non-Asbestos</th>
<th>Asbestos</th>
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</thead>
<tbody>
<tr>
<td>11-06-PCH-17</td>
<td>East elev. 2nd fl. - white wood window paint</td>
<td>White Non-Fibrous Homogeneous</td>
<td>100% Non-fibrous (Other)</td>
<td>None Detected</td>
</tr>
<tr>
<td>11-06-PCH-18</td>
<td>East elev. 3rd fl. - white wood window paint</td>
<td>White Non-Fibrous Homogeneous</td>
<td>&lt;1% Cellulose</td>
<td>100% Non-fibrous (Other)</td>
</tr>
<tr>
<td>11-06-PCH-19</td>
<td>South elev. - beige cornice/soffit paint</td>
<td>White Non-Fibrous Homogeneous</td>
<td>&lt;1% Cellulose</td>
<td>100% Non-fibrous (Other)</td>
</tr>
<tr>
<td>11-06-PCH-20</td>
<td>West elev. - beige cornice/soffit paint</td>
<td>White Non-Fibrous Homogeneous</td>
<td>&lt;1% Cellulose</td>
<td>100% Non-fibrous (Other)</td>
</tr>
<tr>
<td>11-06-PCH-21</td>
<td>West elev. 3rd fl. - white replacement window caulk</td>
<td>White Non-Fibrous Homogeneous</td>
<td>3% Fibrous (Other)</td>
<td>97% Non-fibrous (Other)</td>
</tr>
<tr>
<td>11-06-PCH-22</td>
<td>West elev. 3rd fl. - white replacement window caulk</td>
<td>White Non-Fibrous Homogeneous</td>
<td>2% Fibrous (Other)</td>
<td>98% Non-fibrous (Other)</td>
</tr>
<tr>
<td>11-06-PCH-23</td>
<td>Addition west - white wood window frame caulk</td>
<td>White Non-Fibrous Homogeneous</td>
<td>3% Fibrous (Other)</td>
<td>97% Non-fibrous (Other)</td>
</tr>
<tr>
<td>11-06-PCH-24</td>
<td>Addition west - white wood window frame caulk</td>
<td>White Non-Fibrous Homogeneous</td>
<td>2% Fibrous (Other)</td>
<td>98% Non-fibrous (Other)</td>
</tr>
<tr>
<td>11-06-PCH-25</td>
<td>Addition west - white wood window glazing compound</td>
<td>White Non-Fibrous Homogeneous</td>
<td>100% Non-fibrous (Other)</td>
<td>None Detected</td>
</tr>
<tr>
<td>11-06-PCH-26</td>
<td>Addition west - white wood window glazing compound</td>
<td>White Non-Fibrous Homogeneous</td>
<td>100% Non-fibrous (Other)</td>
<td>None Detected</td>
</tr>
</tbody>
</table>

Analyst(s)

Jeremy Patino (1)
Kristin Lopez (13)
William Shedrawy (11)

Gloria V. Oriol, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%.

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

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

<table>
<thead>
<tr>
<th>SAMPLE ID</th>
<th>DESCRIPTION</th>
<th>APPEARANCE</th>
<th>% MATRIX MATERIAL</th>
<th>% NON-ASBESTOS FIBERS</th>
<th>ASBESTOS TYPES</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-06-PCH-10</td>
<td>East elevation - black wall/residual roof flashing</td>
<td>Black</td>
<td>97.4</td>
<td>None</td>
<td>2.6% Chrysotile</td>
</tr>
<tr>
<td>241504952-0010</td>
<td>Fibrous Homogeneous</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Analyst(s)

William Shedrawy (1)

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. 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. Wallingford, CT
Thursday, November 12, 2015

Attn: Mr. Phillip Hutter
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Project ID: CITIZENS BLOCK VERNON
Sample ID#s: BK19345 - BK19350

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,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301  NJ Lab Registration #CT-003
CT Lab Registration #PH-0618  NY Lab Registration #11301
MA Lab Registration #MA-CT-007  PA Lab Registration #68-03530
ME Lab Registration #CT-007  RI Lab Registration #63
NH Lab Registration #213693-A,B  VT Lab Registration #VT11301
Analysis Report
November 12, 2015

FOR: Attn: Mr. Phillip Hutter
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information
- Matrix: BULK
- Location Code: TIGHE
- Rush Request: Standard
- P.O.#: 12-1077

Custody Information
- Collected by: PCH
- Received by: LB
- Analyzed by: see "By" below
- Date: 11/06/15
- Time: 11:36

Laboratory Data
- SDG ID: GBK19345
- Phoenix ID: BK19345

Project ID: CITIZENS BLOCK VERNON
Client ID: 11-06-PB-01

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Result</th>
<th>RL/PQL</th>
<th>Units</th>
<th>Dilution</th>
<th>Date/Time</th>
<th>By</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead</td>
<td>7270</td>
<td>190</td>
<td>mg/Kg</td>
<td>100</td>
<td>11/09/15</td>
<td>LK</td>
<td>SW6010C</td>
</tr>
<tr>
<td>Total Metals Digest</td>
<td>Completed</td>
<td></td>
<td></td>
<td></td>
<td>11/06/15</td>
<td>G/AG</td>
<td>SW3050B</td>
</tr>
</tbody>
</table>

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

Comments:
Results are reported on an "as received" basis, and are not corrected for dry weight.

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
November 12, 2015
Reviewed and Released by: Greg Lawrence, Assistant Lab Director
Analysis Report
November 12, 2015

FOR:  Attn: Mr. Phillip Hutter
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information
Matrix: BULK
Location Code: TIGHE
Rush Request: Standard
P.O.#: 12-1077

Custody Information
Collected by: PCH
Received by: LB
Analyzed by: see "By" below

Date: 11/06/15
Time: 11:36

Laboratory Data
SDG ID: GBK19345
Phoenix ID: BK19346

菇 G/AG
11/06/15

Parameter Result
Parameter | Result | RL/PQL | Units | Dilution | Date/Time | By | Reference
--- | --- | --- | --- | --- | --- | --- | ---
Lead | 149 | 1.8 | mg/Kg | 1 | 11/07/15 | LK | SW6010C
Total Metals Digest | Completed | | | | | | |

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

Comments:
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Phyllis Shiller, Laboratory Director
November 12, 2015

Reviewed and Released by: Greg Lawrence, Assistant Lab Director
Analysis Report
November 12, 2015

FOR: Attn: Mr. Phillip Hutter
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information
Matrix: BULK
Location Code: TIGHE
Rush Request: Standard
P.O.#: 12-1077

Custody Information
Collected by: PCH
Received by: LB
Analyzed by: see "By" below

Date Time
11/06/15 11:36

Laboratory Data
SDG ID: GBK19345
Phoenix ID: BK19347

Project ID: CITIZENS BLOCK VERNON
Client ID: 11-06-PB-03

Parameter Result RL/ PQL Units Date/Time By Reference
Lead 441 2.5 mg/Kg 11/07/15 LK SW6010C
Total Metals Digest Completed 11/06/15 G/AG SW3050B

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

Comments:

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Phyllis Shiller, Laboratory Director
November 12, 2015
Reviewed and Released by: Greg Lawrence, Assistant Lab Director
Analysis Report
November 12, 2015

FOR: Attn: Mr. Phillip Hutter
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information
Matrix: BULK
Location Code: TIGHE
Rush Request: Standard
P.O.#: 12-1077

Custody Information
Collected by: PCH
Received by: LB
Analyzed by: see "By" below

Laboratory Data
SDG ID: GBK19345
Phoenix ID: BK19348

Parameter Result
RL/PQL Units Dilution Date/Time By Reference
Lead 1600 21 mg/Kg 10 11/09/15 LK SW6010C
Total Metals Digest Completed 11/06/15 G/AG SW3050B

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

Comments:
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Phyllis Shiller, Laboratory Director
November 12, 2015
Reviewed and Released by: Greg Lawrence, Assistant Lab Director
Analysis Report
November 12, 2015

FOR: Attn: Mr. Phillip Hutter
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information
Matrix: BULK
Location Code: TIGHE
Rush Request: Standard
P.O.#: 12-1077

Custody Information
Collected by: PCH
Received by: LB
Analyzed by: see "By" below
Date: 11/06/15
Time: 11:36

Laboratory Data
SDG ID: GBK19345
Phoenix ID: BK19349

Project ID: CITIZENS BLOCK VERNON
Client ID: 11-06-PB-05

<table>
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<tr>
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<th>Dilution</th>
<th>Date/Time</th>
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<tbody>
<tr>
<td>Lead</td>
<td>305000</td>
<td>2300</td>
<td>mg/Kg</td>
<td>1000</td>
<td>11/09/15</td>
<td>LK</td>
<td>SW6010C</td>
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<tr>
<td>Total Metals Digest</td>
<td>Completed</td>
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<td></td>
<td></td>
<td>11/06/15</td>
<td>G/AG</td>
<td>SW3050B</td>
</tr>
</tbody>
</table>

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Phyllis Shiller, Laboratory Director
November 12, 2015
Reviewed and Released by: Greg Lawrence, Assistant Lab Director
Analysis Report
November 12, 2015

FOR: Attn: Mr. Phillip Hutter
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information
Matrix: BULK
Location Code: TIGHE
Rush Request: Standard
P.O.#: 12-1077

Laboratory Data
SDG ID: GBK19345
Phoenix ID: BK19350

<table>
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<tr>
<th>Parameter</th>
<th>Result</th>
<th>RL/PQL</th>
<th>Units</th>
<th>Dilution</th>
<th>Date/Time</th>
<th>By</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead</td>
<td>134000</td>
<td>2100</td>
<td>mg/Kg</td>
<td>1000</td>
<td>11/11/15</td>
<td>LK</td>
<td>SW6010C</td>
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<tr>
<td>Total Metals Digest</td>
<td>Completed</td>
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<td></td>
<td>11/09/15</td>
<td>G/AG</td>
<td>SW3050B</td>
</tr>
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</table>

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Comments:
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Phyllis Shiller, Laboratory Director
November 12, 2015
Reviewed and Released by: Greg Lawrence, Assistant Lab Director
### QA/QC Data

**Parameter** | **Blk** | **Sample** | **Dup** | **LCSD** | **LCS** | **MS** | **MSD** | **MS RPD** | **% Rec Limits** | **% RPD Limits**
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---

**QA/QC Batch 326190** (mg/kg), QC Sample No: BK13837 (BK19350)

**ICP Metals - Soil**

**Lead**

<p>| | | | | | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
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<tbody>
<tr>
<td>Blank</td>
<td>0.33</td>
<td>17.8</td>
<td>17.0</td>
<td>4.60</td>
<td>98.5</td>
<td>112</td>
<td>12.8</td>
<td>85.2</td>
<td>88.8</td>
<td>4.1</td>
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</table>

**QA/QC Batch 326047** (mg/kg), QC Sample No: BK19358 (BK19345, BK19346, BK19347, BK19348, BK19349)

**ICP Metals - Soil**

**Lead**

<p>| | | | | | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Blank</td>
<td>0.33</td>
<td>116</td>
<td>111</td>
<td>4.40</td>
<td>103</td>
<td>103</td>
<td>0.0</td>
<td>88.9</td>
<td>83.6</td>
<td>6.1</td>
</tr>
</tbody>
</table>

**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**

November 12, 2015
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.

### Sample Criteria Exceedences Report

**GBK19345 - TIGHE**

<table>
<thead>
<tr>
<th>SampNo</th>
<th>Acode</th>
<th>Phoenix Analyte</th>
<th>Criteria</th>
<th>Result</th>
<th>RL</th>
<th>Criteria</th>
</tr>
</thead>
</table>

*** No Data to Display ***

State: CT

Criteria: None

---

Page 1 of 1
**Chain of Custody Record**

**Customer:** Tight Road  
**Address:** 213 Court Street  
**Middletown, CT**

**Project:** Citizens Block-Veran  
**Report to:** Philip Hutter  
**Invoice to:** Westfield

**Sample Information - Identification**

- **Sampler's Signature:** Phil Hutter  
- **Date:** 11/15

**Matrix Code:**
- DW=Drinking Water  
- GW=Ground Water  
- SW=Surface Water  
- WW=Waste Water  
- RW=Raw Water  
- SE=Sediment  
- SL=Sludge  
- S=Soil  
- SD=Solid  
- W=Wipe  
- OIL=Oil  
- B=Bulk  
- L=Liquid

**PHOENIX USE ONLY**

<table>
<thead>
<tr>
<th>SAMPLE #</th>
<th>Customer Sample Identification</th>
<th>Sample Matrix</th>
<th>Date Sampled</th>
<th>Time Sampled</th>
</tr>
</thead>
<tbody>
<tr>
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<td>11-06-PB-01</td>
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<td>19347</td>
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<td>19348</td>
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**Relinquished by:** Phil Hutter  
**Accepted by:** [Signature]  
**Date:** 11/15  
**Time:** 11:36

**Comments, Special Requirements or Regulations:**

- Turnaround:  
  - [X] Standard
  - [ ] 1 Day*  
  - [ ] 2 Days*  
  - [ ] 3 Days*  
  - [ ] Other

* SURCHARGE APPLIES

**State where samples were collected:** CT

---

**Contact Options:**
- Fax:  
- Phone: [Phone Number]
- Email: [Email Address]
Wednesday, November 11, 2015

Attn: Mr. Phillip Hutter
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Project ID: CITIZENS BLOCK VERNON
Sample ID#s: BK19351

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.

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,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618  NJ Lab Registration #CT-003
MA Lab Registration #MA-CT-007  NY Lab Registration #11301
ME Lab Registration #CT-007  PA Lab Registration #68-03530
NH Lab Registration #213693-A,B  RI Lab Registration #63
VT Lab Registration #VT11301
Analysis Report
November 11, 2015

FOR: Attn: Mr. Phillip Hutter
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information
Matrix: BULK
Location Code: TIGHE
Rush Request: Standard
P.O.#: 12-1077

Custody Information
Collected by: 11/06/15
Received by: LB 11/06/15 11:36
Analyzed by: see "By" below

Laboratory Data
SDG ID: GBK19351
Phoenix ID: BK19351

Project ID: CITIZENS BLOCK VERNON
Client ID: 11-06-TCLP-01

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Result</th>
<th>RL/</th>
<th>PQL</th>
<th>Units</th>
<th>Dilution</th>
<th>Date/Time</th>
<th>By</th>
<th>Reference</th>
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</thead>
<tbody>
<tr>
<td>TCLP Lead</td>
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<td>0.10</td>
<td>mg/L</td>
<td>1</td>
<td>11/09/15</td>
<td>EK</td>
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<td>TCLP Metals Digestion</td>
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<td>11/09/15</td>
<td>I/I</td>
<td>SW3005A</td>
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<tr>
<td>TCLP Extraction for Metals</td>
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<td>11/06/15</td>
<td>I</td>
<td>SW1311</td>
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</tr>
</tbody>
</table>

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

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
November 11, 2015
Reviewed and Released by: Greg Lawrence, Assistant Lab Director
## QA/QC Data

**SDG I.D.: GBK19351**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Blk</th>
<th>Sample</th>
<th>Dup</th>
<th>Dup</th>
<th>LCS</th>
<th>LCSD</th>
<th>LCS</th>
<th>MSD</th>
<th>MS</th>
<th>Limits</th>
<th>% Rec</th>
<th>% RPD Limits</th>
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<tr>
<td>QA/QC Batch 326125 (mg/L), QC Sample No: BK18542 (BK19351)</td>
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<td><strong>Lead</strong></td>
<td>BRL</td>
<td>0.010</td>
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<td>NC</td>
<td>97.9</td>
<td>102</td>
<td>4.1</td>
<td>97.4</td>
<td>101</td>
<td>3.6</td>
<td>75 - 125</td>
</tr>
</tbody>
</table>

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  
November 11, 2015
### Sample Criteria Exceedences Report

GBK19351 - TIGHE

---

**Criteria:** None  
**State:** CT  

<table>
<thead>
<tr>
<th>SampNo</th>
<th>Acode</th>
<th>Phoenix Analyte</th>
<th>Criteria</th>
<th>Result</th>
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<th>RL Criteria</th>
<th>Analysis</th>
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</tr>
</tbody>
</table>

*** 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.
# Chain of Custody Record

**Customer:** /!

**Address:** 213 Court Street, Middletown, CT

**Project:** Citizens Block - Vernon

**Report to:** Philip Hutter

**Invoice to:** Westfield

**Sampling Information - Identification**

- **Matrix Code:**
  - DW = Drinking Water
  - GW = Ground Water
  - SW = Surface Water
  - WW = Waste Water
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  - SE = Sediment
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  - S = Soil
  - SD = Solid
  - W = Wipe
  - OIL = Oil
  - B = Bulk
  - L = Liquid

**Sample Information**

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<th>Date Sampled</th>
<th>Time Sampled</th>
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</thead>
<tbody>
<tr>
<td>1-06-TCLP-0</td>
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<td>B</td>
<td>11/6/15</td>
<td>X</td>
</tr>
</tbody>
</table>

**Analysis Request**

- TCLP Lead

**Relinquished by:** Philip Hutter

**Accepted by:**

**Date:** 11/6/15  **Time:** 11:30

**Comments, Special Requirements or Regulations:**

- SURCHARGE APPLIES

**State where samples were collected:** CT

- SURCHARGE APPLIES