

February 12, 2021

Craig Blais, President & CEO Worcester Business Development Corporation 89 Shrewsbury Street, Suite 300 Worcester, MA 01604

Re: Pre-Demolition Hazardous Materials Building Survey Denholm Building 484-500 Main Street Worcester, Massachusetts

Dear Mr. Blais,

BETA Group, Inc. (BETA) has completed a Pre-Demolition Hazardous Materials Building Survey for the Denholm Building located at 484-500 Main Street in Worcester, Massachusetts (the site). BETA understands that demolition activities are being considered for the existing site structure.

The office building is a 5.5-story, approximately 200,000 square-foot, brick and concrete structure constructed circa 1882. The structure was built on a full basement foundation and has a rubber membrane roofing system. Portions of the third, fourth, and sixth floors were built as additions. Historically, the building was used as a department store until it was converted to office condominiums in the 1980s. Most of the floors have been substantially renovated. At the time of BETA's January 2021 inspection, the structure was occupied by multiple office condominium tenants. BETA's Hazardous Materials Survey was conducted throughout interior and limited exterior portions of the site structure.

Site maintenance personnel indicated that approximately 2/3 of the building's roof was replaced with a new rubber membrane roof in 2020. The roof of the building was not inspected or sampled due to the recent upgrades and due to winter weather conditions (snow and cold temperatures), which would have prohibited application of effective roof patch / repair after sampling activities. During future demolition activities, roofing materials suspect of containing asbestos may be identified. If so, these materials should be sampled and analyzed by a certified asbestos inspector prior to disturbance or removal. In addition, due to time constraints, BETA did not survey the full exterior of the site structure, including caulking materials and ceiling overhang materials above the Main Street sidewalk. Subsurface exterior building materials were not assessed. Prior to demolition, BETA recommends an inspection of exterior building components for potential hazardous materials.

As detailed below, several building materials were identified as containing lead-based paint (LBP), asbestos, and/or polychlorinated biphenyls (PCBs). Due to the large size of the building and the nondestructive sampling methods required during the survey due to tenant occupancy, estimates of hazardous material quantities not being presented in this report. Once it is confirmed that the structure will be demolished and tenants have vacated the structure, BETA recommends selective demolition of building components followed by a comprehensive inventory of the hazardous materials identified during this survey (ex. piping insulation). This report is not intended to be used as a bidding or specification document.

BETA Group, Inc.

1.0 Lead Based Paint (LBP)

BETA retained Brenda Eastman, Massachusetts Lead Inspector / Risk Assessor I/R-3691 to survey painted surfaces for the presence of lead-based paint. On January 20, 2021, Ms. Eastman scanned representative painted surfaces using a Heuresis X-Ray Fluorescence (XRF) Analyzer, model Pb200i. Lead concentrations exceeding 1.0 mg/cm² are considered high.

The LBP survey revealed the following painted surfaces that contained high detectable levels of lead:

Interior

Brick walls, brick columns, concrete columns, concrete walls, metal columns, metal doors, metal door frames, metal drain pipes, metal fire doors, metal I-beams, metal pipes metal radiator, metal sprinkler pipes, metal stair balusters, metal stair newel posts, metal stair stringer, metal tank, metal wall plate, metal wall vent, plaster column, plaster walls, wood baseboard, wood columns, wood door casings, wood door jambs, wood stair balusters, wood stair newel posts, wood walls, wood wall chair rail, wood wall trim, wood window casings, wood window sills, wood window sashes, ceramic wall tile, and vinyl baseboards.

Exterior

Metal cellar window frames, metal cellar window lintels, metal vents, wood door, wood garage over-head door, wood window casing, and wood window sills.

A copy of the Lead-Based Paint Testing Report is provided within Attachment D. The survey report includes a detailed list of individual XRF scanning locations and analytical results.

A waste material is considered to be a toxicity characteristic waste if it is able to leach toxic metals or other compounds into soil or groundwater under landfill conditions. An analytical method known as the Toxicity Characteristic Leaching Procedure (TCLP) is used to determine if a waste material will leach these chemicals into soil or groundwater. Analytical testing of actual demolition waste stream samples of demolished material, including the metal (or other substrates) and paint for TCLP Lead would be required to determine if the stream is considered a toxicity characteristic waste.

2.0 Asbestos Containing Materials (ACMs)

A non-destructive survey was conducted to identify ACMs associated with the site structure on January 20 and 21, 2021. The survey was conducted in accordance with The Massachusetts Department of Labor and Workforce Development (DLWD) – The Removal, Containment and Encapsulation of Asbestos Regulations – 453 CMR 6.00 and other applicable federal asbestos regulations. The survey was conducted and/or supervised by Matthew Alger, who is certified as an Asbestos Inspector pursuant to Title II of the Toxic Substance Control Act (TSCA), 15, U.S.C. 2646. See Attachment F for license / certification details.

Building materials observed within the survey areas primarily consisted of brick walls, concrete blocks, wood framing, concrete and wood floors, and a rubber membrane roof. Other building components include thermal system insulation (TSI), drywall, joint compound, plaster, wall coatings, sheet flooring, tile flooring, floor levelers, floor paper under wood floors, acoustic ceiling tiles, ceramic wall tiles, kitchen sink coatings, mastics, caulking, and window glazing compounds.

Please refer to Attachment C for photographic documentation. Building materials considered suspect of potentially containing asbestos were observed to be in generally fair to poor condition.

Accessible areas were assessed, inspected and/or sampled. Materials hidden or not accessible were evaluated within reasonable access limitations. Subsurface exterior building materials were not assessed. Areas behind locked doors were not assessed. As the structure was occupied throughout by multiple tenants, discreet sampling techniques were used where practical. Suspect ACMs are classified as friable or non-friable material. Friable material may be crumpled, pulverized, or reduced to powder with hand pressure. Friable materials are more hazardous than non-friable materials because they can readily release airborne asbestos fibers.

Bulk samples of suspect materials were collected into sealed plastic bags and delivered to EMSL Laboratories, LLC (EMSL) of Woburn, MA. Bulk samples were analyzed by Polarized Light Microscopy (PLM) utilizing dispersion staining (DS) techniques in accordance with EPA Method 600/R-93/116. A total of 240 samples were submitted for analysis. Table 1 in Attachment A details analytical results and the approximate quantities of the identified ACMs. The analytical laboratory reports and corresponding chain of custody (COC) forms are included in Attachment E of this report.

As detailed in Table 1, bulk material analytical results revealed evidence of friable and non-friable ACMs. The friable ACM sources include:

• TSI materials (boiler insulation, pipe insulation, pipe elbows and tees); 35-70% asbestos; located throughout building; extent/quantity of material is unknown.

The non-friable ACM sources include:

- Various 9"x9" floor tiles and associated mastics; 3-5% asbestos; located throughout building; extent/quantity of material is unknown.
- Black mastic on beige 12"x12" floor tiles; 5-8% asbestos; identified in basement and 3rd floor; extent/quantity of material is unknown.
- Leveling compound under black floor tile in basement; 10% asbestos; extent/quantity of material is unknown.
- Paper layer under wood floors; 40% asbestos; identified in 3rd floor office space; extent/quantity of material is unknown.
- Kitchen sink coating; 5% asbestos; 4th floor, 1 sink.
- Gray panels in out-of-service freight elevator (assumed to contain asbestos).
- Fire doors located throughout the building (assumed to contain asbestos).

As noted, BETA observed one out-of-service freight elevator in the site structure that was reportedly cable-driven. BETA observed multiple gray panels inside of the elevator shaft that appeared to potentially contain transite, a type of asbestos; however, the panels were not physically accessible for sampling. These panels should be assumed to contain asbestos. BETA observed multiple fire doors throughout the building and on most levels. Fire doors may contain asbestos within their metal or wood exterior; however, the interiors of the fire doors were not accessible for sampling without destructive sampling techniques. These doors should be assumed to contain asbestos.

During future renovation / demolition activities, additional building materials suspect of containing asbestos may be identified. If so, materials should be sampled and analyzed by a certified asbestos inspector prior to disturbance or removal. BETA suspects that asbestos TSI on piping is present behind walls and in other inaccessible areas throughout all floors of the building. BETA also suspects that asbestos-containing floor tiles, mastics, and other flooring materials are present beneath carpets, partition walls, wood sub-floors, ceramic / terrazzo floors, and/or other hidden or inaccessible areas.

3.0 Polychlorinated Biphenyls (PCBs)

On January 20 and 21, 2021, building materials were inspected for the potential presence of PCBs. Visual inspection revealed paints, coatings, and caulking materials that were considered to be potential PCB-containing. Refer to Attachment C – Photographic Documentation for details regarding sampling locations.

A total of 16 samples were submitted for analysis to ESS Laboratories, Inc. (ESS) and analyzed for PCBs via EPA Method 8082/3540C (Soxhlet Extraction Method). The analytical laboratory report and corresponding chain of custody (COC) forms are included in Attachment E of this report.

The attached Table 2 summarizes analytical findings. Total PCB concentrations are equal to the sum of all Aroclors detected. Concentrations of total PCBs were detected in 14 of the 16 samples collected. PCB concentrations in two of the samples exceeded the TSCA threshold for PCB Bulk Product Waste (50 mg/kg). These two materials include:

- White ceiling paint in the 1st floor attic / mechanical area; 51.6 mg/kg.
- Black coating on cork ceiling and walls; 2nd floor storage room in western part of building; 64.4 mg/kg.

PCB concentrations were not detected above laboratory reporting limits in the two window frame caulking samples analyzed.

4.0 Additional Oils and/or Hazardous Materials

BETA conducted a visual survey of the site building for other oils and hazardous materials (OHMs) that have the potential for disturbance during potential future demolition activities.

Potential PCB-Containing Equipment

Fluorescent light fixture ballasts manufactured prior to 1979 may contain small quantities of PCBs. Recently manufactured fluorescent light ballasts do not contain PCBs and those manufactured between 1978 and 1998 are required to have "No PCBs" labels. Light ballasts that do not have "No PCBs" labels, unless known to be manufactured since 1998, should be treated as PCB-containing and handled/disposed of accordingly.

BETA observed fluorescent light ballasts throughout all levels of the site structure (estimated >1,000 units). BETA observed a combination of older and newer ballasts and many were concealed within the light fixtures and/or behind suspended ceilings. Most lighting systems are intact and require removal of the ballast for proper disposal. BETA did not attempt to disassemble light fixtures to access the ballasts and, therefore, did not observe labels indicating the presence or absence of PCBs within the ballasts. Light fixtures should be assumed to contain PCBs unless the ballast is identified as having a "No PCBs" label.

BETA observed a large electrical room in the basement of the site building; however, we did not inspect transformers or other energized equipment as part of the survey. It should be assumed that on-site transformers contain PCB oil, which will require proper disposal.

BETA observed two active hydraulic elevators in the southern portion of the site structure. Hydraulic oil may contain PCBs and should be tested prior to dismantling and disposal. BETA observed one out-of-service freight elevator in the site structure that was reportedly cable-driven; however, the lifting mechanism was not confirmed. The elevator pits were not physically accessible for inspection during BETA's survey.

Potential Mercury-Containing Equipment

Thermostats, thermometers, and pressure gauges sometimes contain mercury. BETA only observed one confirmed mercury thermostat within the site structure (Unit 330); however, a thorough inspection of all units for the presence of mercury switches was not performed. Thermostats encountered during future renovation activities should be assumed to contain mercury until inspected.

Fluorescent light bulbs typically contain mercury. BETA observed fluorescent light tubes throughout all levels of the site structure (estimated >1,000 units). The light bulbs observed at the site should be disposed of properly as universal waste.

Other OHMs

BETA observed an assortment of containers of OHMs within the site structure, particularly in the first floor maintenance shop, mechanical areas, and the boiler room area. Most of these products were being stored in a neat and orderly manner for use during normal maintenance operations; however, some waste oils were improperly stored and should be collected for off-site disposal.

The following is a list of the OHMs observed:

- (4) 55-gallon drums of waste oil (boiler room);
- (2) 55-gallon drums of corrosive liquid (boiler room);
- (5) 5-gallon buckets of waste oil (boiler room);
- (Approx. 20) 5-gallon buckets of various waste oils and/or other liquids (near generator room); and,
- (2) 55-gallon drums of hydraulic fluid (basement level near out-of-service freight elevator).

In the first floor maintenance shop (west side of the building), BETA observed shelving units stocked with paints, cleaning agents, and other products used for regular maintenance activities. Additional site survey activities would be necessary to fully inventory OHMs present within the site structure.

BETA did not observe evidence of aboveground storage tanks (ASTs) at the site. Communications with Doug Morris, a member of the facility management team, revealed that a former heating oil underground storage tank (UST) was located beneath the parking lot to the south of the building. Mr. Morris could not confirm whether this UST had been removed from the site.

5.0 Conclusions / Recommendations

Lead-Based Paint

For future demolition activities involving the disturbance of painted surfaces at the site, collection of a demolition debris waste stream composite sample (all materials, including the substrates) and analysis for lead using TCLP methodologies would be required to determine if the waste stream is considered hazardous waste or could be disposed of as general construction debris.

Renovation / demolition workers should be trained and protected in accordance with applicable OSHA regulations (29 CFR 1926.62).

<u>ACMs</u>

ACMs should be managed and disposed of in accordance with applicable MassDEP and OSHA regulations. BETA recommends that the identified ACMs be appropriately abated by a licensed asbestos abatement contractor in accordance with all local, state, and federal regulations prior to any potential disturbance associated with any future demolition or renovation activities.

It should be noted that the EPA defines an asbestos-containing building material (ACBM) as a building material that contains asbestos in concentrations of 1% or greater. MassDEP considers building materials that contain any detectable amount (<1% asbestos) to be an asbestos containing waste material (ACWM). Additionally, MassDEP indicates that if any material containing any asbestos gets mixed with non-asbestos construction and demolition (C&D) debris, all must be handled as an ACWM, which will need to be disposed of at a landfill that will accept asbestos containing waste, as well as being properly manifested.

It should also be noted that OSHA requires that removal of any material with detectable asbestos including <1% must adhere to limited requirements of the construction standard for asbestos (29 CFR 1926.1101). These limited requirements include, but are not limited to the following:

- Donning of Personnel Protective Equipment (PPE);
- Material must be removed utilizing wet methods;
- Prompt cleanup and disposal of material in leak tight containers.

In addition to these removal requirements, the workers performing renovation or demolition activities for materials that contain detectable asbestos concentrations must have a minimum of 2-hour asbestos awareness training.

Materials hidden or not accessible were evaluated within reasonable access limitations. Subsurface exterior building materials were not assessed. During future demolition activities, additional building materials (currently inaccessible without destructive methods) suspect of containing asbestos will be identified.

These materials should be sampled and analyzed by a certified asbestos inspector prior to disturbance or removal. BETA suspects that asbestos TSI on piping is present behind walls and in other inaccessible areas throughout all floors of the building. BETA also suspects that asbestos-containing floor tiles, mastics, and other flooring materials are present beneath carpets, partition walls, wood sub-floors, ceramic / terrazzo floors, and/or other hidden or inaccessible areas.

PCBs

Materials containing PCBs at concentrations greater than 50 mg/kg are considered to be a PCB Bulk Product Waste and should be disposed of according to TSCA regulations. Additional assessment of materials / strata surrounding the materials containing PCBs >50 ppm would be required per TSCA regulations. Building materials with concentrations greater than 1 mg/kg but less than 50 mg/kg are considered to be Federally Excluded PCB Product if the total PCB concentration in the original material has not been modified by subsequent activities. Building materials containing PCBs at concentrations less than 1 mg/kg are not regulated and can be managed as general construction waste.

<u>OHMs</u>

Containers of oils and/or other hazardous materials must be disposed of properly prior to site redevelopment. Potential PCB and mercury sources were observed at the site. Lighting ballasts must be recycled / disposed of in accordance with MassDEP's *Policy for Disposal of Lighting Ballasts*, dated January 16, 1992. Fluorescent tubes and bulbs, along with thermostats must be recycled / disposed of in accordance *Waste Rule*, dated October 17, 1997. Non-PCB and potential / assumed PCB containing light ballasts can be readily separated / managed during demolition activities.

Based upon BETA's survey efforts and the presence of OHMs and a potentially abandoned UST adjacent to the site, it is highly recommended that a Phase I & II Environmental Site Assessment is conducted prior to a future owner acquiring the site to assess subsurface conditions.

If we can be of any further assistance regarding this matter, please contact us at our office.

Very truly yours, BETA Group, Inc.

Matta

Matthew Alger Project Manager

Job No: 21.07453.00

Attachments:

A Tables: Table 1 - Summary of 1.2021 Asbestos Analytical Results Table 2 - Summary of 1.2021 PCB Analytical Results

B Figures:

- Figure 1 First Floor Figure 2 - Second Floor Figure 3 - Third Floor Figure 4 - Fourth Floor Figure 5 - Fifth Floor Figure 6 - Sixth Floor Figure 7 - Basement
- C Photographic Documentation
- D Lead-Based Paint Testing Report
- E Laboratory Analytical Reports
- F Asbestos Inspector Certification

Attachment A

Table 1 - Summary of 1.2021 Asbestos Analytical Results Table 2 - Summary of 1.2021 PCB Analytical Results

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SAMPLE ID	SAMPLE DESCRIPTION	SAMPLE LOCATION	RESULTS (% ASBESTOS)				
1A	Skim Coat Plaster	Basement	NAD				
1B	Skim Coat Plaster	Basement	NAD				
1C	Skim Coat Plaster	Basement	NAD				
1D	Skim Coat Plaster	2nd Floor	NAD				
1E	Skim Coat Plaster	3rd Floor	NAD				
1F	Skim Coat Plaster	1st Floor	NAD				
1G	Skim Coat Plaster	5th Floor	NAD				
2A	Base Coat Plaster	Basement	NAD				
2B	Base Coat Plaster	Basement	NAD				
2C	Base Coat Plaster	Basement	NAD				
2D	Base Coat Plaster	2nd Floor	NAD				
2E	Base Coat Plaster	3rd Floor	NAD				
2F	Base Coat Plaster	1st Floor	NAD				
2G	Base Coat Plaster	5th Floor	NAD				
3A	Drywall	Basement	NAD				
3B	Drywall	Basement	NAD				
3C	Drywall	Basement	NAD				
3D	Drywall	2nd Floor	NAD				
3E	Drywall	3rd Floor	NAD				
3F	Drywall	3rd Floor	NAD				
3G	Drywall	4th Floor	NAD				
3Н	Drywall	1st Floor	NAD				
4A	Joint Compound	Basement	NAD				
4B	Joint Compound	Basement	NAD				
4C	Joint Compound	Basement	NAD				
4D	Joint Compound	2nd Floor	NAD				
4E	Joint Compound	3rd Floor	NAD				
4F	Joint Compound	3rd Floor	NAD				
4G	Joint Compound	4th Floor	NAD				
4H	Joint Compound	4th Floor	NAD				
41	Joint Compound	1st Floor	NAD				
4J	Joint Compound	5th Floor	NAD				
5A	Air Cell Pipe Insulation	Basement	70%				
5B	Air Cell Pipe Insulation	Basement	PS				
5C	Air Cell Pipe Insulation	Basement	PS				
6A	Elbow on Air Cell Insulation	Basement	35%				
6B	Elbow on Air Cell Insulation	Basement	PS				
6C	Elbow on Air Cell Insulation	Basement	PS				
7A	Layered Paper Pipe Insulation	Basement	50%				
7B	Layered Paper Pipe Insulation	Basement	PS				
7C	Layered Paper Pipe Insulation	Basement	PS				
8A	Elbow on Layered Paper Pipe Insulation	Basement	45%				
8B	Elbow on Layered Paper Pipe Insulation	Basement	PS				
8C	Elbow on Layered Paper Pipe Insulation	Basement	PS				
9A	Boiler Insulation	Boiler Insulation Basement					
9B	Boiler Insulation	Basement	PS				
9C	Boiler Insulation	Basement	PS				
10A	MAG TSI	Basement	35%				

Notes:

1. NAD - No asbestos detected

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SAMPLE ID	SAMPLE DESCRIPTION	SAMPLE LOCATION	RESULTS (% ASBESTOS		
10B	MAG TSI	Basement	PS		
10C	MAG TSI	Basement	PS		
11A	Elbow on MAG	Basement	70%		
11B	Elbow on MAG	Basement	PS		
11C	Elbow on MAG	Basement	PS		
12A	Beige 9x9 Floor Tile	Basement	NAD		
12B	Beige 9x9 Floor Tile	Basement	NAD		
12C	Beige 9x9 Floor Tile	Basement	NAD		
13A	Mastic on Beige Tile	Basement	NAD		
13B	Mastic on Beige Tile	Basement	NAD		
13C	Mastic on Beige Tile	Basement	NAD		
14A	Green 9x9 Floor Tile	Basement	3%		
14B	Green 9x9 Floor Tile	Basement	PS		
15A	Mastic on Green Tile	Basement	NAD		
15B	Mastic on Green Tile	Basement	NAD		
16A	Black 9x9 Floor Tile	Basement	3%		
16B	Black 9x9 Floor Tile	Basement	PS		
16C	Black 9x9 Floor Tile	Basement	PS		
17A	Mastic on Black Tile	Basement	NAD		
17B	Mastic on Black Tile	Basement	NAD		
17C	Mastic on Black Tile	Basement	NAD		
18A	Soft Leveling Compound Under Black Tile	Basement	10%		
18B	Soft Leveling Compound Under Black Tile	Basement	PS		
19A	Cementitious Gray Wall Plaster	Basement	NAD		
19B	Cementitious Gray Wall Plaster	Basement	NAD		
20A	Beige 12x12 Floor Tile	Basement	NAD		
20B	Beige 12x12 Floor Tile	Basement	NAD		
21A	Mastic on Beige 12x12 Floor Tile	Basement	8%		
21B	Mastic on Beige 12x12 Floor Tile	Basement	PS		
22A	Brown Glue on Columns That Have Fiber Board	Basement	NAD		
22B	Brown Glue on Columns That Have Fiber Board	Basement	NAD		
23A	White 2'x2' Ceiling Tile	Basement	NAD		
23B	White 2'x2' Ceiling Tile	Basement	NAD		
23C	White 2'x2' Ceiling Tile	Basement	NAD		
24A	Brown Fiber Paper Ceiling Tile with Holes	Basement	NAD		
24B	Brown Fiber Paper Ceiling Tile with Holes	Basement	NAD		
24C	Brown Fiber Paper Ceiling Tile with Holes	Basement	NAD		
25A	Ceiling Plaster - Skim Coat	Basement	NAD		
25B	Ceiling Plaster - Skim Coat	Basement	NAD		
26A	Ceiling Plaster	Basement	NAD		
26B	Ceiling Plaster	Basement	NAD		
27A	2'x4' Decorative Acousitic Ceiling Tile	Basement	NAD		
27B	2'x4' Decorative Acousitic Ceiling Tile	Basement	NAD		
28A	Pink 12"x12" Floor Tile	2nd Floor, Near Escalator	NAD		
29A	Mastic on Pink 12"x12" Floor Tile	2nd Floor, Near Escalator	NAD		
30A	Concrete Under Pink Tile	2nd Floor, hallway & offices	NAD		
30B	Concrete Under Pink Tile	2nd Floor, hallway & offices	NAD		
31A	Rose 12"x12" Floor Tile	2nd Floor - Room 203	NAD		

Notes:

1. NAD - No asbestos detected

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SAMPLE ID	SAMPLE DESCRIPTION	SAMPLE LOCATION	RESULTS (% ASBESTOS)		
32A	Mastic on Rose 12"x12" Floor Tile	2nd Floor, Room 203	NAD		
33A	Tan 12"x12" Floor Tile	2nd Floor, Room 203	NAD		
34A	Mastic on Tan 12"x12" Floor Tile	2nd Floor, Room 203	NAD		
35A	Gray Floor Tile	2nd Floor, Bathrooms	NAD		
36A	Mastic on Gray Floor Tile	2nd Floor, Bathrooms	NAD		
37A	Deteriorated Flooring Brick Pattern	2nd Floor, garbage room	NAD		
38A	Deteriorated Flooring Brown	2nd Floor, garbage room	NAD		
39A	Deteriorated Flooring Red	2nd Floor, garbage room	NAD		
40A	Pyro Block	2nd Floor, garbage room	NAD		
40B	Pyro Block	2nd Floor, garbage room	NAD		
41A	Tan 9"x9" Floor Tile	2nd Floor, storage room on west side	5%		
41B	Tan 9"x9" Floor Tile	2nd Floor, storage room on west side	PS		
42A	Mastic on Tan 9"x9" Floor Tile	2nd Floor, storage room on west side	NAD		
42B	Mastic on Tan 9"x9" Floor Tile	2nd Floor, storage room on west side	NAD		
43A	Ceiling Plaster	2nd Floor, storage room on west side	NAD		
43B	Ceiling Plaster	2nd Floor, storage room on west side	NAD		
44A	Black Coating on Ceiling Layer	2nd Floor, storage room on west side	NAD		
44B	Black Coating on Ceiling Layer	2nd Floor, storage room on west side	NAD		
45A	Gray Floor Leveler Under Carpet	3rd Floor, hallway	NAD		
46A	White Floor Leveler Under Carpet	3rd Floor, hallway	NAD		
47A	Black/Green Floor Leveler Under Carpet	3rd Floor, hallway	NAD		
48A	Red 9"x9" Floor Tile	Floors 1-5 South Stairwell	5%		
49A	Mastic on Red 9"x9" Floor Tile	Floors 1-5 South Stairwell	NAD		
50A	Black 9"x9" Floor Tile	Floors 1-5 South Stairwell	5%		
51A	Mastic on Black 9"x9" Floor Tile	Floors 1-5 South Stairwell	NAD		
52A	Tan 9"x9" Floor Tile	1st Floor South Stairwell	5%		
53A	Mastic on Tan 9"x9" Floor Tile	1st Floor South Stairwell	NAD		
54A	Green Stair Tread	1st Floor South Stairwell	5%		
55A	Mastic on Stair Tread	1st Floor South Stairwell	5%		
56A	Terrazzo Floor	1st Floor South Stairwell	NAD		
56B	White Terrazzo Floor	1st Floor Crawl Space/Attic	NAD		
57A	Sand 9"x9" Floor Tile	4th Floor Landing in South Stairwell	5%		
58A	Mastic on Sand 9"x9" Floor Tile	4th Floor Landing in South Stairwell	NAD		
59A	Pink Floor Tile	5th Floor South Stairwell	NAD		
60A	Mastic on Pink Floor Tile	5th Floor South Stairwell	5%		
61A	Gray Floor Tile	5th Floor South Stairwell	NAD		
62A	Mastic on Gray Floor Tile	5th Floor South Stairwell	5%		
63A	Burlap-Backed Floor	5th Floor South Stairwell	NAD		
64A	Beige Floor Tile	3rd Floor, hallway	NAD		
64B	Beige Floor Tile	4th Floor, hallway	NAD		
65A	Mastic on Beige Floor Tile	3rd Floor, hallway	5%		
65B	Mastic on Beige Floor Tile	4th Floor	NAD		
66A	3/4 Addition Drywall	3rd Floor - 3/4 addition	NAD		
66B	3/4 Addition Drywall	3rd Floor - 3/4 addition	NAD		
27C	Decorative Acoustic Tile	4th Floor	NAD		
67A	3/4 Addition Joint Compound	3rd Floor - 3/4 addition	NAD		
67B	3/4 Addition Joint Compound	3rd Floor - 3/4 addition	NAD		
68A	Beige Floor Tile	3rd Floor - 3/4 addition	NAD		

Notes:

1. NAD - No asbestos detected

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SAMPLE ID	SAMPLE DESCRIPTION	SAMPLE LOCATION	RESULTS (% ASBESTOS)			
68B	Beige Floor Tile	3rd Floor - 3/4 addition	NAD			
69A	Yellow Mastic on Beige Floor Tile	3rd Floor - 3/4 addition	NAD			
69B	Yellow Mastic on Beige Floor Tile	3rd Floor - 3/4 addition	NAD			
70A	TSI Paper Under Hardwood Floor in Closet	3rd Floor Office 345	40%			
70B	TSI Paper Under Hardwood Floor in Closet	3rd Floor Office 320	PS			
70C	Gray TSI Paper Under Hardwood Floor in Closet	4th Floor, Utility Closet	PS			
63B	Burlap-Backed Floor	4th Floor, Utility Closet	NAD			
66C	Drywall	4th Floor, Unit 430 (Church)	NAD			
67C	Joint Compound	4th Floor, Unit 430 (Church)	NAD			
71A	White 12"x12"VFT	3rd Floor Office 345	NAD			
72A	Mastic on White 12"x12" VFT	3rd Floor Office 345	NAD			
73A	Beige 9"x 9" Floor Tile	3rd Floor Office 320	NAD			
74A	Mastic on Beige 9"x 9" Tile	3rd Floor Office 320	NAD			
75A	Black Paper Under 9"x 9" Floor Tile	3rd Floor Office 320	NAD			
75B	Black Paper Under 9"x 9" Floor Tile	3rd Floor Electrical Room	NAD			
75C	Black Paper Under 9"x 9" Floor Tile	4th Floor Utility Closet	NAD			
76A	White Linoleum	3rd Floor Office 320, Closet	NAD			
77A	Duct Sealant	3rd Floor Office 320	NAD			
78A	Wall Plaster on Wood Lathe	3rd Floor Office 360	NAD			
78B	Wall Plaster on Wood Lathe	4th Floor Office 480	NAD			
79A	Tan 12"x 12" Floor Tile	3rd Floor Office 360	NAD			
80A	Mastic on Tan 12"x 12" Floor Tile	3rd Floor Office 360	NAD			
81A	Black 12"x 12" Floor Tile	3rd Floor Mail Room	NAD			
82A	Mastic on Black 12"x 12" Floor Tile	3rd Floor Mail Room	NAD			
83A	Brown/Green 9"x9" Floor Tile	3rd Floor Telephone Room	5%			
84A	Mastic on Brown/Green 9"x9" Floor Tile	3rd Floor Telephone Room	NAD			
85A	Beige/Pink 12"x 12" Floor Tile	3rd Floor Telephone Room	NAD			
86A	Mastic on Beige/Pink 12"x 12" Floor Tile	3rd Floor Telephone Room	NAD			
87A	Blue Linoleum in Kitchen	4th Floor Office 480	NAD			
88A	Kitchen Sink Coating	4th Floor Office 480	5%			
89A	White 12"x 12" Floor Tile	4th Floor Office 400	NAD			
90A	Mastic on White 12"x 12" Floor Tile	4th Floor Office 400	NAD			
91A	Beige 12"x 12" Floor Tile	4th Floor Office 400	NAD			
92A	Mastic on Beige 12"x 12" Floor Tile	4th Floor Office 400	NAD			
93A	2nd Laver Floor Tile Under New Wood Flooring	4th Floor, Unit 430 (Church)	3%			
94A	Mastic on 2nd Laver Tile	4th Floor, Unit 430 (Church)	NAD			
95A	Tan 12"x 12" Floor Tile	4th Floor, Unit 430 (Church)	NAD			
964	Mastic on Tan Tile	4th Floor, Unit 430 (Church)	NAD			
97Δ	Black 2nd Laver Tile Linder Tan Tile	4th Floor Unit 430 (Church)	ΝΔD			
980	Mastic on Black Tile	4th Floor Unit 430 (Church)	ΝΔΟ			
994	Black Paper Linder Black Tile	4th Floor Unit 430 (Church)	ΝΔΟ			
1004	Gray Eloor Leveling Compound	4th Floor Unit 430 (Church)	ΝΔΟ			
1014	Skim Cost Plaster	4th Floor Unit 430 (Church)	ΝΔΟ			
1017	Bace Cost Plaster	Ath Floor Unit 430 (Church)				
1024	Diaste coal Flaster	Ath Floor Unit 430 (Church)				
1044	Brown Exterior Window Frame Caulk	4th Floor Unit 430 (Church)	ΝΔΠ			
1054	Tan 9"v 9" Floor Tile	1st Floor Attic / Mechanical Room	2%			
1064	Mastic on Floor Tile	1st Floor Attic / Mechanical Room	ΝΔD			

Notes:

1. NAD - No asbestos detected

Page 5 of 5

SAMPLE ID	SAMPLE DESCRIPTION	SAMPLE LOCATION	RESULTS (% ASBESTOS)		
107A	Yellow Linoleum	1st Floor Attic / Mechanical Room	NAD		
108A	Green Linoleum	1st Floor Attic / Mechanical Room	NAD		
109A	Black Floor Paper	1st Floor Attic / Mechanical Room	NAD		
110A	Gray Troweled-on Wall Plaster	1st Floor Attic / Mechanical Room	NAD		
105B	Tan 9"x 9" Floor Tile	1st Floor Post Office	PS		
106B	Mastic on 9"x9" Floor Tile	1st Floor, Post Office	NAD		
111A	White Insulation on Ducts/Air Handler	1st Floor Post Office	55%		
111B	White Insulation on Ducts/Air Handler	1st Floor Post Office	PS		
111C	White Insulation on Ducts/Air Handler	1st Floor Post Office	PS		
112A	Brown Insulation on Ducts/Air Handler	1st Floor, Post Office	NAD		
112B	Brown Insulation on Ducts/Air Handler	1st Floor, Post Office	NAD		
112C	Brown Insulation on Ducts/Air Handler	1st Floor, Post Office	NAD		
113A	Gray 12"x 12" Floor Tile	1st Floor, Post Office	NAD		
114A	Mastic on Gray 12"x 12" Floor Tile	1st Floor, Post Office	NAD		
115A	Yellow Flooring Below Stairwell in Post Office Closet	1st Floor, Post Office	NAD		
116A	Mastic on Yellow Flooring	1st Floor, Post Office	NAD		
117A	Gray Leveling Compound Under Carpet	5th Floor, Offices 560 & 580	NAD		
118A	Blue 12"x 12" Floor Tile	5th Floor, Office 560	NAD		
119A	Mastic on Blue 12"x 12" Floor Tile	5th Floor, Office 560	NAD		
120A	White 12"x 12" Floor Tile	5th Floor	NAD		
121A	Mastic on White 12"x 12" Floor Tile	5th Floor	NAD		
122A	2'x2' Acousitc Ceiling Tile	5th Floor, Office 535	NAD		
123A	Linoleum on Kitchen Step	5th Floor, Office 520	NAD		
124A	Tan+Brown 12"x 12" Floor Tile	6th Floor	NAD		
124B	Tan+Brown 12"x 12" Floor Tile	6th Floor	NAD		
125A	Mastic on Tan+Brown 12"x 12" Floor Tile	6th Floor	NAD		
125B	Mastic on Tan+Brown 12"x 12" Floor Tile	6th Floor	NAD		
126A	Drywall	6th Floor	NAD		
126B	Drywall	6th Floor	NAD		
126C	Drywall	6th Floor	NAD		
127A	Joint Compound	6th Floor	NAD		
127B	Joint Compound	6th Floor	NAD		
127C	Joint Compound	6th Floor	NAD		
128A	Skim Coat Plaster	6th Floor	NAD		
128B	Skim Coat Plaster	6th Floor	NAD		
128C	Skim Coat Plaster	6th Floor	NAD		
129A	Base Coat Plaster	6th Floor	NAD		
129B	Base Coat Plaster	6th Floor	NAD		
129C	Base Coat Plaster	6th Floor	NAD		
130A	Brown Exterior Window Frame Caulk	6th Floor	NAD		
130B	Brown Exterior Window Frame Caulk	6th Floor	NAD		
131A	White Floor Tile	6th Floor, Computer Room	NAD		
132A	Mastic on White Floor Tile	6th Floor, Computer Room	NAD		
133A	Black Paper in Attic	6th Floor Attic	NAD		
134A	Mortar on Terracotta Wall Blocks in Attic	6th Floor Attic	NAD		
135A	Floor Paper Below Hardwood	Garage - 2nd Floor	NAD		
31	Drywall	5th Floor	NAD		
78C	Plaster on Wood Lathe	1st Floor	NAD		

Notes:

1. NAD - No asbestos detected

SAMPLE ID	PAINT-1	PAINT-2	PAINT-3	PAINT-4	PAINT-5	PAINT-6	PAINT-7	PAINT-8	PAINT-9	PAINT-10	PAINT-11	PAINT-12	PAINT-13	COATING-1	CAULK-1	CAULK-2	
SAMPLE DATE	1/20/2021	1/20/2021	1/20/2021	1/20/2021	1/20/2021	1/20/2021	1/20/2021	1/20/2021	1/20/2021	1/20/2021	1/20/2021	1/21/2021	1/21/2021	1/20/2021	1/21/2021	1/21/2021	TSCA PCB BULK
	Basement	Basement	Basement	Basement											4th Floor		PRODUCT
SAMPLE LOCATION	Mechanical	Mechanical	Mechanical	Mechanical	1st Floor Near	1st Floor Near			2nd Floor	2nd Floor	1st Floor Stairwell	1st Floor Attic /		2nd Floor Storage	Addition -	6th Floor -	WASTE
	Rooms	Rooms	Rooms	Rooms	Generator Room	Generator Room	2nd Floor	2nd Floor	Stairwell (West)	Stairwell (West)	(South)	Mechanical Area	6th Floor Attic	Room (West)	Exterior	Exterior	
		White/Yellow		Green/Beige Wall				White Ceiling				White Ceiling	White Ceiling	Black Coating on	Brown Window	Brown Window	
	Red Wall Paint	Wall Paint	Black Wall Paint	Paint	Green Paint	Silver Paint	Green Wall Paint	Paint	Green Wall Paint	Beige Wall Paint	White Wall Paint	Paint	Paint	Cork Ceiling	Frame Caulk	Frame Caulk	
UNITS	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
PCBs																	
Aroclor 1016	BRL(<0.09)	BRL(<0.1)	BRL(<0.1)	BRL(<0.1)	BRL(<0.1)	BRL(<0.1)	BRL(<0.2)	BRL(<0.2)	BRL(<0.1)	BRL(<0.09)	BRL(<0.1)	BRL(<2)	BRL(<2)	BRL(<0.2)	BRL(<0.5)	BRL(<0.2)	50
Aroclor 1221	BRL(<0.09)	BRL(<0.1)	BRL(<0.1)	BRL(<0.1)	BRL(<0.1)	BRL(<0.1)	BRL(<0.2)	BRL(<0.2)	BRL(<0.1)	BRL(<0.09)	BRL(<0.1)	BRL(<2)	BRL(<2)	BRL(<0.2)	BRL(<0.5)	BRL(<0.2)	50
Aroclor 1232	BRL(<0.09)	BRL(<0.1)	BRL(<0.1)	BRL(<0.1)	BRL(<0.1)	BRL(<0.1)	BRL(<0.2)	BRL(<0.2)	BRL(<0.1)	BRL(<0.09)	BRL(<0.1)	BRL(<2)	BRL(<2)	BRL(<0.2)	BRL(<0.5)	BRL(<0.2)	50
Aroclor 1242	7.3	6.4	1.5	BRL(<0.1)	2.2	1	3.2	1.8	3	1.3	1.6	BRL(<2)	BRL(<2)	BRL(<0.2)	BRL(<0.5)	BRL(<0.2)	50
Aroclor 1248	BRL(<0.09)	BRL(<0.1)	BRL(<0.1)	BRL(<0.1)	0.1	BRL(<0.1)	BRL(<0.2)	BRL(<0.2)	BRL(<0.1)	BRL(<0.09)	BRL(<0.1)	BRL(<2)	BRL(<2)	64.4	BRL(<0.5)	BRL(<0.2)	50
Aroclor 1254	17	14.5	8.6	15.4	12.7	2.2	13.9	4.6	11	8.5	9.8	28	34.2	BRL(<0.2)	BRL(<0.5)	BRL(<0.2)	50
Aroclor 1260	1.3	2	1.5	1.7	6.7	2.1	11.9	BRL(<0.2)	BRL(<0.1)	2.3	4.1	23.6	7	BRL(<0.2)	BRL(<0.5)	BRL(<0.2)	50
Aroclor 1262	BRL(<0.09)	BRL(<0.1)	BRL(<0.1)	BRL(<0.1)	BRL(<0.1)	BRL(<0.1)	BRL(<0.2)	5	BRL(<0.1)	BRL(<0.09)	BRL(<0.1)	BRL(<2)	BRL(<2)	BRL(<0.2)	BRL(<0.5)	BRL(<0.2)	50
Aroclor 1268	BRL(<0.09)	BRL(<0.1)	BRL(<0.1)	BRL(<0.1)	BRL(<0.1)	BRL(<0.1)	BRL(<0.2)	BRL(<0.2)	2.1	BRL(<0.09)	BRL(<0.1)	BRL(<2)	BRL(<2)	BRL(<0.2)	BRL(<0.5)	BRL(<0.2)	50
Total PCBs	25.6	22.9	11.6	17.1	21.6	5.3	29	11.4	16.1	12.1	15.5	51.6	41.2	64.4	BRL(<0.5)	BRL(<0.2)	50

Notes:

1. BRL - Below laboratory method reporting limit

2. mg/kg - milligrams per kilogram or parts per million (ppm)

3. Materials containing PCBs at concentrations greater than or equal to 50 mg/kg are classified as PCB Bulk Waste and are regulated by TSCA

4. Materials containing PCBs at concentrations greater than 1 mg/kg and less that 50 mg/kg are considered to be a Federally Excluded PCB Product

if the total PCB concentration in the original material has not been modified by subsequent activities

5. Materials containing PCBs at concentrations less than 1 mg/kg are not regulated and can be managed as general construction waste

Page 1 of 1

Attachment B

Figure 1 - First Floor Figure 2 - Second Floor Figure 3 - Third Floor Figure 4 - Fourth Floor Figure 5 - Fifth Floor Figure 6 - Sixth Floor Figure 7 - Basement





UNIT 100. PROCEED TO EXIT THROUGH THE MAIN STREET DOORS OR THROUGH EXIT 1. THE MAIN STREET DOORS ARE THE QUICKEST MEANS OF EGRESS FROM THE BUILDING.

UNIT 150. PROCEED TO EXIT THROUGH EITHER THE MAIN STREET DOORS OR STAIRWELL 3. THE

MAIN STREET DOOR IS THE PREFERRED MEANS OF EGRESS AS IT IS THE QUICKEST AND MOST OPEN MEANS OF EGRESS.

UNITS 110, 120, 170, 180. PROCEED DIRECTLY OUT OF THE BUILDING VIA EITHER MAIN STREET DOOR.



<u>KEY</u> ● FIRE EXTINGUISHER
▼ PULL STATION
– EVACUATION ROUTE

<u>UNIT 200</u>. USE EXIT 1 OR 2. EXIT 1 IS THE PREFERRED MEANS OF EGRESS AS THIS IS THE QUICKEST WAY OUT OF THE BUILDING. YOU MAY ALSO USE EXIT 2 THROUGH THE LOADING DOCK DOORS TO THE ALLEY. <u>UNITS 250 AND 280</u>. PROCEED EITHER TO EXIT 2 OR EXIT 3.

FIGURE 2: SECOND FLOOR



	KEY
0	FIRE EXTINGUISHER
A	PULL STATION
-	EVACUATION ROUTE

UNIT 320, 330, 340, 350. PROCEED DIRECTLY TO HIGH STREET DOORS IF UNABLE TO PROCEED TO HIGH ST. GO TO EXITS 1 OR 2 AND GO DOWN TO ALLEY.

UNITS 300 AND 360. PROCEED TO EXITS 1 OR 3. IF UNABLE TO USE EXITS 1 OR 3 PROCEED TO HIGH STREET.

FIGURE 3: THIRD FLOOR



KEY
♥ FIRE EXTINGUISHER
♥ PULL STATION
- EVACUATION ROUTE

UNIT 400, 460, AND 480. PROCEED TO EITHER EXITS 1 OR 3. IF UNABLE TO USE EXITS 1 OR 3 PROCEED TO EXIT 2.

<u>UNITS 420 AND 450</u>. PROCEED TO EXITS 1 OR 2. BOTH EXITS LEAD TO THE ALLEY.

UNIT 430. PROCEED TO EXITS 4 OR 5. BOTH EXITS LEAD TO HIGH ST.

FIGURE 4: FOURTH FLOOR



KEY
VPULL STATION
- EVACUATION ROUTE

UNITS 500, 510, 560, 570 AND 580. PROCEED TO EXITS 1 AND 3. IF UNABLE TO USE EXITS 1 OR 3 PROCEED TO EXIT 2.

UNITS 520 AND 535. PROCEED TO EXITS 1 OR 2 BOTH EXITS LEAD TO THE ALLEY.

FIGURE 5: FIFTH FLOOR



<u>KEY</u> ● FIRE EXTINGUISHER
▼ PULL STATION
– EVACUATION ROUTE

UNIT 600. PROCEED TO EXITS 1, 2 OR 3 AND DOWN STAIRWELL TO ALLEY.

FIGURE 6: SIXTH FLOOR



BASEMENT. PROCEED TO EITHER EXIT 1 OR EXIT 2 AND PROCEED TO THE ALLEY.

 KEY
 FIGURE 7: BASEMENT

 ● FIRE EXTINGUISHER

 FIGURE 7: BASEMENT

 ♥ PULL STATION

 BUILDING OR FLOOR EVACUATION PLAN

Attachment C

Photographic Documentation



Site structure, looking north along Main Street



One of two steam boilers on-site; boiler jacket 40% asbestos



TSI on piping above boilers



TSI on piping at ceiling and along walls; 35-70% asbestos



TSI along ceiling; 35-70% asbestos



TSI along ceiling; 35-70% asbestos



Black 9"x9" floor tiles in basment; 3% asbestos



Beige 12"x12" tiles w. mastic (8% asbestos) over black 9"x9" tiles (3% asbestos) over gray leveler (10% asbestos)



Green 9"x9" floor tiles in basement; 3% asbestos



Black & red floor tiles in south stairwell; 5% asbestos



Second floor storage room, west side of building with cork roof & walls



Black coating on cork ceiling, second floor storage room; PCBs 64.4 mg/kg



Black coating on walls, second floor storage room; PCBs 64.4 mg/kg



Black coating on cork wallboard, second floor storage room; PCBs 64.4 mg/kg



Paper layer identified beneath wood floor (3rd & 4th floors); 40% asbestos



Possible transite panel in freight elevator shaft



Portion of roof not recently replaced



Portion of roof replaced in 2020



Fire door (possible asbestos inside)



OHMs in boiler room



OHMs in boiler room



OHMs in boiler room



OHMs near generator room



OHMs near generator room


OHMs near generator room s



OHMs near freight elevator shaft

Attachment D

Lead-Based Paint Testing Report

ENVIRONMENTAL LEAD DETECTION, INC.

LEAD-BASED PAINT TESTING



PERFORMED AT:

Denholm Building 484-500 Main St. Worcester, MA

PREPARED FOR:

BETA Group, Inc. 701 George Washington Hwy. Lincoln, RI 02865

PREPARED BY:

Brenda Eastman Massachusetts Lead Inspector/Risk Assessor I/R-3691 Environmental Lead Detection 436 Gardners Neck Road Swansea, MA 02777 TEL. (774) 526-8223 ELD1988@comcast.net
Attachment E

Laboratory Analytical Reports



		Non-Asbestos			Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
1A	Basement - Skim	White		100% Non-fibrous (Other)	None Detected
132100753-0001	Coat Plaster	Non-Fibrous			
1B	Basement - Skim	White		100% Non-fibrous (Other)	None Detected
	Coat Plaster	Non-Fibrous			
132100753-0002		Homogeneous			
1C	Basement - Skim	White		100% Non-fibrous (Other)	None Detected
132100753-0003	Coal Plaster	Homogeneous			
1D	2nd Floor - Skim Coat	White		100% Non-fibrous (Other)	None Detected
	Plaster	Non-Fibrous			
132100753-0004		Homogeneous			
1E	3rd Floor - Skim Coat Plaster	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0005		Homogeneous			
1F	1st Floor - Skim Coat	White		100% Non-fibrous (Other)	None Detected
122100752 0006	Plaster	Non-Fibrous			
10	5th Eleon Skim Cost	White		100% Non fibrous (Other)	None Detected
10	Plaster	Non-Fibrous			None Delected
132100753-0007		Homogeneous			
2A	Basement - Base	Gray	2% Cellulose	98% Non-fibrous (Other)	None Detected
132100753-0008	Coat Plaster	Fibrous Homogeneous			
2B	Basement - Base	Gray	2% Cellulose	98% Non-fibrous (Other)	None Detected
	Coat Plaster	Non-Fibrous			
132100753-0009		Homogeneous			
2C	Basement - Base	Gray	2% Cellulose	98% Non-fibrous (Other)	None Detected
132100753-0010	Coal Flaster	Homogeneous			
2D	2nd Floor - Base Coat	Gray	3% Hair	97% Non-fibrous (Other)	None Detected
100100750 0011	Plaster	Fibrous			
132100753-0011	And Flags David Origin	Homogeneous	00/ 11-1-		New Detected
2E	3rd Floor - Base Coat Plaster	Gray Fibrous	3% Hair	97% Non-fibrous (Other)	None Detected
132100753-0012		Homogeneous			
2F	1st Floor - Base Coat	Gray	2% Hair	98% Non-fibrous (Other)	None Detected
132100753-0013	Plaster	Non-Fibrous			
26	5th Floor - Base Coat	Grav	2% Hair	98% Non-fibrous (Other)	None Detected
20	Plaster	Fibrous	2701101		
132100753-0014		Homogeneous			
3A	Basement - Drywall	Brown/White	12% Cellulose	88% Non-fibrous (Other)	None Detected
132100753-0015		Homogeneous			
3B	Basement - Drywall	Brown/White	15% Cellulose	85% Non-fibrous (Other)	None Detected
	-	Fibrous			
132100753-0016		Homogeneous			



		Non-Asbestos			Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
3C	Basement - Drywall	Brown/White Fibrous	15% Cellulose	85% Non-fibrous (Other)	None Detected
132100753-0017		Homogeneous			
3D	2nd Floor - Drywall	Brown/White Fibrous	12% Cellulose	88% Non-fibrous (Other)	None Detected
132100753-0018		Homogeneous			
3E	3rd Floor - Drywall	Brown/White Fibrous	12% Cellulose	88% Non-fibrous (Other)	None Detected
132100753-0019		Homogeneous			
3F	3rd Floor - Drywall	Brown/White Fibrous	12% Cellulose	88% Non-fibrous (Other)	None Detected
132100753-0020		Homogeneous			
3G	4th Floor - Drywall	Brown/White Fibrous	12% Cellulose	88% Non-fibrous (Other)	None Detected
132100753-0021		Homogeneous	4004 0 11 1		
3H	1st Floor - Drywall	Brown/White Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
102100700 0022	Basement loint	White		100% Non fibrous (Other)	None Detected
4A 132100753-0023	Compound	Non-Fibrous Homogeneous			None Detected
4B	Basement - Joint	White		100% Non-fibrous (Other)	None Detected
132100753-0024	Compound	Non-Fibrous Homogeneous			
40	Basement - Joint	White		100% Non-fibrous (Other)	None Detected
132100753-0025	Compound	Non-Fibrous Homogeneous			
4D	2nd Floor - Joint	White		100% Non-fibrous (Other)	None Detected
	Compound	Non-Fibrous			
132100753-0026		Homogeneous			
4E	3rd Floor - Joint Compound	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100733-0027	Oud Elson deint	Homogeneous			News Detected
4F	Compound	Non-Fibrous		100% Non-fibrous (Other)	None Detected
46	Ath Eloor Joint	White		100% Non fibrous (Other)	None Detected
132100753-0029	Compound	Non-Fibrous Homogeneous			None Delected
4H	4th Floor - Joint	White		100% Non-fibrous (Other)	None Detected
	Compound	Non-Fibrous			
132100753-0030		Homogeneous			
41	1st Floor - Joint Compound	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0031		Homogeneous			
4J	5th Floor - Joint Compound	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0032		Homogeneous	000/ 0 # 1		70% 01 //
5A	Basement - Air Cell Pipe Insulation	Gray Non-Fibrous Homogeneous	20% Cellulose	10% Non-fibrous (Other)	70% Chrysotile
ED	Boomant Air Call	riomogeneous			Depitivo Stop (Not Applyzed)
JD 132100753-0034	Pipe Insulation				Fositive Stop (Not Analyzed)
50	Basement - Air Cell				Positive Stop (Not Analyzed)
132100753-0035	Pipe Insulation				



		Non-Asbestos			Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
6A	Basement - Elbow on Air Cell Insulation	Gray Non-Fibrous		65% Non-fibrous (Other)	5% Amosite 30% Chrysotile
132100753-0036		Homogeneous			
6B	Basement - Elbow on Air Cell Insulation				Positive Stop (Not Analyzed)
60	Basement - Elbow on				Positive Stop (Not Analyzed)
00	Air Cell Insulation				
132100753-0038					
7A	Basement - Layered Paper Pipe Insulation	Gray Fibrous	40% Cellulose	10% Non-fibrous (Other)	50% Chrysotile
132100753-0039	December 1 and	Homogeneous			
/В 132100753-0040	Paper Pipe Insulation				Positive Stop (Not Analyzed)
70	Basement - Lavered				Positive Stop (Not Analyzed)
132100753-0041	Paper Pipe Insulation				
8A	Basement - Elbow on	White		55% Non-fibrous (Other)	45% Chrysotile
132100753-0042	Layered Paper Pipe Insulation	Non-Fibrous Homogeneous			
8B	Basement - Elbow on				Positive Stop (Not Analyzed)
100100750 0010	Layered Paper Pipe				
132100753-0043	Deservent Elhower				
132100753-0044	Basement - Elbow on Layered Paper Pipe Insulation				Positive Stop (Not Analyzed)
94	Basement - Boiler	Grav		60% Non-fibrous (Other)	40% Chrysotile
0,1	Insulation	Fibrous			
132100753-0045		Homogeneous			
9B	Basement - Boiler Insulation				Positive Stop (Not Analyzed)
132100753-0046	Decement Deiler				
90	Insulation				Positive Stop (Not Analyzed)
10A	Basement - MAG TSI	White		65% Non-fibrous (Other)	10% Amosite
132100753-0048		Fibrous Homogeneous			25% Chrysotile
10B	Basement - Boiler Insulation				Positive Stop (Not Analyzed)
132100753-0049					
10C	Basement - Boiler Insulation				Positive Stop (Not Analyzed)
132100753-0050		_			
11A	Basement - Elbow on MAG	Gray Non-Fibrous Homogeneous		30% Non-fibrous (Other)	70% Chrysotile
110	Basement Elbow on	Homogeneous			Positive Stop (Not Applyzed)
132100753-0052	MAG				
110	Basement - Elbow on				Positive Stop (Not Applyzed)
	MAG				r John o Otop (Not Analyzed)
132100753-0053					
12A	Basement - Beige 9x9 Floor Tile	Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0054		nomogeneous			



			Non-A	<u>sbestos</u>	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
12B	Basement - Beige 9x9 Floor Tile	Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0055		Homogeneous			
12C	Basement - Beige 9x9 Floor Tile	Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0056		Homogeneous			
13A	Basement - Mastic on Beige Tile	Yellow Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0057	December Martines	Nellaur			News Detected
13B	Basement - Mastic on Beige Tile	Yellow Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0058		Holliogeneous			
13C	Basement - Mastic on Beige Tile	Yellow Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0059	Descent Oreco	Oraca			
14A	Basement - Green 9x9 Floor Tile	Green Non-Fibrous		97% Non-fibrous (Other)	3% Chrysotile
140	Bacamont Croon	Tiomogeneous			Positive Step (Net Applyzed)
132100753-0061	9x9 Floor Tile				Positive Stop (Not Analyzed)
154	Basement - Mastic on	Black		100% Non-fibrous (Other)	None Detected
132100753-0062	Green Tile	Non-Fibrous Homogeneous			None Detected
15B	Basement - Mastic on	Black		100% Non-fibrous (Other)	None Detected
132100753-0063	Green Tile	Non-Fibrous Homogeneous			
 16A	Basement - Black 9x9	Black		97% Non-fibrous (Other)	3% Chrysotile
132100753-0064	Floor Tile	Non-Fibrous Homogeneous			
16B	Basement - Black 9x9 Floor Tile	_			Positive Stop (Not Analyzed)
132100753-0065					
16C	Basement - Black 9x9 Floor Tile				Positive Stop (Not Analyzed)
132100753-0066					
17A	Basement - Mastic on Black Tile	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0067		Homogeneous			
17B	Basement - Mastic on Black Tile	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0008	Decement Meetic on	Diask		1000/ Nam Shrave (Other)	Nexe Detected
132100753-0069	Basement - Mastic on Black Tile	Black Non-Fibrous Homogeneous		100% Non-tibrous (Other)	None Detected
19.0	Basement Soft	W/bite		90% Non fibrous (Other)	10% Charactile
132100753-0070	Levelilng Compound	Non-Fibrous Homogeneous			10% Chrysolie
100	Basement Soft	lioniogeneede			Positive Stop (Not Applyzed)
132100753-0071	Levelilng Compound				r Usilive Stop (Not Analyzeu)
194	Basement -	Grav		100% Non-fibrous (Other)	None Detected
132100753-0072	Cementitious Gray Wall Plaster	Non-Fibrous Homogeneous			
108	Basement	Grav		100% Non fibrous (Other)	None Detected
132100753-0073	Cementitious Gray Wall Plaster	Non-Fibrous			



		<u>Non-Asbestos</u>			Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
20A	Basement - Beige 12x12 Floor Tile	Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0074		Homogeneous			
20B	Basement - Beige 12x12 Floor Tile	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
132100753-0075	Descent Martines	Disal-Ofellawa			
21A 132100753-0076	Basement - Mastic on Beige 12x12 Floor Tile	Non-Fibrous		92% Non-fibrous (Other)	8% Chrysotlie
210	Bacamont Mastia an	Homogeneous			Positive Step (Net Applyzed)
21D	Beige 12x12 Floor				Positive Stop (Not Analyzed)
22.0	Basamant Brown	Brown	20/ Fibrous (Other)	07% Non fibrous (Other)	None Detected
132100753-0078	Glue on Columns	Non-Fibrous	3% Fibrous (Other)	97% Non-fibrous (Other)	None Detected
000	Becoment Drown	Desure		070/ New Shases (Other)	Name Detected
22B	Glue on Columns That Have Fiberboard	Brown Non-Fibrous Homogeneous	3% Fibrous (Other)	97% Non-fibrous (Other)	None Detected
224	Basement	White	85% Min Wool	15% Non fibrous (Other)	None Detected
23A 132100753-0080	White2'x2' Ceiling Tile	Fibrous Homogeneous			None Delected
23B	Basement -	White	85% Min Wool	15% Non-fibrous (Other)	None Detected
132100753-0081	White2'x2' Ceiling Tile	Fibrous Homogeneous			None Detected
230	Basement -	White	85% Min Wool	15% Non-fibrous (Other)	None Detected
132100753-0082	White2'x2' Ceiling Tile	Fibrous Homogeneous			None Detected
244	Basement - Brown	Brown/Tan	95% Cellulose	5% Non-fibrous (Other)	None Detected
270	Fiber Paper Ceiling	Fibrous			
132100753-0083	Tile with Holes	Homogeneous			
24B	Basement - Brown	Brown/Tan	95% Cellulose	5% Non-fibrous (Other)	None Detected
	Fiber Paper Ceiling	Fibrous			
132100753-0084	Lile with Holes	Homogeneous			
24C	Basement - Brown	Brown/Tan	95% Cellulose	5% Non-fibrous (Other)	None Detected
132100753-0085	Tile with Holes	Homogeneous			
25A	Basement - Ceiling	White		100% Non-fibrous (Other)	None Detected
	Plaster Skim Coat	Non-Fibrous			
132100753-0086		Homogeneous			
25B	Basement - Ceiling Plaster Skim Coat	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0087		Homogeneous			
26A	Basement - Ceiling Plaster	Gray Fibrous	2% Cellulose	98% Non-fibrous (Other)	None Detected
132100753-0088		Homogeneous			
26B	Basement - Ceiling Plaster	Gray Non-Fibrous	2% Cellulose	98% Non-fibrous (Other)	None Detected
132100753-0089		Homogeneous			
27A	Basement - 2'x4' Decorative Acoustic	Gray/White Fibrous	45% Cellulose 40% Min. Wool	15% Non-fibrous (Other)	None Detected
		Orecontraction	4504 0 - "		
∠/B 132100753-0091	Basement - 2'x4' Decorative Acoustic Ceiling Tile	Gray/white Fibrous	45% Cellulose 40% Min. Wool	15% Non-Tibrous (Uther)	None Detected
		Diale			New Detect
28A	2nd Floor - Pink 12x12 Floor Tile	Pink Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100133-0092		nomogeneous			



		Non-Asbestos			Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
29A	2nd Floor - Mastic on Pink 12x12 Floor Tile	Yellow Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0093		Homogeneous			
30A	2nd Floor - Concrete Under Pink Tile	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0094		Homogeneous			
30B	2nd Floor - Concrete Under Pink Tile	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0095		Homogeneous			
31A	2nd Floor - Room 203 - Rose 12x12 Floor Tile	Pink Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0090		Vallass			News Detected
32A	2nd Floor - Room 203 - Mastic on Rose 12x12 Floor Tile	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
22.4	2nd Eloor Room 203	Tan		100% Non fibrous (Other)	None Detected
132100753-0098	- Tan 12x12 Floor Tile	Non-Fibrous Homogeneous			None Delected
344	2nd Floor - Room 203	Yellow		100% Non-fibrous (Other)	None Detected
132100753-0099	- Mastic on Tan 12x12 Floor Tile	Non-Fibrous Homogeneous			
35A	2nd Floor -	Gray		100% Non-fibrous (Other)	None Detected
132100753-0100	Bathrooms - Gray Floor Tile	Non-Fibrous Homogeneous		· · ·	
36A	2nd Floor -	Yellow		100% Non-fibrous (Other)	None Detected
132100753-0101	Bathrooms - Mastic on Gray Floor Tile	Non-Fibrous Homogeneous			
37A	2nd Floor - Deteriorated Flooring	Gray/Red Fibrous	20% Cellulose	80% Non-fibrous (Other)	None Detected
132100753-0102	Brick Pattern	Homogeneous			
38A	2nd Floor - Deteriorated Flooring	Gray Fibrous	20% Cellulose	80% Non-fibrous (Other)	None Detected
132100753-0103	Brown	Homogeneous			
39A	2nd Floor - Deteriorated Flooring	Gray/Red Fibrous	3% Cellulose	97% Non-fibrous (Other)	None Detected
132100753-0104	Red	Homogeneous			
40A	2nd Floor - Pyro Block	Gray/Tan Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
400	2nd Eloor Dyro	Gray/Tan	2% Cellulose	08% Non fibrous (Other)	None Detected
132100753-0106	Block	Fibrous Homogeneous	270 Celiulose		None Detected
41A	2nd Floor - Tan 9x9 Floor Tile	Tan Non-Fibrous		95% Non-fibrous (Other)	5% Chrysotile
132100753-0107		Homogeneous			
41B	2nd Floor - Tan 9x9 Floor Tile				Positive Stop (Not Analyzed)
132100753-0108					
42A	2nd Floor - Mastic on Tan 9x9 Floor Tile	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0109		Homogeneous			
42B	2nd Floor - Mastic on Tan 9x9 Floor Tile	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0110		nomogeneous			
43A	2nd Floor - Ceiling Plaster	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100/33-0111		nomogeneous			



		Non-Asbestos			Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
43B	2nd Floor - Ceiling Plaster	Gray/White Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0112		Homogeneous			
44A	2nd Floor - Black Coating on Cork	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0113	Ceiling Layer	Homogeneous			
44B	2nd Floor - Black Coating on Cork	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0114		Homogeneous			
45A	3rd Floor - Gray Floor Leveler Under Carpet	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
46 4	2rd Floor White	White		100% Non fibrous (Other)	None Detected
40A	Floor Leveler Under Carpet	Non-Fibrous		100% Non-fibrous (Other)	None Detected
470	3rd Eloor	Tan/Green		100% Non fibrous (Other)	None Detected
132100753-0117	Black/Green Floor Leveler Under Carpet	Non-Fibrous Homogeneous			None Delected
484	Floors 1-5 South	Red		95% Non-fibrous (Other)	5% Chrysotile
132100753-0118	Stairwell - Red 9x9 Floor Tile	Non-Fibrous Homogeneous			
49A	Floors 1-5 South	Black		100% Non-fibrous (Other)	None Detected
132100753-0119	Stairwell - Mastic on Red 9x9 Floor Tile	Non-Fibrous Homogeneous			
50A	Floors 1-5 South	Black		95% Non-fibrous (Other)	5% Chrysotile
132100753-0120	Stairwell - Black 9x9 Floor Tile	Non-Fibrous Homogeneous			-
51A	Floors 1-5 South Stairwell - Mastic on	Black Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
132100753-0121	Black 9x9 Floor Tile	Homogeneous			
52A	1st Floor South Stairwell - Tan 9x9	Tan Non-Fibrous		95% Non-fibrous (Other)	5% Chrysotile
132100753-0122	Floor Tile	Homogeneous			
53A	1st Floor South Stairwell - Mastic on	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
<u>132100753-0123</u>		Romogeneous			5% Obstratile
54A 132100753-0124	Stairwell - Green Stair Tread	Green Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
554	1st Floor South	Brown/Black		95% Non-fibrous (Other)	5% Chrysotile
132100753-0125	Stairwell - Mastic on Green Stair Tread	Fibrous Homogeneous			
56A	1st Floor South	Gray		100% Non-fibrous (Other)	None Detected
132100753-0126	Stairwell - Terrazzo Floor	Non-Fibrous Homogeneous			
56B	1st Floor	Tan		100% Non-fibrous (Other)	None Detected
132100753-0127	Crawlspace/Attic - White Terrazzo Floor	Non-Fibrous Homogeneous			
57A	4th Floor Landing in South Stairwell - Sand	Tan Non-Fibrous		95% Non-fibrous (Other)	5% Chrysotile
132100753-0128	9x9 Floor Tile	Homogeneous			
58A	4th Floor Landing in South Stairwell -	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0129	Mastic on Sand 9x9 Floor Tile	Homogeneous			



		Non-Asbestos			Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
59A	5th Floor South	Tan		100% Non-fibrous (Other)	None Detected
	Stairwell - Pink Floor	Non-Fibrous			
132100753-0130	Tile	Homogeneous			
60A	5th Floor South	Brown/Tan		95% Non-fibrous (Other)	5% Chrysotile
400400750 0404	Stairwell - Mastic on	Non-Fibrous			
132100753-0131	PINK FIOOF THE	Homogeneous			
61A	5th Floor South	Gray		100% Non-fibrous (Other)	None Detected
132100753-0132	Stallwell - Gray Floor Tile	Homogeneous			
		Drawn (Terr			5% Chrystile
62A	Stainwell - Mastic on	Brown/Tan Non-Fibrous		95% Non-librous (Other)	5% Chrysotile
132100753-0133	Grav Floor Tile	Homogeneous			
634	5th Floor South	Grav/Red	15% Cellulose	85% Non-fibrous (Other)	None Detected
007	Stairwell - Burlap	Fibrous			
132100753-0134	Backed Floor	Homogeneous			
64A	3rd Floor - Beige	Beige		100% Non-fibrous (Other)	None Detected
	Floor Tile	Non-Fibrous			
132100753-0135		Homogeneous			
64B	4th Floor - Beige	Tan		100% Non-fibrous (Other)	None Detected
	Floor Tile	Non-Fibrous			
132100753-0136		Homogeneous			
65A	3rd Floor - Mastic on	Black		100% Non-fibrous (Other)	None Detected
122100752 0127	Beige Floor Tile	Non-Fibrous			
132100753-0137		Homogeneous			524 - 01 - 11
65B	4th Floor - Mastic on Beige Eleor Tile	Brown Non Eibrous		95% Non-fibrous (Other)	5% Chrysotile
132100753-0138	Deige Floor The	Homogeneous			
664	3rd Floor - 3/4	Tan/M/hite		90% Non-fibrous (Other)	None Detected
UUA	Addition Drywall	Fibrous			None Delected
132100753-0139	,	Homogeneous			
66B	3rd Floor - 3/4	Tan/White	10% Cellulose	90% Non-fibrous (Other)	None Detected
	Addition Drywall	Fibrous			
132100753-0140		Homogeneous			
27C	4th Floor - Decorative	Gray	45% Cellulose	15% Non-fibrous (Other)	None Detected
	Acoustic Tile	Fibrous	40% Min. Wool		
132100753-0141		Homogeneous			
67A	3rd Floor - 3/4	White		100% Non-fibrous (Other)	None Detected
100100750 0110	Addition Joint	Non-Fibrous			
132100753-0142	Compound	Homogeneous			
67B	3rd Floor - 3/4	White Non Eibroug		100% Non-fibrous (Other)	None Detected
132100753-0143	Compound	Homogeneous			
694	3rd Eloor 3/4	Tan		100% Non fibrous (Other)	None Detected
	Addition - Beige Floor	Non-Fibrous			None Delected
132100753-0144	Tile	Homogeneous			
68B	3rd Floor - 3/4	Tan		100% Non-fibrous (Other)	None Detected
	Addition - Beige Floor	Non-Fibrous			
132100753-0145	Tile	Homogeneous			
69A	3rd Floor - 3/4	Yellow		100% Non-fibrous (Other)	None Detected
	Addition - Yellow	Non-Fibrous			
132100753-0146	Mastic on Beige Floor	Homogeneous			
					N 5 ())
69B	3rd Floor - 3/4	Yellow		100% Non-tibrous (Other)	None Detected
132100753-0147	Mastic on Beige Floor	Homogeneous			
	Tile				



		Non-Asbestos			Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
70A	3rd Floor Office 345 - TSI Paper Under Hardwood Floor in	Gray/Tan Fibrous Homogeneous	40% Cellulose	20% Non-fibrous (Other)	40% Chrysotile
	Closet	Tomogeneous			
70B	3rd Floor Office 320 - TSI Paper Under				Positive Stop (Not Analyzed)
132100753-0149	Hardwood Floor in Closet				
70C	4th Floor - Gray TSI Paper Under				Positive Stop (Not Analyzed)
132100753-0150	Hardwood Floor in Closet				
63B	4th Floor - Burlap Backed Floor	Gray Fibrous	15% Cellulose	85% Non-fibrous (Other)	None Detected
132100753-0151		Homogeneous			
66C	4th Floor - Drywall	Tan/White Fibrous	15% Cellulose	85% Non-fibrous (Other)	None Detected
132100753-0152		Homogeneous			
67C	4th Floor - Joint Compound	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0153		Homogeneous			
71A	3rd Floor Office 345 - White 12x12 VFT	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0154		Homogeneous			
72A	3rd Floor Office 345 - Mastic on White	Yellow Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0155	12x12 VFT	Homogeneous			
73A	3rd Floor Office 320 - Beige 9x9 Floor Tile	Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected
		Homogeneous	45% 0 - 11-1		Nexa Detected
74A	Mastic on Beige 9x9	Ian/Black Non-Fibrous	15% Cellulose	85% Non-fibrous (Other)	None Detected
762100700 0107	2rd Eleon Black	Plack	60% Colluloso	40% Non fibrous (Other)	None Detected
132100753-0158	Paper Under 9x9	Fibrous			None Delected
752100733-0130	2rd Eleon Black	Plack		20% Non fibrous (Other)	None Detected
132100753-0159	Paper Under 9x9 Floor Tile	Fibrous	70% Celulose		None Delected
75C	4th Floor - Black	Black		100% Non-fibrous (Other)	None Detected
132100753-0160	Paper Under 9x9	Fibrous			
76A	3rd Floor - White	Gray/White	5% Cellulose	93% Non-fibrous (Other)	None Detected
132100753-0161	LINOIEUM	Homogeneous			
77A	3rd Floor - Duct Sealant	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0162	ocalant	Homogeneous			
78A	3rd Floor - Wall Plaster on Wood	Gray Fibrous	2% Hair	98% Non-fibrous (Other)	None Detected
132100753-0163	Lathe	Homogeneous			
78B	4th Floor - Wall Plaster on Wood	Gray Fibrous	3% Hair	97% Non-fibrous (Other)	None Detected
132100753-0164	Lathe	Homogeneous			
79A	3rd Floor - Tan 12x12 Floor Tile	Tan Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0165		Homogeneous			



		Non-Asbestos			Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
80A	3rd Floor - Mastic on	Yellow		100% Non-fibrous (Other)	None Detected
132100753-0166	Tan 12x12 Floor Tile	Non-Fibrous Homogeneous			
81A	3rd Floor - Black	Black		100% Non-fibrous (Other)	None Detected
132100753-0167	12x12 Floor Tile	Non-Fibrous Homogeneous			
924	3rd Floor Mastic on	Vellow		100% Non fibrous (Other)	None Detected
02A	Black 12x12 Floor Tile	Non-Fibrous			None Delected
132100753-0168		-			524 - 01 - 111
83A	3rd Floor - Brown/Green 9x9	Ian Fibrous		95% Non-fibrous (Other)	5% Chrysotile
132100753-0169	Floor Lile	Homogeneous			
84A	3rd Floor - Mastic on Brown/Green 9x9	Black Fibrous	5% Cellulose	95% Non-fibrous (Other)	None Detected
132100753-0170	Floor Tile	Homogeneous			
85A	3rd Floor - Beige/Pink 12x12 Floor Tile	Pink/Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0171		Homogeneous			
86A	3rd Floor - Mastic on eige/Pink 12x12 Floor	Tan Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0172	Tile	Homogeneous			
87A	4th Floor - Blue Linoleum in Kitchen	Gray Fibrous	35% Cellulose 5% Glass	60% Non-fibrous (Other)	None Detected
132100753-0173		Homogeneous			
88A	4th Floor - Kitchen Sink Coating	Pink Non-Fibrous		95% Non-fibrous (Other)	5% Chrysotile
132100753-0174		Homogeneous			
89A	4th Floor - White 12x12 Floor Tile	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0175		Homogeneous			
90A	4th Floor - Mastic on White 12x12 Floor	Yellow Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0176	Tile	Homogeneous			
91A	4th Floor - Beige 12x12 Floor Tile	Tan Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0177		Homogeneous			
92A	4th Floor - Mastic on Beige 12x12 Floor	Yellow Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0178	Lile	Homogeneous			
93A	4th Floor - 2nd Layer Floor Tile Under New	Tan Non-Fibrous		97% Non-fibrous (Other)	3% Chrysotile
132100753-0179	Wood Flooring	Homogeneous			
94A	4th Floor - Mastic on 2nd Layer Tile	Yellow Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0180		Homogeneous			
95A	4th Floor - Tan Floor 12x12 Floor Tile	Tan Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0181		Homogeneous			
96A	4th Floor - Mastic on Tan Tile	Yellow Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0182		nomogeneous			
97A	4th ⊢loor - Black 2nd Layer Tile Under Tan	Black Non-Fibrous		100% Non-tibrous (Other)	None Detected
132100753-0183		nomogeneous			
98A	4th Floor - Mastic on Black Tile	Yellow Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100133-0104		nomogeneous			



			Asbestos		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
99A	4th Floor - Black Paper Under Black	Black Fibrous	80% Cellulose	20% Non-fibrous (Other)	None Detected
132100753-0185	Tile	Homogeneous			
100A	4th Floor - Gray Floor Leveling Compound	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0186		Homogeneous			
101A	4th Floor - Skim Coat Plaster	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
1000	Ath Flags Dags Coat	Crew	00/ 11-1-	00% Non fibrous (Other)	Name Detected
102A	4th Floor - Base Coat Plaster	Gray Fibrous Homogeneous	2% Hair	98% Non-fidrous (Other)	None Detected
100 100 100 100	Ath Flags Disates as	Crew	20/ 11-1-	07% Non fibrous (Other)	Name Detected
103A	Ath Floor - Plaster on Lathe	Fibrous	3% Hair	97% Non-fibrous (Other)	None Detected
132100753-0189		Homogeneous			
104A	4th Floor - Brown Exterior Window	Brown Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0190	Frame Caulk	Homogeneous			
105A	1st Floor - Tan 9x9 Floor Tile	Tan Non-Fibrous		97% Non-fibrous (Other)	3% Chrysotile
132100753-0191		Homogeneous			
106A	1st Floor - Mastic on Floor Tile	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
1074	1st Eleer Vellow	Cray/Tan	12% Class	88% Non fibrous (Other)	Nono Detected
107A 132100753-0193	Linoleum	Fibrous Homogeneous	12% Glass	86% NOT-HOROUS (Other)	None Detected
1084	1st Floor - Green	Black/Green	40% Cellulose	60% Non-fibrous (Other)	None Detected
132100753-0194	Linoleum	Fibrous Homogeneous	4070 00101030		None Detected
109A	1st Floor - Black Floor Paper	Black Fibrous	80% Cellulose	20% Non-fibrous (Other)	None Detected
132100753-0195		Homogeneous			
110A	1st Floor - Gray Troweled On Wall	Gray Fibrous	3% Hair	97% Non-fibrous (Other)	None Detected
132100753-0196	Plaster	Homogeneous			
105B	1st Floor - Tan 9x9 Floor Tile				Positive Stop (Not Analyzed)
132100753-0197					
106B	1st Floor - Mastic on Tan 9x9 Floor Tile	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100733-0198		GraudAthita		45% Non Shroup (Other)	
111A	Ist Floor - White Insulation on	Fibrous		45% Non-fibrous (Other)	55% Chrysotile
132100753-0199		Homogeneous			
132100753-0200	Insulation on Ducts/Air Handler				Positive Stop (Not Analyzed)
1110	1 at Eleon White				Positive Step (Net Applyzed)
132100753-0201	Insulation on Ducts/Air Handler				Positive Stop (Not Analyzeu)
112A	1st Floor - Brown	Brown	10% Cellulose	5% Non-fibrous (Other)	None Detected
132100753-0202	Insulation on Ducts/Air Handler	Fibrous Homogeneous	85% Min. Wool		HONG DELEVIEU
 112B	1st Floor - Brown	Brown	10% Cellulose	5% Non-fibrous (Other)	None Detected
	Insulation on	Fibrous	85% Min. Wool		
132100753-0203	Ducts/Air Handler	Homogeneous			



		Non-Asbestos			Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
112C	1st Floor - Brown Insulation on	Brown Fibrous	10% Cellulose 85% Min. Wool	5% Non-fibrous (Other)	None Detected
132100753-0204	Ducts/Air Handler	Homogeneous			
113A	1st Floor - Gray 12x12 Floor Tile	Blue Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0205		Homogeneous			
114A	1st Floor - Mastic on Gray 12x12 Floor Tile	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
132100733-0200		Tiomogeneous	400/ 0 - 11 - 1		New Patricked
ПЭА	Flooring Below	Fibrous	10% Cellulose	90% Non-librous (Other)	None Detected
132100753-0207	Stairwell in Post Office	Homogeneous			
116A	1st Floor - Mastic on	Brown/Black	35% Cellulose	65% Non-fibrous (Other)	None Detected
	Yellow Flooring	Fibrous			
132100753-0208		Homogeneous			
117A	5th Floor - Gray Leveling Compound	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0209		Romoyeneous			News Detected
118A	5th Floor - Blue 12x12 Floor Tile	Blue Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0210		Homogeneous			
 119A	5th Floor - Mastic on	Black		100% Non-fibrous (Other)	None Detected
132100753-0211	Blue 12x12 Floor Tile	Non-Fibrous Homogeneous			
120A	5th Floor - White	Tan		100% Non-fibrous (Other)	None Detected
	12x12 Floor Tile	Non-Fibrous			
132100753-0212		Homogeneous			
121A	5th Floor - Mastic on White 12x12 Floor	Black		100% Non-fibrous (Other)	None Detected
132100753-0213	Tile	Homogeneous			
 122A	5th Floor - 2'x2'	Grav/White	95% Min Wool	5% Non-fibrous (Other)	None Detected
	Acoustic Ceiling Tile	Fibrous			
132100753-0214	_	Homogeneous			
123A	5th Floor - Linoleum on Kitchen Step	Tan Fibrous	10% Cellulose 3% Synthetic	87% Non-fibrous (Other)	None Detected
132100753-0215		Homogeneous			
124A	6th Floor - Tan+Brown 12x12 Floor Tile	Tan Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0216		Homogeneous			
124B	6th Floor - Tan+Brown 12x12 Floor Tile	Tan Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0217		Homogeneous			
125A	6th Floor - Mastic on Tan+Brown 12x12	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0218		Homogeneous			
125B	6th Floor - Mastic on Tan+Brown 12x12 Eloor Tile	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
1000	Ath Eloca Drawell	Ton/M/bito		00% Non fibratio (Other)	Nono Dotacted
120A	otti Fiool - Drywall	Fibrous			
132100753-0220		Homogeneous			
126B	6th Floor - Drywall	Tan/White Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
132100753-0221		Homogeneous			



			Non-Asbe	stos	<u>Asbestos</u>
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
126C	6th Floor - Drywall	Tan/White Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
132100753-0222		Homogeneous			
127A	6th Floor - Joint Compound	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0223		Homogeneous			
127B	6th Floor - Joint Compound	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0224		Homogeneous			
127C	6th Floor - Joint Compound	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0225		Homogeneous			
128A	6th Floor - Skim Coat Plaster	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0226		Homogeneous			
128B	6th Floor - Skim Coat Plaster	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0227 4		Homogeneous			
128C	6th Floor - Skim Coat	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0228	1 103(6)	Homogeneous			
129A	6th Floor - Base Coat Plaster	Gray Fibrous	2% Hair	98% Non-fibrous (Other)	None Detected
132100753-0229		Homogeneous			
129B	6th Floor - Base Coat Plaster	Gray Fibrous	2% Hair	98% Non-fibrous (Other)	None Detected
132100753-0230		Homogeneous			
129C	6th Floor - Base Coat Plaster	Gray Fibrous	2% Hair	98% Non-fibrous (Other)	None Detected
132100753-0231		Homogeneous			
130A	6th Floor - Brown Ext. Window Frame Caulk	Brown Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0232		Homogeneous			
130B	6th Floor - Brown Ext. Window Frame Caulk	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0255		Romoyeneous		1000/ Neg Shrave (Other)	Name Data stad
131A 132100753-0234	Floor Tile	Non-Fibrous		100% Non-hbrous (Other)	None Detected
1210	6th Eloor White	Homogeneous			Not Submitted
132100753-0235	Floor Tile				Not Submitted
1324	6th Floor - Mastic on	Black		100% Non-fibrous (Other)	None Detected
102/	White Floor Tile	Non-Fibrous			
132100753-0236		Homogeneous			
132B	6th Floor - Mastic on White Floor Tile				Not Submitted
132100753-0237					
133A	6th Floor - Black Paper in Attic	Black Fibrous	50% Cellulose	50% Non-fibrous (Other)	None Detected
132100753-0238		Crew(M/Lite			New Detected
134A	6th Floor - Mortar on Terracotta Wall	Gray/White Non-Fibrous		100% Non-fibrous (Other)	None Detected
132100753-0239	BIOCKS IN Attic	Homogeneous	0001 0 11 1	00/ N: 7	
135A	Garage - 2nd Floor - Floor Paper Below	Brown Fibrous	98% Cellulose	2% Non-fibrous (Other)	None Detected
		nomogeneous			



			Non-Asbestos		<u>Asbestos</u>
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
117B	5th Floor - Gray Leveling Compound				Not Submitted
132100753-0241	Under Carpet				
31	5th Floor - Drywall	Tan/White Fibrous	2% Cellulose 2% Glass	96% Non-fibrous (Other)	None Detected
132100753-0242		Homogeneous			
78C	1st Floor - Plaster on Wood Lathe	Gray Fibrous	2% Hair	98% Non-fibrous (Other)	None Detected
132100753-0243		Homogeneous			

Analyst(s)

Elizabeth Stutts (101) John McCarthy (114)

P.

Steve Grise, Laboratory Manager or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Woburn, MA NVLAP Lab Code 101147-0, CT PH-0315, MA AA000188, RI AAL-139, VT AL998919, ME LB-0039



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Sample #	HA #	Sample Location	Material Description
1 G	1	5th floor	skim coat plaster 1/21/21
2A	2	basement	base coat plaster 1/20/21
2B	2	basement	base coat plaster 1/20/21
2C	2	basement	base coat plaster 1/20/21
2D	2	2nd floor	base coat plaster 1/20/21
2E	2	3rd floor	base coat plaster 1/21/21
2F	2	1st floor	base coat plaster 1/21/21
2G	2	5th floor	base coat plaster 1/21/21
3A	3	basement	drywall 1/20/21
3B	3	basement	drywall 1/20/21
3C	3	basement	drywall 1/20/21
3D	3	2nd floor	drywall 1/20/21
3E	3	3rd floor	drywall 1/20/21
3F	3	3rd floor	drywall 1/20/21
3G	3	4th floor	drywall 1/21/21
3H	3	1st floor	drywall 1/21/21
4A	4	basement	joint compound 1/20/21
4B	4	basement	joint compound 1/20/21
4C	4	basement	joint compound 1/20/21
4D	4	2nd floor	joint compound 1/20/21
4E	4	3rd floor	joint compound 1/20/21

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4F	4	3rd floor	joint compound 1/20/21
4G	4	4th floor	joint compound 1/20/21
4H	4	4th floor	joint compound 1/21/21
41	4	1st floor	joint compound 1/21/21
4J	4	5th floor	joint compound 1/21/21
5A	5	basement	air cell pipe insulation 1/20/21
5B	5	basement	air cell pipe insulation 1/20/21
5C	5	basement	air cell pipe insulation 1/20/21
6A	6	basement	elbow on air cell insulation 1/20/21
6B	6	basement	elbow on air cell insulation 1/20/21
6C	6	basement	elbow on air cell insulation 1/20/21
7A	7	basement	layered paper pipe insulation 1/20/21
7B	7	basement	layered paper pipe insulation 1/20/21
7C	7	basement	layered paper pipe insulation 1/20/21
8A	8	basement	elbow on layered paper pipe insulation 1/20/21
8B	8	basement	elbow on layered paper pipe insulation 1/20/21
8C	8	basement	elbow on layered paper pipe insulation 1/20/21
9A	9	basement	boiler insulation 1/20/21
9B	9	basement	boiler insulation 1/20/21
9C	9	basement	boiler insulation 1/20/21
10A	10	basement	MAG TSI 1/20/21

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Sample #	HA #	Sample Location	Material Description
10B	10	basement	boiler insulation 1/20/21
10C	10	basement	boiler insulation 1/20/21
11A	11	basement	elbow on MAG 1/20/21
11B	11	basement	elbow on MAG 1/20/21
11C	11	basement	elbow on MAG 1/20/21
12A	12	basement	beige 9x9 floor tile 1/20/21
12B	12	basement	beige 9x9 floor tile 1/20/21
12C	12	basement	beige 9x9 floor tile 1/20/21
13A	13	basement	mastic on beige tile 1/20/21
13B	13	basement	mastic on beige tile 1/20/21
13C	13	basement	mastic on beige tile 1/20/21
14A	14	basement	green 9x9 floor tile 1/20/21
14B	14	basement	green 9x9 floor tile 1/20/21
15A	15	basement	mastic on green tile 1/20/21
15B	15	basement	mastic on green tile 1/20/21
16A	16	basement	black 9x9 floor tile 1/20/21
16B	16	basement	black 9x9 floor tile 1/20/21
16C	16	basement	black 9x9 floor tile 1/20/21
17A	17	basement	mastic on black tile 1/20/21
17B	17	basement	mastic on black tile 1/20/21
17C	17	basement	mastic on black tile 1/20/21

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Sample #	HA #	Sample Location	Material Description
18A	18	basement	soft leveling compound under black tile 1/20/21
18B	18	basement	soft leveling compound under black tile 1/20/21
19A	19	basement	cementitious gray wall plaster 1/20/21
19B	19	basement	cementitious gray wall plaster 1/20/21
20A	20	basement	beige 12x12 floor tile 1/20/21
20B	20	basement	beige 12x12 floor tile 1/20/21
21A	21	basement	mastic on beige 12x12 floor tile 1/20/21
21B	21	basement	mastic on beige 12x12 floor tile 1/20/21
22A	22	basement	brown glue on columns that have fiber board 1/20/21
22B	22	basement	brown glue on columns that have fiber board 1/20/21
23A	23	basement	white 2'x2' ceiling tile 1/20/21
23B	23	basement	white 2'x2' ceiling tile 1/20/21
23C	23	basement	white 2'x2' ceiling tile 1/20/21
24A	24	basement	brown fiber paper ceiling tile with holes 1/20/21
24B	24	basement	brown fiber paper ceiling tile with holes 1/20/21
24C	24	basement	brown fiber paper ceiling tile with holes 1/20/21
25A	25	basement	ceiling plaster - skim coat 1/20/21
25B	25	basement	ceiling plaster - skim coat 1/20/21
26A	26	basement	ceiling plaster 1/20/21
26B	26	basement	ceiling plaster 1/20/21
27A	27	basement	2'x4' decorative acoustic ceiling tile 1/20/21

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Sample #	HA #	Sample Location	Material Description
27B	27	basement	2'x4' decorative acoustic ceiling tile 1/20/21
28A		2nd floor	pink 12"x12" floor tile 1/20/21
29A		2nd floor	mastic on pink 12"x12" floor tile 1/20/21
30A	30	2nd floor	concrete under pink tile 1/20/21
30B	30	2nd floor	concrete under pink tile 1/20/21
31A		2nd floor - room 203	rose 12"x12" floor tile 1/20/21
32A		2nd floor - room 203	mastic on rose 12"x12" floor tile 1/20/21
33A		2nd floor - room 203	tan 12"x12" floor tile 1/20/21
34A		2nd floor - room 203	mastic on tan 12"x12" floor tile 1/20/21
35A		2nd floor - bathrooms	gray floor tile 1/20/21
36A		2nd floor - bathrooms	mastic on gray floor tile 1/20/21
37A		2nd floor	deteriorated flooring brick pattern 1/20/21
38A		2nd floor	deteriorated flooring brown 1/20/21
39A		2nd floor	deteriorated flooring red 1/20/21
40A	40	2nd floor	pyro block 1/20/21
40B	40	2nd floor	pyro block 1/20/21
41A	41	2nd floor	tan 9"x9" floor tile 1/20/21
41B	41	2nd floor	tan 9"x9" floor tile 1/20/21
42A	42	2nd floor	mastic on tan 9"x9" floor tile 1/20/21
42B	42	2nd floor	mastic on tan 9"x9" floor tile 1/20/21
43A	43	2nd floor	ceiling plaster 1/20/21

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Sample #	HA #	Sample Location	Material Description
43B	43	2nd floor	ceiling plaster 1/20/21
44A	44	2nd floor	black coating on cork ceiling layer 1/20/21
44B	44	2nd floor	black coating on cork ceiling layer 1/20/21
45A		3rd floor	gray floor leveler under carpet 1/20/21
46A		3rd floor	white floor leveler under carpet 1/20/21
47A		3rd floor	black/green floor leveler under carpet 1/20/21
48A		floors 1-5 south stairwell	red 9"x9" floor tile 1/20/21
49A		floors 1-5 south stairwell	mastic on red 9"x9" floor tile 1/20/21
50A		floors 1-5 south stairwell	black 9"x9" floor tile 1/20/21
51A		floors 1-5 south stairwell	mastic on black 9"x9" floor tile 1/20/21
52A		1st floor south stairwell	tan 9"x9" floor tile 1/20/21
53A		1st floor south stairwell	mastic on tan 9"x9" floor tile 1/20/21
54A		1st floor south stairwell	green stair tread 1/20/21
55A		1st floor south stairwell	mastic on stair tread 1/20/21
56A	56	1st floor south stairwell	terrazzo floor 1/20/21
56B	56	1st floor crawl space/attic	white terrazzo floor 1/21/21
57A		4th floor landing in south stairwell	sand 9"x9" floor tile 1/20/21
58A		4th floor landing in south stairwell	mastic on sand 9"x9" floor tile 1/20/21
59A		5th floor south stairwell	pink floor tile 1/20/21
60A		5th floor south stairwell	mastic on pink floor tile 1/20/21
61A		5th floor south stairwell	gray floor tile 1/20/21

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Sample #	HA #	Sample Location	Material Description
62A		5th floor south stairwell	mastic on gray floor tile 1/20/21
63A	63	5th floor south stairwell	burlap-backed floor 1/20/21
64A	64	3rd floor	beige floor tile 1/21/21
64B	64	4th floor	beige floor tile 1/21/21
65A	65	3rd floor	mastic on beige floor tile 1/21/21
65B	65	4th floor	mastic on beige floor tile 1/21/21
66A	66	3rd floor	3/4 addition drywall 1/21/21
66B	66	3rd floor	3/4 addition drywall 1/21/21
27C	27	4th floor	decorative acoustic tile 1/21/21
67A	67	3rd floor	3/4 addition joint compound 1/21/21
67B	67	3rd floor	3/4 addition joint compound 1/21/21
68A	68	3rd floor - 3/4 addition	beige floor tile 1/21/21
68B	68	3rd floor - 3/4 addition	beige floor tile 1/21/21
69A	69	3rd floor - 3/4 addition	yellow mastic on beige floor tile 1/21/21
69B	69	3rd floor - 3/4 addition	yellow mastic on beige floor tile 1/21/21
70A	70	3rd floor office 345	TSI paper under hardwood floor in closet 1/21/21
70B	70	3rd floor office 320	TSI paper under hardwood floor in closet 1/21/21
70C	70	4th floor	Gray TSI paper under hardwood floor in closet 1/21/21
63B	63	4th floor	burlap-backed floor 1/21/21
66C	66	4th floor	drywall 1/21/21
67C	67	4th floor	joint compound 1/21/21

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Sample #	HA #	Sample Location	Material Description
71A		3rd floor office 345	white 12"x12" VFT 1/21/21
72A		3rd floor office 345	mastic on white 12"x12" VFT 1/21/21
73A		3rd floor office 320	beige 9"x9" floor tile 1/21/21
74A		3rd floor office 320	mastic on beige 9"x9" floor tile 1/21/21
75A	75	3rd floor	black paper under 9"x9" floor tile 1/21/21
75B	75	3rd floor	black paper under 9"x9" floor tile 1/21/21
75C	75	4th floor	black paper under 9"x9" floor tile 1/21/21
76A		3rd floor	white linoleum 1/21/21
77A		3rd floor	duct sealant 1/21/21
78A	78	3rd floor	wall plaster on wood lathe 1/21/21
78B	78	4th floor	wall plaster on wood lathe 1/21/21
79A		3rd floor	tan 12"x12" floor tile 1/21/21
80A		3rd floor	mastic on tan 12"x12" floor tile 1/21/21
81A		3rd floor	black 12"x12" floor tile 1/21/21
82A		3rd floor	mastic on black 12"x12" floor tile 1/21/21
83A		3rd floor	brown/green 9"x9" floor tile 1/21/21
84A		3rd floor	mastic on brown/green 9"x9" floor tile 1/21/21
85A		3rd floor	beige/pink 12"x12" floor tile 1/21/21
86A		3rd floor	mastic on beige/pink 12"x12" floor tile 1/21/21
87A		4th floor	blue linoleum in kitchen 1/21/21
88A		4th floor	kitchen sink coating 1/21/21

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Sample #	HA #	Sample Location	Material Description	
89A		4th floor	white 12"x12" floor tile 1/21/21	
90A		4th floor	mastic on white 12"x12" floor tile 1/21/21	
91A		4th floor	beige 12"x12" floor tile 1/21/21	
92A		4th floor	mastic on beige 12"x12" floor tile 1/21/21	
93A		4th floor	2nd layer floor tile under new wood flooring 1/21/21	
94A		4th floor	mastic on 2nd layer tile 1/21/21	
95A		4th floor	tan floor 12"x12" floor tile 1/21/21	
96A		4th floor	mastic on tan tile 1/21/21	
97A		4th floor	black 2nd layer tile under tan tile 1/21/21	
98A		4th floor	mastic on black tile 1/21/21	
99A		4th floor	black paper under black tile 1/21/21	
100A		4th floor	gray floor leveling compound 1/21/21	
101A		4th floor	skim coat plaster 1/21/21	
102A		4th floor	base coat plaster 1/21/21	
103A		4th floor	plaster on lathe 1/21/21	
104A		4th floor	brown exterior window frame caulk 1/21/21	
105A	105	1st floor	tan 9"x9" floor tile 1/21/21	
106A	106	1st floor	mastic on floor tile 1/21/21	
107A		1st floor	yellow linoleum 1/21/21	
108A		1st floor	green linoleum 1/21/21	
109A		1st floor	black floor paper 1/21/21	
*Commer	*Comments/Special Instructions:			

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Sample #	HA #	Sample Location	Material Description
110A		1st floor	gray troweled-on wall plaster 1/21/21
105B	105	1st floor	tan 9"x9" floor tile 1/21/21
106B	106	1st floor	mastic on tan 9"x9" floor tile 1/21/21
111A	111	1st floor	white insulation on ducts/air handler 1/21/21
111B	111	1st floor	white insulation on ducts/air handler 1/21/21
111C	111	1st floor	white insulation on ducts/air handler 1/21/21
112A	112	1st floor	brown insulation on ducts/air handler 1/21/21
112B	112	1st floor	brown insulation on ducts/air handler 1/21/21
112C	112	1st floor	brown insulation on ducts/air handler 1/21/21
113A		1st floor	gray 12"x12" floor tile 1/21/21
114A		1st floor	mastic on gray 12"x12" floor tile 1/21/21
115A		1st floor	yellow flooring below stairwell in post office closet 1/21/21
116A		1st floor	mastic on yellow flooring 1/21/21
117A	117	5th floor	gray leveling compound under carpet 1/21/21
118A		5th floor	blue 12"x12" floor tile 1/21/21
119A		5th floor	mastic on blue 12"x12" floor tile 1/21/21
120A		5th floor	white 12"x12" floor tile 1/21/21
121A		5th floor	mastic on white 12"x12" floor tile 1/21/21
122A		5th floor	2'x2' acoustic ceiling tile 1/21/21
123A		5th floor	linoleum on kitchen step 1/21/21
124A	124	6th floor	tan+brown 12"x12" floor tile 1/21/21

*Comments/Special Instructions:

Page 11 of 13 pages

Controlled Document - COC-01 Asbestos Bulk - R4 - 09/10/2019

EMSL Analytical, Inc.'s (DBA: LA Testing) Laboratory Terms and Conditions are incorporated into this chain of custody by reference in their entirety. Submission of samples to EMSL Analytical Inc. constitutes acceptance and acknowledgment of all terms and conditions.

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Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (lab use only):

132100753

Additional pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	HA #	Sample Location	Material Description		
124B	124	6th floor	tan+brown 12"x12" floor tile 1/21/21		
125A	125	6th floor	mastic on tan+brown 12"x12" floor tile 1/21/21		
125B	125	6th floor	mastic on tan+brown 12"x12" floor tile 1/21/21		
126A	126	6th floor	drywall 1/21/21		
126B	126	6th floor	drywall 1/21/21		
126C	126	6th floor	drywall 1/21/21		
127A	127	6th floor	joint compound 1/21/21		
127B	127	6th floor	joint compound 1/21/21		
127C	127	6th floor	joint compound 1/21/21		
128A	128	6th floor	skim coat plaster 1/21/21		
128B	128	6th floor	skim coat plaster 1/21/21		
128C	128	6th floor	skim coat plaster 1/21/21		
129A	129	6th floor	base coat plaster 1/21/21		
129B	129	6th floor	base coat plaster 1/21/21		
129C	129	6th floor	base coat plaster 1/21/21		
130A	130	6th floor	brown ext. window frame caulk 1/21/21		
130B	130	6th floor	brown ext. window frame caulk 1/21/21		
131A	131	6th floor	white floor tile 1/21/21		
131B	131	6th floor	white floor tile 1/21/21		
132A	132	6th floor	mastic on white floor tile 1/21/21		
132B	132	6th floor	mastic on white floor tile 1/21/21		

*Comments/Special Instructions:

OSTON

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Controlled Document - COC-01 Asbestos Bulk - R4 - 09/10/2019

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Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (lab use only):

132100753

Additional pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	HA #	Sample Location	Material Description		
133A		6th floor	black paper in attic 1/21/21		
134A		6th floor	mortar on terracotta wall blocks in attic 1/21/21		
135A		Garage - 2nd floor	floor paper below hardwood 1/21/21		
117B	117	5th floor	gray leveling compound under carpet 1/21/21		
31	3	5th floor	drywall 1/21/21		
78C	78	1st floor	plaster on wood lathe		
10.000	nto/Encolation				
EMSL-BOSTON AN 2 7 2021 Page 13 of 13 pages					

Controlled Document - COC-01 Asbestos Bulk - R4 - 09/10/2019

EMSL Analytical, Inc.'s (DBA: LA Testing) Laboratory Terms and Conditions are incorporated into this chain of custody by reference in their entirety. Submission of samples to EMSL Analytical Inc. constitutes acceptance and acknowledgment of all terms and conditions.

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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Matt Alger Beta Engineering 124 Main Street, Unit 2GG Carver, MA 02330

RE: Denholm - Worcester (7453) ESS Laboratory Work Order Number: 21A0701

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 1:37 pm, Feb 02, 2021

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Beta Engineering Client Project ID: Denholm - Worcester

ESS Laboratory Work Order: 21A0701

SAMPLE RECEIPT

The following samples were received on January 26, 2021 for the analyses specified on the enclosed Chain of Custody Record.

8082A 8082A
8082A
8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Beta Engineering Client Project ID: Denholm - Worcester

ESS Laboratory Work Order: 21A0701

PROJECT NARRATIVE

8082A Polychlorinated Biphenyls (PCB)

21A0/01-05 <u>Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present</u>				
	Decachlorobiphenyl (359% @ 30-150%), Decachlorobiphenyl [2C] (361% @ 30-150%)			
21A0701-09	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).			
	Decachlorobiphenyl (1540% @ 30-150%), Decachlorobiphenyl [2C] (1460% @ 30-150%)			
21A0701-10	Lower value is used due to matrix interferences (LC).			
	Aroclor 1260			
21A0701-10	Percent difference between primary and confirmation results exceeds 40% (P).			
	Aroclor 1260			
21A0701-11	Lower value is used due to matrix interferences (LC).			
	Aroclor 1260			
21A0701-11	Percent difference between primary and confirmation results exceeds 40% (P).			
	Aroclor 1260			
21A0701-12	Surrogate recovery(ies) diluted below the MRL (SD).			
	Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene			
	(% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)			
21A0701-13	Lower value is used due to matrix interferences (LC).			
	Aroclor 1260			
21A0701-13	Percent difference between primary and confirmation results exceeds 40% (P).			
	Aroclor 1260			
21A0701-13	Surrogate recovery(ies) diluted below the MRL (SD).			
	Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene			
	(% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)			
21A0701-14	<u>Surrogate recovery(ies) below lower control limit (S-).</u>			
	Decachlorobiphenyl (29% @ 30-150%)			
21A0701-16	Surrogate recovery(ies) below lower control limit (S-).			
	Decachlorobiphenyl (28% @ 30-150%)			

No other observations noted.

End of Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Beta Engineering Client Project ID: Denholm - Worcester

ESS Laboratory Work Order: 21A0701

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters Semivolatile Organics Internal Standard Information Semivolatile Organics Surrogate Information Volatile Organics Internal Standard Information Volatile Organics Surrogate Information EPH and VPH Alkane Lists

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 18-2.1 - VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap

5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Beta Engineering Client Project ID: Denholm - Worcester Client Sample ID: Paint-1 Date Sampled: 01/20/21 09:00 Percent Solids: N/A Initial Volume: 5.28 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21A0701 ESS Laboratory Sample ID: 21A0701-01 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 1/26/21 18:20

8082A Polychlorinated Biphenyls (PCB)

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.09)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/27/21 18:54	<u>Sequence</u>	<u>Batch</u> DA12607
Aroclor 1221	ND (0.09)		8082A		1	01/27/21 18:54		DA12607
Aroclor 1232	ND (0.09)		8082A		1	01/27/21 18:54		DA12607
Aroclor 1242 [2C]	7.3 (0.5)		8082A		5	01/28/21 22:22		DA12607
Aroclor 1248	ND (0.09)		8082A		1	01/27/21 18:54		DA12607
Aroclor 1254 [2C]	17.0 (0.5)		8082A		5	01/28/21 22:22		DA12607
Aroclor 1260	1.3 (0.09)		8082A		1	01/27/21 18:54		DA12607
Aroclor 1262	ND (0.09)		8082A		1	01/27/21 18:54		DA12607
Aroclor 1268	ND (0.09)		8082A		1	01/27/21 18:54		DA12607
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		69 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		80 %		30-150				
Surrogate: Tetrachloro-m-xylene		67 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		71 %		30-150				


The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Beta Engineering Client Project ID: Denholm - Worcester Client Sample ID: Paint-2 Date Sampled: 01/20/21 09:15 Percent Solids: N/A Initial Volume: 5.05 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21A0701 ESS Laboratory Sample ID: 21A0701-02 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 1/26/21 18:20

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/27/21 19:14	<u>Sequence</u>	<u>Batch</u> DA12607
Aroclor 1221	ND (0.1)		8082A		1	01/27/21 19:14		DA12607
Aroclor 1232	ND (0.1)		8082A		1	01/27/21 19:14		DA12607
Aroclor 1242 [2C]	6.4 (0.5)		8082A		5	01/28/21 22:42		DA12607
Aroclor 1248	ND (0.1)		8082A		1	01/27/21 19:14		DA12607
Aroclor 1254 [2C]	14.5 (0.5)		8082A		5	01/28/21 22:42		DA12607
Aroclor 1260 [2C]	2.0 (0.1)		8082A		1	01/27/21 19:14		DA12607
Aroclor 1262	ND (0.1)		8082A		1	01/27/21 19:14		DA12607
Aroclor 1268	ND (0.1)		8082A		1	01/27/21 19:14		DA12607
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		72 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		80 %		30-150				
Surrogate: Tetrachloro-m-xylene		76 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		82 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Beta Engineering Client Project ID: Denholm - Worcester Client Sample ID: Paint-3 Date Sampled: 01/20/21 09:30 Percent Solids: N/A Initial Volume: 5.06 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21A0701 ESS Laboratory Sample ID: 21A0701-03 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 1/26/21 18:20

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> <u>Sequer</u> 01/27/21 19:34	nce Batch DA12607
Aroclor 1221	ND (0.1)		8082A		1	01/27/21 19:34	DA12607
Aroclor 1232	ND (0.1)		8082A		1	01/27/21 19:34	DA12607
Aroclor 1242	1.5 (0.1)		8082A		1	01/27/21 19:34	DA12607
Aroclor 1248	ND (0.1)		8082A		1	01/27/21 19:34	DA12607
Aroclor 1254 [2C]	8.6 (0.5)		8082A		5	01/28/21 23:02	DA12607
Aroclor 1260 [2C]	1.5 (0.1)		8082A		1	01/27/21 19:34	DA12607
Aroclor 1262	ND (0.1)		8082A		1	01/27/21 19:34	DA12607
Aroclor 1268	ND (0.1)		8082A		1	01/27/21 19:34	DA12607
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		<i>75 %</i>		30-150			
Surrogate: Decachlorobiphenyl [2C]		72 %		30-150			
Surrogate: Tetrachloro-m-xylene		76 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		80 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Beta Engineering Client Project ID: Denholm - Worcester Client Sample ID: Paint-4 Date Sampled: 01/20/21 10:00 Percent Solids: N/A Initial Volume: 5.17 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21A0701 ESS Laboratory Sample ID: 21A0701-04 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 1/26/21 18:20

Analyte	Results (MRL)	<u>MDL</u>	Method 80824	<u>Limit</u>	<u>DF</u>	Analyzed Sequence	Batch
Aroclor 1221	ND (0.1)		8082A		1	01/27/21 19:54	DA12607
Aroclor 1232	ND (0.1)		8082A		1	01/27/21 19:54	DA12607
Aroclor 1242	ND (0.1)		8082A		1	01/27/21 19:54	DA12607
Aroclor 1248	ND (0.1)		8082A		1	01/27/21 19:54	DA12607
Aroclor 1254 [2C]	15.4 (0.5)		8082A		5	01/28/21 23:21	DA12607
Aroclor 1260 [2C]	1.7 (0.1)		8082A		1	01/27/21 19:54	DA12607
Aroclor 1262	ND (0.1)		8082A		1	01/27/21 19:54	DA12607
Aroclor 1268	ND (0.1)		8082A		1	01/27/21 19:54	DA12607
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		67 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		63 %		30-150			
Surrogate: Tetrachloro-m-xylene		64 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		73 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Beta Engineering Client Project ID: Denholm - Worcester Client Sample ID: Paint-5 Date Sampled: 01/20/21 10:30 Percent Solids: N/A Initial Volume: 5.12 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21A0701 ESS Laboratory Sample ID: 21A0701-05 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 1/26/21 18:20

Analyte Aroclor 1016	Results (MRL)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	Analyzed Sequence	<u>Batch</u> DA12607
Aroclor 1221	ND (0.1)		8082A		1	01/27/21 20:14	DA12607
Aroclor 1232	ND (0.1)		8082A		1	01/27/21 20:14	DA12607
Aroclor 1242	2.2 (0.1)		8082A		1	01/27/21 20:14	DA12607
Aroclor 1248	ND (0.1)		8082A		1	01/27/21 20:14	DA12607
Aroclor 1254 [2C]	12.7 (0.5)		8082A		5	02/01/21 14:27	DA12607
Aroclor 1260 [2C]	6.7 (0.5)		8082A		5	02/01/21 14:27	DA12607
Aroclor 1262	ND (0.1)		8082A		1	01/27/21 20:14	DA12607
Aroclor 1268	ND (0.1)		8082A		1	01/27/21 20:14	DA12607
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		359 %	SM	30-150			
Surrogate: Decachlorobiphenyl [2C]		361 %	SM	30-150			
Surrogate: Tetrachloro-m-xylene		56 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		58 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Beta Engineering Client Project ID: Denholm - Worcester Client Sample ID: Paint-6 Date Sampled: 01/20/21 10:45 Percent Solids: N/A Initial Volume: 5.15 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21A0701 ESS Laboratory Sample ID: 21A0701-06 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 1/26/21 18:20

Analyte Aroclor 1016	Results (MRL)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> <u>S</u> 01/27/21 20:33	bequence Batch DA12607
Aroclor 1221	ND (0.1)		8082A		1	01/27/21 20:33	DA12607
Aroclor 1232	ND (0.1)		8082A		1	01/27/21 20:33	DA12607
Aroclor 1242	1.0 (0.1)		8082A		1	01/27/21 20:33	DA12607
Aroclor 1248	ND (0.1)		8082A		1	01/27/21 20:33	DA12607
Aroclor 1254 [2C]	2.2 (0.1)		8082A		1	01/27/21 20:33	DA12607
Aroclor 1260	2.1 (0.1)		8082A		1	01/27/21 20:33	DA12607
Aroclor 1262	ND (0.1)		8082A		1	01/27/21 20:33	DA12607
Aroclor 1268	ND (0.1)		8082A		1	01/27/21 20:33	DA12607
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		53 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		55 %		30-150			
Surrogate: Tetrachloro-m-xylene		45 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		52 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Beta Engineering Client Project ID: Denholm - Worcester Client Sample ID: Paint-7 Date Sampled: 01/20/21 11:15 Percent Solids: N/A Initial Volume: 2.85 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21A0701 ESS Laboratory Sample ID: 21A0701-07 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 1/26/21 18:20

Analyte Aroclor 1016	Results (MRL) ND (0.2)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> <u>S</u> 01/27/21 20:53	Sequence Batch DA12607
Aroclor 1221	ND (0.2)		8082A		1	01/27/21 20:53	DA12607
Aroclor 1232	ND (0.2)		8082A		1	01/27/21 20:53	DA12607
Aroclor 1242	3.2 (0.2)		8082A		1	01/27/21 20:53	DA12607
Aroclor 1248	ND (0.2)		8082A		1	01/27/21 20:53	DA12607
Aroclor 1254 [2C]	13.9 (0.9)		8082A		5	01/28/21 23:41	DA12607
Aroclor 1260 [2C]	11.9 (0.9)		8082A		5	01/28/21 23:41	DA12607
Aroclor 1262	ND (0.2)		8082A		1	01/27/21 20:53	DA12607
Aroclor 1268	ND (0.2)		8082A		1	01/27/21 20:53	DA12607
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		73 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		86 %		30-150			
Surrogate: Tetrachloro-m-xylene		62 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		71 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Beta Engineering Client Project ID: Denholm - Worcester Client Sample ID: Paint-8 Date Sampled: 01/20/21 12:00 Percent Solids: N/A Initial Volume: 2.69 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21A0701 ESS Laboratory Sample ID: 21A0701-08 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 1/26/21 18:20

Analyte Aroclor 1016	<u>Results (MRL)</u>	<u>MDL</u>	Method 80824	<u>Limit</u>	<u>DF</u>	Analyzed Sequer	nce <u>Batch</u>
Aroclor 1221	ND (0.2)		8082A		1	01/27/21 21:13	DA12607
Aroclor 1232	ND (0.2)		8082A		1	01/27/21 21:13	DA12607
Aroclor 1242 [2C]	1.8 (0.2)		8082A		1	01/27/21 21:13	DA12607
Aroclor 1248	ND (0.2)		8082A		1	01/27/21 21:13	DA12607
Aroclor 1254 [2C]	4.6 (0.2)		8082A		1	01/27/21 21:13	DA12607
Aroclor 1260	ND (0.2)		8082A		1	01/27/21 21:13	DA12607
Aroclor 1262 [2C]	5.0 (0.2)		8082A		1	01/27/21 21:13	DA12607
Aroclor 1268	ND (0.2)		8082A		1	01/27/21 21:13	DA12607
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		66 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		71 %		30-150			
Surrogate: Tetrachloro-m-xylene		59 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		66 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Beta Engineering Client Project ID: Denholm - Worcester Client Sample ID: Paint-9 Date Sampled: 01/20/21 12:30 Percent Solids: N/A Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21A0701 ESS Laboratory Sample ID: 21A0701-09 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 1/26/21 18:20

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	$\frac{\mathbf{DF}}{1}$	Analyzed Seq	uence Batch
Aroclor 1221	ND (0.1) ND (0.1)		8082A 8082A		1	01/27/21 21:33	DA12607 DA12607
Aroclor 1232	ND (0.1)		8082A		1	01/27/21 21:33	DA12607
Aroclor 1242	3.0 (0.1)		8082A		1	01/27/21 21:33	DA12607
Aroclor 1248	ND (0.1)		8082A		1	01/27/21 21:33	DA12607
Aroclor 1254 [2C]	11.0 (0.5)		8082A		5	01/29/21 0:01	DA12607
Aroclor 1260	ND (0.1)		8082A		1	01/27/21 21:33	DA12607
Aroclor 1262	ND (0.1)		8082A		1	01/27/21 21:33	DA12607
Aroclor 1268 [2C]	2.1 (0.1)		8082A		1	01/27/21 21:33	DA12607
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		1540 %	SM	30-150			
Surrogate: Decachlorobiphenyl [2C]		1460 %	SM	30-150			
Surrogate: Tetrachloro-m-xylene		54 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		57 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Beta Engineering Client Project ID: Denholm - Worcester Client Sample ID: Paint-10 Date Sampled: 01/20/21 13:00 Percent Solids: N/A Initial Volume: 5.28 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21A0701 ESS Laboratory Sample ID: 21A0701-10 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 1/26/21 18:20

Analyte Aroclor 1016	Results (MRL)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/27/21 14:39	Sequence D1A0437	<u>Batch</u> DA12608
Aroclor 1221	ND (0.09)		8082A		1	01/27/21 14:39	D1A0437	DA12608
Aroclor 1232	ND (0.09)		8082A		1	01/27/21 14:39	D1A0437	DA12608
Aroclor 1242 [2C]	1.3 (0.09)		8082A		1	01/27/21 14:39	D1A0437	DA12608
Aroclor 1248	ND (0.09)		8082A		1	01/27/21 14:39	D1A0437	DA12608
Aroclor 1254 [2C]	8.5 (0.5)		8082A		5	01/28/21 23:10	D1A0437	DA12608
Aroclor 1260	P, LC 2.3 (0.09)		8082A		1	01/27/21 14:39	D1A0437	DA12608
Aroclor 1262	ND (0.09)		8082A		1	01/27/21 14:39	D1A0437	DA12608
Aroclor 1268	ND (0.09)		8082A		1	01/27/21 14:39	D1A0437	DA12608
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		65 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		70 %		30-150				
Surrogate: Tetrachloro-m-xylene		55 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		63 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Beta Engineering Client Project ID: Denholm - Worcester Client Sample ID: Paint-11 Date Sampled: 01/20/21 08:45 Percent Solids: N/A Initial Volume: 3.86 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21A0701 ESS Laboratory Sample ID: 21A0701-11 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 1/26/21 18:20

Analyte Aroclor 1016	Results (MRL)	MDL	Method 8082A	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u> 01/27/21_14:59	Sequence	<u>Batch</u> DA12608
Aroclor 1221	ND (0.1)		8082A		1	01/27/21 14:59	D1A0437	DA12608
Aroclor 1232	ND (0.1)		8082A		1	01/27/21 14:59	D1A0437	DA12608
Aroclor 1242	1.6 (0.1)		8082A		1	01/27/21 14:59	D1A0437	DA12608
Aroclor 1248	ND (0.1)		8082A		1	01/27/21 14:59	D1A0437	DA12608
Aroclor 1254 [2C]	9.8 (0.6)		8082A		5	01/28/21 23:29	D1A0437	DA12608
Aroclor 1260	P, LC 4.1 (0.6)		8082A		5	01/28/21 23:29	D1A0437	DA12608
Aroclor 1262	ND (0.1)		8082A		1	01/27/21 14:59	D1A0437	DA12608
Aroclor 1268	ND (0.1)		8082A		1	01/27/21 14:59	D1A0437	DA12608
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		56 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		61 %		30-150				
Surrogate: Tetrachloro-m-xylene		52 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		59 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Beta Engineering Client Project ID: Denholm - Worcester Client Sample ID: Paint-12 Date Sampled: 01/21/21 09:45 Percent Solids: N/A Initial Volume: 5.11 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21A0701 ESS Laboratory Sample ID: 21A0701-12 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 1/26/21 18:20

Analyte Aroclor 1016	Results (MRL) ND (2.0)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 20	Analyzed 01/28/21 23:49	Sequence D1A0463	<u>Batch</u> DA12608
Aroclor 1221	ND (2.0)		8082A		20	01/28/21 23:49	D1A0463	DA12608
Aroclor 1232	ND (2.0)		8082A		20	01/28/21 23:49	D1A0463	DA12608
Aroclor 1242	ND (2.0)		8082A		20	01/28/21 23:49	D1A0463	DA12608
Aroclor 1248	ND (2.0)		8082A		20	01/28/21 23:49	D1A0463	DA12608
Aroclor 1254 [2C]	28.0 (2.0)		8082A		20	01/28/21 23:49	D1A0463	DA12608
Aroclor 1260	23.6 (2.0)		8082A		20	01/28/21 23:49	D1A0463	DA12608
Aroclor 1262	ND (2.0)		8082A		20	01/28/21 23:49	D1A0463	DA12608
Aroclor 1268	ND (2.0)		8082A		20	01/28/21 23:49	D1A0463	DA12608
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		%	SD	30-150				
Surrogate: Decachlorobiphenyl [2C]		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene [2C]		%	SD	30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Beta Engineering Client Project ID: Denholm - Worcester Client Sample ID: Paint-13 Date Sampled: 01/21/21 10:15 Percent Solids: N/A Initial Volume: 5.03 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21A0701 ESS Laboratory Sample ID: 21A0701-13 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 1/26/21 18:20

Analyte Aroclor 1016	Results (MRL) ND (2.0)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 20	<u>Analyzed</u> 01/29/21 0:09	Sequence D1A0463	<u>Batch</u> DA12608
Aroclor 1221	ND (2.0)		8082A		20	01/29/21 0:09	D1A0463	DA12608
Aroclor 1232	ND (2.0)		8082A		20	01/29/21 0:09	D1A0463	DA12608
Aroclor 1242	ND (2.0)		8082A		20	01/29/21 0:09	D1A0463	DA12608
Aroclor 1248	ND (2.0)		8082A		20	01/29/21 0:09	D1A0463	DA12608
Aroclor 1254 [2C]	34.2 (2.0)		8082A		20	01/29/21 0:09	D1A0463	DA12608
Aroclor 1260	P, LC 7.0 (2.0)		8082A		20	01/29/21 0:09	D1A0463	DA12608
Aroclor 1262	ND (2.0)		8082A		20	01/29/21 0:09	D1A0463	DA12608
Aroclor 1268	ND (2.0)		8082A		20	01/29/21 0:09	D1A0463	DA12608
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		%	SD	30-150				
Surrogate: Decachlorobiphenyl [2C]		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene [2C]		%	SD	30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Beta Engineering Client Project ID: Denholm - Worcester Client Sample ID: Coating-1 Date Sampled: 01/21/21 11:00 Percent Solids: N/A Initial Volume: 2.28 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21A0701 ESS Laboratory Sample ID: 21A0701-14 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 1/26/21 18:20

Analyte	Results (MRL)	<u>MDL</u>	Method	<u>Limit</u>	$\frac{\mathbf{DF}}{1}$	Analyzed	Sequence	Batch
Aroclor 1221	ND (0.2) ND (0.2)		8082A 8082A		1	01/27/21 15:59	D1A0437	DA12608
Aroclor 1232	ND (0.2)		8082A		1	01/27/21 15:59	D1A0437	DA12608
Aroclor 1242	ND (0.2)		8082A		1	01/27/21 15:59	D1A0437	DA12608
Aroclor 1248 [2C]	64.4 (2.2)		8082A		10	01/29/21 0:29	D1A0437	DA12608
Aroclor 1254	ND (0.2)		8082A		1	01/27/21 15:59	D1A0437	DA12608
Aroclor 1260	ND (0.2)		8082A		1	01/27/21 15:59	D1A0437	DA12608
Aroclor 1262	ND (0.2)		8082A		1	01/27/21 15:59	D1A0437	DA12608
Aroclor 1268	ND (0.2)		8082A		1	01/27/21 15:59	D1A0437	DA12608
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>29 %</i>	<i>S</i> -	30-150				
Surrogate: Decachlorobiphenyl [2C]		35 %		30-150				
Surrogate: Tetrachloro-m-xylene		83 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		90 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Beta Engineering Client Project ID: Denholm - Worcester Client Sample ID: Caulk-1 Date Sampled: 01/21/21 11:30 Percent Solids: N/A Initial Volume: 0.91 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21A0701 ESS Laboratory Sample ID: 21A0701-15 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 1/26/21 18:20

<u>Analyte</u> Aroclor 1016	Results (MRL) ND (0.5)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/27/21 16:19	Sequence D1A0437	<u>Batch</u> DA12608
Aroclor 1221	ND (0.5)		8082A		1	01/27/21 16:19	D1A0437	DA12608
Aroclor 1232	ND (0.5)		8082A		1	01/27/21 16:19	D1A0437	DA12608
Aroclor 1242	ND (0.5)		8082A		1	01/27/21 16:19	D1A0437	DA12608
Aroclor 1248	ND (0.5)		8082A		1	01/27/21 16:19	D1A0437	DA12608
Aroclor 1254	ND (0.5)		8082A		1	01/27/21 16:19	D1A0437	DA12608
Aroclor 1260	ND (0.5)		8082A		1	01/27/21 16:19	D1A0437	DA12608
Aroclor 1262	ND (0.5)		8082A		1	01/27/21 16:19	D1A0437	DA12608
Aroclor 1268	ND (0.5)		8082A		1	01/27/21 16:19	D1A0437	DA12608
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		66 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		71 %		30-150				
Surrogate: Tetrachloro-m-xylene		57 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		69 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Beta Engineering Client Project ID: Denholm - Worcester Client Sample ID: Caulk-2 Date Sampled: 01/21/21 13:30 Percent Solids: N/A Initial Volume: 2.29 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21A0701 ESS Laboratory Sample ID: 21A0701-16 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 1/26/21 18:20

<u>Analyte</u> Aroclor 1016	Results (MRL) ND (0.2)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/27/21 16:39	Sequence D1A0437	<u>Batch</u> DA12608
Aroclor 1221	ND (0.2)		8082A		1	01/27/21 16:39	D1A0437	DA12608
Aroclor 1232	ND (0.2)		8082A		1	01/27/21 16:39	D1A0437	DA12608
Aroclor 1242	ND (0.2)		8082A		1	01/27/21 16:39	D1A0437	DA12608
Aroclor 1248	ND (0.2)		8082A		1	01/27/21 16:39	D1A0437	DA12608
Aroclor 1254	ND (0.2)		8082A		1	01/27/21 16:39	D1A0437	DA12608
Aroclor 1260	ND (0.2)		8082A		1	01/27/21 16:39	D1A0437	DA12608
Aroclor 1262	ND (0.2)		8082A		1	01/27/21 16:39	D1A0437	DA12608
Aroclor 1268	ND (0.2)		8082A		1	01/27/21 16:39	D1A0437	DA12608
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		28 %	<i>S-</i>	30-150				
Surrogate: Decachlorobiphenyl [2C]		52 %		30-150				
Surrogate: Tetrachloro-m-xylene		34 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		46 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Beta Engineering Client Project ID: Denholm - Worcester

ESS Laboratory Work Order: 21A0701

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated E	Biphenyls	(PCB)					
Batch DA12607 - 3540C										
Blank										
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0221		mg/kg wet	0.02500		89	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0229		mg/kg wet	0.02500		92	30-150			
Surrogate: Tetrachloro-m-xylene	0.0165		mg/kg wet	0.02500		66	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0198		mg/kg wet	0.02500		79	30-150			
LCS										
Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		90	40-140			
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		96	40-140			
Aroclor 1260	0.4	0.02	mg/kg wet	0.5000		90	40-140			
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		100	40-140			
	0.0341		ma llea web	0.02500		07	20.150			
Surrogate: Decachlorobiphenyl	0.0241		mg/kg wet	0.02500		97	20 150			
Surrogate: Decachlorobiphenyl [2C]	0.0230		mg/kg wet	0.02500		92 72	20 150			
Surrogate: Tetrachloro-m-xylene	0.0104		mg/kg wet	0.02500		20 20	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0222		iiig/kg wet	0.02500		09	50-150			
LCS Dup										
Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		85	40-140	5	30	
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		91	40-140	5	30	
Aroclor 1260	0.4	0.02	mg/kg wet	0.5000		88	40-140	2	30	
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		97	40-140	3	30	
Surrogate: Decachlorobiphenvl	0.0234		mg/kg wet	0.02500		93	30-150			
Surrogate: Decachlorobiphenvl [2C]	0.0221		mg/kg wet	0.02500		88	30-150			
Surrogate: Tetrachloro-m-xvlene	0.0180		mg/kg wet	0.02500		72	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0199		mg/kg wet	0.02500		80	30-150			
Batch DA12608 - 3540C										



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Beta Engineering Client Project ID: Denholm - Worcester

ESS Laboratory Work Order: 21A0701

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
L		8082A Poly	chlorinated E	Biphenyls	(PCB)					
				•						
Batch DA12608 - 3540C										
Blank										
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobinhenvl	0.0210		mg/kg wet	0.02500		84	30-150			
Surrogate: Decachlorobiphenvl [2C]	0.0218		mg/kg wet	0.02500		87	30-150			
Surrogate: Tetrachloro-m-xylene	0.0187		mg/kg wet	0.02500		75	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0214		mg/kg wet	0.02500		86	30-150			
LCS										
Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		87	40-140			
Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		88	40-140			
Aroclor 1260	0.4	0.02	mg/kg wet	0.5000		86	40-140			
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		84	40-140			
Currenter Deschlarebirt 1	0.0216		ma/ka wet	0.02500		86	30-150			
Surrogate: Decachiorobiphenyi	0.0222		ma/ka wet	0.02500		89	30-150			
Surrogata: Tetrachloro-m vulana	0.0199		mg/ka wet	0.02500		80	30-150			
Surrogate. Tetrachloro-m-vulene [2C]	0.0210		mg/kg wet	0.02500		84	30-150			
			5.5 - 5							
Aroclor 1016	0.4	0.02	ma/ka wet	0.5000		87	40-140	0.3	30	
Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		88	40-140	0.2	30	
Aroclor 1260	0.4	0.02	ma/ka wet	0.5000		86	40-140	0.5	30	
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		85	40-140	0.4	30	
Surrogate: Decachlorobiphenyl	0.0219		mg/kg wet	0.02500		87	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0223		mg/kg wet	0.02500		89	30-150			
Surrogate: Tetrachloro-m-xylene	0.0199		mg/kg wet	0.02500		79	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0208		mg/kg wet	0.02500		83	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Beta Engineering Client Project ID: Denholm - Worcester

ESS Laboratory Work Order: 21A0701

Notes and Definitions

U	Analyte included in the analysis, but not detected
SM	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
SD	Surrogate recovery(ies) diluted below the MRL (SD).
S-	Surrogate recovery(ies) below lower control limit (S-).
Р	Percent difference between primary and confirmation results exceeds 40% (P).
LC	Lower value is used due to matrix interferences (LC).
D	Diluted.
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	
F/V	Final volume
Ş	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NK	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probably Number
TNTC	Too numerous to Count
CFU	Colony Forming Units



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Beta Engineering Client Project ID: Denholm - Worcester

ESS Laboratory Work Order: 21A0701

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

> Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> > Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Beta Engineering - ML/TB	ESS Project ID: 21A0701	
Shipped/Delivered Via: ESS Courier	Project Due Date: 2/2/2021	
	Days for Project: 5 Day	_
1. Air bill manifest present? No	6. Does COC match bottles?	Yes
	7. Is COC complete and correct?	Yes
2, Were custody seals present?	8. Were samples received intact?	Yes
3. Is radiation count <100 CPM? Yes	9 Ware labe informed about short holds & rushes?	Yes / No / NA
4. Is a Cooler Present? Yes	o. Were labo informed about <u>short hords a rusites</u> :	
Temp: 6 lced with: lce	10. Were any analyses received outside of hold time?	Yes / NAO
5. Was COC signed and dated by client? Yes	······································	
	· · · · · · · · · · · · · · · · · · ·	
11. Any Subcontracting needed? Yes /No ESS Sample IDs: Analysis: TAT:	12. Were VOAs received?a. Air bubbles in aqueous VOAs?b. Does methanol cover soil completely?	Yes / 😡 Yes / No Yes / No / NA
13. Are the samples properly preserved? Yee / No a. If metals preserved upon receipt: Date: b. Low Level VOA vials frozen: Date:	Time: By: Time: By:	
Sample Receiving Notes:		
14. Was there a need to contact Project Manager? Yes / No a. Was there a need to contact the client? Yes / No Who was contacted? Date:	Time: By:	

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	130359	Yes	N/A	Yes	4 oz. Jar	NP	
2	130360	Yes	N/A	Yes	4 oz. Jar	NP	
3	130361	Yes	N/A	Yes	4 oz. Jar	NP	
4	130362	Yes	N/A	Yes	4 oz. Jar	NP	
5	130363	Yes	N/A	Yes	4 oz. Jar	NP	
6	130364	Yes	N/A	Yes	4 oz. Jar	NP	
7	130365	Yes	N/A	Yes	4 oz. Jar	NP	
8	130366	Yes	N/A	Yes	4 oz. Jar	NP	
9	130367	Yes	N/A	Yes	4 oz. Jar	NP	
10	130368	Yes	N/A	Yes	4 oz. Jar	NP	
11	130369	Yes	N/A	Yes	4 oz. Jar	NP	
12	130370	Yes	N/A	Yes	4 oz. Jar	NP	
13	130371	Yes	N/A	Yes	4 oz. Jar	NP	
14	130372	Yes	N/A	Yes	4 oz. Jar	NP	
15	130373	Yes	N/A	Yes	4 oz. Jar	NP	
16	130374	Yes	N/A	Yes	4 oz. Jar	NP	

ESS Laboratory Sample and Cooler Receipt Checklist

Client:	Beta Engineering - ML/TB	-	ESS Project ID: Date Received:	21A0701 1/26/2021	
2nd Review Were all conta Are barcode lab Are all Flashpoi Are all Hex Chro Are all QC stick Are VOA sticked	iners scanned into storage/lab? els on correct containers? nt stickers attached/container ID # circled? ome stickers attached? ers attached? 's attached if bubbles noted?	Initials Yes / N Yes / N Yes / N Yes / N	/ No Io/ NA Id/ NA Id/ NA Io/ NA		
Completed By: Reviewed By:	amilie Harrie	_ Date & Time: Date & Time:	1/26/21	1645 17:03	

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4	Lincoln	/	RTS	tate	Zip Code	PO#	3					
11.	Telephone Nu	ımber	FAX	Number	02865	7453 à	S					
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SS Lab	Collection	Collection	Sample Type	Sample Matrix	Sample							
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Preserv	ation Code:	1-Non Preserved	2-HCI 3-250 ML	4-300 mL 5-500	mL 6-1L 7-VOA 8-2 oz 9-4	oz 10-8 oz 11-Other*				┿╌┾╾┾	-+-+-	
				HNUS S-NAUH 6-Me	Inanol 7-Na2S2O3 8-ZnAce, NaOH 9-i	NH4CI 10-DI H2O 11-Other*				++++		
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Attachment F

Asbestos Inspector Certification