



Wilcox & Barton INC.

CIVIL • ENVIRONMENTAL • GEOTECHNICAL

**HAZARDOUS MATERIALS SURVEY
128 PROVIDENCE STREET
WORCESTER, MASSACHUSETTS**

Prepared for:

City of Worcester
455 Main Street

Worcester, Massachusetts 01608

Contact: Mr. Peter Dunn, (508) 799-1400 x31419

Prepared by:

Wilcox & Barton, Inc.

#1B Commons Drive, Unit 12B

Londonderry, New Hampshire 03053

Contact: David JP Foss, (603) 369-4190 x523

February 28, 2019

Wilcox & Barton, Inc. Project No: WORC0006

WWW.WILCOXANDBARTON.COM

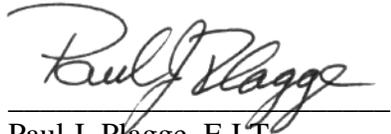
1 (888) 777-5805

CERTIFICATION

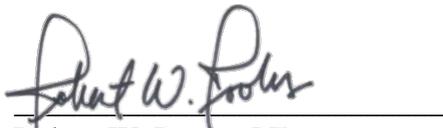
The following personnel have prepared and/or reviewed this report for accuracy, content, and quality of presentation.

Document Name: Hazardous Materials Survey
128 Providence Street
Worcester, Massachusetts

Date/Version: February 28, 2019



Paul J. Plagge, E.I.T.
Senior Project Engineer
Massachusetts Asbestos Inspector License No AI051152



Robert W. Rooks, PE
Principal Engineer

TABLE OF CONTENTS

1.0	INTRODUCTION.....	1
2.0	SITE DESCRIPTION.....	1
3.0	SITE INSPECTION.....	1
3.1	Asbestos-Containing Materials.....	1
3.2	Lead Paint Survey.....	5
3.3	PCB- and Mercury-Containing Materials Survey.....	7
3.3.1	PCB-Containing Devices.....	7
3.3.2	Mercury-Containing Devices/Lamps.....	7
3.3.3	Waste Stream Characterization.....	8
4.0	CONCLUSIONS AND RECOMMENDATIONS.....	8
4.1	Asbestos.....	8
4.2	Lead Paint.....	9
4.3	PCBs and Mercury-Containing Materials.....	10
4.4	Waste Stream Characterization.....	10
5.0	LIMITATIONS AND RESTRICTIONS.....	10

Tables

Table 1	Bulk Samples – Summary of Analytical Results
Table 2	Paint Chip Samples - Summary of Analytical Results

Figures

Figure 1	Site Location Map
Figure 2A	Hazardous Materials Survey – Sample Location Plan – Exterior
Figure 2B	Hazardous Materials Survey – Sample Location Plan – First Floor
Figure 2C	Hazardous Materials Survey – Sample Location Plan – Second Floor
Figure 2D	Hazardous Materials Survey – Sample Location Plan – Third Floor
Figure 2E	Hazardous Materials Survey – Sample Location Plan – Fourth Floor
Figure 3A	Hazardous Materials Survey – ACM Location Plan – Exterior
Figure 3B	Hazardous Materials Survey – ACM Location Plan – First Floor
Figure 3C	Hazardous Materials Survey – ACM Location Plan – Second Floor
Figure 3D	Hazardous Materials Survey – ACM Location Plan – Third Floor
Figure 3E	Hazardous Materials Survey – ACM Location Plan – Fourth Floor

Appendices

Appendix A	Inspector Certification
Appendix B	Laboratory Certifications
Appendix C	Laboratory Reports

1.0 INTRODUCTION

Wilcox & Barton, Inc. has completed a hazardous materials survey of the Former St. Vincent Hospital Nurses' Wing building at 128 Providence Street in Worcester, Massachusetts. The work was performed on behalf of the City of Worcester.

The purpose of the survey was to identify asbestos-containing materials (ACM), lead paint-coated surfaces, polychlorinated biphenyl- (PCB-) containing equipment, and mercury-containing materials in support of planned building renovation. Other hazardous materials were specifically outside the scope of this survey. This survey is subject to the limitations noted herein.

Collection of asbestos bulk samples was performed in general accordance with the *Site-Specific Quality Assurance Project Plan (QAPP) Addendum No. 4* approved by the U.S. Environmental Protection Agency on October 23, 2018. However, the number of samples analyzed was modified due to the number of homogenous materials identified during the survey. The sampling frequency, including collection of duplicate samples of homogenous materials, was selected in accordance with Asbestos Hazard Emergency Response Act (AHERA) requirements, which exceed the Quality Assurance/Quality Control (QA/QC) sample frequency stipulated in the QAPP.

2.0 SITE DESCRIPTION

The subject of this assessment is a 64,000-square-foot portion of a building situated adjacent to the Worcester Senior Center. The building was formerly used as a four-story residence for the Saint Vincent Hospital nursing school (now referred to as the Nurses' Wing) constructed in 1926 with additions built in 1956 and 1967. In 1988, the nursing school was closed, and the buildings were vacated. The location of the site is depicted on Figure 1 - *Site Location Map*, and the building layout is depicted on attached Figures 2A through 2E.

3.0 SITE INSPECTION

The hazardous materials survey was performed on November 29 and 30, 2018, and is summarized in the following sections. The roof and utility tunnel were not accessible due to safety concerns - a survey will need to be performed in these areas prior to building renovation. Portions of the building did not have lights; therefore, inspection in these areas was performed using flashlights.

3.1 Asbestos-Containing Materials

The ACM survey was performed by a trained and accredited inspector; a copy of the inspector certification is contained in Appendix A. Accessible portions of the building were inspected for suspect ACM. For each suspect ACM observed, the inspector described the material, assigned a unique identification number (homogenous material number), and recorded its location. Bulk samples of each suspect, distinct, homogenous material were collected in a random manner and submitted for laboratory analysis of asbestos. A homogenous material is defined as a

construction material used on similar structures and utility components that is uniform in color and/or texture, based on the inspector’s judgment.

Sample locations are depicted on Figures 2A through 2E and are summarized in Table 1 – *Bulk Samples – Summary of Analytical Results*. A total of 80 bulk samples representing 34 homogenous materials were submitted to ProScience Analytical Services, Inc. (ProScience) of Woburn, Massachusetts, for analysis by polarized light microscopy (PLM) in accordance with Method 600/R-93/116 using the positive stop technique. In this technique, once a sample from a homogenous material tests positive for asbestos, the remaining samples of that group are not analyzed. A copy of the laboratory certification for ProScience is presented in Appendix B.

The PLM method is not considered a reliable analytical method for non-friable organically bound (NOB) materials. NOB refers to a wide variety of non-friable building materials embedded in flexible-to-rigid asphalt or vinyl matrices generally associated with materials such as vinyl-asphalt tile, mastic, asphalt shingles, roofing materials, paint chips, caulking, and glazing compound. According to current state-of-the-art practices, transmission electron microscopy (TEM) analysis is the recommended method for NOB materials that test negative for asbestos by PLM. A total of 97 samples representing 97 NOB homogenous materials were submitted to ProScience for analysis by TEM instead of PLM.

A material is defined by the U.S. Environmental Protection Agency (EPA) as a regulated asbestos-containing material if it contains greater than one percent (1%) asbestos based on laboratory analysis. The Massachusetts Department of Environmental Protection (MassDEP) defines asbestos-containing material as any material containing 1% or more of asbestos. Therefore, a material can only be considered negative if analytical results from all bulk samples of an individual homogeneous material indicate an asbestos content of less than 1%.

Asbestos was either assumed present or confirmed by laboratory analysis at concentrations of 1% or more in the following materials:

Summary of Asbestos Containing Materials

Asbestos Containing Material	Homogenous Material #	Location	Quantity
Exterior Window Caulking Exterior Window Glazing Compound	B001 B080	Exterior Building	264 Windows
Exterior Door Caulking	B002	Exterior Building	15 Doors
Corrugated Pipe Insulation (including risers) and Fittings	B004 B005	Throughout First Floor	6,050 lf and 900 fittings
Corrugated Pipe Insulation (including risers) and Fittings	B004 B005	Throughout Utility Tunnel Below First Floor	Unknown Quantities
Red 9x9 Floor Tile Grey 9x9 Floor Tile Mastic on Floor Tile Black Floor Tile	B010 B011 B012 B013	Room 4	275 sf
Black 9x9 Floor Tile Brown 9x9 Floor Tile	B018 B019	Rooms 11, 24, 26	2,585 sf
Black Cove Base	B021	Rooms 6, 7, 8, 11, 15, 24, 30, 31	1,185 lf



Summary of Asbestos Containing Materials

Asbestos Containing Material	Homogenous Material #	Location	Quantity
Dark Brown 9x9 Floor Tile Tan 9x9 Floor Tile Mastic on 9x9 Floor Tile	B024 B025 B026	First Floor - Rooms 6, 15, 21, 23, 27, 28, 29 Second Floor – Rooms 33, 38, 41, 42, 46, 55, 57, 63	4,760 sf
Green 9x9 Floor Tile Mastic on Floor Tile Black 9x9 Floor Tile	B028 B029 B030	First Floor - Rooms 7, 20, 20B, Second Floor – Rooms 34, 39, 40, 43, 44 Third Floor – Rooms 92, 94, 95, 99, 100, 101, 107, 110, 115, 115C, 115E, 115G, 116, 116D Fourth Floor – Rooms 151, 152, 154, 155, 158, 159, 161, 162, 165, 166, 168A, 168B, 171, 173, 191	6,380 sf
Grey 9x9 Floor Tile Mastic on Floor Tile	B031 B032	First Floor – Rooms 8, 14, 18	850 sf
Mastic on Black Cove Base	B034	First Floor - Room 2 Stairs	40 sf
Black 9”x9” Floor Tile Perimeter of Room	B035	First Floor - Rooms 7, 14	140 sf
Red 9x9 Floor Tile Grey 9x9 Floor Tile Mastic on Floor Tile	B040 B041 B042	First Floor - Room 16	520 sf
Brown 9x9 Floor Tile Mastic on 9x9 Floor Tile	B047 B048	First Floor - Rooms 18B, 25	350 sf
Carpet Mastic Dark Brown 9x9 Floor Tile under B054 Mastic on 9x9 Floor Tile under B054	B054 B059 B060	First Floor - Room 27	175 sf
Tan 9x9 Floor Tile Brown 9x9 Floor Tile Mastic Tan Floor Tile	B064 B065 B066	First Floor - Room 32 Third Floor – Rooms 93, 96, 98, 102, 103, 106, 108, 110, 115B, 115D, 115F, 116B, 116C, 116E, 117, Fourth Floor – 153, 156, 157, 160, 165B, 168	2,920 sf
Carpet Mastic	B076A	Second Floor - Rooms 34, 35	160 sf
Mastic on White 12x12 Floor Tile Floor Tile under B081/B082 Mastic on Floor Tile under B081/B082	B082 B099 B100	Second Floor - Rooms 45, 68	580 sf
Kitchen Sink Undercoating	B091	Second Floor – Room 63	1 Sink
Yellow Pebbled Linoleum	B093	Second Floor – Room 78	100 sf
12x12 Floor Tile under Carpet	B095	Second Floor - Room 76	1,610 sf
Beige 9x9 Floor Tile Mastic on Beige Floor Tile	B102 B103	Second Floor - Room 112	1,800 sf
Dark Green 9x9 Floor Tile Mastic on Dark Green Floor Tile	B109 B110	Third Floor – Rooms 118, 119, 120, 122, 125, 127, 128C, 130, 134, 137, 141, 147 Fourth Floor – Rooms 176, 179, 181, 184, 185, 187, 188, 201, 205, 208, 209, 210, 211, 215	3,585 sf
Beige 9x9 Floor Tile Mastic on Beige Floor Tile	B111 B112	Third Floor – Rooms 121, 123, 132, 139	545 sf



Summary of Asbestos Containing Materials

Asbestos Containing Material	Homogenous Material #	Location	Quantity
Dark Grey 9x9 Floor Tile Mastic on Dark Grey Floor Tile	B115 B116	Third Floor – Room 128B Fourth Floor – Rooms 174, 178, 180, 183, 186, 189, 190, 193, 197, 200, 202, 203, 206, 207, 212, 216, 217	2,560 sf
Light Grey 9x9 Floor Tile	B117	Third Floor - Rooms 131, 136, 138, 143	600 sf
Brown 12x12 Floor Tile White 12x12 Floor Tile Mastic on 12x12 Floor Tile	B127 B128 B129	Fourth Floor – Room 177	130 sf
Beige 12x12 Floor Tile Mastic on Beige Floor Tile	B133 B134	Fourth Floor – Rooms 167, 170, 175, 196, 198, 199, 204	4,000 sf
Exterior Roof under Membrane (Assumed)	B136	Exterior Roof	14,800 sf

lf linear feet
sf square feet

In addition to ACM materials, MassDEP further regulates materials containing less than 1% asbestos as Asbestos Containing Waste Materials (ACWM). The definition of ACWM includes waste material containing any amount of asbestos in addition to ACM removed during construction or renovation activities, materials contaminated by ACM, and ACM on and/or in facility components that are inoperable or taken out of service.

Asbestos was detected at concentrations of less than 1% in the following material:

Summary of Materials Containing Trace Asbestos

Material	Homogenous Material #	Location	Quantity
Multi-Colored Square Floor Tile Fabric Backing on floor Tile	B014 B015	First Floor - Room 3	150 sf
Grey Stair Tread	B017	First Floor - Room 2 Stairs	45 sf
Mastic on Brown Floor Tile	B020	First Floor - Rooms 6, 7, 8, 11, 15, 24, 30, 31	2,585 sf
Brown and Yellow Square Linoleum	B023	First Floor – Room 5 Second Floor - Room 53 Third Floor - Room 111 Fourth Floor – Room 171	380 sf
Vibration Dampening Cloth on HVAC	B036	First Floor - Room 12	8 sf
White Cove Base	B037	First Floor - Rooms 14, 16, 18B, 23, 27, 28, 30B, 30C	650 lf
Sink Undercoating	B039	First Floor - Room 16	1 Sink
Mastic on Green 9x9 Floor Tile	B044	First Floor – Room 16 Stairs, 19	520 sf
Mastic on Green Stair Tread	B045	First Floor – Room 16	30 sf
Carpet Mastic	B051	First Floor – Room 20B	315 sf
Mastic on Beige Stair Tread Beige Stair Tread Mastic on Black Cove Base on Stairs	B052 B053 B057	First Floor - Room 26	70 sf



Summary of Materials Containing Trace Asbestos

Material	Homogenous Material #	Location	Quantity
Carpet Mastic	B058	First Floor - Rooms 30, 30B, 30C	650 sf
Mastic on Orange 9x9 Floor Tile Under B054	B061	First Floor – Room 27	175 sf
Mastic on Black Flooring on Stairs	B063	First Floor - Room 30	8 sf
Brown Flooring on Stairs to Second Floor Mastic on Grey Stair Tread	B067 B072	First Floor – Room 32	20 sf
Mastic on Brown 9x9 Floor Tile Black Paper under B069/B070	B070 B073	First Floor - Room 32 Third Floor – Rooms 93, 96, 98, 102, 103, 106, 108, 110, 115B, 115D, 115F, 116B, 116C, 116E, 117, Fourth Floor – 153, 156, 157, 160, 168	2,920 sf
Mastic on Brown 9x9 Floor Tile	B070	Third Floor – Rooms 93, 96, 98, 102, 103, 106, 108, 110, 115B, 115D, 115F, 116B, 116C, 116E, 117	2,050 sf
Carpet Mastic	B076B	Second Floor – Rooms 34, 35	160 sf
Black Paper under Hallway Rug	B077	Second Floor – Rooms 43, 54, 56	1,900 sf
Sink Undercoating	B094	Second Floor – Room 76	1 sink
Mastic on 12x12 Floor Tile (B095) under Carpet Carpet Mastic on B095	B096 B097	Second Floor – Room 76	1,610 sf
Felt Paper under Yellow Pebbled Linoleum	B101	Second Floor – Room 78	100 sf
Beige Flooring Material under B104	B105	Third Floor – Room 92 Fourth Floor – Room 150	250 sf
Mastic on Light Grey 9x9 Floor Tile	B118	Third Floor – Rooms 131, 136, 138, 143	600 sf
Paper on B102/B103	B120	Third Floor – Room 112	1,800 sf
Black Paper under B109/B110	B122	Third Floor – Rooms 118, 119, 120, 122, 125, 127, 128C, 130, 134, 137, 141, 147 Fourth Floor – Rooms 176, 179, 181, 184, 185, 187, 188, 201, 205, 208, 209, 210, 211, 215	3,585 sf
Grey Stair Tread	B124	Third Floor - Room 109	50 sf
Dark Green Linoleum	B135	Fourth Floor – Room 213	65 sf

lf linear feet
sf square feet

A summary of sample locations, descriptions, and laboratory analytical results is presented in Table 1. The locations of the detected ACM and ACWM are depicted on Figures 3A through 3E.

3.2 Lead Paint Survey

Wilcox & Barton, Inc. performed a survey of painted surfaces in and on the building. The location and general condition of each paint-coated surface was recorded. Paint system condition varied from fair to poor. The predominant paint systems consisted of the following:



- Yellow on Exterior Columns
- Light Blue on Interior Walls and Trim
- Beige on Interior Walls and Trim
- White on Interior Walls, Trim, and Ceilings
- Green on Red on Orange on Beige on Interior Walls
- Light Green on Interior Walls
- Forest Green on Interior Walls
- Pink on Interior Walls
- Red on Trim
- Lime Green on Interior Walls and Trim

Seventeen bulk samples were collected from surfaces exhibiting unique paint systems and submitted to ProScience for laboratory analysis of lead by atomic absorption (AA) using Test Method SW846-7420/3051.

Analytical results are summarized in Table 2 – *Paint Chip Samples – Summary of Analytical Results*. A copy of the laboratory certification for ProScience is presented in Appendix B. A copy of the laboratory report is included in Appendix C.

Laboratory analysis revealed detectable concentrations of lead within 15 of the 17 paint systems observed. Paint containing lead at concentrations exceeding 0.5 % by weight is considered “lead-based paint” by both the US Environmental Protection Agency (EPA) and the US Department of Housing and Urban Development (HUD) definitions. The paint systems that exceeded the 0.5% threshold are shown in the following table.

Paint Systems with Lead Concentration Greater than 0.5%

Description	Location	Concentration (Weight %)
Yellow	Exterior Column	34.2
Light Blue	Hallway Trim	13.4
White	Interior Door	6.47
Light Green	Interior Wall	3.21
Forest Green	Interior Wall	0.64
Brown	Interior Door	2.65
Beige	Interior Door Trim	1.54
White	Interior Window Trim	0.97
White	Interior Walls	7.3
Pink	Interior Walls	11
Lime Green	Interior Walls and Trim	0.78

Paint containing lead at a concentration exceeding 0.06 % by weight meets the Consumer Product Safety Commission definition of “lead-containing paint.”



The following paint systems contained lead at a concentration below the 0.5 % threshold but above the 0.06 % threshold:

Paint Systems with Lead Concentration Less than 0.5% and Greater than 0.06%

Description	Location	Concentration (Weight %)
Beige	Interior Wall	0.18
White	Interior Wall	0.13
Green on Red on Orange on Beige	Interior Wall	0.40
Red	Door Trim	0.21

For worker protection purposes under Occupational Safety and Health Administration (OSHA) rules, any amount of lead in paint poses a potential exposure risk.

3.3 PCB- and Mercury-Containing Materials Survey

3.3.1 PCB-Containing Devices

Wilcox & Barton, Inc. visually inspected the building for the presence of potential PCB-containing materials. PCBs are a class of organic chemicals that were manufactured in the United States until the late 1970s and used in dielectric fluids for their insulation and heat transfer properties. PCBs were typically used in electrical transformers, capacitors, heat transfer equipment, light ballasts, and specialty paints. Electrical devices manufactured prior to 1978 are commonly assumed to contain PCBs; most equipment manufactured after that time has a “PCB Free” or “No PCB” label.

During the inspection, Wilcox & Barton, Inc. observed the following potential PCB-containing items in the building.

Location	Light Ballasts
Throughout	164

During the inspection, fluorescent light fixtures were observed throughout the building. “No PCB labels” were not identified on the fixtures.

Inspection and testing for PCB-containing paints and/or caulking was not part of this scope of work.

3.3.2 Mercury-Containing Devices/Lamps

Wilcox & Barton, Inc. visually inspected the structure for the presence of potential mercury-containing materials. Mercury is a dense, shiny, silvery-white metal that is liquid at room temperature. Liquid mercury evaporates at room temperature, producing invisible, odorless vapors. Mercury is particularly toxic and human exposure can result from inhalation of vapors, skin contact, and ingestion. Mercury has numerous industrial uses. Common devices often containing mercury include: 1) controls for the measurement of vacuum, pressure, fluid, temperature, or flow



(thermostats, thermometers, manometers, etc.), 2) switches (in furnaces, gas regulators, sump pumps, appliances, HVAC equipment, etc.), and 3) light bulbs (fluorescent, neon, high intensity discharge).

During the inspection, Wilcox & Barton, Inc. observed the following potential mercury-containing items in the building.

Summary of Potential Mercury-Containing Devices/Lamps

Location	Fluorescents Tubes	Thermostats	Emergency Lights	Switches
Throughout	800	2	0	0

3.3.3 Waste Stream Characterization

Wilcox & Barton, Inc. collected samples of building materials representative of the likely demolition waste stream for disposal pre-characterization. Building components were sampled by type and in relative quantities likely to be representative of the typical demolition debris waste stream. Glass, wiring, metal, and recyclables were not sampled. The composited waste stream contained plaster, drywall, ceiling tiles, wood, floorboard, carpet, and wallboard.

Composite samples representing the first floor (1st Floor), second floor (2nd Floor) and third and fourth floors (3rd & 4th Floors) were submitted to Con-Test Analytical Laboratory in East Longmeadow, Massachusetts, for laboratory analysis of lead following extraction by the toxicity characteristic leaching procedure (TCLP). In accordance with EPA regulations, when a TCLP sample extract contains lead at a concentration equal to or greater than 5.0 milligrams/liter (mg/L), the material is considered a hazardous waste. Lead was detected at concentrations of 0.32 mg/L in 1st Floor, 0.26 mg/L in 2nd Floor, and 7.8 in 3rd & 4th Floors. A copy of the laboratory report is included in Appendix C.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The following conclusions are drawn from the findings of the survey.

4.1 Asbestos

Asbestos was assumed present or was detected at a concentration greater than or equal to 1% in window and door caulking, floor tiles, mastics, pipe insulation and fittings, cove base, window glazing compound, sink undercoating, and roofing material.

Trace asbestos concentrations (<1%) were detected in the floor tiles, mastic, stair treads, HVAC vibration dampening cloth, cove base, sink undercoating, flooring paper and cloth, and linoleum.

Any demolition or renovation that could disturb ACM must comply with state and federal environmental and safety standards. In accordance with NESHAPs, a contractor conducting any demolition that will disturb regulated ACM must: (1) notify the EPA Administrator of such activities; (2) use proper removal procedures; (3) use proper engineering controls to limit

emissions of asbestos fibers; and (4) utilize proper waste disposal. Also, in accordance with NESHAPs, ACM that will be disturbed must be removed by a licensed asbestos abatement contractor prior to initiation of any demolition or renovation activities. If any hidden and previously undetected suspect ACM is uncovered during demolition activities, work must be stopped, and the material tested for asbestos content. All ACM must be disposed of in accordance with all applicable state and federal requirements.

Materials with trace (<1%) amounts of asbestos must be handled and disposed of by licensed asbestos abatement contractors and disposed of as asbestos-containing waste in accordance with state and federal regulations.

Under OSHA regulations, any demolition or renovation to be performed at a structure where ACM is present must be performed in accordance with a worker protection policy, including, but not limited to, appropriate training, medical monitoring, respiratory protection, and other protective equipment.

Communication of hazards as specified in 29 CFR 1926.1101(k) requires that the facility owner provide notification of the presence, quantity, and location of ACM to people who may come in contact with the ACM during construction or renovation work. Warning signs must be posted at the entrance to mechanical rooms or immediately within the room if clearly noticeable. The signs will identify the ACM that is present, its location, and the proper work practices required to ensure that ACM is not disturbed. The signs must bear the following information:

DANGER
ASBESTOS
CANCER AND LUNG DISEASE HAZARD
AUTHORIZED PERSONNEL ONLY

Labels must be affixed to thermal system insulation and surfacing materials containing asbestos at a concentration greater than 1% and to all containers containing such products, including waste containers. Where feasible, installed asbestos products must contain a visible label. The label must contain the following information:

DANGER
CONTAINS ASBESTOS FIBERS
AVOID CREATING DUST
CANCER AND LUNG DISEASE HAZARD

4.2 Lead Paint

Lead was detected in 15 of 17 paint systems in the building. The presence of lead in paint requires that any renovation or demolition work be performed under the worker protection requirements outlined in 29 CFR 1926.62. During demolition or renovation, paint materials containing lead should not be sanded, scraped, drilled, or otherwise altered unless proper engineering controls are utilized to prevent migration of fugitive lead-containing dust from the work area. Under OSHA regulations, any demolition or renovation to be performed at a structure where lead in paint is present must be performed in accordance with a worker

protection policy, including, but not limited to, appropriate training, medical monitoring, respiratory protection, and other protective equipment.

4.3 PCBs and Mercury-Containing Materials

Wilcox & Barton, Inc. observed 164 potential PCB-containing light ballasts and one potential PCB-containing transformer in the building. PCB-containing materials must be handled, managed, and disposed of in accordance with all federal and state regulatory requirements.

Wilcox & Barton, Inc. observed 800 potential mercury-containing fluorescent light tubes and 2 potential mercury-containing thermostats.

Mercury-containing materials must be handled, managed, and disposed of in accordance with applicable federal and state regulatory requirements. These items should be removed prior to commencement of demolition work.

4.4 Waste Stream Characterization

Three waste pre-characterization samples were collected from building materials representative of the likely bulk demolition/renovation waste stream. TCLP laboratory analysis for lead for the sample collected from the third and fourth floors indicates that the demolition waste stream may be characterized as hazardous waste.

Wilcox & Barton, Inc. recommends the collection and analysis of the actual building waste stream(s) samples prior to disposal. This requirement should be conveyed to the demolition contractor to ensure proper segregation, handling, and disposal of demolition debris.

5.0 LIMITATIONS AND RESTRICTIONS

This hazardous materials survey was restricted to observations made by Wilcox & Barton, Inc. during inspection of the facility on the date indicated. The results of this survey do not guarantee that all ACM or hazardous materials have been located or identified for the following reasons:

1. Each suspect or confirmed ACM was assumed to be homogenous. The composition of materials that appear homogenous may differ from one location to another.
2. Suspect ACM or painted surfaces may be hidden within or behind structural components that were not accessible unless substantial demolition was performed.
3. Portions of the building did not have lights; therefore, inspection in these areas was performed using flashlights.
4. The roof was not accessed due to structural integrity concerns. Areas of the roof were depressed and the edge of the roof at the courtyard was structurally compromised.

5. The utility tunnel under the first floor was not surveyed due to confined space and safety concerns. Corrugated pipe insulation was observed in the tunnel from the manhole entrance. A survey must be performed in these areas prior to renovation.
6. Reportedly, a plenum is present between the fourth floor and the roof. Wilcox & Barton, Inc. could not access this area for the survey.
7. Inspection under carpeting on the upper floors of the building was performed as thoroughly as possible; however, floor tiles and/or other flooring may be present in areas that were not physically inspected.

Within the limitations mentioned above, this project has been undertaken and performed in a professional manner, in accordance with generally accepted practices, and using the degree of skill and care ordinarily exercised by reputable environmental consultants under similar circumstances.

TABLES

TABLE 1
Bulk Samples - Summary of Analytical Results
 Hazardous Materials Survey
 128 Providence Street
 Worcester, Massachusetts
 (see notes at end of table)

Material ID#	Homogenous Material	Sample #	Functional Space/ Sample Location	Date Sampled	PLM Results	TEM Results
B001	Exterior Window Caulking	B001A	Exterior	11/29/2018	5% Chrysotile	--
		B001B	Exterior	11/29/2018	NA/PS	--
B002	Exterior Door Caulking	B002A	Exterior	11/29/2018	2% Chrysotile	--
		B002B	Exterior	11/29/2018	NA/PS	--
B003	Tar Paper under Wood Floor	B003A	Room 2	11/29/2018	ND	--
		B003B	Room 2	11/29/2018	ND	--
B004	Pipe Insulation	B004A	Room 1	11/29/2018	60% Chrysotile	--
		B004B	Room 2	11/29/2018	NA/PS	--
		B004C	Room 24	11/29/2018	NA/PS	--
B005	Insulation on Fitting	B005A	Room 3	11/29/2018	70% Chrysotile	--
		B005B	Room 2	11/29/2018	NA/PS	--
B006	White Skim Coat on Plaster Wall	B006A	Room 2	11/29/2018	ND	--
		B006B	Room 5	11/29/2018	ND	--
		B006C	Room 2	11/29/2018	ND	--
B007	Plaster Walls	B007A	Room 2	11/29/2018	ND	--
		B007B	Room 5	11/29/2018	ND	--
		B007C	Room 2	11/29/2018	ND	--
B008	Drywall	B008A	Room 2	11/29/2018	ND	--
		B008B	Room 2	11/29/2018	ND	--
B009	Joint Compound	B009A	Room 2	11/29/2018	ND	--
		B009B	Room 2	11/29/2018	ND	--
B010	Red 9x9 Floor Tile	B010	Room 4	11/29/2018	--	38.86% Chrysotile
B011	Grey 9x9 Floor Tile	B011	Room 4	11/29/2018	--	31.62% Chrysotile
B012	Mastic on Tile	B012	Room 4	11/29/2018	--	2.30% Chrysotile
B013	Black Floor Tile	B013	Room 4	11/29/2018	--	12.41% Chrysotile
B014	Multi-colored Square Floor Tiles	B014	Room 3	11/29/2018	--	TR Chrysotile
B015	Fabric Backing on Floor Tiles	B015	Room 3	11/29/2018	--	TR Chrysotile
B016	Red Textured Wallpaper	B016A	Room 2	11/29/2018	ND	--
		B016B	Room 2	11/29/2018	ND	--
B017	Grey Stair Tread	B017	Room 2	11/29/2018	--	TR Chrysotile
B018	Black 9x9 Floor Tile	B018	Room 11	11/29/2018	--	41.98% Chrysotile
B019	Brown 9x9 Floor Tile	B019	Room 11	11/29/2018	--	43.22% Chrysotile
B020	Mastic on Brown 9x9 Floor Tile	B020	Room 11	11/29/2018	--	TR Chrysotile

TABLE 1
Bulk Samples - Summary of Analytical Results
 Hazardous Materials Survey
 128 Providence Street
 Worcester, Massachusetts
 (see notes at end of table)

Material ID#	Homogenous Material	Sample #	Functional Space/ Sample Location	Date Sampled	PLM Results	TEM Results
B021	Black Cove Base	B021	Room 11	11/29/2018	--	13.95% Chrysotile
B022	Mastic on Black Cove Base	B022	Room 11	11/29/2018	--	ND
B023	Brown & Yellow Square Linoleum on Stairs	B023	Room 5	11/29/2018	--	TR Chrysotile
B024	Dark Brown 9x9 Tile	B024	Room 6	11/29/2018	--	24.04% Chrysotile
B025	Tan 9x9 Floor Tile	B025	Room 6	11/29/2018	--	27.89% Chrysotile
B026	Mastic on Tan 9x9 Floor Tile	B026	Room 6	11/29/2018	--	1.49% Chrysotile
B027	White Speckled 2x2 Ceiling Tile	B027A	Room 6	11/29/2018	ND	--
		B027B	Room 6	11/29/2018	ND	--
B028	Green 9x9 Floor Tile	B028	Room 7	11/29/2018	--	37.41% Chrysotile
B029	Mastic on Green 9x9 Floor Tile	B029	Room 7	11/29/2018	--	4.62% Chrysotile
B030	Black 9x9 Floor Tile	B030	Room 7	11/29/2018	--	40.67% Chrysotile
B031	Grey 9x9 Floor Tile	B031	Room 8	11/29/2018	--	36.80% Chrysotile
B032	Mastic on Grey 9x9 Floor Tile	B032	Room 8	11/29/2018	--	5.06% Chrysotile
B033	Black Cove Base	B033	Room 2 Staircase	11/29/2018	--	ND
B034	Mastic on Black Cove Base	B034	Room 2 Staircase	11/29/2018	--	1.08% Chrysotile
B035	Black Floor Tile (Perimeter)	B035	Room 7	11/29/2018	--	40.63% Chrysotile
B036	Vibration Dampening Cloth on HVAC	B036	Room 12	11/29/2018	--	TR Chrysotile
B037	White Cove Base	B037	Room 16	11/29/2018	--	TR Chrysotile
B038	Mastic on White Cove Base	B038	Room 16	11/29/2018	--	ND
B039	Sink Undercoating	B039	Room 16	11/29/2018	--	TR Chrysotile
B040	Red 9x9 Floor Tile	B040	Room 16	11/29/2018	--	44.16% Chrysotile
B041	Grey 9x9 Floor Tile	B041	Room 16	11/29/2018	--	38.08% Chrysotile
B042	Mastic on Grey 9x9 Floor Tile	B042	Room 16	11/29/2018	--	1.17% Chrysotile
B043	Green 9x9 Floor Tile	B043	Room 16	11/29/2018	--	ND
B044	Mastic on Green 9x9 Floor Tile	B044	Room 16	11/29/2018	--	TR Chrysotile
B045	Mastic on Green Stair Tread	B045	Room 16	11/29/2018	--	TR Chrysotile
B046	Window Glazing Compound	B046A	Courtyard Windows (Exterior)	11/29/2018	ND	--
		B046B	Courtyard Windows (Exterior)	11/29/2018	ND	--
B047	Brown 9x9 Floor Tile	B047	Room 18B	11/29/2018	--	41.53% Chrysotile
B048	Mastic on Brown 9x9 Floor Tile	B048	Room 18B	11/29/2018	--	5.62% Chrysotile

TABLE 1
Bulk Samples - Summary of Analytical Results
 Hazardous Materials Survey
 128 Providence Street
 Worcester, Massachusetts
 (see notes at end of table)

Material ID#	Homogenous Material	Sample #	Functional Space/ Sample Location	Date Sampled	PLM Results	TEM Results
B049	White Skim Coat on Plaster Walls	B049A	Room 17	11/29/2018	ND	--
		B049B	Room 24	11/29/2018	ND	--
		B049C	Room 18	11/29/2018	ND	--
		B049D	Room 24	11/29/2018	ND	--
		B049E	Room 11	11/29/2018	ND	--
B050	Plaster Walls	B050A	Room 17	11/29/2018	ND	--
		B050B	Room 24	11/29/2018	ND	--
		B050C	Room 18	11/29/2018	ND	--
		B050D	Room 24	11/29/2018	ND	--
		B050E	Room 11	11/29/2018	ND	--
B051	Carpet Mastic	B051	Room 20B	11/29/2018	--	TR Chrysotile
B052	Mastic on Beige Stair Tread	B052	Room 26	11/29/2018	--	TR Chrysotile
B053	Beige Stair Tread	B053	Room 26	11/29/2018	--	TR Chrysotile
B054	Carpet Mastic	B054	Room 27	11/29/2018	--	1.28% Chrysotile
B055	Beige Stair Tread	B055	Room 26	11/29/2018	--	ND
B056	Black Cove Base on Stairs	B056	Room 26	11/29/2018	--	ND
B057	Mastic on Black Cove Base on Stairs	B057	Room 26	11/29/2018	--	TR Chrysotile
B058	Carpet Mastic	B058	Room 30	11/29/2018	--	TR Chrysotile
B059	Dark Brown 9x9 Floor Tile under B054	B059	Room 27	11/29/2018	--	37.64% Chrysotile
B060	Orange 9x9 Floor Tile under B054	B060	Room 27	11/29/2018	--	36.94% Chrysotile
B061	Mastic on Orange 9x9 Floor Tile under B054	B061	Room 27	11/29/2018	--	TR Chrysotile
B062	Black Flooring on Stairs	B062	Room 30	11/29/2018	--	ND
B063	Mastic on Black Flooring on Stairs	B063	Room 30	11/29/2018	--	TR Chrysotile
B064	Tan 9x9 Floor Tile	B064	Room 32	11/29/2018	--	34.98% Chrysotile 0.29% Anthophyllite
B065	Brown 9x9 Floor Tile	B065	Room 32	11/29/2018	--	38.80% Chrysotile
B066	Mastic on Tan 9x9 Floor Tile	B066	Room 32	11/29/2018	--	2.07% Chrysotile
B067	Brown Flooring on Stairs to 2nd Floor	B067	Room 32	11/29/2018	--	TR Chrysotile
B068	Mastic on Brown Flooring on Stairs to 2nd Floor	B068	Room 32	11/29/2018	--	ND
B069	Brown 9x9 Floor Tile	B069	Room 32	11/29/2018	--	ND
B070	Mastic on Brown 9x9 Floor Tile	B070	Room 32	11/29/2018	--	TR Chrysotile



TABLE 1
Bulk Samples - Summary of Analytical Results
 Hazardous Materials Survey
 128 Providence Street
 Worcester, Massachusetts
 (see notes at end of table)

Material ID#	Homogenous Material	Sample #	Functional Space/ Sample Location	Date Sampled	PLM Results	TEM Results
B071	Grey Stair Tread	B071	Room 32	11/29/2018	--	ND
B072	Mastic on Grey Stair Tread	B072	Room 32	11/29/2018	--	TR Chrysotile
B073	Black Paper under B069/B070	B073	Room 32	11/29/2018	--	TR Chrysotile
B074	Joint Compound	B074A	Room 32	11/29/2018	ND	--
		B074B	Room 32	11/29/2018	ND	--
B075	Drywall	B075A	Room 32	11/29/2018	ND	--
		B075B	Room 32	11/29/2018	ND	--
B076	Carpet Mastic	B076A	Room 34	11/29/2018	--	2.75% Chrysotile
		B076B	Room 35	11/29/2018	--	TR Chrysotile
B077	Black Paper under Hallway Rug	B077	Room 54	11/29/2018	--	TR Chrysotile
B078	Skim Coat on Plaster	B078A	Room 76	11/29/2018	ND	--
		B078B	Room 76	11/29/2018	ND	--
		B078C	Room 54	11/29/2018	ND	--
		B078D	Room 54	11/29/2018	ND	--
		B078E	Room 54	11/29/2018	ND	--
B079	Plaster Walls	B079A	Room 76	11/29/2018	ND	--
		B079B	Room 76	11/29/2018	ND	--
		B079C	Room 54	11/29/2018	ND	--
		B079D	Room 54	11/29/2018	ND	--
		B079E	Room 54	11/29/2018	ND	--
B080	Exterior Window Glazing Compound	B080A	Room 42 (Exterior)	11/29/2018	2% Chrysotile	--
		B080B	Room 62 (Exterior)	11/29/2018	NA/PS	--
B081	White 12x12 Floor Tile	B081	Room 45	11/29/2018	--	ND
B082	Mastic on White 12x12 Floor Tile	B082	Room 45	11/29/2018	--	1.95% Chrysotile
B083	Setting Mud on Green Ceramic Wall Tile	B083A	Room 45	11/29/2018	ND	--
		B083B	Room 45	11/29/2018	ND	--
B084	Grout on Green Ceramic Wall Tile	B084A	Room 45	11/29/2018	ND	--
		B084B	Room 45	11/29/2018	ND	--
B086	Grout on Black & White Ceramic Floor Tile	B086	Room 68	11/29/2018	ND	--
B087	Setting Mud on Black Ceramic Shower Tile	B087	Room 45	11/29/2018	ND	--
B088	Grout on Black Ceramic Shower Tile	B088	Room 45	11/29/2018	ND	--
B091	Kitchen Sink Undercoating	B091	Room 63	11/29/2018	--	8.57% Chrysotile

TABLE 1
Bulk Samples - Summary of Analytical Results
 Hazardous Materials Survey
 128 Providence Street
 Worcester, Massachusetts
 (see notes at end of table)

Material ID#	Homogenous Material	Sample #	Functional Space/ Sample Location	Date Sampled	PLM Results	TEM Results
B092	Paper under Wood Floor	B092A	Room 71	11/29/2018	ND	--
		B092B	Room 71	11/29/2018	ND	--
B093	Yellow Pebbled Linoleum	B093	Room 78	11/29/2018	--	7.56% Chrysotile
B094	Kitchen Sink Undercoating	B094	Room 76	11/29/2018	--	TR Chrysotile
B095	12x12 Floor Tile under Carpet	B095	Room 76	11/29/2018	--	41.66% Chrysotile
B096	Mastic on 12x12 Floor Tile under Carpet	B096	Room 76	11/29/2018	--	TR Chrysotile
B097	Carpet Mastic on B095	B097	Room 76	11/29/2018	--	TR Chrysotile
B098	Grey Leveling Compound under Carpets	B098A	Room 67	11/29/2018	ND	--
		B098B	Room 81	11/29/2018	ND	--
B099	Floor Tile under B081/B082	B099	Room 45	11/29/2018	--	21.87% Chrysotile
B100	Mastic on Floor Tile under B081/B082	B100	Room 45	11/29/2018	--	1.51% Chrysotile
B101	Felt Paper under Yellow Pebbled Linoleum	B101	Room 78	11/29/2018	--	TR Chrysotile
B102	Beige 9x9 Floor Tile	B102	Room 112	11/30/2018	--	36.03% Chrysotile, 1.11% Anthophyllite
B103	Mastic on Beige 9x9 Floor Tile	B103	Room 112	11/30/2018	--	11.46% Chrysotile 0.14% Anthophyllite
B104	Light Blue/Green 12x12 Floor Tile	B104	Room 92	11/30/2018	--	ND
B105	Beige Flooring Material under B104	B105	Room 92	11/30/2018	--	TR Chrysotile
B106	Setting Mud on Yellow Wall Tile	B106A	Room 104	11/30/2018	ND	--
		B106B	Room 104	11/30/2018	ND	--
B107	Grout on Yellow Wall Tile	B107A	Room 104	11/30/2018	ND	--
		B107B	Room 104	11/30/2018	ND	--
B109	Dark Green 9x9 Floor Tile	B109	Room 119	11/30/2018	--	23.89% Chrysotile
B110	Mastic on Dark Green 9x9 Floor Tile	B110	Room 119	11/30/2018	--	14.38% Chrysotile
B111	Beige 9x9 Floor Tile	B111	Room 121	11/30/2018	--	7.18% Chrysotile
B112	Mastic on Beige 9x9 Floor Tile	B112	Room 121	11/30/2018	--	1.81% Chrysotile
B113	Setting Mud on Pink Ceramic Wall Tile	B113A	Room 126	11/30/2018	ND	--
		B113B	Room 126	11/30/2018	ND	--
B114	Grout on Pink Ceramic Wall Tile	B114A	Room 126	11/30/2018	ND	--
		B114B	Room 126	11/30/2018	ND	--
B115	Dark Grey 9x9 Floor Tile	B115	Room 128B	11/30/2018	--	8.84% Chrysotile
B116	Mastic on Dark Grey 9x9 Floor Tile	B116	Room 128B	11/30/2018	--	2.17% Chrysotile

TABLE 1
Bulk Samples - Summary of Analytical Results
 Hazardous Materials Survey
 128 Providence Street
 Worcester, Massachusetts
 (see notes at end of table)

Material ID#	Homogenous Material	Sample #	Functional Space/ Sample Location	Date Sampled	PLM Results	TEM Results
B117	Light Grey 9x9 Floor Tile	B117	Room 131	11/30/2018	--	35.18% Chrysotile
B118	Mastic on Light Grey 9x9 Floor Tile	B118	Room 131	11/30/2018	--	TR Chrysotile
B119	Blue Linoleum	B119	Room 145	11/30/2018	--	ND
B120	Paper on B102/B103	B120	Room 112	11/30/2018	--	TR Chrysotile
B121	Black Paper under B104/105	B121	Room 92	11/30/2018	--	ND
B122	Black Paper under B109/B110	B122	Room 119	11/30/2018	--	TR Chrysotile
B123	Black Flooring under B119	B123	Room 145	11/30/2018	--	ND
B124	Grey Stair Tread	B124	Room 109	11/30/2018	--	TR Chrysotile
B125	Setting Mud on Blue Ceramic Wall Tile	B125A	Room 172	11/30/2018	ND	--
		B125B	Room 172	11/30/2018	ND	--
B126	Grout on Blue Ceramic Wall Tile	B126A	Room 172	11/30/2018	ND	--
		B126B	Room 172	11/30/2018	ND	--
B127	Brown 12x12 Floor Tile	B127	Room 177	11/30/2018	--	25.53% Chrysotile
B128	White 12x12 Floor Tile	B128	Room 177	11/30/2018	--	23.80% Chrysotile
B129	Mastic on White and Brown 12x12 Floor Tile	B129	Room 177	11/30/2018	Assumed Asbestos-Containing - Insufficient Sample Volume	
B130	Setting Mud on Lime Green Ceramic Wall Tile	B130A	Room 194	11/30/2018	ND	--
		B130B	Room 194	11/30/2018	ND	--
B131	Grout on Lime Green Ceramic Wall Tile	B131A	Room 194	11/30/2018	ND	--
		B131B	Room 194	11/30/2018	ND	--
B133	Beige 12x12 Floor Tile	B133	Room 198	11/30/2018	--	21.80% Chrysotile
B134	Mastic on Beige 12x12 Floor Tile	B134	Room 198	11/30/2018	--	3.18% Chrysotile
B135	Dark Green Linoleum	B135	Room 213	11/30/2018	--	TR Chrysotile

Notes:
 PLM Polarized Light Microscopy
 TEM Transmission Electron Microscopy
 ND Not Detected
 NA/PS Not Analyzed/Positive Stop
 -- Not Analyzed
 TR Trace concentration (<1 %)



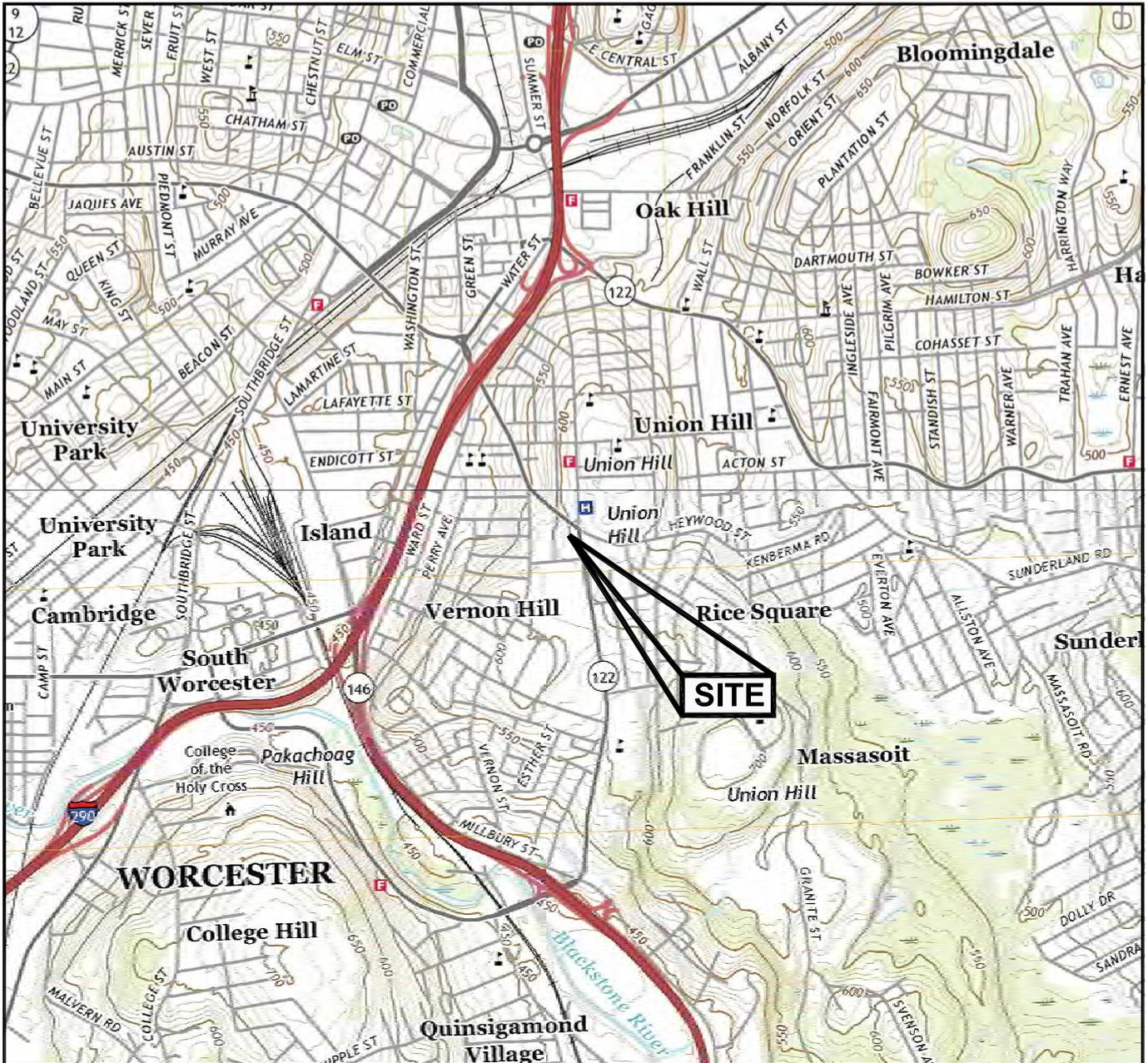
TABLE 2
Paint Chip Samples - Summary of Analytical Results
Hazardous Materials Survey
128 Providence Street
Worcester, Massachusetts

Sample #	Paint System	Sample Location	Date Sampled	Lead Concentration ¹ (% weight)
PC-1	Yellow	Column - Exterior	11/30/18	34.2
PC-2	Light Blue	Hallway Trim - Room 24	11/30/18	13.4
PC-3	Beige	Lower Walls - Room 29	11/30/18	0.18
PC-4	White	Upper Walls - Room 29	11/30/18	0.13
PC-5	Green/Red/Orange/Beige	Walls - Room 20B	11/30/18	0.40
PC-6	White	Doors - Room 24	11/30/18	6.47
PC-7	Light Green	Walls - Room 15	11/30/18	3.21
PC-8	Forest Green	Walls - Room 9	11/30/18	0.64
PC-9	Brown	Door - Room 10	11/30/18	2.65
PC-10	Beige	Door Trim - Room 11	11/30/18	1.54
PC-11	White	Window Trim - Room 76	11/30/18	0.97
PC-12	Light Blue	Trim - Room 54	11/30/18	ND
PC-13	White	Ceiling - Room 76	11/30/18	ND
PC-14	White	Walls - Room 112	11/30/18	7.3
PC-15	Pink	Walls - Room 112	11/30/18	11
PC-16	Red	Door Trim - Room 112	11/30/18	0.21
PC-17	Lime Green	Walls/Trim - Room 170	11/30/18	0.78

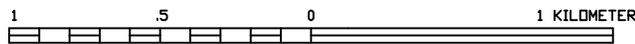
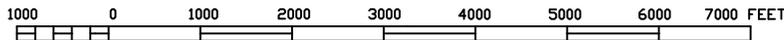
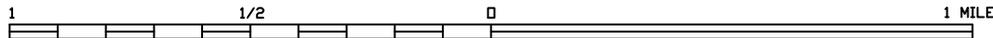
Notes:

1. Analyzed by EPA Method SW846-7420-3051 and reported on an "as received" weight basis.
- ND (<0.016) Not detected above indicated laboratory reporting limit
- "Lead-based paint" is defined by EPA/HUD as a lead concentration in paint >0.5% by weight.

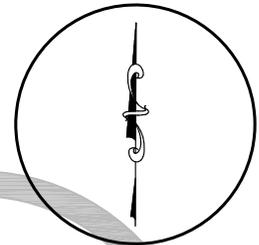
FIGURES



SCALE: 1:24,000



CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

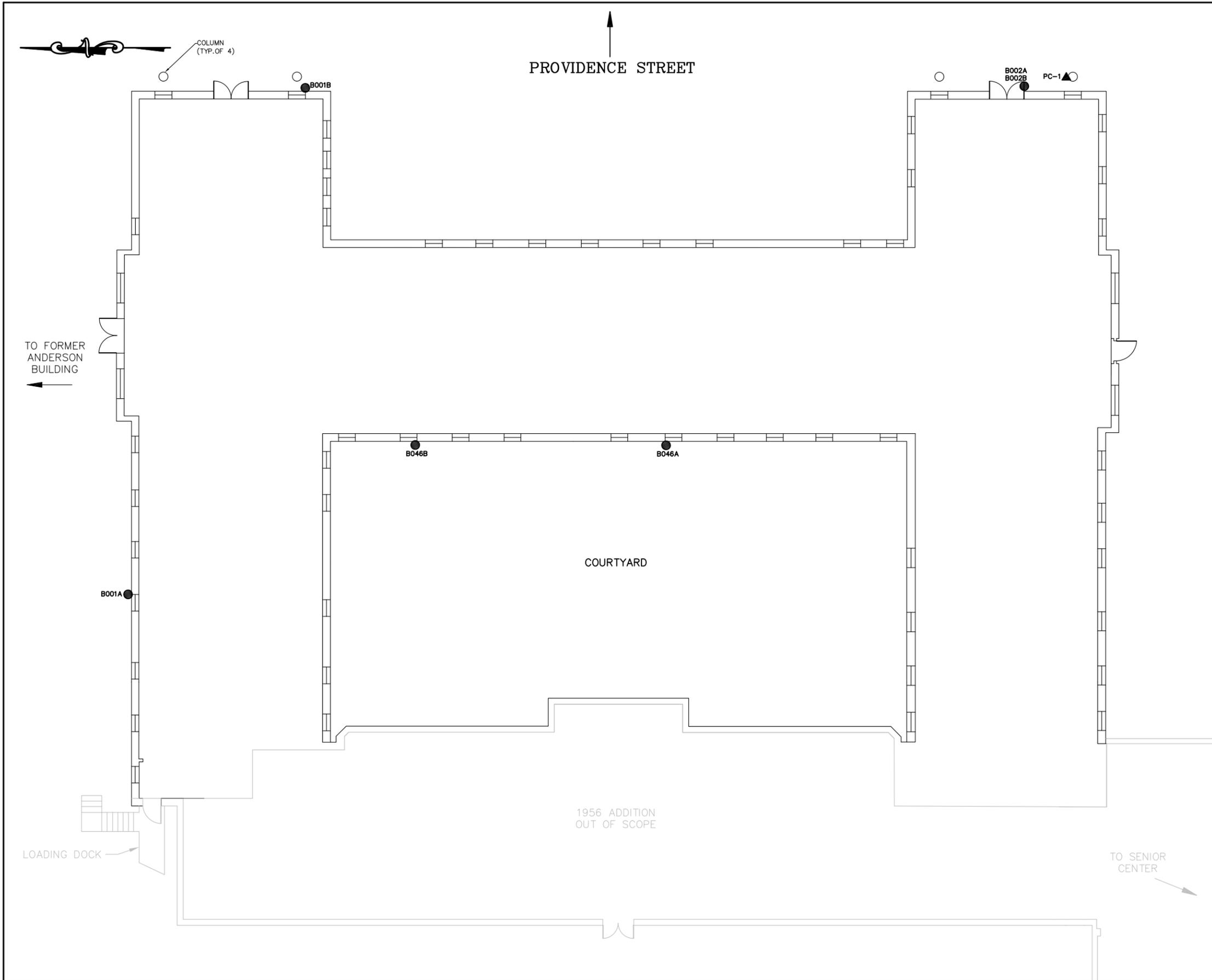


DATE August 13, 2018	SCALE As shown	FILE WORC0006_Site Location Map
APPROVED BY DJPF	DRAWN BY MET	REVISED
CLIENT City of Worcester	JOB NUMBER WORC0006	
LOCATION Former St. Vincent Hospital Nurses' Wing 128 Providence Street Worcester, Massachusetts	MAP SOURCE Worcester North, MA Worcester South, MA USGS QUAD 2018	

Wilcox & Barton INC.
CIVIL · ENVIRONMENTAL · GEOTECHNICAL

SITE LOCATION MAP

Figure 1



LEGEND

- B001A ● ASBESTOS BULK SAMPLE
- PC-1 ▲ PAINT CHIP SAMPLE

NOTES

1. LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. PLAN BASED ON MASSACHUSETTS INTERACTIVE PROPERTY MAP, CITY OF WORCESTER ASSESSOR'S INFORMATION, AND AS-BUILTS PROVIDED BY THE CITY OF WORCESTER.

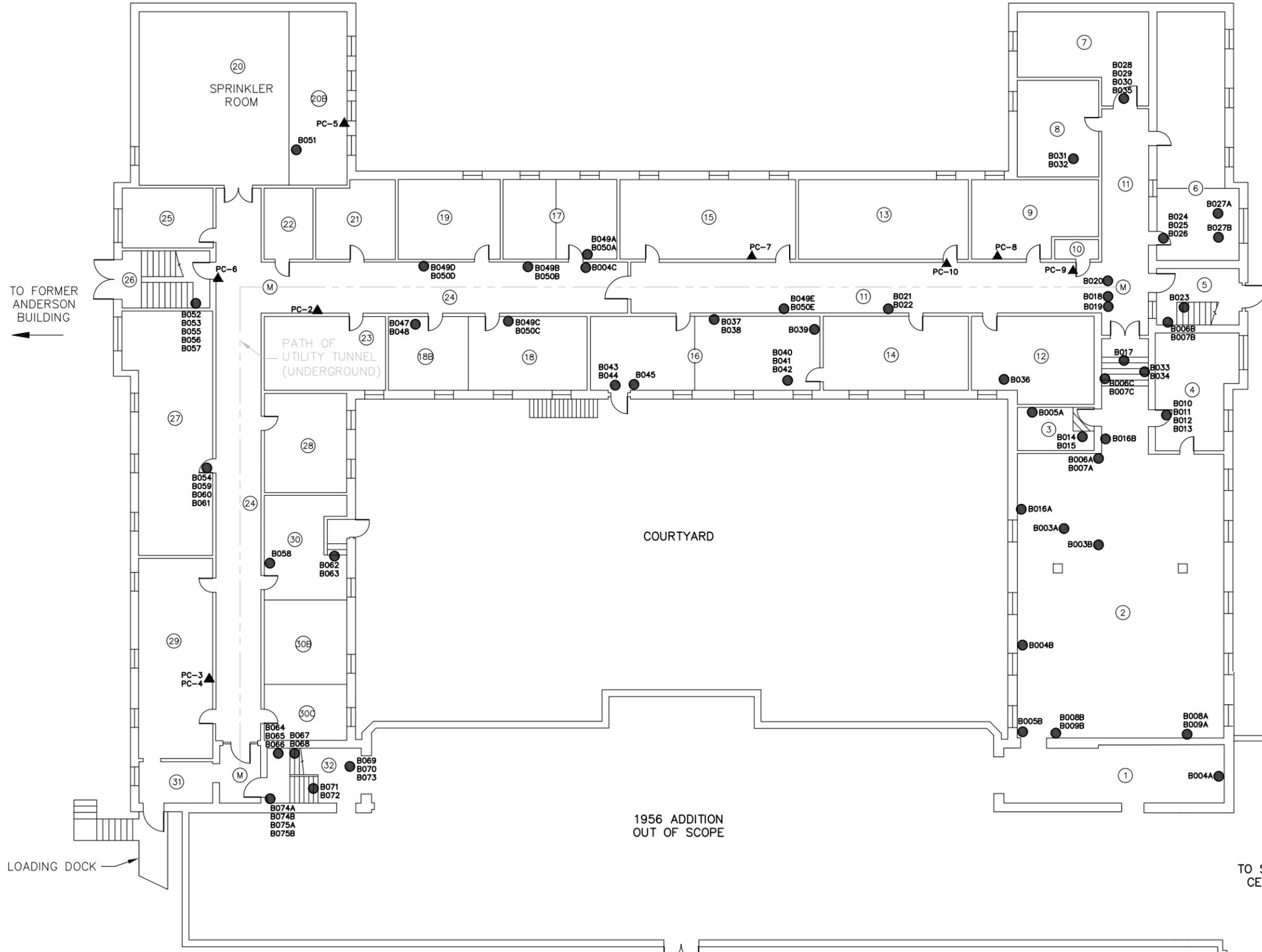
Wilcox & Barton INC.
 CIVIL • ENVIRONMENTAL • GEOTECHNICAL

TITLE HAZARDOUS MATERIALS SURVEY – SAMPLE LOCATION PLAN – EXTERIOR		
DATE February 11, 2019	SCALE NOT TO SCALE	FILE WORC0006_Site Plan
APPROVED BY PJP	DRAWN BY JTD	REVISED
CLIENT City of Worcester	JOB NUMBER WORC0006	
LOCATION Former St. Vincent Hospital Nurses' Wing 128 Providence Street Worcester, Massachusetts	DRAWING NUMBER FIGURE 2A	

↑
PROVIDENCE STREET

LEGEND

- B003A ● ASBESTOS BULK SAMPLE
- PC-2▲ PAINT CHIP SAMPLE
- ① ROOM NUMBER ASSIGNED BY WILCOX & BARTON, INC.



NOTES

1. LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. PLAN BASED ON MASSACHUSETTS INTERACTIVE PROPERTY MAP, CITY OF WORCESTER ASSESSOR'S INFORMATION, AND AS-BUILTS PROVIDED BY THE CITY OF WORCESTER.

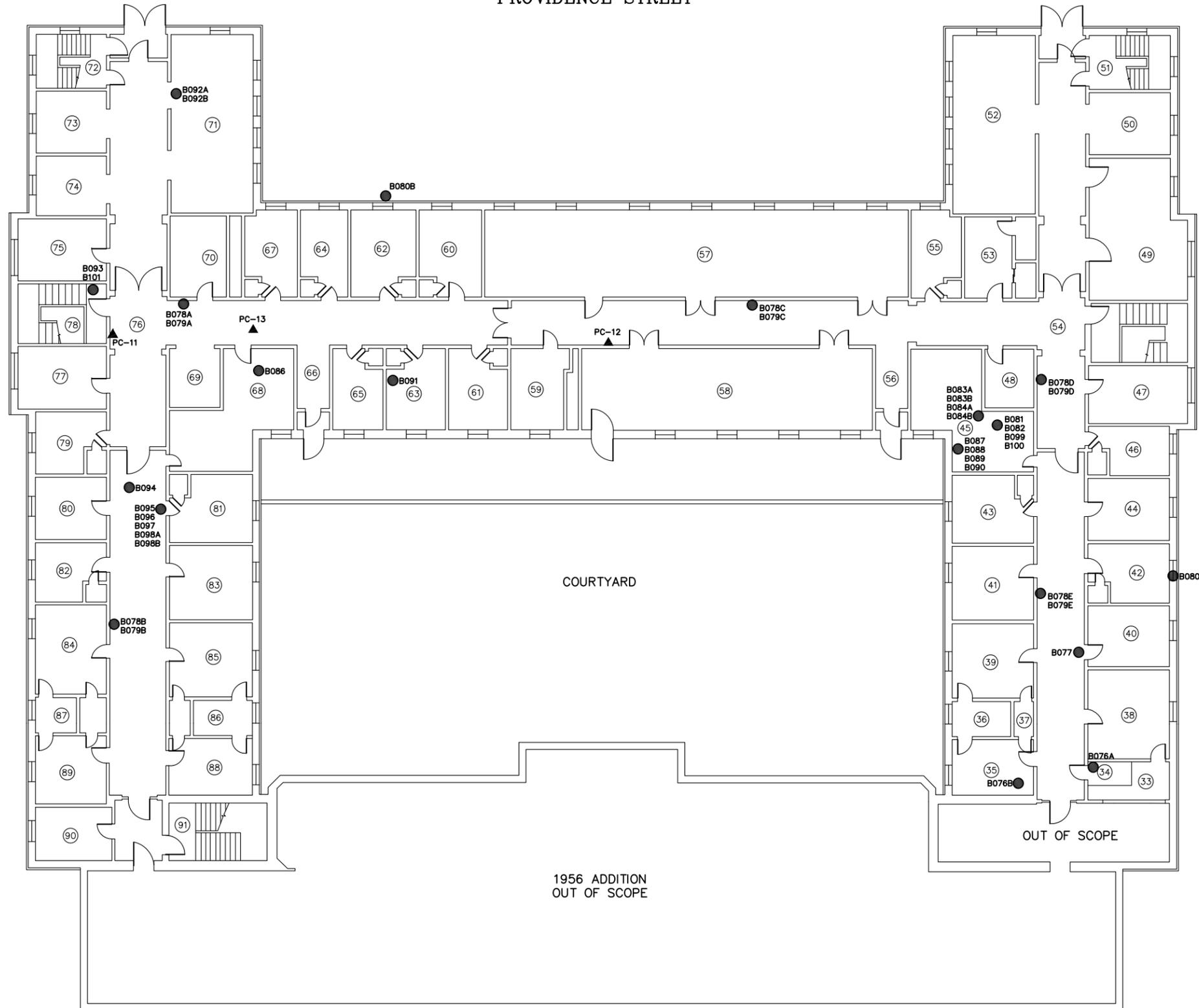


TITLE HAZARDOUS MATERIALS SURVEY - SAMPLE LOCATION PLAN - FIRST FLOOR		
DATE February 11, 2019	SCALE NOT TO SCALE	FILE WORC0006_Site Plan
APPROVED BY PJP	DRAWN BY JTD	REVISED
CLIENT City of Worcester	JOB NUMBER WORC0006	
LOCATION Former St. Vincent Hospital Nurses' Wing 128 Providence Street Worcester, Massachusetts	DRAWING NUMBER FIGURE 2B	



↑
PROVIDENCE STREET

←
TO FORMER
ANDERSON
BUILDING



LEGEND

- B076 ● ASBESTOS BULK SAMPLE
- PC-11 ▲ PAINT CHIP SAMPLE
- Ⓧ ROOM NUMBER ASSIGNED BY WILCOX & BARTON, INC.

NOTES

1. LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. PLAN BASED ON MASSACHUSETTS INTERACTIVE PROPERTY MAP, CITY OF WORCESTER ASSESSOR'S INFORMATION, AND AS-BUILTS PROVIDED BY THE CITY OF WORCESTER.

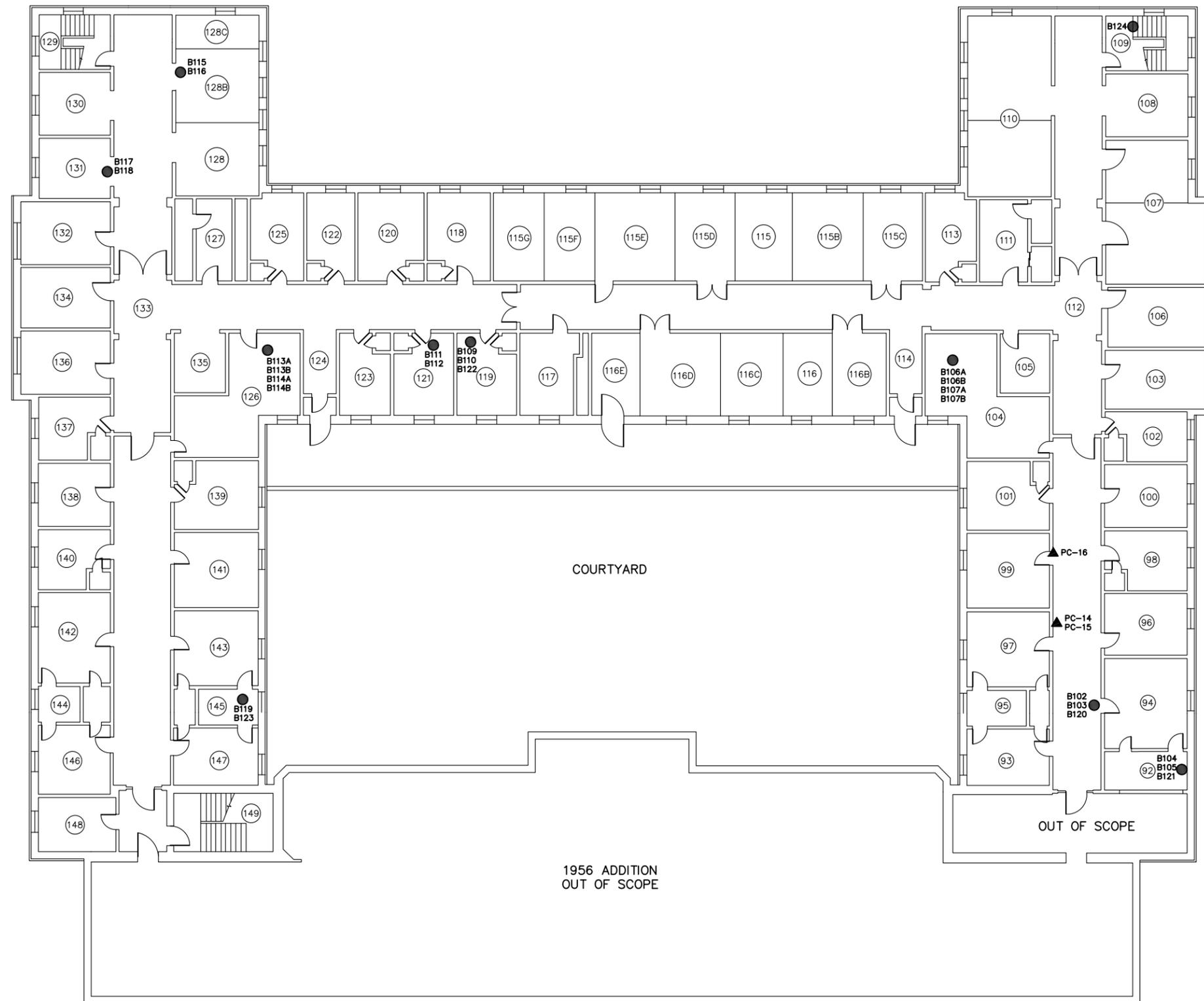
Wilcox & Barton INC.
CIVIL • ENVIRONMENTAL • GEOTECHNICAL

TITLE HAZARDOUS MATERIALS SURVEY – SAMPLE LOCATION PLAN – SECOND FLOOR		
DATE February 11, 2019	SCALE NOT TO SCALE	FILE WORC0006_Site Plan
APPROVED BY PJP	DRAWN BY JTD	REVISED
CLIENT City of Worcester	JOB NUMBER WORC0006	
LOCATION Former St. Vincent Hospital Nurses' Wing 128 Providence Street Worcester, Massachusetts	DRAWING NUMBER FIGURE 2C	



↑
PROVIDENCE STREET

←
TO FORMER
ANDERSON
BUILDING



LEGEND

- B102 ● ASBESTOS BULK SAMPLE
- PC-14 ▲ PAINT CHIP SAMPLE
- 92 ○ ROOM NUMBER ASSIGNED BY WILCOX & BARTON, INC.

NOTES

1. LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. PLAN BASED ON MASSACHUSETTS INTERACTIVE PROPERTY MAP, CITY OF WORCESTER ASSESSOR'S INFORMATION, AND AS-BUILTS PROVIDED BY THE CITY OF WORCESTER.

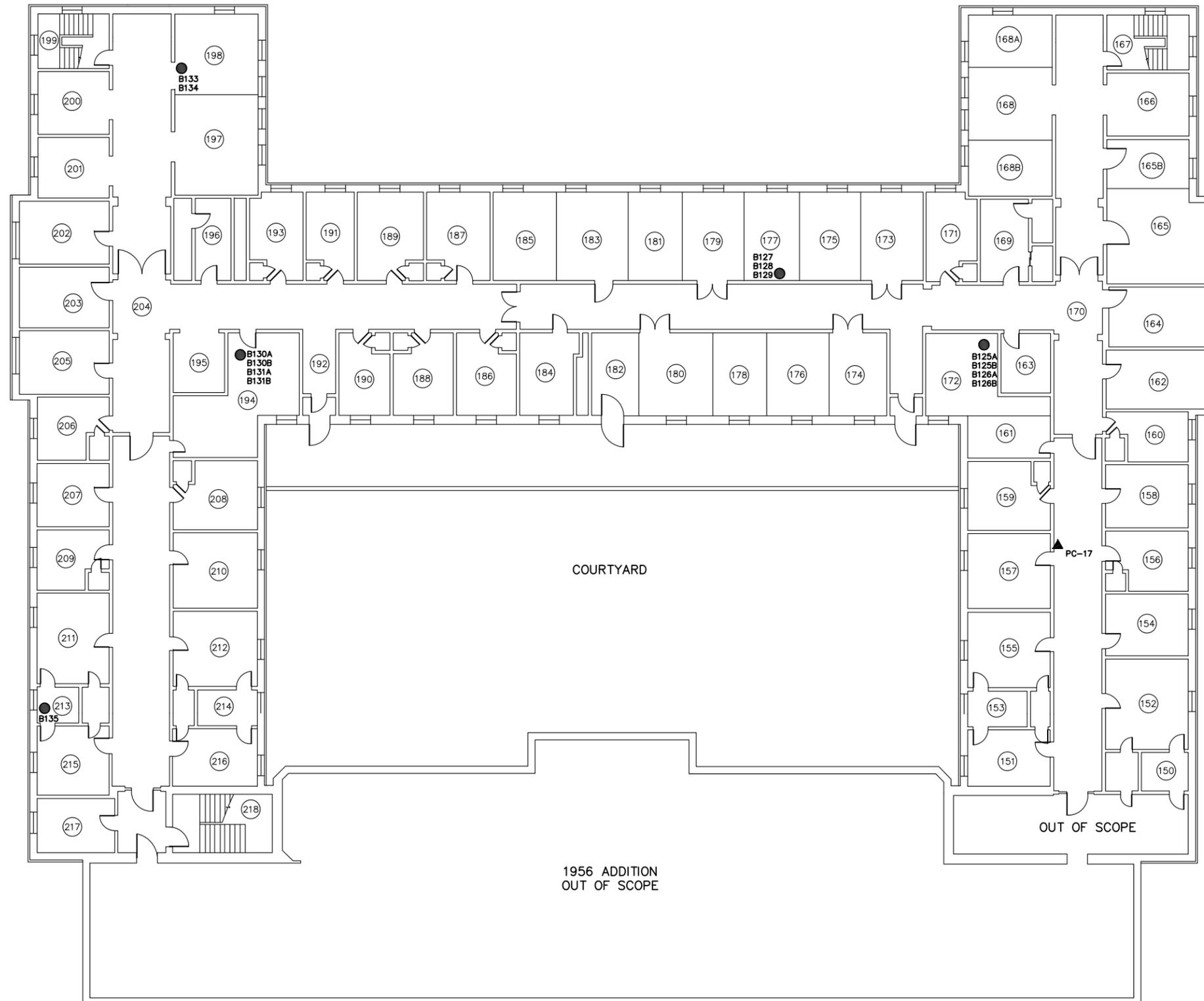


TITLE HAZARDOUS MATERIALS SURVEY – SAMPLE LOCATION PLAN – THIRD FLOOR		
DATE February 11, 2019	SCALE NOT TO SCALE	FILE WORC0006_Site Plan
APPROVED BY PJP	DRAWN BY JTD	REVISED
CLIENT City of Worcester	JOB NUMBER WORC0006	
LOCATION Former St. Vincent Hospital Nurses' Wing 128 Providence Street Worcester, Massachusetts	DRAWING NUMBER FIGURE 2D	



↑
PROVIDENCE STREET

←
TO FORMER
ANDERSON
BUILDING



LEGEND

- B125A ● ASBESTOS BULK SAMPLE
- PC-17 ▲ PAINT CHIP SAMPLE
- 150 ○ ROOM NUMBER ASSIGNED BY WILCOX & BARTON, INC.

NOTES

1. LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. PLAN BASED ON MASSACHUSETTS INTERACTIVE PROPERTY MAP, CITY OF WORCESTER ASSESSOR'S INFORMATION, AND AS-BUILTS PROVIDED BY THE CITY OF WORCESTER.



TITLE HAZARDOUS MATERIALS SURVEY – SAMPLE LOCATION PLAN – FOURTH FLOOR		
DATE February 11, 2019	SCALE NOT TO SCALE	FILE WORC0006_Site Plan
APPROVED BY PJP	DRAWN BY JTD	REVISED
CLIENT City of Worcester	JOB NUMBER WORC0006	
LOCATION Former St. Vincent Hospital Nurses' Wing 128 Providence Street Worcester, Massachusetts	DRAWING NUMBER FIGURE 2E	



PROVIDENCE STREET

EXTERIOR DOOR CAULKING (B002)
(15 TOTAL EXTERIOR DOORS)

EXTERIOR WINDOW CAULKING (B001) AND
EXTERIOR WINDOW GLAZING COMPOUND (B080)
(264 TOTAL WINDOWS)

ROOFING MATERIAL (B136) - ASSUMED
(14,800 SF)

TO FORMER
ANDERSON
BUILDING

COURTYARD

1956 ADDITION
OUT OF SCOPE

TO SENIOR
CENTER

LEGEND



EXTERIOR WINDOW CAULKING (B001)
AND EXTERIOR WINDOW GLAZING
COMPOUND (B080)
(264 TOTAL WINDOWS)



EXTERIOR DOOR CAULKING (B002)
(15 TOTAL EXTERIOR DOORS)



ROOFING MATERIAL (B136) -
ASSUMED
(14,800 SF)

NOTES

1. LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. PLAN BASED ON MASSACHUSETTS INTERACTIVE PROPERTY MAP, CITY OF WORCESTER ASSESSOR'S INFORMATION, AND AS-BUILTS PROVIDED BY THE CITY OF WORCESTER.



TITLE HAZARDOUS MATERIALS SURVEY - ACM LOCATION PLAN - EXTERIOR		
DATE February 11, 2019	SCALE NOT TO SCALE	FILE WORC0006_Site Plan
APPROVED BY PJP	DRAWN BY JTD	REVISED
CLIENT City of Worcester	JOB NUMBER WORC0006	
LOCATION Former St. Vincent Hospital Nurses' Wing 128 Providence Street Worcester, Massachusetts	DRAWING NUMBER FIGURE 3A	

PROVIDENCE STREET

1956 ADDITION
OUT OF SCOPE

LEGEND

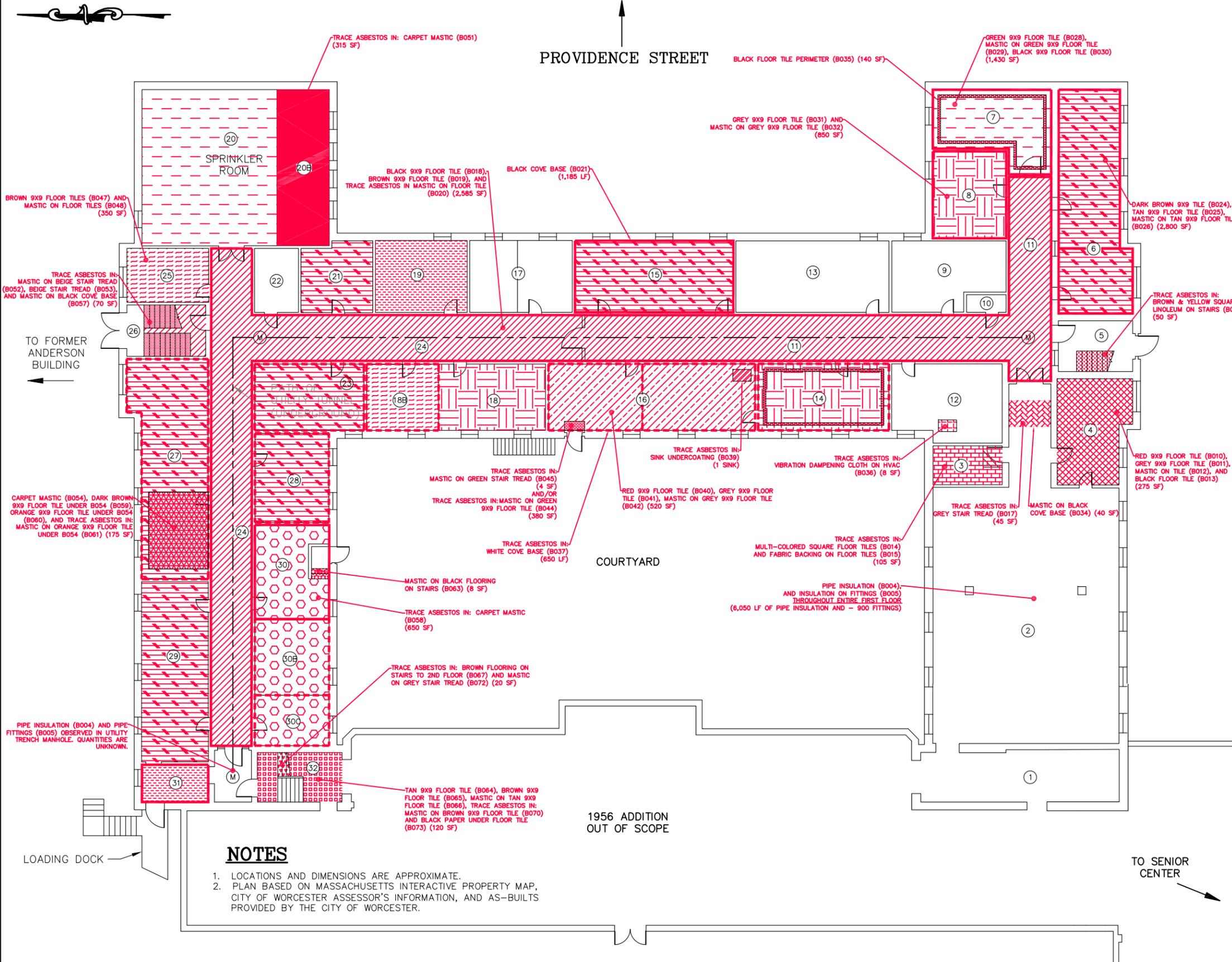
- ① ROOM NUMBER ASSIGNED BY WILCOX & BARTON, INC.
- [Red cross-hatch pattern] RED 9X9 FLOOR TILE (B010), GREY 9X9 FLOOR TILE (B011), MASTIC ON TILE (B012), BLACK FLOOR TILE (B013) (275 SF)
- [Red brick pattern] TRACE ASBESTOS IN: MULTI-COLORED SQUARE FLOOR TILES (B014) AND FABRIC BACKING ON FLOOR TILES (B015) (105 SF)
- [Red diagonal lines] TRACE ASBESTOS IN: GREY STAIR TREAD (B017) (45 SF)
- [Red horizontal lines] BLACK 9X9 FLOOR TILE (B018), BROWN 9X9 FLOOR TILE (B019), AND TRACE ASBESTOS IN MASTIC ON FLOOR TILE (B020) (2,585 SF)
- [Red dotted pattern] TRACE ASBESTOS IN: BROWN & YELLOW SQUARE LINOLEUM (B023) (50 SF)
- [Red solid line] BLACK COVE BASE (B021) (1,185 LF)
- [Red diagonal lines] DARK BROWN 9X9 TILE (B024), TAN 9X9 FLOOR TILE (B025), MASTIC ON TAN 9X9 FLOOR TILE (B026) (2,800 SF)
- [Red horizontal lines] GREEN 9X9 FLOOR TILE (B028), MASTIC ON GREEN 9X9 FLOOR TILE (B029), BLACK 9X9 FLOOR TILE (B030) (1,430 SF)
- [Red brick pattern] GREY 9X9 FLOOR TILE (B031), MASTIC ON GREY 9X9 FLOOR TILE (B032) (850 SF)
- [Red dashed line] MASTIC ON BLACK COVE BASE (B034) (50 LF)
- [Red dotted pattern] BLACK FLOOR TILE PERIMETER (B035) (140 SF)
- [Red diagonal lines] TRACE ASBESTOS IN: VIBRATION DAMPENING CLOTH ON HVAC (B036) (8 SF)
- [Red dashed line] TRACE ASBESTOS IN: WHITE COVE BASE (B037) (650 LF)
- [Red diagonal lines] TRACE ASBESTOS IN: SINK UNDERCOATING (B039) (1 SINK)
- [Red diagonal lines] RED 9X9 FLOOR TILE (B040), GREY 9X9 FLOOR TILE (B041), MASTIC ON GREY 9X9 FLOOR TILE (B042) (520 SF)
- [Red diagonal lines] TRACE ASBESTOS IN: MASTIC ON GREEN STAIR TREAD (B045) (30 SF) AND/OR MASTIC ON GREEN 9X9 FLOOR TILE (B044) (520 SF)
- [Red diagonal lines] BROWN 9X9 FLOOR TILES (B047), MASTIC ON FLOOR TILES (B048) (350 SF)
- [Red solid line] TRACE ASBESTOS IN: CARPET MASTIC (B051) (315 SF)
- [Red diagonal lines] TRACE ASBESTOS IN: MASTIC ON BEIGE STAIR TREAD (B052), BEIGE STAIR TREAD (B053), AND MASTIC ON BLACK COVE BASE (B057) (70 SF)
- [Red diagonal lines] CARPET MASTIC (B054), DARK BROWN 9X9 FLOOR TILE UNDER B054 (B059), ORANGE 9X9 FLOOR TILE UNDER B054 (B060), AND TRACE ASBESTOS IN: MASTIC ON ORANGE 9X9 FLOOR TILE UNDER B054 (B061) (175 SF)
- [Red diagonal lines] TRACE ASBESTOS IN: CARPET MASTIC (B058) (650 SF)
- [Red diagonal lines] MASTIC ON BLACK FLOORING ON STAIRS (B063) (8 SF)
- [Red diagonal lines] TAN 9X9 FLOOR TILE (B064), BROWN 9X9 FLOOR TILE (B065), MASTIC ON TAN 9X9 FLOOR TILE (B066), TRACE ASBESTOS IN: MASTIC ON BROWN 9X9 FLOOR TILE (B070) AND BLACK PAPER UNDER FLOOR TILE (B073) (120 SF)
- [Red diagonal lines] TRACE ASBESTOS IN: BROWN FLOORING ON STAIRS TO 2ND FLOOR (B067) AND MASTIC ON GREY STAIR TREAD (B072) (20 SF)
- [Red diagonal lines] TRACE ASBESTOS IN: BROWN FLOORING ON STAIRS TO 2ND FLOOR (B067) MASTIC IN GREY STAIR TREAD (B072) (20 SF)

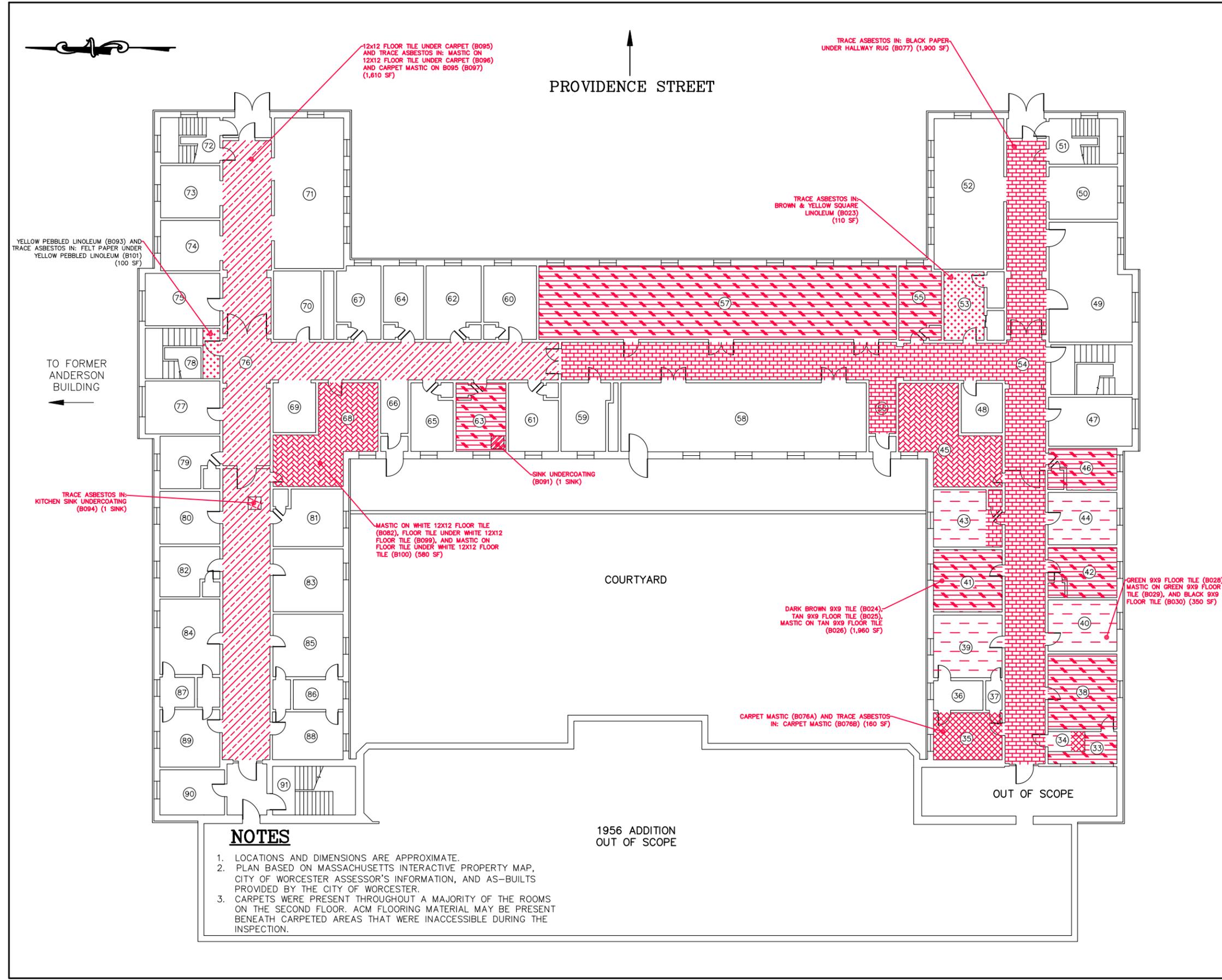
Wilcox & Barton INC.
CIVIL • ENVIRONMENTAL • GEOTECHNICAL

TITLE HAZARDOUS MATERIALS SURVEY – ACM LOCATION PLAN – FIRST FLOOR		
DATE February 11, 2019	SCALE NOT TO SCALE	FILE WORC0006_Site Plan
APPROVED BY PJP	DRAWN BY JTD	REVISED
CLIENT City of Worcester	JOB NUMBER WORC0006	
LOCATION Former St. Vincent Hospital Nurses' Wing 128 Providence Street Worcester, Massachusetts	DRAWING NUMBER FIGURE 3B	

NOTES

1. LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. PLAN BASED ON MASSACHUSETTS INTERACTIVE PROPERTY MAP, CITY OF WORCESTER ASSESSOR'S INFORMATION, AND AS-BUILTS PROVIDED BY THE CITY OF WORCESTER.





LEGEND

(33) ROOM NUMBER ASSIGNED BY WILCOX & BARTON, INC.

- DARK BROWN 9X9 TILE (B024), TAN 9X9 FLOOR TILE (B025), MASTIC ON TAN 9X9 FLOOR TILE (B026) (1,960 SF)
- GREEN 9X9 FLOOR TILE (B028), MASTIC ON GREEN 9X9 FLOOR TILE (B029), BLACK 9X9 FLOOR TILE (B030) (620 SF)
- CARPET MASTIC (B076A) AND TRACE ASBESTOS IN: CARPET MASTIC (B076B) (160 SF)
- TRACE ASBESTOS IN: BLACK PAPER UNDER HALLWAY RUG (B077) (1,900 SF)
- MASTIC ON WHITE 12X12 FLOOR TILE (B082), FLOOR TILE UNDER WHITE 12X12 FLOOR TILE (B099), AND MASTIC ON FLOOR TILE UNDER WHITE 12X12 FLOOR TILE (B100) (580 SF)
- SINK UNDERCOATING (B091) (1 SINK)
- YELLOW PEBBLED LINOLEUM (B093) AND TRACE ASBESTOS IN: FELT PAPER UNDER YELLOW PEBBLED LINOLEUM (B101) (100 SF)
- TRACE ASBESTOS IN: SINK UNDERCOATING (B094) (1 SINK)
- 12x12 FLOOR TILE UNDER CARPET (B095) AND TRACE ASBESTOS IN: MASTIC ON 12X12 FLOOR TILE UNDER CARPET (B096) AND CARPET MASTIC ON B095 (B097) (1,610 SF)
- TRACE ASBESTOS IN: BROWN & YELLOW SQUARE LINOLEUM (B023) (110 SF)

NOTES

- LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
- PLAN BASED ON MASSACHUSETTS INTERACTIVE PROPERTY MAP, CITY OF WORCESTER ASSESSOR'S INFORMATION, AND AS-BUILTS PROVIDED BY THE CITY OF WORCESTER.
- CARPETS WERE PRESENT THROUGHOUT A MAJORITY OF THE ROOMS ON THE SECOND FLOOR. ACM FLOORING MATERIAL MAY BE PRESENT BENEATH CARPETED AREAS THAT WERE INACCESSIBLE DURING THE INSPECTION.

1956 ADDITION OUT OF SCOPE

WILCOX & BARTON INC.
CIVIL • ENVIRONMENTAL • GEOTECHNICAL

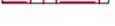
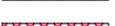
TITLE HAZARDOUS MATERIALS SURVEY – ACM LOCATION PLAN – SECOND FLOOR		
DATE February 11, 2019	SCALE NOT TO SCALE	FILE WORC0006_Site Plan
APPROVED BY PJP	DRAWN BY JTD	REVISED
CLIENT City of Worcester	JOB NUMBER WORC0006	
LOCATION Former St. Vincent Hospital Nurses' Wing 128 Providence Street Worcester, Massachusetts	DRAWING NUMBER FIGURE 3C	



PROVIDENCE STREET



LEGEND

-  ROOM NUMBER ASSIGNED BY WILCOX & BARTON, INC.
-  BEIGE 9X9 FLOOR TILE (B102), MASTIC ON BEIGE 9X9 FLOOR TILE (B103), AND TRACE ASBESTOS IN: PAPER ON B102/B103 (B120) (1,800 SF)
-  TRACE ASBESTOS IN: BEIGE FLOORING MATERIAL UNDER B104 (B105) (90 SF)
-  DARK GREEN 9X9 FLOOR TILE (B109), MASTIC ON DARK GREEN 9X9 FLOOR TILE (B110), AND TRACE ASBESTOS IN: BLACK PAPER UNDER B109/B110 (B122) (1,635 SF)
-  BEIGE 9X9 FLOOR TILE (B111) AND MASTIC ON BEIGE 9X9 FLOOR TILE (B112) (545 SF)
-  DARK GREY 9X9 FLOOR TILE (B115) AND MASTIC ON DARK GREY 9X9 FLOOR TILE (B116) (160 SF)
-  LIGHT GREY 9X9 FLOOR TILE (B117) AND TRACE ASBESTOS IN: MASTIC ON LIGHT GREY 9X9 FLOOR TILE (B118) (600 SF)
-  TRACE ASBESTOS IN: GREY STAIR TREAD (B124) (50 SF)
-  TAN 9X9 FLOOR TILE (B064), BROWN 9X9 FLOOR TILE (B065), MASTIC ON TAN 9X9 FLOOR TILE (B066), TRACE ASBESTOS IN: MASTIC ON BROWN 9X9 FLOOR TILE (B070) AND BLACK PAPER UNDER FLOOR TILE (B073) (2,050 SF)
-  GREEN 9X9 FLOOR TILE (B028), MASTIC ON GREEN 9X9 FLOOR TILE (B029), BLACK 9X9 FLOOR TILE (B030) (2,100 SF)
-  TRACE ASBESTOS IN: BROWN & YELLOW SQUARE LINOLEUM (B023) (110 SF)

NOTES

1. LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. PLAN BASED ON MASSACHUSETTS INTERACTIVE PROPERTY MAP, CITY OF WORCESTER ASSESSOR'S INFORMATION, AND AS-BUILTS PROVIDED BY THE CITY OF WORCESTER.
3. ROOMS 144, 146, AND 148 WERE INACCESSIBLE DURING THE INSPECTION.

1956 ADDITION
OUT OF SCOPE



TITLE HAZARDOUS MATERIALS SURVEY – ACM LOCATION PLAN – THIRD FLOOR		
DATE February 11, 2019	SCALE NOT TO SCALE	FILE WORC0006_Site Plan
APPROVED BY PJP	DRAWN BY JTD	REVISED
CLIENT City of Worcester	JOB NUMBER WORC0006	
LOCATION Former St. Vincent Hospital Nurses' Wing 128 Providence Street Worcester, Massachusetts	DRAWING NUMBER FIGURE 3D	

Appendix A
Inspector Certifications



THE COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF LABOR AND WORKFORCE DEVELOPMENT
DEPARTMENT OF LABOR STANDARDS

William D. McKinney,
Director

Asbestos Inspector

PAUL J. PLAGGE

Eff. Date 01/18/19

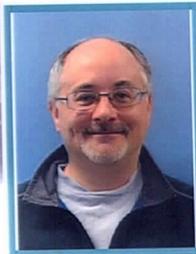
Exp. Date 01/18/20

Ai051152

Member of C.O.N.E.S.

WBR WB-RENEW

20



Appendix B
Laboratory Certifications



March 30, 2018

Laboratory ID: 102754

Aimee Cormier
ProScience Analytical Services, Inc.
22 Cummings Park
Woburn, MA 01801-2122

Dear Ms. Cormier:

Congratulations! The AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC's Analytical Accreditation Board (AAB) has approved ProScience Analytical Services, Inc. as an accredited Industrial Hygiene and Environmental Lead laboratory.

Accreditation documentation includes the IHLAP and ELLAP accreditation certificate, scope of accreditation document and a copy of the current AIHA-LAP, LLC license agreement (if your completed agreement is not on file at AIHA-LAP, LLC). The accreditation symbol has been designed for use by all AIHA-LAP, LLC accredited laboratories. If your laboratory chooses to use the symbol in its advertising the laboratory's accreditation, you must complete and return the AIHA-LAP, LLC license agreement to a Laboratory Accreditation Specialist. Once submitted, an electronic copy of the accreditation symbol will be sent to you.

Laboratory accreditation shall be maintained by continued compliance with IHLAP and ELLAP requirements (*see Policy Modules 2B, 2C, and 6*), which includes proficient participation in AIHA-LAP, LLC approved proficiency testing, demonstration of competency, or round robin program as indicated on the AIHA-LAP "Approved PT and Round Robin" webpage, its associated Scope/PT table, and as required in Policy Module 6, for all Fields of Testing (FoTs) for which the laboratory is accredited. An accredited laboratory that wishes to expand into a new FoT must submit an updated accreditation application to AIHA-LAP, LLC for review by the AAB.

Any changes in ownership, laboratory location, personnel, FoTs/Methods, or significant procedural changes shall be reported to AIHA-LAP, LLC in writing within twenty (20) business days of the change.

The accreditation certificate is the property of AIHA-LAP, LLC and must be returned to us should your laboratory withdraw or be removed from the IHLAP and ELLAP.

Again, congratulations. If you have any questions, please contact Lauren Schnack, Laboratory Accreditation Specialist, at (703) 846-0716.

Sincerely,

Cheryl O. Morton
Managing Director

AIHA Laboratory Accreditation Programs, LLC
3141 Fairview Park Drive, Suite 777, Falls Church, VA 22042 USA
main +1 703-846-0736 *fax* +1 703-207-8558

Twitter: @AIHA_LAP_LLC

R4 01/24/2018

Page 1 of 1



AIHA Laboratory Accreditation Programs, LLC

acknowledges that

ProScience Analytical Services, Inc.

22 Cummings Park, Woburn, MA 01801-2122

Laboratory ID: 102754

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories* in the following:

LABORATORY ACCREDITATION PROGRAMS

- | | |
|---|--------------------------------------|
| <input checked="" type="checkbox"/> INDUSTRIAL HYGIENE | Accreditation Expires: June 01, 2020 |
| <input checked="" type="checkbox"/> ENVIRONMENTAL LEAD | Accreditation Expires: June 01, 2020 |
| <input type="checkbox"/> ENVIRONMENTAL MICROBIOLOGY | Accreditation Expires: |
| <input type="checkbox"/> FOOD | Accreditation Expires: |
| <input type="checkbox"/> UNIQUE SCOPES | Accreditation Expires: |

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation**. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached **Scope of Accreditation**. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

Elizabeth Bair

Elizabeth Bair
Chairperson, Analytical Accreditation Board

Cheryl O. Morton

Cheryl O. Morton
Managing Director, AIHA Laboratory Accreditation Programs, LLC



AIHA Laboratory Accreditation Programs, LLC SCOPE OF ACCREDITATION

ProScience Analytical Services, Inc.

22 Cummings Park, Woburn, MA 01801-2122

Laboratory ID: **102754**

Issue Date: 03/30/2018

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

Industrial Hygiene Laboratory Accreditation Program (IHLAP)

Initial Accreditation Date: 06/01/2016

IHLAP Scope Category	Field of Testing (FoT) (FoTs cover all relevant IH matrices)	Technology sub-type/ Detector	Published Reference Method/Title of In-house Method	Method Description or Analyte <i>(for internal methods only)</i>
Asbestos/Fiber Microscopy Core	Phase Contrast Microscopy (PCM)		NIOSH 7400	

A complete listing of currently accredited Industrial Hygiene laboratories is available on the AIHA-LAP, LLC website at:

<http://www.aihaaccreditedlabs.org>



AIHA Laboratory Accreditation Programs, LLC SCOPE OF ACCREDITATION

ProScience Analytical Services, Inc.
22 Cummings Park, Woburn, MA 01801-2122

Laboratory ID: **102754**
Issue Date: 03/30/2018

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

The EPA recognizes the AIHA-LAP, LLC ELLAP program as meeting the requirements of the National Lead Laboratory Accreditation Program (NLLAP) established under Title X of the Residential Lead-Based Paint Hazard Reduction Act of 1992 and includes paint, soil and dust wipe analysis. Air and composited wipes analyses are not included as part of the NLLAP.

Environmental Lead Laboratory Accreditation Program (ELLAP)

Initial Accreditation Date: 11/01/1999

Field of Testing (FoT)	Technology sub-type/ Detector	Method	Method Description <i>(for internal methods only)</i>
Paint		EPA SW-846 3051	
		EPA SW-846 6010B	
		EPA SW-846 7420	
Soil		EPA SW-846 3051	
		EPA SW-846 6010B	
		EPA SW-846 7420	
Settled Dust by Wipe		EPA SW-846 3051	
		EPA SW-846 6010B	
		EPA SW-846 7420	
Airborne Dust		EPA SW-846 6010B	
		EPA SW-846 7420	
		NIOSH 7082 Modified	

A complete listing of currently accredited Environmental Lead laboratories is available on the AIHA-LAP, LLC website at:
<http://www.aihaaccreditedlabs.org>



THE COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF LABOR AND WORKFORCE DEVELOPMENT

DEPARTMENT OF LABOR STANDARDS
19 STANIFORD STREET, BOSTON, MASSACHUSETTS 02114

CERTIFICATION FOR ASBESTOS ANALYTICAL SERVICES

PROSCIENCE ANALYTICAL SERVICES, INC.
22 CUMMINGS PARK
WOBURN MA 01801-2122

LICENSE: **AA000156**

EXPIRES: **Monday, December 16, 2019**

IN ACCORDANCE WITH MGL CH. 149 § 6B AND 453 CMR 6.08 THIS CERTIFICATE IS ISSUED BY THE DEPARTMENT OF LABOR STANDARDS TO THE ABOVE NAMED ENTITY TO PROVIDE THE ASBESTOS ANALYTICAL SERVICES SPECIFICALLY LISTED BELOW.

CLASS A CERTIFICATE
CLASS C CERTIFICATE
CLASS D CERTIFICATE

A handwritten signature in cursive script that reads "William D. McKinney".

WILLIAM D. MCKINNEY, DIRECTOR

Appendix C
Laboratory Reports



ProScience Analytical Services, Inc

Paul Plagge
Wilcox & Barton, Inc., NH
#1B Commons Drive, Unit 12
Londonderry, NH 03053

January 02, 2019

Dear Paul Plagge,

The enclosed analytical results have been obtained by using EPA 600/R-93/116 or EPA 600/M4-82-020. Calibrated Visual Estimate (CVE) is used by ProScience for the determination of the percentage of asbestos and other components in the sample. Point Counting is recommended when the sample contains less than 10% asbestos by CVE. Friable materials found to be less than 1% by CVE are automatically point counted (400 points) at no additional charge. ProScience recommends further analysis by a gravimetric method for non-friable materials that are less than 1% by CVE.

The Quality Control data related to the samples analyzed is available upon client's written request. ProScience Analytical Services Inc., assumes no responsibility for potential sample contamination that may have occurred during the sample collection process or erroneous data provided by the client. Unless otherwise indicated, all samples were received in acceptable condition.

The enclosed results may not be used under any circumstances as product endorsement by any US government agency including NIST/NVLAP.

All Laboratory records are retained for at least three years unless otherwise directed in writing by the client. The actual samples are retained for a period of two months and written request is necessary in order to be retained for a longer period of time. All analytical results and records are considered strictly confidential and will not be released under any circumstances to anyone except the actual client. The analytical results included in this report apply only to the items tested. This report may not be reproduced except in its entirety, without the permission of ProScience Analytical Services, Inc., Laboratory Director.

If you have any questions please contact the Laboratory Manager or the Laboratory Director.

Sincerely,

Sopetra Ken, Optical Asbestos Manager

Aimee Cormier, Laboratory Director

Enclosure: Version 2
LAB BATCH ID: B 113506 CLIENT PROJECT ID: WORC0006
Client Ref: Former St. Vincent's Nurses Wing, Worcester, MA
CT ID# PH-0209; MA ID# AA000156; ME ID# LB-055; NVLAP Lab Code 200090-0; RI ID # AAL-093; VT ID# AL016876

ProScience Analytical Services, Inc.

Client Name: Wilcox & Barton, Inc., NH
 PO #: N/A
 Client Project #: WORC0006
 Client Reference: Former St. Vincent's Nurses Wing, Worcester, MA
 Method: EPA/600/R-93/116

Batch: B113506
 Date Sampled: N/A
 Date Received: 12/27/2018
 Date Analyzed: 12/30/2018
 Date of Report: 1/2/2019

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B001A	Tan	5	0	0	0	0	0	0	0	0	0	0	0	95
Description: Exterior Window Caulking Location: N/A Comments: Is asbestos present? Yes. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B001B		0	0	0	0	0	0	0	0	0	0	0	0	0
Description: Exterior Window Caulking Location: N/A Comments: Analyzed: No														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B002A	Tan	2	0	0	0	0	0	0	0	0	0	0	0	98
Description: Exterior Door Caulking Location: N/A Comments: Is asbestos present? Yes. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B002B		0	0	0	0	0	0	0	0	0	0	0	0	0
Description: Exterior Door Caulking Location: N/A Comments: Analyzed: No														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B003A	Tan	0	0	0	0	0	0	0	0	100	0	0	0	0
Description: Tar Paper under Wood Floor Location: Room 2 Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B003B	Tan	0	0	0	0	0	0	0	0	100	0	0	0	0
Description: Tar Paper under Wood Floor Location: Room 2 Comments: Is asbestos present? No. Analyzed: Yes														

ProScience Analytical Services, Inc.

Client Name: Wilcox & Barton, Inc., NH
 PO #: N/A
 Client Project #: WORC0006
 Client Reference: Former St. Vincent's Nurses Wing, Worcester, MA
 Method: EPA/600/R-93/116

Batch: B113506
 Date Sampled: N/A
 Date Received: 12/27/2018
 Date Analyzed: 12/30/2018
 Date of Report: 1/2/2019

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B004A	White	60	0	0	0	0	0	0	0	0	0	0	0	40
Description: Pipe Insulation Location: Room 1 Comments: Is asbestos present? Yes. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B004B		0	0	0	0	0	0	0	0	0	0	0	0	0
Description: Pipe Insulation Location: Room 2 Comments: Analyzed: No														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B004C		0	0	0	0	0	0	0	0	0	0	0	0	0
Description: Pipe Insulation Location: Room 24 Comments: Analyzed: No														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B005A	White	70	0	0	0	0	0	0	0	0	0	0	0	30
Description: Insulation on Fitting Location: Room 3 Comments: Is asbestos present? Yes. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B005B		0	0	0	0	0	0	0	0	0	0	0	0	0
Description: Insulation on Fitting Location: Room 1 Comments: Analyzed: No														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B006A	White	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: White Skim Coat on Plaster Wall Location: Room 2 Comments: Is asbestos present? No. Analyzed: Yes														

ProScience Analytical Services, Inc.

Client Name: Wilcox & Barton, Inc., NH
 PO #: N/A
 Client Project #: WORC0006
 Client Reference: Former St. Vincent's Nurses Wing, Worcester, MA
 Method: EPA/600/R-93/116

Batch: B113506
 Date Sampled: N/A
 Date Received: 12/27/2018
 Date Analyzed: 12/30/2018
 Date of Report: 1/2/2019

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B006B	White	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: White Skim Coat on Plaster Wall														
Location: Room 6														
Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B006C	White	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: White Skim Coat on Plaster Wall														
Location: Room 2														
Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B007A	Gray	0	0	0	0	0	0	0	0	<1	0	0	0	100
Description: Plaster Walls														
Location: Room 2														
Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B007B	Gray	0	0	0	0	0	0	0	0	<1	0	0	0	100
Description: Plaster Walls														
Location: Room 6														
Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B007C	Gray	0	0	0	0	0	0	0	0	0	<1	0	0	100
Description: Plaster Walls														
Location: Room 2														
Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B008A	Multi	0	0	0	0	0	0	0	0	10	0	0	0	90
Description: Drywall														
Location: Room 2														
Comments: Is asbestos present? No. Analyzed: Yes														

ProScience Analytical Services, Inc.

Client Name: Wilcox & Barton, Inc., NH
 PO #: N/A
 Client Project #: WORC0006
 Client Reference: Former St. Vincent's Nurses Wing, Worcester, MA
 Method: EPA/600/R-93/116

Batch: B113506
 Date Sampled: N/A
 Date Received: 12/27/2018
 Date Analyzed: 12/30/2018
 Date of Report: 1/2/2019

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B008B	Multi	0	0	0	0	0	0	0	0	10	0	0	0	90
Description: Drywall Location: Room 2 Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B009A	White	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Joint Compound Location: Room 2 Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B009B	White	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Joint Compound Location: Room 2 Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B016A	Red	0	0	0	0	0	0	0	0	50	0	0	0	50
Description: Red Textured Wallpaper Location: Room 2 Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B016B	Red	0	0	0	0	0	0	0	0	50	0	0	0	50
Description: Red Textured Wallpaper Location: Room 2 Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B027A	Multi	0	0	0	0	0	0	0	40	40	0	0	0	20
Description: White Speckled 2x2 Ceiling Tile Location: Room 6 Comments: Is asbestos present? No. Analyzed: Yes														

ProScience Analytical Services, Inc.

Client Name: Wilcox & Barton, Inc., NH
 PO #: N/A
 Client Project #: WORC0006
 Client Reference: Former St. Vincent's Nurses Wing, Worcester, MA
 Method: EPA/600/R-93/116

Batch: B113506
 Date Sampled: N/A
 Date Received: 12/27/2018
 Date Analyzed: 12/30/2018
 Date of Report: 1/2/2019

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B027B	Multi	0	0	0	0	0	0	0	40	40	0	0	0	20
Description: White Speckled 2x2 Ceiling Tile Location: Room 6 Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B046A	Tan	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Window Glazing Compound Location: Courtyard Windows Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B046B	Tan	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Window Glazing Compound Location: Courtyard Windows Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B049A	White	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: White Skim Coat on Plaster Walls Location: Room 17 Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B049B	White	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: White Skim Coat on Plaster Walls Location: Room 24 Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B049C	White	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: White Skim Coat on Plaster Walls Location: Room 18 Comments: Is asbestos present? No. Analyzed: Yes														

ProScience Analytical Services, Inc.

Client Name: Wilcox & Barton, Inc., NH
 PO #: N/A
 Client Project #: WORC0006
 Client Reference: Former St. Vincent's Nurses Wing, Worcester, MA
 Method: EPA/600/R-93/116

Batch: B113506
 Date Sampled: N/A
 Date Received: 12/27/2018
 Date Analyzed: 12/30/2018
 Date of Report: 1/2/2019

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B049D	White	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: White Skim Coat on Plaster Walls														
Location: Room 24														
Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B050A	Gray	0	0	0	0	0	0	0	0	<1	<1	0	0	100
Description: Plaster Walls														
Location: Room 17														
Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B050B	Gray	0	0	0	0	0	0	0	0	<1	<1	0	0	100
Description: Plaster Walls														
Location: Room 24														
Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B050C	Gray	0	0	0	0	0	0	0	0	<1	<1	0	0	100
Description: Plaster Walls														
Location: Room 18														
Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B050D	Gray	0	0	0	0	0	0	0	0	<1	<1	0	0	100
Description: Plaster Walls														
Location: Room 24														
Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B050E	Gray	0	0	0	0	0	0	0	0	<1	<1	0	0	100
Description: Plaster Walls														
Location: Room 11														
Comments: Is asbestos present? No. Analyzed: Yes														

ProScience Analytical Services, Inc.

Client Name: Wilcox & Barton, Inc., NH
 PO #: N/A
 Client Project #: WORC0006
 Client Reference: Former St. Vincent's Nurses Wing, Worcester, MA
 Method: EPA/600/R-93/116

Batch: B113506
 Date Sampled: N/A
 Date Received: 12/27/2018
 Date Analyzed: 12/30/2018
 Date of Report: 1/2/2019

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B049E	White	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: White Skim Coat on Plaster Wall Location: Room 11 Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B074A	White	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Joint Compound Location: Room 32 Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B074B	White	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Joint Compound Location: Room 32 Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B075A	White	0	0	0	0	0	0	<1	0	2	0	0	0	98
Description: Drywall Location: Room 32 Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B075B	Multi	0	0	0	0	0	0	<1	0	10	0	0	0	90
Description: Drywall Location: Room 32 Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B078A	White	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Skim Coat on Plaster Location: Room 76 Comments: Is asbestos present? No. Analyzed: Yes														

ProScience Analytical Services, Inc.

Client Name: Wilcox & Barton, Inc., NH
 PO #: N/A
 Client Project #: WORC0006
 Client Reference: Former St. Vincent's Nurses Wing, Worcester, MA
 Method: EPA/600/R-93/116

Batch: B113506
 Date Sampled: N/A
 Date Received: 12/27/2018
 Date Analyzed: 12/30/2018
 Date of Report: 1/2/2019

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B078B	White	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Skim Coat on Plaster Location: Room 76 Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B078C	White	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Skim Coat on Plaster Location: Room 54 Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B078D	White	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Skim Coat on Plaster Location: Room 54 Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B078E	White	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Skim Coat on Plaster Location: Room 54 Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B079A	Gray	0	0	0	0	0	0	0	0	<1	0	0	0	100
Description: Plaster Walls Location: Room 76 Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B079B	Gray	0	0	0	0	0	0	0	0	2	0	0	0	98
Description: Plaster Walls Location: Room 76 Comments: Is asbestos present? No. Analyzed: Yes														

ProScience Analytical Services, Inc.

Client Name: Wilcox & Barton, Inc., NH
 PO #: N/A
 Client Project #: WORC0006
 Client Reference: Former St. Vincent's Nurses Wing, Worcester, MA
 Method: EPA/600/R-93/116

Batch: B113506
 Date Sampled: N/A
 Date Received: 12/27/2018
 Date Analyzed: 12/30/2018
 Date of Report: 1/2/2019

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B079C	Gray	0	0	0	0	0	0	0	0	2	0	0	0	98
Description: Plaster Walls Location: Room 54 Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B079D	Gray	0	0	0	0	0	0	0	0	<1	<1	0	0	100
Description: Plaster Walls Location: Room 54 Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B079E	Gray	0	0	0	0	0	0	0	0	<1	<1	0	0	100
Description: Plaster Walls Location: Room 54 Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B080A	White	2	0	0	0	0	0	0	0	0	0	0	0	98
Description: Exterior Window Glazing Compound Location: 2nd Fl. Room 42 Comments: Is asbestos present? Yes. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B080B		0	0	0	0	0	0	0	0	0	0	0	0	0
Description: Exterior Window Glazing Compound Location: 2nd Fl. Room 62 Comments: Analyzed: No														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B083A	Yellow	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Setting Mud on Green Ceramic Wall Tile Location: Room 45 Comments: Is asbestos present? No. Analyzed: Yes														

ProScience Analytical Services, Inc.

Client Name: Wilcox & Barton, Inc., NH
 PO #: N/A
 Client Project #: WORC0006
 Client Reference: Former St. Vincent's Nurses Wing, Worcester, MA
 Method: EPA/600/R-93/116

Batch: B113506
 Date Sampled: N/A
 Date Received: 12/27/2018
 Date Analyzed: 12/30/2018
 Date of Report: 1/2/2019

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B083B	Yellow	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Setting Mud on Green Ceramic Wall Tile														
Location: Room 45														
Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B084A	White	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Grout on Green Ceramic Wall Tile														
Location: Room 45														
Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B084B	White	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Grout on Green Ceramic Wall Tile														
Location: Room 45														
Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B086	Gray	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Grout on Black & White Ceramic Floor Tile														
Location: Room 45														
Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B087	Gray	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Setting Mud on Black Ceramic Shower Tile														
Location: Room 45														
Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B088	White	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Grout on Black Ceramic Shower Tile														
Location: Room 45														
Comments: Is asbestos present? No. Analyzed: Yes														

ProScience Analytical Services, Inc.

Client Name: Wilcox & Barton, Inc., NH
 PO #: N/A
 Client Project #: WORC0006
 Client Reference: Former St. Vincent's Nurses Wing, Worcester, MA
 Method: EPA/600/R-93/116

Batch: B113506
 Date Sampled: N/A
 Date Received: 12/27/2018
 Date Analyzed: 12/30/2018
 Date of Report: 1/2/2019

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B092A	Brown	0	0	0	0	0	0	0	0	100	0	0	0	0
Description: Paper under Wood Floor Location: Room 71 Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B092B	Brown	0	0	0	0	0	0	0	0	100	0	0	0	0
Description: Paper under Wood Floor Location: Room 71 Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B098A	Gray	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Gray Leveling Compound under Carpets Location: Room 67 Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B098B	Gray	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Gray Leveling Compound under Carpets Location: Room 81 Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B106A	Yellow	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Setting mud on Yellow Wall Tile Location: Room 104 Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B106B	Yellow	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Setting mud on Yellow Wall Tile Location: Room 104 Comments: Is asbestos present? No. Analyzed: Yes														

ProScience Analytical Services, Inc.

Client Name: Wilcox & Barton, Inc., NH
 PO #: N/A
 Client Project #: WORC0006
 Client Reference: Former St. Vincent's Nurses Wing, Worcester, MA
 Method: EPA/600/R-93/116

Batch: B113506
 Date Sampled: N/A
 Date Received: 12/27/2018
 Date Analyzed: 12/30/2018
 Date of Report: 1/2/2019

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B107A	White	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Grout on Yellow Wall Tile Location: Room 104 Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B107B	White	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Grout on Yellow Wall Tile Location: Room 104 Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B113A	Yellow	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Setting Mud on Pink Ceramic Wall Tile Location: Room 126 Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B113B	Yellow	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Setting Mud on Pink Ceramic Wall Tile Location: Room 126 Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B114A	White	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Grout on Pink Ceramic Wall Tile Location: Room 126 Comments: Is asbestos present? No. Analyzed: Yes														

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B114B	White	0	0	0	0	0	0	0	0	0	0	0	0	100
Description: Grout on Pink Ceramic Wall Tile Location: Room 126 Comments: Is asbestos present? No. Analyzed: Yes														

ProScience Analytical Services, Inc.

Client Name: Wilcox & Barton, Inc., NH
 PO #: N/A
 Client Project #: WORC0006
 Client Reference: Former St. Vincent's Nurses Wing, Worcester, MA
 Method: EPA/600/R-93/116

Batch: B113506
 Date Sampled: N/A
 Date Received: 12/27/2018
 Date Analyzed: 12/30/2018
 Date of Report: 1/2/2019

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B125A	White	0	0	0	0	0	0	0	0	0	0	0	0	100

Description: Setting Mud on Blue Ceramic Wall Tile
 Location: Room 172
 Comments: Is asbestos present? No. Analyzed: Yes

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B125B	White	0	0	0	0	0	0	0	0	0	0	0	0	100

Description: Setting Mud on Blue Ceramic Wall Tile
 Location: Room 172
 Comments: Is asbestos present? No. Analyzed: Yes

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B126A	Yellow	0	0	0	0	0	0	0	0	0	0	0	0	100

Description: Grout on Blue Ceramic Wall Tile
 Location: Room 172
 Comments: Is asbestos present? No. Analyzed: Yes

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B126B	Yellow	0	0	0	0	0	0	0	0	0	0	0	0	100

Description: Grout on Blue Ceramic Wall Tile
 Location: Room 172
 Comments: Is asbestos present? No. Analyzed: Yes

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B130A	Yellow	0	0	0	0	0	0	0	0	0	0	0	0	100

Description: Setting Mud on Lime Green Ceramic Wall Tile
 Location: Room 194
 Comments: Is asbestos present? No. Analyzed: Yes

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B130B	Yellow	0	0	0	0	0	0	0	0	0	0	0	0	100

Description: Setting Mud on Lime Green Ceramic Wall Tile
 Location: Room 194
 Comments: Is asbestos present? No. Analyzed: Yes

ProScience Analytical Services, Inc.

Client Name: Wilcox & Barton, Inc., NH
 PO #: N/A
 Client Project #: WORC0006
 Client Reference: Former St. Vincent's Nurses Wing, Worcester, MA
 Method: EPA/600/R-93/116

Batch: B113506
 Date Sampled: N/A
 Date Received: 12/27/2018
 Date Analyzed: 12/30/2018
 Date of Report: 1/2/2019

Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B131A	White	0	0	0	0	0	0	0	0	0	0	0	0	100

Description: Grout on Lime Green Ceramic Wall Tile
 Location: Room 194
 Comments: Is asbestos present? No. Analyzed: Yes

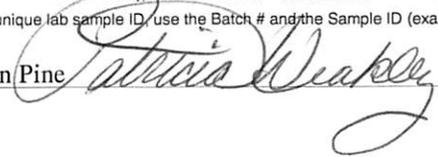
Sample ID	Color	Asbestos %						Non-Asbestos %						
		CHR	AMO	CRO	ACT	TRE	ANT	FBG	MNW	CEL	HAR	SYN	OTH	NON
B131B	White	0	0	0	0	0	0	0	0	0	0	0	0	100

Description: Grout on Lime Green Ceramic Wall Tile
 Location: Room 194
 Comments: Is asbestos present? No. Analyzed: Yes

Asbestos Codes: CHR = Chrysotile AMO = Amosite CRO = Crocidolite ACT = Actinolite TRE = Tremolite ANT = Anthophyllite
 Non-Asbestos Codes: FBG = Fiberglass MNW = Mineral Wool CEL = Cellulose HAR = Hair SYN = Synthetic OTH = Other NON = Non-Fibrous Minerals

Note: To create a unique lab sample ID, use the Batch # and the Sample ID (example: [Batch #] - [Sample ID]).

* All results are in percentage.

Analyst: Dan Pine 

PLM Asbestos Chain of Custody Record



RUSH

Turn Around Time Requested

LABORATORY/HEADQUARTERS

LABORATORY SERVICES

22 Cummings Park, Woburn, MA 01801

683 North Mountain Rd., Newington, CT 06111

T:781-935-3212 F:781-932-4857

T:860-953-1022 F:860-953-1030

Same day 24 Hour 48 Hour 72 Hour 5 Days

Client: Wilcox & Barton, Inc.
 Address: #1 Commons Drive, Unit 12B, Londonderry, NH 03053
 Project Site & Number: Former St Vincents Nurses Wing, Worcester MA - WORC0006
 Phone / FAX Number: (603) 369-4190 x506
 Contact: Paul Plagge

Relinquished by/date: _____
 Received by/date: _____
 Samples received: _____ Analyzed: _____
 Faxed, E-mailed, Verbal by/date: pplagge@wilcoxandbarton.com
 Stop on first positive: Yes X No _____

For Lab Use> Batch Number B113506

Analyzed by/date: Dan Hu 12/30/15 QC by/date: _____

Lab ID	Field ID Sampled date	Description / Location	Stereo Scope					Optical Properties					RI		Asbestos Percentage (%)						Non Asbestos Percentage (%)							
			% Asbestos	Color	Homogeneity	Texture	Friable	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism		⊥	Chrysotile	Amosite	Circle Type	Crocidolite	Tremolite	Anthophyllite	Actinolite	Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non Fibrous
	B004A	Pipe Insulation Run 1	50	W	H	Y	F	NY	W	L	L	NY	NY	60														40
	B004B	" DNA Run 2																										
	B004C	Pipe Insulation DNA Run 2																										
	B005A	Insulation on fitting Run 3	60	W	H	Y	F	NY	W	L	L	NY	NY	70														30
	B005B	" DNA Run 1																										
	B006A	White Skim coat on Plaster wall Run 2	0	W	H	Y	F	NY																				100

Comments: Birefringence L= less than .010, M= .011-.029, H= greater than .03; Microscope Olympus BH-2, Serial # circle 1- 242277, 229027, 235000, 230663 Laboratory uses the EPA or ELAP point count method as appropriate

PLM Asbestos Chain of Custody Record



RUSH

Turn Around Time Requested

LABORATORY/HEADQUARTERS

LABORATORY SERVICES

22 Cummings Park, Woburn, MA 01801
T:781-935-3212 F:781-932-4857

683 North Mountain Rd., Newington, CT 06111
T:860-953-1022 F:860-953-1030

Same day 24 Hour 48 Hour 72 Hour 5 Days

Client: Wilcox & Barton, Inc.
Address: #1 Commons Drive, Unit 12B, Londonderry, NH 03053
Project Site & Number: Former St Vincents Nurses Wing, Worcester MA - WORC0006
Phone / FAX Number: (603) 369-4190 x506
Contact: Paul Plagge

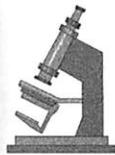
Relinquished by/date: _____
Received by/date: _____
Samples received: _____ Analyzed: _____
Faxed, E-mailed, Verbal by/date: pplagge@wilcoxandbarton.com
Stop on first positive: Yes X No _____

For Lab Use> Batch Number B113506

Analyzed by/date: [Signature] 12/30/18 QC by/date: _____

Lab ID	Field ID Sampled date	Description / Location	Stereo Scope					Optical Properties					RI		Asbestos Percentage (%)						Non Asbestos Percentage (%)						
			% Asbestos	Color	Homogeneity	Texture	Friable	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism		⊥	Chrysotile	Amosite	Crocidolite	Tremolite	Anthophyllite	Actinolite	Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non Fibrous
	B006B	White Skin Coat on Plaster wall Rm 6	0	W	H	Y	6	NY																			100
	B006C	" " Rm 2	0	W	H	Y	6	NY																			100
	B007A	Plaster walls Rm 2	0	6	Y	6	NY														W						100
	B007B	" " Rm 6	0	6	Y	6	NY														W						100
	B007C	" " Rm 2	0	6	Y	6	NY															SC					100
	B008A	Dry wall Rm 2	0	W	H	Y	6	NY													W						90

PLM Asbestos Chain of Custody Record



RUSH

Turn Around Time Requested

LABORATORY/HEADQUARTERS

LABORATORY SERVICES

22 Cummings Park, Woburn, MA 01801
T:781-935-3212 F:781-932-4857

683 North Mountain Rd., Newington, CT 06111
T:860-953-1022 F:860-953-1030

Same day 24 Hour 48 Hour 72 Hour 5 Days

Client: Wilcox & Barton, Inc.
Address: #1 Commons Drive, Unit 12B, Londonderry, NH 03053
Project Site & Number: Former St Vincents Nurses Wing, Worcester MA - WORC0006
Phone / FAX Number: (603) 369-4190 x506
Contact: Paul Plagge

Relinquished by/date: _____
Received by/date: _____
Samples received: _____ Analyzed: _____
Faxed, E-mailed, Verbal by/date: pplagge@wilcoxandbarton.com
Stop on first positive: Yes X No _____

For Lab Use> Batch Number B113506

Analyzed by/date: PLM 12/30/18 QC by/date: _____

Lab ID	Field ID Sampled date	Description / Location	Stereo Scope					Optical Properties					RI		Asbestos Percentage (%)						Non Asbestos Percentage (%)						
			% Asbestos	Color	Homogeneity	Texture	Friable	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism		⊥	Chrysotile	Amosite	Crocidolite	Tremolite	Anthophyllite	Actinolite	Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non Fibrous
	B049E	White skin coat on Plaster wall Rm 11	0	W	H	Y	6																				100
	B074A	Joint Compound Rm 32	0	W	H	Y	6																				100
	B074B	" " Rm 32	0	W	H	Y	6																				100
	B075A	Dry wall Rm 32	0	W	H	Y	6													I	W						98
	B075B	" " Rm 32	0	M	C	N	F	6												I	W						90
	B078A	skin coat on Plaster Rm 76	0	W	H	Y	6																				100

Comments: Birefringence L= less than .010, M= .011-.029, H= greater than .03; Microscope Olympus BH-2, Serial # circle 1- 242277, 229027, 235000, 230663 Laboratory uses the EPA or ELAP point count method as appropriate

ProScience Analytical Services, Inc.

PLM Asbestos Chain of Custody Record

LABORATORY/HEADQUARTERS

22 Cummings Park, Woburn, MA 01801
T:781-935-3212 F:781-932-4857

LABORATORY SERVICES

683 North Mountain Rd., Newington, CT 06111
T:860-953-1022 F:860-953-1030



RUSH

Turn Around Time Requested _____

Same day 24 Hour 48 Hour 72 Hour 5 Days

Client: Wilcox & Barton, Inc.
Address: #1 Commons Drive, Unit 12B, Londonderry, NH 03053
Project Site & Number: Former St Vincents Nurses Wing, Worcester MA - WORC0006
Phone / FAX Number: (603) 369-4190 x506
Contact: Paul Plagge

Relinquished by/date: _____
Received by/date: _____
Samples received: _____ Analyzed: _____
Faxed, E-mailed, Verbal by/date: pplagge@wilcoxandbarton.com
Stop on first positive: Yes X No _____
QC by/date: _____

For Lab Use> Batch Number B113506

Analyzed by/date: Dan Thu 12/30/18

Lab ID	Field ID Sampled date	Description / Location	Stereo Scope		Optical Properties					RI		Asbestos Percentage (%)						Non Asbestos Percentage (%)									
			% Asbestos	Color	Homogeneity	Texture	Friable	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism		⊥	Chrysotile	Amosite	Crocidolite	Tremolite	Anthophyllite	Actinolite	Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non Fibrous
	B078B	Skim Coat on Plaster Rm 76	0	W	H	Y	6	N	Y																		100
	B078C	" Rm 54	0	W	H	Y	6	N	Y																		100
	B078D	" Rm 54	0	W	H	Y	6	N	Y																		100
	B078E	" Rm 54	0	W	H	Y	6	N	Y																		100
	B079A	Plaster Walls Rm 76	0	6	Y	Y	6	N	Y													W					100
	B079B	" Rm 76	0	6	Y	Y	6	N	Y													W					95

Comments: Birefringence L= less than .010, M= .011-.029, H= greater than .03; Microscope Olympus BH-2, Serial # circle 1- 242277, 229027, 235000, 230663

Laboratory uses the EPA or ELAP point count method as appropriate

For complete information about our services and locations please visit us at www.proscience.net or call the numbers above.

Revised on 4/7/09

PLM Asbestos Chain of Custody Record



RUSH

Turn Around Time Requested

LABORATORY/HEADQUARTERS

LABORATORY SERVICES

22 Cummings Park, Woburn, MA 01801

683 North Mountain Rd., Newington, CT 06111

T:781-935-3212 F:781-932-4857

T:860-953-1022 F:860-953-1030

Same day 24 Hour 48 Hour 72 Hour 5 Days

Client: Wilcox & Barton, Inc.
 Address: #1 Commons Drive, Unit 12B, Londonderry, NH 03053
 Project Site & Number: Former St Vincents Nurses Wing, Worcester MA - WORC0006
 Phone / FAX Number: (603) 369-4190 x506
 Contact: Paul Plagge

Relinquished by/date: _____
 Received by/date: _____
 Samples received: _____ Analyzed: _____
 Faxed, E-mailed, Verbal by/date: pplagge@wilcoxandbarton.com
 Stop on first positive: Yes X No _____

For Lab Use> Batch Number

B113506

Analyzed by/date:

Paul Plagge 12/30/18

QC by/date:

Lab ID	Field ID Sampled date	Description / Location	Stereo Scope					Optical Properties					RI		Asbestos Percentage (%)						Non Asbestos Percentage (%)						
			% Asbestos	Color	Homogeneity	Texture	Friable	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism		⊥	Chrysotile	Amosite	Crocidolite	Tremolite	Anthophyllite	Actinolite	Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non Fibrous
	B083B	Settling mud on Green Ceramic wall tile Run 45	0	W	H	N																					100
	B084A	Grout on Green Ceramic wall tile Run 45	0	W	H	N																					100
	B084B	" " " " " " Run 45	0	W	H	N																					100
	B086	Grout on Black & white Ceramic Floor tile Run 45	0	W	H	N																					100
	B087	Settling mud on Black Ceramic Shower Tile Run 45	0	W	H	N																					100
	B088	Grout on Black Ceramic Shower Tile Run 45	0	W	H	N																					100

Comments: Birefringence L= less than .010, M= .011-.029, H= greater than .03; Microscope Olympus BH-2, Serial # circle 1- 242277, 229027, 235000, 230663 Laboratory uses the EPA or ELAP point count method as appropriate

PLM Asbestos Chain of Custody Record



RUSH

Turn Around Time Requested

LABORATORY/HEADQUARTERS

LABORATORY SERVICES

22 Cummings Park, Woburn, MA 01801

683 North Mountain Rd., Newington, CT 06111

T:781-935-3212 F:781-932-4857

T:860-953-1022 F:860-953-1030

Same day 24 Hour 48 Hour 72 Hour 5 Days

Client: Wilcox & Barton, Inc.

Relinquished by/date: _____

Address: #1 Commons Drive, Unit 12B, Londonderry, NH 03053

Received by/date: _____

Project Site & Number: Former St Vincents Nurses Wing, Worcester MA - WORC0006

Samples received: _____ Analyzed: _____

Phone / FAX Number: (603) 369-4190 x506

Faxed, E-mailed, Verbal by/date: pplagge@wilcoxandbarton.com

Contact: Paul Plagge

Stop on first positive: Yes No

For Lab Use> Batch Number B113506

Analyzed by/date: P. Plagge 12/30/18

QC by/date: _____

Lab ID	Field ID Sampled date	Description / Location	Stereo Scope					Optical Properties					RI		Asbestos Percentage (%)						Non Asbestos Percentage (%)							
			% Asbestos	Color	Homogeneity	Texture	Friable	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism		⊥	Chrysotile	Amosite	Circle Type	Crocidolite	Tremolite	Anthophyllite	Actinolite	Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non Fibrous
	B107A	Grout on yellow wall tile Rm 104	0	W	H	Y	N	Y																				100
	B107B	" Rm 104	0	W	H	Y	N	Y																				100
	B113A	Setting mud on Pink ceramic Wall tile Rm 126	0	Y	Y	H	N																					100
	B113B	" Rm 126	0	Y	Y	H	N																					100
	B114A	Grout on Pink ceramic Wall tile Rm 126	0	W	H	Y	N	Y																				100
	B114B	" Rm 126	0	W	H	Y	N	Y																				100

Comments: Birefringence L= less than .010, M= .011-.029, H= greater than .03; Microscope Olympus BH-2, Serial # circle 1- 242277, 229027, 235000, 230663

Laboratory uses the EPA or ELAP point count method as appropriate

PLM Asbestos Chain of Custody Record



RUSH

Turn Around Time Requested

LABORATORY/HEADQUARTERS

LABORATORY SERVICES

22 Cummings Park, Woburn, MA 01801
T:781-935-3212 F:781-932-4857

683 North Mountain Rd., Newington, CT 06111
T:860-953-1022 F:860-953-1030

Same day 24 Hour 48 Hour 72 Hour 5 Days

Client: Wilcox & Barton, Inc.
Address: #1 Commons Drive, Unit 12B, Londonderry, NH 03053
Project Site & Number: Former St Vincents Nurses Wing, Worcester MA - WORC0006
Phone / FAX Number: (603) 369-4190 x506
Contact: Paul Plagge

Relinquished by/date: _____
Received by/date: _____
Samples received: _____ Analyzed: _____
Faxed, E-mailed, Verbal by/date: pplagge@wilcoxandbarton.com
Stop on first positive: Yes X No _____

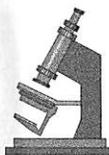
For Lab Use> Batch Number B113506

Analyzed by/date: Paul Plagge 12/30/18 QC by/date: _____

Lab ID	Field ID Sampled date	Description / Location	Stereo Scope					Optical Properties					RI		Asbestos Percentage (%)						Non Asbestos Percentage (%)						
			% Asbestos	Color	Homogeneity	Texture	Friable	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism		⊥	Chrysotile	Amosite	Crocidolite	Tremolite	Anthophyllite	Actinolite	Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non Fibrous
	B125A	Settling mud on Blue Ceramic wall tile Rm 172	0	W	H	Y	H	N																			100
	B125B	" " Rm 172	0	W	H	Y	H	N																			100
	B126A	Grout on Blue Ceramic wall tile Rm 172	0	Y	Y	H	N																				100
	B126B	" " Rm 172	0	Y	Y	H	N																				100
	B130A	Settling mud on Lime Green Ceramic wall tile Rm 194	0	Y	Y	H	N																				100
	B130B	" " Rm 194	0	Y	Y	H	N																				100

Comments: Birefringence L= less than .010, M= .011-.029, H= greater than .03; Microscope Olympus BH-2, Serial # circle 1- 242277, 229027, 235000, 230663 Laboratory uses the EPA or ELAP point count method as appropriate

PLM Asbestos Chain of Custody Record



RUSH

Turn Around Time Requested

LABORATORY/HEADQUARTERS

LABORATORY SERVICES

22 Cummings Park, Woburn, MA 01801

683 North Mountain Rd., Newington, CT 06111

T:781-935-3212 F:781-932-4857

T:860-953-1022 F:860-953-1030

Same day 24 Hour 48 Hour 72 Hour 5 Days

Client: Wilcox & Barton, Inc.

Relinquished by/date: _____

Address: #1 Commons Drive, Unit 12B, Londonderry, NH 03053

Received by/date: _____

Project Site & Number: Former St Vincents Nurses Wing, Worcester MA - WORC0006

Samples received: _____ Analyzed: _____

Phone / FAX Number: (603) 369-4190 x506

Faxed, E-mailed, Verbal by/date: pplagge@wilcoxandbarton.com

Contact: Paul Plagge

Stop on first positive: Yes No

For Lab Use> Batch Number

B113506

Analyzed by/date: Dan Plu 12/30/18

QC by/date: _____

Lab ID	Field ID Sampled date	Description / Location	Stereo Scope					Optical Properties					RI		Asbestos Percentage (%)						Non Asbestos Percentage (%)					
			% Asbestos	Color	Homogeneity	Texture	Friable	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism		⊥	Chrysotile	Amosite	Crocidolite	Tremolite	Anthophyllite	Actinolite	Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other
	B131A	Grout on Lime Green Ceramic wall tile Rm 194	0	W	H	G	N																			100
	B131B	" Rm 194	0	W	H	G	N																			100

Comments: Birefringence L= less than .010, M= .011-.029, H= greater than .03; Microscope Olympus BH-2, Serial # circle 1- 242277, 229027, 235000, 230663 Laboratory uses the EPA or ELAP point count method as appropriate



ProScience Analytical Services, Inc

Paul Plagge
Wilcox & Barton, Inc., NH
#1B Commons Drive, Unit 12
Londonderry, NH 03053

January 04, 2019

Dear Paul Plagge,

Results of samples you described and submitted to ProScience Analytical Services, Inc. are shown on the enclosed data sheets. The analytical results in this report apply to the items tested only. The listed samples were prepared and analyzed in compliance with the New York State Transmission Electron Microscope Method for Identifying and Quantitating Asbestos in Non-Friable Organically Bound Bulk Samples. This method is used for the determination of weight percent of asbestos in non-friable materials. The sample is processed to remove non-asbestos interference. The remaining residue is examined using a Philips transmission electron microscope equipped with selected area electron diffraction (SAED) and an Evex energy dispersive x-ray analyzer.

The following are reported: identification numbers, type of material, color or the sample, initial weight of the sample, weight percent of organic material lost by ashing, weight percent of carbonates lost by acid dissolution, weight percent of non-fibrous/non asbestos inorganic material, total weight percent of asbestos in the original sample, and the type(s) of asbestos, if any.

The EPA recognizes asbestos as the following: actinolite, amosite, anthophyllite, chrysotile, crocidolite, and tremolite. To be considered asbestos containing, a material must be determined to contain greater than one percent asbestos. Samples are retained for a period of 2 months.

The quality control data related to the samples analyzed are available for review upon the written request of the client. ProScience Analytical Services, Inc. and its personnel assume no responsibility for potential sample contamination, misuse, misinformation, or misrepresentation by the client. The enclosed results may not be used under any circumstances as product endorsement by any US government agency including NIST/NVLAP. This report may not be reproduced, except in its entirety, without permission of the ProScience Analytical Services, Inc. Laboratory Director.

Please contact me if you have any questions regarding this report or related information.

Sincerely,

Mark Derosier, Senior Analyst
Aimee Cormier, Laboratory Manager

Enclosure:

BATCH NUMBER : NT 17621 CLIENT PROJECT ID: WORC0006
Client Ref: Former St Vincent's Nurses Wing, Worcester, MA
CT ID# PH-0209; MA ID# AA000156; ME ID# LB-055; ME ID# LA-056; VT ID# AL016876; RI ID# 186.

ProScience Analytical Services, Inc.

22 Cummings Park, Woburn, Massachusetts 01801
781-935-3212 ~ Fax: 781-932-4857 ~ E-Mail general@proscience.net

Laboratory Report

Client Project #: WORC0006
Client Reference: Former St Vincent's Nurses Wing, Worcester, MA
PO #: N/A
Client #: 929
Client Name: Wilcox & Barton, Inc., NH

Batch: NT 17621
Method: NOB
Date Received: 12/27/2018
Date Analyzed: 1/4/2019
Date of Report: 1/4/2019

LAB ID	Field ID	Description:	Color	Initial Weight	% Asbestos Types						% Other Non-asb.	% Organic	% Carb.	Total % Asbestos	Analyzed / Charged	Preped / Charged
					CHR	AMO	ACT	CRO	ANT	TRE						
NT132655	B010	Red 9x9 Floor Tile, Rm 4		.1450	38.86	.00	.00	.00	.00	.00	16.66	37.24	7.24	38.86	Yes	No
NT132656	B011	Grey 9x9 Floor Tile, Rm 4		.1942	31.62	.00	.00	.00	.00	.00	31.61	31.36	5.41	31.62	Yes	No
NT132657	B012	Mastic on Tile, Rm 4		.1063	2.30	.00	.00	.00	.00	.00	13.03	78.74	5.93	2.30	Yes	No
NT132658	B013	Black Floor Tile, Rm 4		.3241	12.41	.00	.00	.00	.00	.00	49.64	32.58	5.37	12.41	Yes	No
NT132659	B014	Multi-colored Square Floor Tiles, Rm 3		.1126	.17	.00	.00	.00	.00	.00	8.44	78.86	12.70	TR	Yes	No
NT132660	B015	Fabric Backing on Floor Tiles, Rm 3		.1532	.15	.00	.00	.00	.00	.00	5.15	60.12	34.73	TR	Yes	No
NT132661	B017	Grey Stair Tread, Rm 2 - Stairs		.1752	.18	.00	.00	.00	.00	.00	17.81	57.13	25.06	TR	Yes	No
NT132662	B018	Black 9x9 Floor Tile, Rm 11		.3393	41.98	.00	.00	.00	.00	.00	17.99	33.69	6.34	41.98	Yes	No
NT132663	B019	Brown 9x9 Floor Tile, Rm 11		.2206	43.22	.00	.00	.00	.00	.00	18.53	31.41	6.84	43.22	Yes	No
NT132664	B020	Mastic on Brown 9x9 Floor Tile, Rm 11		.1851	.64	.00	.00	.00	.00	.00	6.38	86.76	6.86	TR	Yes	No
NT132665	B021	Black Cove Base, Rm 11		.2740	13.95	.00	.00	.00	.00	.00	9.30	34.71	42.04	13.95	Yes	No
NT132666	B022	Mastic on Black Cove Base, Rm 11		.1774	.00	.00	.00	.00	.00	.00	54.46	40.47	5.07	ND	Yes	No
NT132667	B023	Brown & Yellow Square Linoleum on Stairs, Rm 6 - Staircase		.2410	.09	.00	.00	.00	.00	.00	9.42	70.66	19.92	TR	Yes	No
NT132668	B024	Dark Brown 9x9 Tile, Rm 6		.3469	24.04	.00	.00	.00	.00	.00	16.03	23.58	36.35	24.04	Yes	No
NT132669	B025	Tan 9x9 Floor Tile, Rm 6		.2038	27.89	.00	.00	.00	.00	.00	11.95	22.72	37.44	27.89	Yes	No

ProScience Analytical Services, Inc.

22 Cummings Park, Woburn, Massachusetts 01801
781-935-3212 ~ Fax: 781-932-4857 ~ E-Mail general@proscience.net

Laboratory Report

Client Project #: WORC0006
Client Reference: Former St Vincent's Nurses Wing, Worcester, MA
PO #: N/A
Client #: 929
Client Name: Wilcox & Barton, Inc., NH

Batch: NT 17621
Method: NOB
Date Received: 12/27/2018
Date Analyzed: 1/4/2019
Date of Report: 1/4/2019

LAB ID	Field ID	Description:	Color	Initial Weight	% Asbestos Types						% Other Non-asb.	% Organic	% Carb.	Total % Asbestos	Analyzed / Charged	Preped / Charged
					CHR	AMO	ACT	CRO	ANT	TRE						
NT132670	B026	Mastic on Tan 9x9 Floor Tile		.0362	1.49	.00	.00	.00	.00	.00	8.46	83.70	6.35	1.49	Yes	No
NT132671	B028	Green 9x9 Floor Tile, Rm 7		.2210	37.41	.00	.00	.00	.00	.00	24.94	31.90	5.75	37.41	Yes	No
NT132672	B030	Black 9x9 Floor Tile, Rm 7		.3377	40.67	.00	.00	.00	.00	.00	17.43	18.18	23.72	40.67	Yes	No
NT132673	B029	Mastic on Green 9x9 Floor Tile, Rm 7		.1831	4.62	.00	.00	.00	.00	.00	26.18	56.47	12.73	4.62	Yes	No
NT132674	B031	Grey 9x9 Floor Tile, Rm 8		.2403	36.80	.00	.00	.00	.00	.00	24.54	32.58	6.08	36.80	Yes	No
NT132675	B032	Mastic on Grey 9x9 Floor Tile, Rm 8		.1075	5.06	.00	.00	.00	.00	.00	7.59	82.42	4.93	5.06	Yes	No
NT132676	B033	Black Cove Base at Stairs, Rm 2		.3112	.00	.00	.00	.00	.00	.00	8.87	58.77	32.36	ND	Yes	No
NT132677	B034	Mastic on Black Cove Base at Stairs, Rm 2		.2544	1.08	.00	.00	.00	.00	.00	52.77	42.10	4.05	1.08	Yes	No
NT132678	B035	Black Floor Tile Trim (Perimeter), Rm 7		.2910	40.63	.00	.00	.00	.00	.00	17.41	35.02	6.94	40.63	Yes	No
NT132679	B036	Vibration Dampening Cloth on HVAC, Rm 12		.1569	.10	.00	.00	.00	.00	.00	1.27	88.34	10.39	TR	Yes	No
NT132680	B037	White Cove Base, Rm 16		.2992	.04	.00	.00	.00	.00	.00	2.17	27.54	70.29	TR	Yes	No
NT132681	B038	Mastic on White Cove Base, Rm 16		.2508	.00	.00	.00	.00	.00	.00	23.77	73.68	2.55	ND	Yes	No
NT132682	B039	Sink Undercoating, Rm 16		.1165	.58	.00	0	0	0	0	57.77	26.44	15.79	TR	Yes	No
NT132683	B040	Red 9x9 Floor Tile, Rm 16		.3971	44.16	.00	.00	.00	.00	.00	18.92	31.08	5.84	44.16	Yes	No
NT132684	B041	Grey 9x9 Floor Tile, Rm 16		.3668	38.08	.00	.00	.00	.00	.00	25.39	31.76	4.77	38.08	Yes	No

ProScience Analytical Services, Inc.

22 Cummings Park, Woburn, Massachusetts 01801
781-935-3212 ~ Fax: 781-932-4857 ~ E-Mail general@proscience.net

Laboratory Report

Client Project #: WORC0006
Client Reference: Former St Vincent's Nurses Wing, Worcester, MA
PO #: N/A
Client #: 929
Client Name: Wilcox & Barton, Inc., NH

Batch: NT 17621
Method: NOB
Date Received: 12/27/2018
Date Analyzed: 1/4/2019
Date of Report: 1/4/2019

LAB ID	Field ID	Description:	Color	Initial Weight	% Asbestos Types						% Other Non-asb.	% Organic	% Carb.	Total % Asbestos	Analyzed / Charged	Preped / Charged
					CHR	AMO	ACT	CRO	ANT	TRE						
NT132685	B042	Mastic on Grey 9x9 Floor Tile, Rm 16		.0411	1.17	.00	.00	.00	.00	.00	10.51	80.05	8.27	1.17	Yes	No
NT132686	B043	Green 9x9 Floor Tile, Rm 16		.2828	.00	.00	.00	.00	.00	.00	51.98	21.89	26.13	ND	Yes	No
NT132687	B044	Mastic on Green 9x9 Floor Tile, Rm 16		.1934	.47	.00	.00	.00	.00	.00	47.26	46.59	6.15	TR	Yes	No
NT132688	B045	Mastic on Green Stair Tread, Rm 16		.4399	.27	.00	.00	.00	.00	.00	54.38	42.21	3.41	TR	Yes	No
NT132689	B047	Brown 9x9 Floor Tile, Rm 23		.2487	41.53	.00	.00	.00	.00	.00	22.36	31.85	4.26	41.53	Yes	No
NT132690	B048	Mastic on Brown 9x9 Floor Tile, Rm 23		.0185	5.62	.00	.00	.00	.00	.00	8.43	66.49	19.46	5.62	Yes	No
NT132691	B051	Carpet Mastic, Rm 20B		.3767	.11	.00	.00	.00	.00	.00	21.16	73.48	5.36	TR	Yes	No
NT132692	B052	Mastic on Beige Stair Tread, Rm 26 - Stairs		.1658	.24	.00	.00	.00	.00	.00	47.22	49.10	3.68	TR	Yes	No
NT132693	B055	Beige Stair Tread, Rm 26 - Stairs		.5247	.00	.00	.00	.00	.00	.00	33.87	32.95	33.18	ND	Yes	No
NT132694	B053	Stair Tread, Rm 26 - Stairs		.2578	.23	.00	.00	.00	.00	.00	45.97	43.83	10.20	TR	Yes	No
NT132695	B054	Carpet Mastic, Rm 27		.2426	1.28	.00	.00	.00	.00	.00	41.46	45.59	11.67	1.28	Yes	No
NT132696	B056	Black Cove Base on Stairs, Rm 26 - Stairs		.3075	.00	.00	.00	.00	.00	.00	.06	33.37	66.57	ND	Yes	No
NT132697	B057	Mastic on Black Cove Base on Stairs, Rm 26 - Stairs		.2223	.94	.00	.00	.00	.00	.00	47.01	43.68	9.31	TR	Yes	No
NT132698	B058	Carpet Mastic, Rm 30		.0706	.88	.00	.00	.00	.00	.00	43.77	47.73	8.50	TR	Yes	No
NT132699	B059	Dark Brown 9x9 Floor Tile under B054, Rm 27		.0711	37.64	.00	.00	.00	.00	.00	25.09	31.22	6.05	37.64	Yes	No

ProScience Analytical Services, Inc.

22 Cummings Park, Woburn, Massachusetts 01801
781-935-3212 ~ Fax: 781-932-4857 ~ E-Mail general@proscience.net

Laboratory Report

Client Project #: WORC0006
Client Reference: Former St Vincent's Nurses Wing, Worcester, MA
PO #: N/A
Client #: 929
Client Name: Wilcox & Barton, Inc., NH

Batch: NT 17621
Method: NOB
Date Received: 12/27/2018
Date Analyzed: 1/4/2019
Date of Report: 1/4/2019

LAB ID	Field ID	Description:	Color	Initial Weight	% Asbestos Types						% Other Non-asb.	% Organic	% Carb.	Total % Asbestos	Analyzed / Charged	Preped / Charged
					CHR	AMO	ACT	CRO	ANT	TRE						
NT132700	B060	Orange 9x9 Floor Tile under B054, Rm 27		.1655	36.94	.00	.00	.00	.00	.00	24.63	31.12	7.31	36.94	Yes	No
NT132701	B061	Mastic on Orange 9x9 Floor Tile under B054, Rm 27		.0581	.57	.00	.00	.00	.00	.00	5.68	85.71	8.61	TR	Yes	No
NT132702	B062	Black Flooring on Stairs, Rm 30		.2624	.00	.00	.00	.00	.00	.00	22.26	15.93	61.81	ND	Yes	No
NT132703	B063	Mastic on Black Flooring on Stairs, Rm 30		.0830	.24	.00	.00	.00	.00	.00	48.20	48.55	3.25	TR	Yes	No
NT132704	B064	Tan 9x9 Floor Tile, Rm 32		.2295	34.98	.00	.00	.00	.29	.00	23.03	23.18	18.52	35.27	Yes	No
NT132705	B066	Mastic on Tan 9x9 Floor Tile, Rm 32		.0536	2.07	.00	.00	.00	.00	.00	11.73	80.60	5.60	2.07	Yes	No
NT132706	B065	Brown 9x9 Floor Tile, Rm 32		.0777	38.80	.00	.00	.00	.00	.00	12.94	22.91	25.35	38.80	Yes	No
NT132707	B067	Brown Flooring on Stairs to 2nd Fl, Rm 32		.1849	.01	.00	.00	.00	.00	.00	2.06	69.82	28.12	TR	Yes	No
NT132708	B068	Mastic on Brown Flooring on Stairs to 2nd Fl, Rm 32		.1311	.00	.00	.00	.00	.00	.00	56.60	35.39	8.01	ND	Yes	No
NT132709	B069	Brown 9x9 Floor Tile, Rm 32		.0966	.00	.00	.00	.00	.00	.00	2.59	68.84	28.57	ND	Yes	No
NT132710	B070	Mastic on Brown 9x9 Floor Tile, Rm 32		.0510	.24	.00	.00	.00	.00	.00	48.43	40.00	11.57	TR	Yes	No
NT132711	B073	Black Paper under B069/B070, Rm 32		.0578	.05	.00	.00	.00	.00	.00	9.34	89.62	1.04	TR	Yes	No
NT132712	B071	Grey Stair Tread, Rm 32		.0914	.00	.00	.00	.00	.00	.00	42.13	27.02	30.85	ND	Yes	No
NT132713	B072	Mastic on Grey Stair Tread, Rm 32		.1270	.43	.00	.00	.00	.00	.00	43.47	52.44	4.09	TR	Yes	No
NT132714	B077	Black Paper under Hallway Rug, Rm 54		.1883	.36	.00	.00	.00	.00	.00	17.79	73.61	8.60	TR	Yes	No

ProScience Analytical Services, Inc.

22 Cummings Park, Woburn, Massachusetts 01801
781-935-3212 ~ Fax: 781-932-4857 ~ E-Mail general@proscience.net

Laboratory Report

Client Project #: WORC0006
Client Reference: Former St Vincent's Nurses Wing, Worcester, MA
PO #: N/A
Client #: 929
Client Name: Wilcox & Barton, Inc., NH

Batch: NT 17621
Method: NOB
Date Received: 12/27/2018
Date Analyzed: 1/4/2019
Date of Report: 1/4/2019

LAB ID	Field ID	Description:	Color	Initial Weight	% Asbestos Types						% Other Non-asb.	% Organic	% Carb.	Total % Asbestos	Analyzed / Charged	Preped / Charged
					CHR	AMO	ACT	CRO	ANT	TRE						
NT132715	B081	White 12x12 Floor Tile, Rm 45		.4134	.00	.00	.00	.00	.00	.00	37.32	16.72	45.96	ND	Yes	No
NT132716	B082	Mastic on White 12x12 Floor Tile, Rm 45		.0898	1.95	.00	.00	.00	.00	.00	46.71	39.42	11.92	1.95	Yes	No
NT132717	B099	Floor Tile under B081/B082, Rm 45		.0909	21.87	.00	.00	.00	.00	.00	9.38	26.07	42.68	21.87	Yes	No
NT132718	B100	Mastic on Floor Tile under B081/B082, Rm 45		.0375	1.51	.00	.00	.00	.00	.00	17.42	72.00	9.07	1.51	Yes	No
NT132719	B091	Kitchen Sink Undercoating, Rm 63		.3942	8.57	.00	.00	.00	.00	.00	48.56	21.13	21.74	8.57	Yes	No
NT132720	B093	Yellow Pebbled Linoleum, Rm 78		.1195	7.56	.00	.00	.00	.00	.00	3.24	40.50	48.70	7.56	Yes	No
NT132721	B101	Felt Paper under Yellow Pebbled Linoleum, Rm 78		.1709	.31	.00	.00	.00	.00	.00	15.74	82.62	1.64	TR	Yes	No
NT132722	B094	Kitchen Sink Undercoating, Rm 76		.1648	.22	.00	.00	.00	.00	.00	43.08	24.94	31.98	TR	Yes	No
NT132723	B095	12x12 Floor Tile under Carpet, Rm 76		.2462	41.66	.00	.00	.00	.00	.00	22.43	22.71	13.20	41.66	Yes	No
NT132724	B096	Mastic on 12x12 Floor Tile under Carpet, Rm 76		.1089	.95	.00	.00	.00	.00	.00	47.29	46.92	5.79	TR	Yes	No
NT132725	B076A	Carpet Mastic, Rm 34		.3114	2.75	.00	.00	.00	.00	.00	31.61	51.12	14.52	2.75	Yes	No
NT132726	B076B	Carpet Mastic, Rm 35		.4796	.23	.00	.00	.00	.00	.00	46.35	30.65	23.00	TR	Yes	No
NT132727	B097	Carpet Mastic on B095, Rm 76		.1413	.19	.00	.00	.00	.00	.00	37.16	21.37	41.47	TR	Yes	No
NT132728	B102	Beige 9x9 Floor Tile, Rm 112		.3408	36.03	.00	.00	.00	1.11	.00	18.29	23.00	21.57	37.14	Yes	No
NT132729	B103	Mastic on Beige 9x9 Floor Tile, Rm 112		.0206	11.46	.00	.00	.00	.14	.00	17.04	60.19	11.17	11.60	Yes	No

ProScience Analytical Services, Inc.

22 Cummings Park, Woburn, Massachusetts 01801
 781-935-3212 ~ Fax: 781-932-4857 ~ E-Mail general@proscience.net

Laboratory Report

Client Project #: WORC0006
 Client Reference: Former St Vincent's Nurses Wing, Worcester, MA
 PO #: N/A
 Client #: 929
 Client Name: Wilcox & Barton, Inc., NH

Batch: NT 17621
 Method: NOB
 Date Received: 12/27/2018
 Date Analyzed: 1/4/2019
 Date of Report: 1/4/2019

LAB ID	Field ID	Description:	Color	Initial Weight	% Asbestos Types						% Other Non-asb.	% Organic	% Carb.	Total % Asbestos	Analyzed / Charged	Preped / Charged
					CHR	AMO	ACT	CRO	ANT	TRE						
NT132730	B120	Paper on B102/B103, Rm 112		.1836	.16	.00	.00	.00	.00	.00	3.21	94.99	1.80	TR	Yes	No
NT132731	B104	Light Blue/Green 12x12 Floor Tile, Rm 92		.3036	.00	.00	.00	.00	.00	.00	5.30	15.22	79.48	ND	Yes	No
NT132732	B105	Beige Flooring Material under B104, Rm 92		.4199	.07	.00	.00	.00	.00	.00	7.36	58.16	34.48	TR	Yes	No
NT132733	B121	Black Paper under B104/B105, Rm 92		.2976	.00	.00	.00	.00	.00	.00	21.47	75.37	3.16	ND	Yes	No
NT132734	B109	Dark Green 9x9 Floor Tile, Rm 119		.1799	23.89	.00	.00	.00	.00	.00	10.24	25.74	40.13	23.89	Yes	No
NT132735	B110	Mastic on Dark Green 9x9 Floor Tile, Rm 119		.0258	14.38	.00	.00	.00	.00	.00	6.17	68.60	10.85	14.38	Yes	No
NT132736	B122	Black Paper under B109/B110, Rm 119		.1095	.11	.00	.00	.00	.00	.00	2.28	95.80	1.92	TR	Yes	No
NT132737	B111	Beige 9x9 Floor Tile, Rm 121		.2311	7.18	.00	.00	.00	.00	.00	16.75	.00	76.07	7.18	Yes	No
NT132738	B112	Mastic on Beige 9x9 Floor Tile, Rm 121		.0144	1.81	.00	.00	.00	.00	.00	16.24	66.67	15.28	1.81	Yes	No
NT132739	B115	Dark Grey 9x9 Floor Tile, Rm 128B		.2667	8.84	.00	.00	.00	.00	.00	35.37	24.56	31.23	8.84	Yes	No
NT132740	B116	Mastic on Dark Grey 9x9 Floor Tile, Rm 128B		.0129	2.17	.00	.00	.00	.00	.00	19.53	66.67	11.63	2.17	Yes	No
NT132741	B117	Light Grey 9x9 Floor Tile, Rm 131		.0981	35.18	.00	.00	.00	.00	.00	15.08	27.01	22.73	35.18	Yes	No
NT132742	B118	Mastic on Light Grey 9x9 Floor Tile, Rm 131		.0677	.89	.00	.00	.00	.00	.00	8.86	87.59	3.55	TR	Yes	No
NT132743	B119	Blue Linoleum, Rm 145		.2322	.00	.00	.00	.00	.00	.00	5.69	58.44	35.87	ND	Yes	No
NT132744	B123	Black Flooring under B119, Rm 145		.1838	.00	.00	.00	.00	.00	.00	15.83	81.34	2.83	ND	Yes	No

ProScience Analytical Services, Inc.

22 Cummings Park, Woburn, Massachusetts 01801
 781-935-3212 ~ Fax: 781-932-4857 ~ E-Mail: general@proscience.net

REVISED
 2/15/19 ALU

Laboratory Report

Client Project #: WORC0006
 Client Reference: Former St Vincent's Nurses Wing, Worcester, MA
 PO #: N/A
 Client #: 929
 Client Name: Wilcox & Barton, Inc., NH

Batch: NT 17621
 Method: NOB
 Date Received: 12/27/2018
 Date Analyzed: 1/4/2019
 Date of Report: 1/4/2019

LAB ID	Field ID	Description:	Color	Initial Weight	% Asbestos Types						% Other Non-asb.	% Organic	% Carb.	Total % Asbestos	Analyzed / Charged	Preped / Charged
					CHR	AMO	ACT	CRO	ANT	TRE						
NT132745	B124	Grey Stair Tread, Rm 109		.1232	.02	.00	.00	.00	.00	.00	3.32	73.30	23.38	TR	Yes	No
NT132746	B127	Brown 12x12 Floor Tile, Rm 177		.2477	25.53	.00	.00	.00	.00	.00	38.29	24.71	11.47	25.53	Yes	No
NT132747	B128	White 12x12 Floor Tile, Rm 177		.0768	23.80	.00	.00	.00	.00	.00	35.70	29.43	11.07	23.80	Yes	No
NT132749	B133	Beige 12x12 Floor Tile, Rm 198		.2251	21.80	.00	.00	.00	.00	.00	40.48	23.46	14.26	21.80	Yes	No
NT132750	B134	Mastic on Beige 12x12 Floor Tile, Rm 198		.0234	3.18	.00	.00	.00	.00	.00	23.32	70.51	2.99	3.18	Yes	No
NT132751	B135	Dark Green Linoleum, Rm 213		.1873	.02	.00	.00	.00	.00	.00	3.63	59.74	36.63	TR	Yes	No

Comments: Sample B129 contained insufficient volume for analysis.

Key: CHR = Chrysotile AMO = Amosite CRO = Crocidolite ACT = Actinolite TRE = Tremolite ANT = Anthophyllite TR = Trace = < 1% ND = None Detected


 Mark Derosier, Analyst

TEM

Chain of Custody
ver 3.1 Updated 7/11/11

Off-hours work is available
but subject to PASI
approval and surcharges.

PASI Batch # NT 17621

Client	Name	Wilcox & Barton, Inc.
	Address	#1B Commons Drive, Unit 12B Londonderry, NH 03053
	Job #	WORC0006
	Job Name	Former St Vincent's Nurses Wing Worcester, MA
	PO #	

Results

Tel	Fax	Email	HC
		X	

Final Report

Email	Hard Copy
X	

Analysis	Air	Water	Bulk
	AHERA Clearance Set	Drinking (EPA 100.2)	NOB <input checked="" type="checkbox"/>
	AHERA Method (no set)	Waste (EPA 100.1)	Qualitative
	NIOSH 7402 (PCM Equiv.)	Dust	Soil
	ISO 10312 (direct)	ASTM D6480	Stop 1st Pos
	ISO 13794 (indirect)	ASTM D5755	Other in Comments

Contact	Name	Paul Plagge	
	Phone/Fax	(603) 369-4190	x506
	Email	pplagge@wilcoxandbarton.com	

Relinquished By Paul Plagge Date / Time 12/21/18
 Received By Doreen Townsend Date / Time 12.27.18 @ 1:00
 Relinquished By _____ Date / Time _____
 Received By _____ Date / Time _____

Sample ID	Description	Type In, Out, Blk, Pnl, Area	Location / Date & Time Collected	Volume or Area	Comments
B010	Red 9x9 ^{Floor} Tile		Rm 4 11/30/18		
B011	Grey 9x9 ^{Floor} Tile		Rm 4		
B012	Mastic on Tile		Rm 4		
B013	Black Tile Floor Tile		Rm 4		
B014	Multi-colored Square Floor Tiles		Rm 3		
B015	Fabric Backing on Floor Tiles		Rm 3		
B017	Grey Stair Tread		Rm 2 - stairs		
B018	Black 9x9 Floor Tile		Rm 11		
B019	Brown 9x9 Floor Tile		Rm 11		
B020	Mastic on 9x9 Floor Tile		Rm 11		
B021	Black Cove Base		Rm 11		
B022	Mastic on Cove Base		Rm 11		
B023	Brown & Yellow Square Limestone on stairs		Rm 6 - Staircase		

Client / Job
Information

Sample ID	Description	Type	Location / Date & Time Collected	Volume or Area	Comments
B024	Dark Brown 9x9 Floor Tile		Room 6		
B025	Tan 9x9 Floor Tile		Room 6		
B026	Mastic on Floor Tile		Room 6		
B028	Green 9x9 Floor Tile		Rm 7		
B030	Black 9x9 Floor Tile		Rm 7		
B029	Mastic on Floor Tile		Rm 7		
B031	Grey 9x9 Floor Tile		Rm 8		
B032	Mastic on Floor Tile		Rm 8		
B033	Black Cove Base at stairs		Rm 2		
B034	Mastic on Cove Base (B033)		Rm 2		
B035	Black Floor Tile Trim (Perimeter)		Rm 7		
B035	Black Floor Tile Trim		Rm 7		PHP
B036	Vibration Dampening Cloth on HVAC		Rm 12		
B037	White Cove Base		Rm 16		
B038	Mastic on Cove Base		Rm 16		
B039	Sink Undercoating		Rm 16		
B040	Red 9x9 Floor Tile		Rm 16		
B041	Grey 9x9 Floor Tile		Rm 16		
B042	Mastic on Floor Tile		Rm 16		
B043	Green 9x9 Floor Tile.		Rm 16		

Client / Job
Information

Sample ID	Description	Type	Location / Date & Time Collected	Volume or Area	Comments
B044	Mastic on Floor tile		Rm 16		
B045	Mastic on Green Stair Tread		Rm 16		
B047	Brown 9x9 Floor Tile		Rm 23		
B048	Mastic on Floor Tile		Rm 23		
B051	Carpet Mastic		Rm 20B		
B052	Mastic on Beige Stair Tread		Rm 26 - Stairs		
B055	Beige Beige Stair Tread		Rm 26 - Stairs		
B053	Stair Tread		Rm 26 - Stairs		
B054	Carpet Mastic		Rm 27		
B056	Black Cove Base on Stairs		Rm 26 - Stairs		
B057	Mastic on Cove Base		Rm 26 - Stairs		
B058	Carpet Mastic		Rm 30		
B059	Dark Brown 9x9 Floor Tile under B054		Rm 27		
B060	Orange 9x9 Floor Tile under B054		Rm 27		
B061	Mastic on Floor Tile		Rm 27		
B062	Black Flooring on Stairs		Rm 30		
B063	Mastic on Black Flooring		Rm 30		
B064	Tan 9x9 Floor Tile		Rm 32		
B066	Mastic on Floor Tile		Rm 32		
B065	Brown 9x9 Floor Tile		Rm 32		

Client / Job
Information

Sample ID	Description	Type	Location / Date & Time Collected	Volume or Area	Comments
B067	Brown Flooring on Stairs to 2 nd FL		Rm 32		
B068	Mastic on Brown Floor	Flooring	Rm 32		
B069	Brown 9x9 Floor	Tile	Rm 32		
B070	Mastic on Floor	Tile	Rm 32		
B073	Black Paper under	B069/B070	Rm 32		
B071	Grey Stair Tread		Rm 32		
B072	Mastic on Stair Tread		Rm 32		
B077	Black Paper under	Hillway Rug	Rm 54		
B081	White 12x12 Floor	Tile	Rm 45		
B082	Mastic on Floor	Tile	Rm 45		
B099	Floor Tile under	B081/B082	Rm 45		
B100	Mastic on Floor	Tile	Rm 45		
B087	Setting Mud on	Black Ceramic Tile			POP
B088					POP
B091	Kitchen sink under	carpet	Rm 63		
B093	Yellow Pebbled Linoleum		Rm 78		
B101	Mastic under	B093	Rm 78		
B094	Kitchen sink under	carpet	Rm 76		
B095	12x12 Floor Tile under	Carpet	Rm 76		
B096	Mastic on Floor	Tile	Rm 76		

TEM

Chain of Custody

ver 3.1 Updated 7/11/11

Off-hours work is available
but subject to PASI
approval and surcharges.

PASI Batch #

NT17621

Client / Job
Information

Sample ID	Description	Type	Location / Date & Time Collected	Volume or Area	Comments
B076A	Carpet Mastic		Rm 34		
B076B	Carpet Mastic		Rm 35		
B097	Carpet Mastic on	B095	Rm 76		
B102	Beige 9x9 Floor Tile		Rm 112		
B103	Mastic on Floor Tile		Rm 112		
B120	Paper on	B102/B103	Rm 112		
B104	Light Blue/Green 12x12 Floor Tile		Rm 92		
B105	Beige Floor Material	under B104	Rm 92		
B121	Black Paper	under B104/B105	Rm 92		
B109	Dark Green 9x9 Floor Tile		Rm 119		
B110	Mastic on Floor Tile		Rm 119		
B122	Black Paper	under B109/B110	Rm 119		
B111	Beige 9x9 Floor Tile		Rm 121		
B112	Mastic on Floor Tile		Rm 121		
B115	Dark Grey 9x9 Floor Tile		Rm 128B		
B116	Mastic on Floor Tile		Rm 128B		
B117	Light Grey 9x9 Floor Tile		Rm 131		
B118	Mastic on Floor Tile		Rm 131		
B119	Blue Linoleum		Rm 145		
B123	Black Floor Material	under B119	Rm 145		



ProScience Analytical Services, Inc.
22 Cummings Park, Woburn, MA 01801

Telephone: 781-935-3212
Facsimile: 781-932-4857
Email: chemistry@proscience.net

Laboratory Report

Contact: Paul Plagge
Client: Wilcox & Barton, Inc.
Address: #1B Commons Drive, Unit 12B
Londonderry, NH 03053

Batch #: C 297931
Date received: 12/27/2018
Date analyzed: 12/27/2018
Date of report: 12/27/2018

Project # WORC0006
P.O.# N/A
Project Site: Former St. Vincents Nurses Wing
Worcester, MA

AIHA-LAP, LLC Lab ID 102754

Lead Analysis In Paint Using SOP Based on SW846-7420/3051 Results in weight percent on an "as received" weight basis

Lab ID	Client ID	Sample date	Description	Result	Reporting Limit	Comments
C 615778	PC-1	11/30/18	Yellow on Exterior Column	34.2	0.0091	
C 615779	PC-2	11/30/18	Light Blue on Hallway Trim Rm 24	13.4	0.012	
C 615780	PC-3	11/30/18	Beige on Lower Walls Rm 24	0.18	0.0095	paint+plaster
C 615781	PC-4	11/30/18	White on Upper Walls Rm 24	0.13	0.010	paint+plaster
C 615782	PC-5	11/30/18	Green / Red /Orange / Beige on Walls Rm 20	0.40	0.0079	
C 615783	PC-6	11/30/18	White on Doors - Stairways Rm 24	6.47	0.0086	
C 615784	PC-7	11/30/18	Light Green on Walls Rm 15	3.21	0.0093	
C 615785	PC-8	11/30/18	Forest Green on Walls Rm 9	0.64	0.013	
C 615786	PC-9	11/30/18	Brown of Door Rm 10	2.65	0.010	
C 615787	PC-10	11/30/18	Beige on Door Trim Rm 11	1.54	0.019	

Simona Peavey, Tech. Manager Chemistry
Aimee Cormier, Lab Director

Page 1 of 2

Unless otherwise indicated, all samples were received in acceptable condition.
All result apply only to the samples as received and are accurate to no more than three significant figures.
Unless otherwise indicated, all the quality control criteria for the method above have been met.
RL-Reporting Limit(%by weight) Note on units: mg/Kg is the same as ppm by weight.



ProScience Analytical Services, Inc.
 22 Cummings Park, Woburn, MA 01801

Telephone: 781-935-3212
 Facsimile: 781-932-4857
 Email: chemistry@proscience.net

Laboratory Report

Contact: Paul Plagge
Client: Wilcox & Barton, Inc.
Address: #1B Commons Drive, Unit 12B
 Londonderry, NH 03053

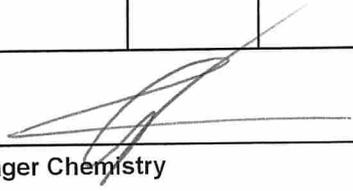
Batch #: C 297931
Date received: 12/27/2018
Date analyzed: 12/27/2018
Date of report: 12/27/2018

Project # WORC0006
P.O.# N/A
Project Site: Former St. Vincents Nurses Wing
 Worcester, MA

AIHA-LAP, LLC Lab ID 102754

Lead Analysis In Paint Using SOP Based on SW846-7420/3051
 Results in weight percent on an "as received" weight basis

Lab ID	Client ID	Sample date	Description	Result	Reporting Limit	Comments
C 615788	PC-11	11/30/18	White on Window Trim Rm 76	0.97	0.023	
C 615789	PC-12	11/30/18	Light Blue on Trim Rm 54	<RL	0.017	
C 615790	PC-13	11/30/18	White on Ceiling Rm 76	<RL	0.010	
C 615791	PC-14	11/30/18	White on Walls Rm 112	7.3	0.013	
C 615792	PC-15	11/30/18	Pink on Walls Rm 112	11	0.027	
C 615793	PC-16	11/30/18	Red on Door Trim Rm 112	0.21	0.011	
C 615794	PC-17	11/30/18	Lime Green Walls / Trim Rm 170	0.78	0.017	



 Simona Peavey, Tech. Manager Chemistry
 Aimee Cormier, Lab Director

Unless otherwise indicated, all samples were received in acceptable condition.
 All result apply only to the samples as received and are accurate to no more than three significant figures.
 Unless otherwise indicated, all the quality control criteria for the method above have been met.
RL-Reporting Limit(%by weight) Note on units: mg/Kg is the same as ppm by weight.

ProScience Analytical Services, Inc.

Chemistry Chain of Custody Record

LABORATORY/HEADQUARTERS

22 Cummings Park, Woburn, MA 01801
T:781-935-3212 F:781-932-4857

CONSULTING SERVICES

683 North Mountain Rd., Newington, CT 06111
T:860-953-1022 F: 860-953-1030

Rush/<6 Hours

Turn Around Time Requested (circle)

Same Day

Next Day

2 Day

3 Day

5 Days

Client:

Wilcox & Barton, Inc.

Address: Street #1B Commons Drive, Unit 12B
Town Londonderry State/Zip NH 03053

Project Site Line 1 Former St Vincents Nurses Wing Project Number WORC0006

Line 2 Worcester MA Purchase Order

Contact: Paul Plagge Phone (603) 369-4190 x506 FAX

Alt/Pager (978) 618-4558

NELAC analysis

TYPE OF ANALYSIS (circle)		
DUST WIPES	PAINT (0.1 g)	SOIL (1 g)
AIR	TSP	TCLP (100g)
(min)	PM10	Other

Please use a separate form for each matrix.

Element gravimetric

Pb Cd Cr As

Se Ag Ba Hg

Other (please specify under Comments)

For Laboratory Use

BATCH NUMBER

QC

C 297131

ASTM E1792 FOR LABORATORY USE ONLY

Date and Time Sampled	Field I.D.	Sample Description/Location	Air Sampling Information					Wiped area			ANALYSIS			Lab I.D.		
			Start Time	End Time	Start Flowrate	End Flowrate	Volume (liters)	length (inch)	width (inch)	Area (sq in)	Weight (grams)	Dil'n	AA Reading		RESULT	
11/30/18	PC-1	Yellow on Exterior windows Column	11/30/18													615778
	PC-2	Light Blue on Hallway Trim Rm 24														79
	PC-3	Beige on lower walls Rm 24														80
	PC-4	White on upper walls Rm 24														81
	PC-5	Green/Red/orange/Beige on walls Rm 20														82
	PC-6	White on Doors - stairwells Rm 24														83
	PC-7	Light Green on walls Rm 15														84
	PC-8	Forest Green on walls Rm 9														85
	PC-9	Brown on Door Rm 10														86
	PC-10	Beige on Door Trim Rm 11														87

Relinquished By: Paul Plagge 12/21/18

Received By: Dawn Decker

Date: 12/21/18

Date: 12/27/18

Time: _____

Time: 1:00

Comments: _____

PAGE

OF 2

ver 4.8

For complete information about our services and locations please visit us at www.proscience.net or call the us at the numbers above.

ProScience Analytical Services, Inc.
Chemistry Chain of Custody Record

LABORATORY/HEADQUARTERS

22 Cummings Park, Woburn, MA 01801
 T:781-935-3212 F:781-932-4857

CONSULTING SERVICES

683 North Mountain Rd., Newington, CT 06111
 T:860-953-1022 F: 860-953-1030

Rush/<6 Hours

Turn Around Time Requested (circle)

Same Day

Next Day

2 Day

3 Day

5 Days

Client:

Wilcox & Barton, Inc.

Address: Street #1B Commons Drive, Unit 12B

Town Londonderry State/Zip NH 03053

Project Site Line 1 Former St Vincents Nurses Wing Project Number WORC0006

Line 2 Worcester MA Purchase Order

Contact: Paul Plagge Phone (603) 369-4190 x506 FAX

Alt/Pager (978) 618-4558

NELAC analysis

TYPE OF ANALYSIS (circle)

DUST WIPES	PAINT (0.1 g)	SOIL (1 g)
AIR	TSP	TCLP (100g)
(min)	PM10	Other

Please use a separate form for each matrix.

Element gravimetric

Pb Cd Cr As

Se Ag Ba Hg

Other (please specify under Comments)

For Laboratory Use

BATCH NUMBER

QC

C297931

ASTM E1792 FOR LABORATORY USE ONLY

Date and Time Sampled	Field I.D.	Sample Description/Location	Air Sampling Information					Wiped area			ANALYSIS			Lab I.D.		
			Start Time	End Time	Start Flowrate	End Flowrate	Volume (liters)	length (inch)	width (inch)	Area (sq in)	Weight (grams)	Dil'n	AA Reading		RESULT	
11/30/18	PC-11	White on window trim Run 76														615788
	PC-12	Light Blue on trim Run 54														89
	PC-13	White on Ceiling Run 76														90
	PC-14	White on walls Run 112														91
	PC-15	Pink on walls Run 112														92
	PC-16	Red on Door Trim Run 112														93
	PC-17	lime Green walls/trim Run 170														94

Relinquished By: _____

Date: _____

Time: _____

Received By: _____

Date: _____

Time: _____

Comments: _____

PAGE 0 OF 2

ver 4.8

For complete information about our services and locations please visit us at www.proscience.net or call the us at the numbers above.

December 31, 2018

Paul Plagge
Wilcox & Barton
13 Sudbury Street
Maynard, MA 01754

Project Location: Former St. Vincent's Nurses Wing, Worcester, MA
Client Job Number:
Project Number: WORC0006
Laboratory Work Order Number: 18L1107

Enclosed are results of analyses for samples received by the laboratory on December 21, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Emily Snyder". The signature is written in a cursive style with a large, prominent "E" at the beginning.

Emily E. Snyder
Project Manager

Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	5
18L1107-01	5
18L1107-02	6
18L1107-03	7
Sample Preparation Information	8
QC Data	9
TCLP - Metals Analyses	9
B220106	9
Flag/Qualifier Summary	10
Certifications	11
Chain of Custody/Sample Receipt	12

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Wilcox & Barton
13 Sudbury Street
Maynard, MA 01754
ATTN: Paul Plagge

REPORT DATE: 12/31/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: WORC0006

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18L1107

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Former St. Vincent's Nurses Wing, Worcester, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1st Floor	18L1107-01	Product/Solid		SW-846 6010D	
2nd Floor	18L1107-02	Product/Solid		SW-846 6010D	
3rd & 4th Floors	18L1107-03	Product/Solid		SW-846 6010D	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 6010, only Pb was requested and reported.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "Lisa A. Worthington", is written over a light gray rectangular background.

Lisa A. Worthington
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former St. Vincent's Nurses Wing

Sample Description:

Work Order: 18L1107

Date Received: 12/21/2018

Field Sample #: 1st Floor

Sampled: 11/30/2018 15:00

Sample ID: 18L1107-01

Sample Matrix: Product/Solid

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	0.32	0.010	mg/L	1		SW-846 6010D	12/27/18	12/28/18 15:39	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former St. Vincent's Nurses Wing

Sample Description:

Work Order: 18L1107

Date Received: 12/21/2018

Field Sample #: 2nd Floor

Sampled: 11/30/2018 15:15

Sample ID: 18L1107-02

Sample Matrix: Product/Solid

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	0.26	0.010	mg/L	1		SW-846 6010D	12/27/18	12/28/18 15:46	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former St. Vincent's Nurses Wing

Sample Description:

Work Order: 18L1107

Date Received: 12/21/2018

Field Sample #: 3rd & 4th Floors

Sampled: 11/30/2018 15:30

Sample ID: 18L1107-03

Sample Matrix: Product/Solid

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	7.8	0.010	mg/L	1		SW-846 6010D	12/27/18	12/28/18 15:53	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3010A-SW-846 6010D

Leachates were extracted on 12/26/2018 per SW-846 1311 in Batch B220011

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18L1107-01 [1st Floor]	B220106	50.0	50.0	12/27/18
18L1107-02 [2nd Floor]	B220106	50.0	50.0	12/27/18
18L1107-03 [3rd & 4th Floors]	B220106	50.0	50.0	12/27/18

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

TCLP - Metals Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B220106 - SW-846 3010A										
Blank (B220106-BLK1)				Prepared: 12/27/18 Analyzed: 12/28/18						
Lead	ND	0.010	mg/L							U
LCS (B220106-BS1)				Prepared: 12/27/18 Analyzed: 12/28/18						
Lead	0.474	0.010	mg/L	0.500		94.8	80-120			
LCS Dup (B220106-BSD1)				Prepared: 12/27/18 Analyzed: 12/28/18						
Lead	0.469	0.010	mg/L	0.500		93.9	80-120	0.994	20	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
U	Analyte included in the analysis, but not detected

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
---------	----------------

SW-846 6010D in Water

Lead NY,CT,ME,NC,NH,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2019
NC	North Carolina Div. of Water Quality	652	12/31/2019
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2019
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

Proof of Delivery

Dear Customer,

This notice serves as proof of delivery for the shipment listed below.

Tracking Number

1Z8720AR0347517937

Weight

3.00 LBS

Service

UPS Ground

Shipped / Billed On

12/20/2018

Delivered On

12/21/2018 1:43 P.M.

Delivered To

EAST LONGMEADOW, MA, US

Received By

PENKOWSKI

Left At

Inside Delivery

Thank you for giving us this opportunity to serve you. Details are only available for shipments delivered within the last 120 days. Please print for your records if you require this information after 120 days.

Sincerely,

UPS

Tracking results provided by UPS: 12/21/2018 4:42 P.M. EST

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



con-test[®]
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Wilcox + Barton

Received By LR Date 12/21/18 Time 1343

How were the samples received? In Cooler _____ No Cooler T On Ice _____ No Ice T
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C F By Gun # 1 Actual Temp - 20.7
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F

Are there Rushes? F

Are there Short Holds? F

Is there enough Volume? T

Is there Headspace where applicable? NA

Proper Media/Containers Used? T

Were trip blanks received? F

Do all samples have the proper pH? NA

Who was notified? _____

Who was notified? _____

Who was notified? _____

MS/MSD? F

Is splitting samples required? F

On COC? F

Acid _____ Base _____

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear
DI-		Other Glass		Other Plastic		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock	3	

Unused Media

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments:

