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ALL-TECH
ENVIRONMENTAL SERVICES LIMITED

HAZARDOUS MATERIALS ASSESSMENT
Orwell Corner Historic Village
RR 2,
Orwell Corner, PE

Prepared For:

PEI Department of Transportation & Infrastructure
P.O. Box 2000
Charlottetown, PE

April 10, 2023

ALL-TECH Project No.: PE22400

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EXECUTIVE SUMMARY

ALL-TECH Environmental Services Limited was contracted by the PEI Department of Transportation & Infrastructure (DTI) to conduct a hazardous material assessment within seventeen buildings at Orwell Corner Historic Village located at 52 MacPhail Park Road in Orwell, Prince Edward Island.

The purpose of the assessment was to identify hazardous materials within the buildings which may require safe handling procedures and disposal requirements in accordance with their applicable regulations prior to any planned work, renovations, or demolition and to assist in the Asbestos Management Plan (AMP) of any in place asbestos containing materials (ACM).

This report has been prepared to document the identities, usages and locations of any designated substances and hazardous materials identified within each building.

The on-site assessment was conducted in November 2022. During the assessment hazardous materials including asbestos and lead (paint) were sampled. In addition, lamp ballasts and electrical transformers were visually assessed for Polychlorinated Biphenyls (PCBs) and reported if identified.

Based on the findings from the Hazardous Materials Assessment, the following conclusions and recommendations are presented.

A summary of the Hazardous Materials identified within the building is provided below in Table A based on our assessment as well as safe handling requirements.

Assessment Summary of ACM conditions and action report is outlined in Appendix III and shall be used in conjunction with PEI Department of Transportation & Infrastructure's Asbestos Management Plan (2023) and shall be subject to annual review.

Other hazardous materials identified through sampling or visual assessment are noted in section 4 and are summarized in Appendix IV.

Upon review of this report and based on any planned work, renovations or demolition, a full scope of work should be developed. This scope of work will be dependent upon which materials need to be disturbed or removed prior to the renovations. Should ACM not require disturbance or removal, then those identified shall remain in place and be part of the Management Plan.

TABLE A Summary of Hazardous Materials for Management Plan Orwell Corner Historic Village			
Hazardous Materials	***Description / Comments***	***Safe Handling Requirements***	***Disposal Requirements***
ASBESTOS	***Orwell House*** Asbestos containing tank insulation (basement)	Licensed contractor to obtain work permit prior to handling from PEI Dept. of WCB/OSH Division and all other pertinent sections of the *Occupational Health and Safety Act* R.S.P.E.I.	Regulatory approval from PEIELJ Disposal at approved facility such as EPWMF in Wellington, PEI
	Taylor House Asbestos containing drywall joint compound (walls and ceilings)		
LEAD PAINT	***Orwell House*** - Beige paint on trims and doors - Grey paint trims - Light blue door paint	TDG – manifest Trained personnel in the safe handling of lead coated surfaces and all other pertinent sections of the *Occupational Health and Safety Act* R.S.P.E.I	Regulatory approval from PEIELJ Additional analysis required for TCLP for disposal purposes, if required.
	Shingle Mill - Red exterior paint		
	Forge - Red exterior paint		
	Church - White exterior siding paint - Black exterior door trim paint - Brown interior wall paint - Grey paint on wood benches		
	School House - Grey door trim paint		
	Livestock Barn 2 - Red exterior paint		
	Community Hall - Brown window frame paint - Brown door frame paint		
	Outdoor Washrooms - White exterior paint		
	Waye Building - Red exterior paint - White exterior paint		
	Taylor House - White exterior paint - Blue door paint - White ceiling paint - Brown stair paint - White paint on cupboards		
SILICA	Presumed in the following buildings and materials:	Trained personnel in the safe handling of silica dust and all	Regulatory approval from PEIELJ

	Orwell House - Poured or pre-cast concrete (basement / footings) - Masonry and mortar - Plaster	other pertinent sections of the *Occupational Health and Safety Act* R.S.P.E.I	
	Church - Poured or pre-cast concrete (footings) - Masonry and mortar - Plaster		
	School - Plaster		
	Community Hall - Poured or pre-cast concrete (basement / footings) - Masonry and mortar		
	Cement Block Building - Masonry and mortar		
MERCURY	mercury containing thermostats ampules within: - Community Hall - Orwell House	Do not break lamps or separate liquid mercury from components	Recycle and reclaim mercury from fluorescent lamps when taken out of service. Mercury is classified as a hazardous waste and must be disposed of in accordance with applicable Regulations.

This summary should not be used alone. The report must be read in its entirety.

Larry Koughan, CET, CRSP
Project Principal
ALL-TECH Environmental Services Limited

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SITE / CLIENT INFORMATION

Project No:	PE22400
Assessment Date:	**November 2022**
Client Name:	**PEI Department of Transportation & Infrastructure** **Orwell Corner Historic Village** **RR 2** **Vernon Bridge, PE**

1 INTRODUCTION

ALL-TECH Environmental Services Limited was contracted by the PEI Department of Transportation & Infrastructure (DTI) to conduct a hazardous material assessment within seventeen buildings at Orwell Corner Historic Village located at 52 MacPhail Park Road in Orwell, Prince Edward Island.

The purpose of the assessment was to identify hazardous materials within the buildings which may require safe handling procedures and disposal requirements in accordance with their applicable regulations prior to any planned work, renovations, or demolition and to assist in the Asbestos Management Plan (AMP) of any in place asbestos containing materials (ACM).

This report has been prepared to document the identities, usages and locations of any designated substances and hazardous materials identified within each building.

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1.1 SURVEY OBJECTIVES

The scope of the survey was to conduct a non-destructive assessment to identify asbestos, lead, and PCBs within the subject building as well as any other suspect hazardous materials if encountered.
ALL-TECH inspected both interior and exterior spaces of the subject building to determine whether designated substances and hazardous materials were present. Representative sampling for suspect asbestos and lead paint materials was conducted as required based on industry standards and the consultant's experience.

1.2 BACKGROUND BUILDING INFORMATION

TABLE 1 BUILDING INFORMATION ORWELL CORNER HISTORIC VILLAGE			
Asset ID #	Building Name	Year Built	Size (m^2)
1	Orwell House	1864	454
2	Shingle Mill	1975	114
3	Forge	1975	55
4	Church	1861	213
5	School House	1900	79
6	Livestock Barn #1	1875	262
7	Livestock Barn #2	1875	138
8	Community Hall	1975	440
9	Carriage House	1875	122
10	Poultry Buildings	1975	18.6
11	Pump House	1975	7
12	Outdoor Washrooms	1975	7.4
13	Waye Building	1880	56
14	Cement Block Building	1977	139
15	Taylor House	1863	130
16	Storage Barn	1880	93
17	Workshop Building	1975	39

1 Orwell House

2 Shingle Mill

3 Forge

4 Church

5 School House

6 Barn 1

7 Barn 2

8 Community Hall

9 Carriage House

10 Poultry Buildings

									
11	Pump House	12	Outdoor washrooms	13	Waye Building	14	Cement Block Building	15	Taylor House

				
16	Storage Barn	17	Workshop Building	

Site overview

2 REGULATIONS & GUIDELINES

A summary table (Table 2) is provided for the applicable regulations, policies, codes, and / or guidelines of hazardous materials assessed for the purpose of this report. This information was used as reference to assess suspect hazardous materials and make recommendations based on the findings.

TABLE 2
SUMMARY OF REGULATORY FRAMEWORK

ASBESTOS	▪ *Occupational Health and Safety Act* R.S.P.E.I. 1988, Cap. O-1.01 General Regulations – Part 49 (Including any amendments to May 2021). ▪ Guide to Asbestos Management, Workers Compensation Board of PEI. ▪ *Environmental Protection Act Chapter E-9 Waste Management Regulations*, Prince Edward Island ▪ Transportation of Dangerous Goods Act (TDGA)
LEAD	▪ Hazardous Products Act ▪ Prince Edward Island Department of Environment, Labour and Justice (PEIELJ) ▪ Transportation of Dangerous Goods Act (TDGA) ▪ The Environmental Abatement Council of Canada (EACC) Lead Guideline for Construction, Renovation, Maintenance or Repair. ▪ Surface Coating Materials Regulations, SOR/2016-193, Canada Consumer Product Safety Act.
PCB's	▪ Environmental Contaminants Act, Chlorophenyl Regulations ▪ Environment Canada – "Identification of Lamp Ballasts Containing PCB's," report EPS 2/CC/2 (revised) August 1991 ▪ PCB Regulations, SOR/2008-273, Canadian Environmental Protection Act.

2.1 ASBESTOS

Asbestos materials can be found in one of two forms: friable asbestos or a non-friable type. Friable asbestos material refers to material that when dry, can be crumbled, pulverized, or reduced to a powder by hand pressure. This type of asbestos material is hazardous due to its potential to become airborne, if damaged or disturbed.

Friable asbestos building products used that have been used in the past are sprayed acoustic and fire protection insulation which were installed on mechanical room ceilings, building structures, ceiling finishes, etc., and mechanical insulation on piping, tanks, boilers, vessels, etc. Some non-friable building products are vinyl acoustic floor tiles, gaskets, transite panels, piping, and shingles.

Non-friable materials if handled improperly during removal or renovations, such as cutting transite panels with an electrical tool, can cause high fiber releases.

Asbestos is classified as a hazardous material under the TDGA and must adhere to specific requirements for transfer including but not limited to waste transfer manifests and proper placards. All asbestos waste must be disposed of at an approved municipal solid waste disposal site. Recent changes from the Prince Edward Island's Department of Environment's Environmental Protection Act, Waste Resource Management Regulations have defined asbestos as "special waste" as asbestos containing materials containing 1% or greater by weight for the purpose of disposal.

All work should be carried out by personnel trained and licensed with the provincial department of the Workers Compensation Board / Occupational Health and Safety Division for asbestos abatement.

2.2 LEAD

Lead in paints is regulated under the Canadian Environmental Protection Act (CEPA) as published in Canada Gazette Part II. The lead content limit has been set to 600 mg/kg (0.06 percent by weight) for surface coating materials.

Any disturbance or removal of lead-based materials which may generate lead dust shall have to conform to the federal and provincial Occupational Health and Safety Act and Regulations. All work should be carried out by personnel trained in the safe handling of lead-based paint coatings and shall be trained in the use of respirators and be properly fit tested.

PEIELJ has established guidelines that restrict hazardous materials from municipal landfills and Construction and Demolition (C&D) waste disposal sites which potentially may migrate / leach into groundwater and cause adverse environmental impacts. Lead coated surfaces may leach from their base materials into soil and subsequent groundwater. PEIELJ has established guidelines that materials containing 1000 mg/kg or 0.1% lead by weight shall be classified as lead-based paints. If materials are found to be above this guideline and require removal and disposal, then the materials must undergo leachate testing to assess total concentrations which could potentially leach into the ground soil and groundwater. Presently provincial requirements for lead leachate testing shall not exceed 5 mg/L. Disposal criteria for lead containing paints are based on total and leachable concentrations are as follows:

- Materials with total lead concentrations below the applicable Total guidelines can be disposed of at any C&D disposal site.
- Materials with *total lead concentrations above* the applicable Total guidelines and *leachable lead concentrations below* the applicable Leachate guidelines must be disposed of at an approved municipal solid waste landfill that has a composite liner and leachate collection system (i.e., East Prince Waste Management Facility in Wellington, PEI). A waste generator permit must first be approved and obtained by PEIELJ.
- Materials with total and leachable lead concentrations above provincial guidelines must be transported to an approved hazardous waste disposal site.

Materials with leachable lead concentrations above provincial guidelines must be manifested as dangerous goods during transport under the federal TDGA. Hazardous materials that are being disposed of out of province must comply with Interprovincial Movement of Hazardous Waste Regulations under the Canadian Environmental Protection Act (CEPA).

2.3 POLYCHLORINATED BIPHENYLS (PCB's)

In 1976, the Canadian Environment Contaminants Act passed regulations which prohibited the use of PCBs in transformer equipment. Under the same Act, the Chlorophenyl Regulations No. 1, states that PCBs cannot be used as a constituent of electrical capacitors, electrical transformers and associated electrical equipment manufactured in or imported into Canada after July 1, 1980.
There is currently no regulatory requirement to remove in-use PCBs from service. However, should suspect PCB containing light ballasts be removed from service, they should be treated as PCB waste or if confirmed to contain PCB oil in excess of 0.5 kg.

3 METHODOLOGY

The scope of work for the survey was to visually identify controlled hazardous materials for the safe handling and disposal of hazardous materials prior to renovations within the building. Where visual identification of asbestos containing materials and lead based paints were suspected but unable to be determined, samples were collected and sent to an approved laboratory for analysis.

There was limited destructive testing of structural members (i.e., walls, flooring) during the assessment. Where accessible, areas above ceiling cavities and behind walls were visually assessed to identify potentially concealed hazardous materials.

3.1 ASBESTOS

Using standard bulk sampling methodologies, representative suspect asbestos containing materials were sampled from ceiling & wall finishes, floor coverings, located throughout the various buildings. Samples were placed in sealed plastic bags, labelled and a chain of custody form completed to be forwarded to IATL Laboratory via courier for analysis.

The asbestos assessment involved a visual investigation of suspect materials for the presence of asbestos containing materials. If these materials were suspected to contain asbestos, a bulk sample was collected of the representative material to be analysed with Polarized Light Microscopy.

It should be noted that asbestos containing materials may be present behind unrevealed areas. During demolition of these materials, precautions should be taken such as the use of personal protective

equipment in the event of exposing concealed asbestos materials. If suspect materials are revealed, have them tested immediately.

3.2 LEAD

During the assessment, suspect lead-based paints were sampled from surfaces as determined by the consultant. Where practical, all layers of paint were removed and placed in sealed plastic bags, labelled and a chain of custody form completed to be forwarded to IATL Laboratory via courier for analysis.

3.3 POLYCHLORINATED BIPHENYLS

During the assessment, suspect PCB containing light ballasts were examined for PCB identification or by recording serial numbers for reference. Ballasts were inspected and manufacturers name, date and serial numbers were recorded when visible. The manufacturers identification numbers were then compared to Environment Canada's "Identification of Lamp Ballasts Containing PCB's," Report EPS 2/CC/2 9revised), August 1991.

It should be noted that the assessment did not include the sampling / testing or analysis of the suspect PCB containing materials.

4 ASSESSMENT FINDINGS

4.1 ASBESTOS

During the survey, the consultant collected individual bulk material samples of suspect ACMs within the various buildings. Laboratory analysis certificates are presented in Appendix I.

Several of the building were noted with wood walls and floors and no other suspect asbestos materials were encountered.

A breakdown of material sample collection for each building based on suspect materials encountered for each is outlined below in table 3.

TABLE 3 ASBESTOS BULK SAMPLE COLLECTIONS ORWELL CORNER HISTORIC VILLAGE			
Asset ID #	Building Name	No. of suspect sample layers analyzed	No. of samples confirmed as ACM
1	Orwell House	16	**2**
2	Shingle Mill	0	0
3	Forge	0	0
4	Church	0	0
5	School House	5	0
6	Livestock Barn #1	0	0
7	Livestock Barn #2	0	0
8	Community Hall	28	0
9	Carriage House	0	0
10	Poultry Buildings	0	0
11	Pump House	0	0
12	Outdoor Washrooms	0	0
13	Waye Building	0	0
14	Cement Block Building	6	0
15	Taylor House	19	**2**
16	Storage Barn	0	0
17	Workshop Building	0	0

4.1.1 Texture Coat Finishes

No texture coats were observed or reported in any of the buildings surveyed.	

4.1.2 Pipe Insulation

No pipe insulation was observed or reported in any of the buildings surveyed.	

4.1.3 Duct Insulation

Photo 1 - Orwell house heating ducts observed as non-insulated.

Photo 2 - Taylor house heating ducts observed as non-insulated.

Photo 3 – Community Hall heating ducts observed as non-insulated.

No other mechanical duct insulations were encountered in any of the other buildings.

Photo 1 – Orwell House

Photo 2 – Taylor House

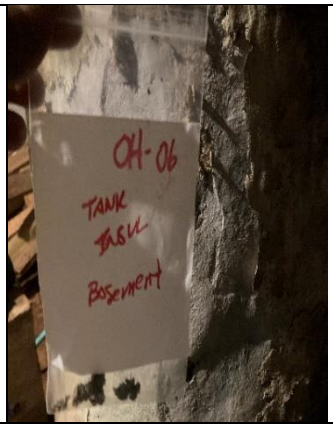
Photo 3 – Community Hall

4.1.4 Mechanical Equipment Insulation

Orwell House

Tank insulation in the basement of Orwell House was sampled and was found to contain ***30% Chrysotile asbestos.***

No other mechanical insulations were encountered in any of the other buildings surveyed.

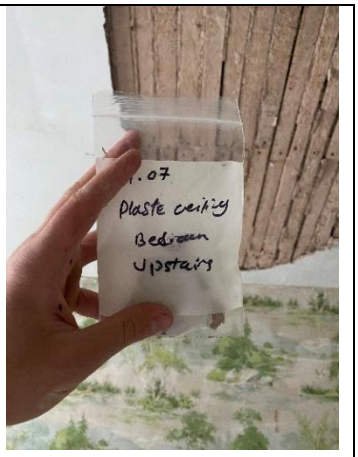


4.1.5 Plaster

Orwell House

Plaster walls and ceiling were noted and sampled in various random locations throughout the Orwell House. Representative sampling was completed on each floor of the building.

A total of seven (7) plaster samples were collected with both the white scratch coat and underlying base coats analyzed. None of the sample layers were found to be asbestos containing materials.



Orwell Church

Plaster walls and ceiling were noted and sampled in various random locations throughout Orwell Church. Representative sampling was completed within the building.

A total of three (3) plaster samples were collected with both the white scratch coat and underlying base coats analyzed. None of the sample layers were found to be asbestos containing materials.

Orwell School

Plaster walls and ceiling were noted and sampled in various random locations throughout Orwell School. Representative sampling was completed within the building.

A total of three (3) plaster samples were collected with both the white scratch coat and underlying base coats analyzed. None of the sample layers were found to be asbestos containing materials.

Taylor House

Plaster walls and ceiling were noted and sampled in various random locations throughout Taylor House. Representative sampling was completed within the building.

A total of five (5) plaster samples were collected with both the white scratch coat and underlying base coats analyzed. None of the sample layers were found to be asbestos containing materials.

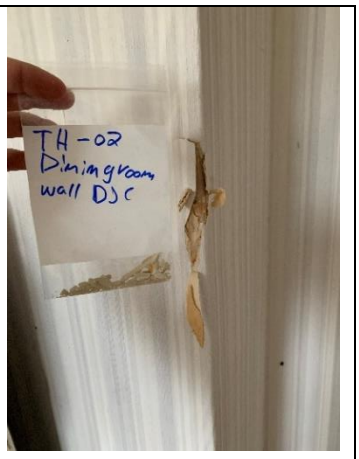
No other plasters were encountered in any of the other buildings surveyed.

4.1.6 Drywall Joint Compound

Taylor House

Drywall joint compound walls and ceilings were noted and sampled in various random locations throughout Taylor House. Representative sampling was completed within the building.

A total of four (4) joint compound samples were collected and analyzed. Two of the samples were found to contain ***1.2 - 1.4% Chrysotile asbestos.***



Community Hall

Drywall joint compound walls and ceilings were noted and sampled in various random locations throughout the Community Hall. Representative sampling was completed within the building.

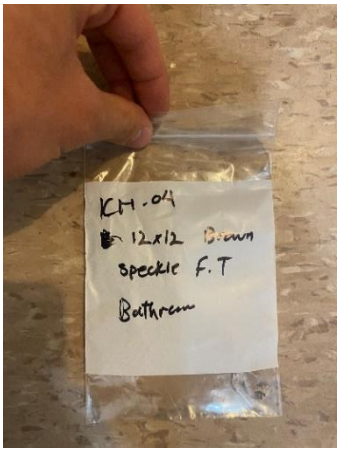
A total of ten (10) joint compound samples were collected and analyzed. None of the samples were found to be asbestos containing.

Cement Building Drywall joint compound walls and ceilings were noted and sampled in various random locations throughout the Cement Building. A total of three (3) joint compound samples were collected and analyzed. None of the samples were found to be asbestos containing. No other drywall joint compounds were encountered in any of the other buildings surveyed.	

4.1.7 Vinyl Sheet Flooring

Sample No.:	*Flooring Description*	*Building / Location*	*Asbestos Type / Content (%)*	*Photo*
KH-01	Beige vinyl sheet flooring with tan mastic	***Community Hall / Kitchen***	None Detected in flooring or mastic	
No other vinyl sheet floorings were encountered in any of the other buildings surveyed.				

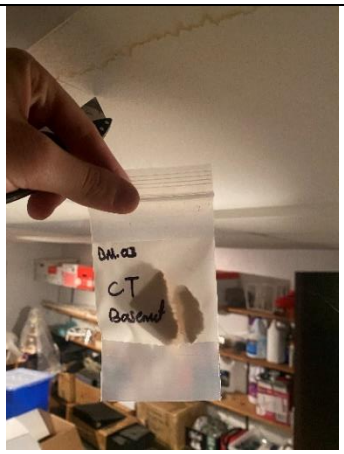
4.1.8 Vinyl Floor Tiles

Sample No.:	*Flooring Description*	*Building / Location*	*Asbestos Type / Content (%)*	*Photo*
KH-04	12” x 12” beige floor tile with black mastic	***Community Hall / Bathroom***	None Detected in flooring or mastic	
No other vinyl floor tiles were encountered in any of the other buildings surveyed.				

4.1.9 Ceiling Tiles

Community Hall
Only one area was noted with acoustic ceiling tile in the Community Hall basement. The material was sampled and analyzed as a non-asbestos containing tile.

No other ceiling tiles were encountered in any of the other buildings surveyed.



4.1.10 Other Building Materials

Taylor House
Brown attic insulation sampled and analyzed as cellulose insulation. Non asbestos containing material.

Cement Building
Brown attic insulation sampled and analyzed as cellulose insulation. Non asbestos containing material.

Community Hall
Light heat shield sample and found to be non-asbestos containing material.

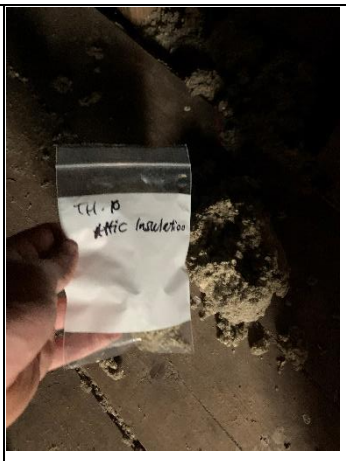


Photo 1 Taylor House

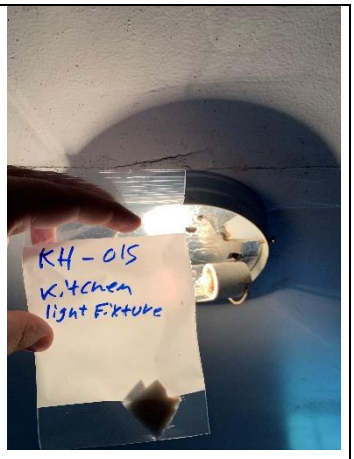


Photo 2 Community Hall

4.1.11 Excluded Asbestos Materials

The following is a list of materials which may contain asbestos and were excluded from the assessment. These materials are presumed to contain asbestos until otherwise proven by sampling and analysis:

- Roofing felts and tar

4.2 LEAD-BASED PAINTS

Based on the age of the buildings, lead based paints were sampled. A total of fifty-two (52) painted surface coatings were sampled within the various buildings and sent to the laboratory for analysis for lead in paint.

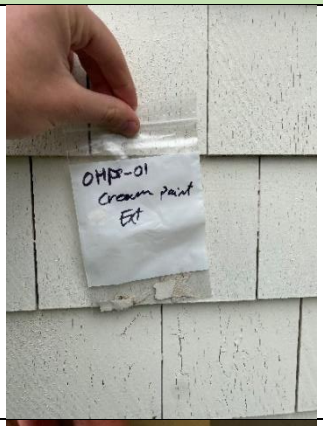
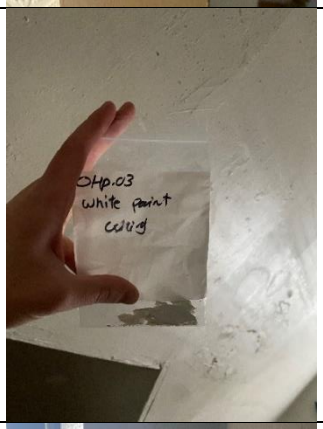
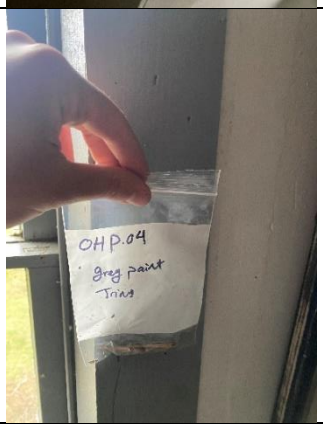
A breakdown of material sample collection for each building based on suspect materials encountered for each is outlined below in table 4.

Based on the assessment findings, twenty (20) of the paint layers sampled exceeded CEPA guidelines of 0.06 percent by weight for surface coating materials. Exceedances are noted in bold red in tables below.

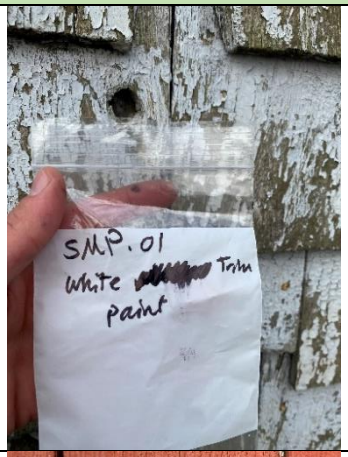
TABLE 4
LEAD PAINT SAMPLE COLLECTIONS
ORWELL CORNER HISTORIC VILLAGE

Asset ID #	Building Name	No. of suspect sample layers analyzed	No. of samples confirmed as Lead based paints
1	Orwell House	6	**3**
2	Shingle Mill	2	**1**
3	Forge	2	**1**
4	Church	5	**4**
5	School House	4	**1**
6	Livestock Barn #1	2	0
7	Livestock Barn #2	2	**1**
8	Community Hall	6	**2**
9	Carriage House	2	0
10	Poultry Buildings	2	0
11	Pump House	3	0
12	Outdoor Washrooms	2	**1**
13	Waye Building	2	**2**
14	Cement Block Building	3	0
15	Taylor House	7	**5**
16	Storage Barn	1	0
17	Workshop Building	2	0

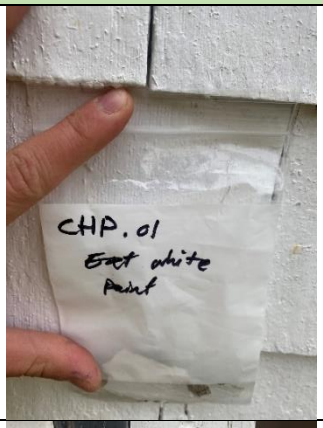
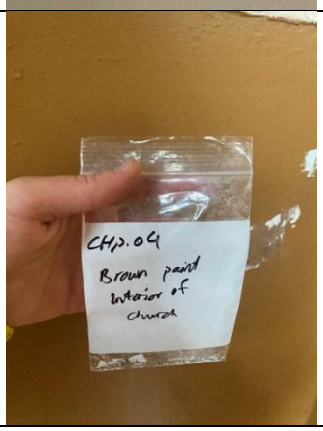
Laboratory analysis certificates for each building are presented in Appendix II.

Sample No.:	Colour / Substrate Description	Location	Lead Content (%)	Photo
Orwell House				
OHP-01	Cream paint	Exterior wood siding	< 0.0074	
OHP-02	Beige color	Trims and doors	**25**	
OHP-03	White paint	ceiling	< 0.0083	
OHP-04	Grey paint	Interior wood trim	**18**	

OHP-05	Light blue	Wood door paint	**2.3**	
OHP-06	White paint on plaster	Under wallpaper - upstairs	< 0.017	

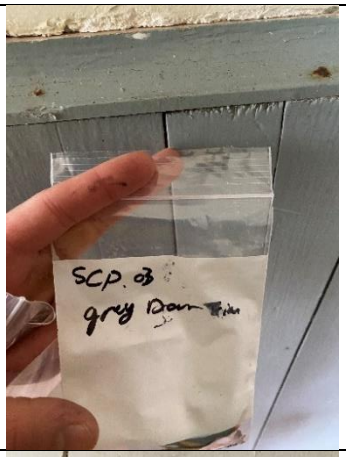
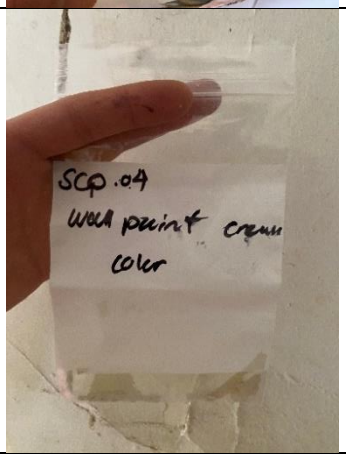
Sample No.:	Colour / Substrate Description	Location	Lead Content (%)	Photo
Shingle Mill				
SMP-01	White paint	Exterior	0.014	
SMP-02	Red paint	Exterior	**0.065**	

Sample No.:	Colour / Substrate Description	Location	Lead Content (%)	Photo
Orwell Forge				
BSP-01	White Paint	Exterior	0.0069	NA
BSP-02	Red paint	Exterior	**0.083**	NA

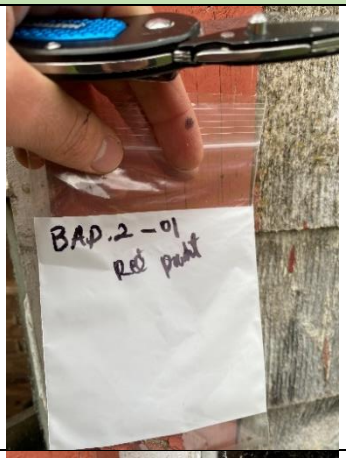
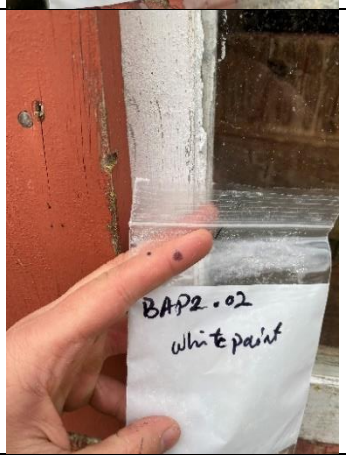
Sample No.:	Colour / Substrate Description	Location	Lead Content (%)	Photo
Church				
CHP-01	White paint	Exterior wood siding	**0.85**	
CHP -02	Black	Exterior wood door trim	**0.067**	
CHP -03	Cream color paint	Interior	< 0.0079	
CHP-04	Brown paint	Interior walls	**1.5**	

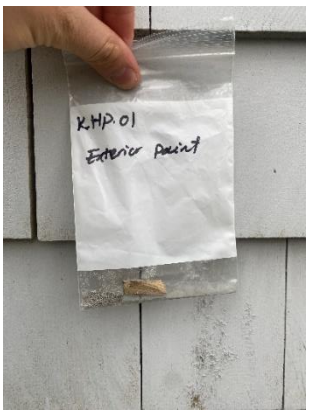
CHP-05	Grey paint	Wood bench	**9.9**	

Sample No.:	Colour / Substrate Description	Location	Lead Content (%)	Photo
School House				
SCP-01	White paint	Exterior	< 0.0076	
SCP-02	Red paint	Exterior	< 0.0070	

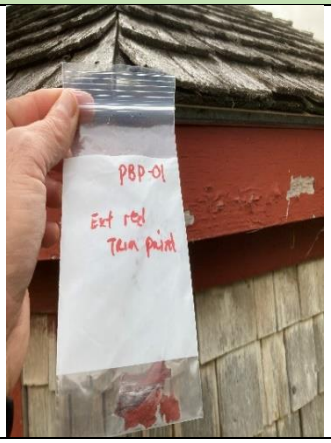
SCP-03	Grey	Door trims	**1.3**	
SCP-04	Cream color paint	Wall	< 0.0075	

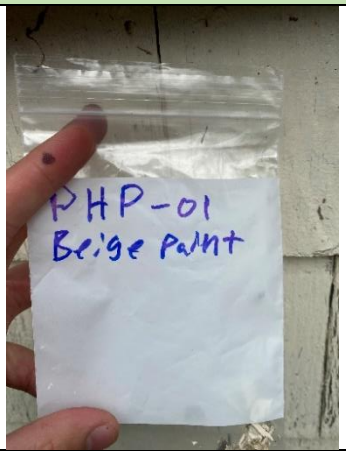
Sample No.:	Colour / Substrate Description	Location	Lead Content (%)	Photo
Livestock Barn 1				
BAP1-01	Red paint	Exterior	0.015	

BAP1-02	White Paint	Exterior	0.049	
Livestock Barn 2				
BAP2-01	Red paint	Exterior	**0.077**	
BAP2-01	White paint	Exterior	< 0.0057	

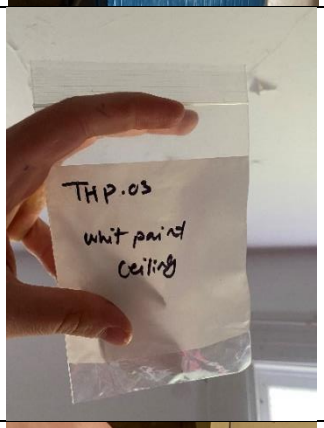
Sample No.:	Colour / Substrate Description	Location	Lead Content (%)	Photo
Community Hall				
KHP-01	Grey paint	Exterior wood siding	< 0.0067	
KHP -02	White paint	Exterior wood trim	< 0.027	
KHP -03	Light brown paint	Interior window frame	**2.6**	
KHP -04	Dark brown paint	Interior door frame	**0.50**	

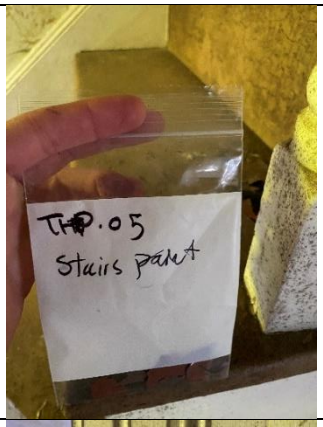
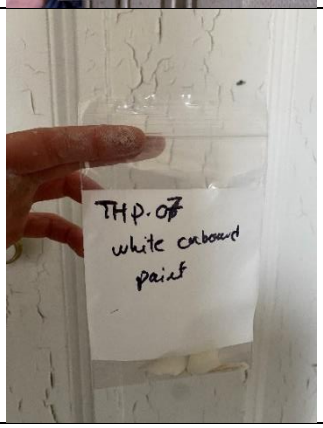
KHP -05	White paint	wall	<0.0064	
KHP -06	Yellow paint	Basement wall	< 0.0066	

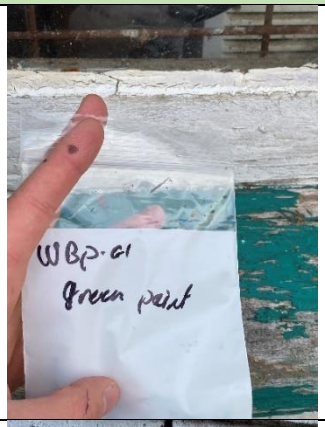
Sample No.:	Colour / Substrate Description	Location	Lead Content (%)	Photo
Carriage House				
CHP-01	White paint	Exterior	0.012	NA
CHP-02	Red paint	Exterior	0.026	NA
Poultry Buildings				
PBP-01	Red trim paint	Exterior	< 0.0070	

PBP-02	Cream color	Exterior Shingle	< 0.0083	
Pump House				
PHP-01	Beige Paint	Exterior	0.031	
PHP-02	Red paint	Exterior	0.029	NA
PHP-03	White Paint	Interior	< 0.0078	NA
Outdoor Washrooms				
WRP-01	White paint	Exterior	**0.28**	
WRP-02	Yellow paint	Door	0.0069	NA

Waye Building				
WBP-01	Red paint	Exterior	**7.9**	NA
WBP-02	White Paint	Exterior	**0.19**	NA
Cement Block Building				
CBP-01	Green paint	Exterior	< 0.0069	
CBP-02	Cream paint	Exterior	< 0.0063	
CBP-03	Cream paint	Interior wall	< 0.0056	

Sample No.:	Colour / Substrate Description	Location	Lead Content (%)	Photo
Taylor House				
THP-01	White paint	Exterior	**0.55**	
THP-02	Blue paint	Door	**3.7**	
THP-03	White paint	Ceiling	**0.25**	
THP-04	Beige floor paint	Kitchen	< 0.0077	

THP-05	Brown paint	stairs	**0.084**	
THP-06	White paint	Door trims	< 0.0081	
THP-07	White paint	cupboard	**0.42**	

Sample No.:	Colour / Substrate Description	Location	Lead Content (%)	Photo
Storage Barn				
SHP-01	Red paint	Exterior	< 0.0092	
Workshop Building				
WBP-01	Green Paint	Exterior	< 0.0070	
WBP-02	White Paint	Exterior	0.011	

4.3 POLYCHLORINATED BIPHENYLS (PCB's)

4.3.1 Lighting Lamp Ballasts

No suspect fluorescent light fixtures were observed or reported within the buildings surveyed. Lights present within the buildings were noted as incandescent lighting without lamp ballasts.
Through observations it was determined that PCB containing lamp ballasts are not present.

4.3.2 Transformers

Electrical transformers were not found or reported during the assessment.

4.4 SILICA

Crystalline silica is a presumed component of the following materials:

Orwell House

- Poured or pre-cast concrete (basement / footings)
- Masonry and mortar
- Plaster

Church

- Poured or pre-cast concrete (footings)
- Masonry and mortar
- Plaster

School

- Plaster

Community Hall

- Poured or pre-cast concrete (basement / footings)
- Masonry and mortar

Cement Block Building

- Masonry and mortar

4.5 MERCURY

4.5.1 Lighting

No mercury vapour is present in fluorescent lamp tubes.

4.5.2 Mercury Containing Devices

Photo 1 – Community Hall mercury containing thermostats was noted and reported within the building.

Photo 2 – Orwell House mercury containing thermostats ampules were noted and reported within the building.

No other mercury containing devices were encountered in any of the other buildings surveyed.

Photo 1 – Community Hall

Photo 2 – Orwell House

5 SUMMARY OF HAZARDOUS MATERIALS

A summary of the Hazardous Materials identified within the building is provided below in Table 5 based on our assessment as well as safe handling requirements.

Assessment Summary of ACM conditions and action report is outlined in Appendix III and shall be used in conjunction with PEI Department of Transportation & Infrastructure's Asbestos Management Plan (2023) and shall be subject to annual review.

Other hazardous materials identified through sampling or visual assessment are noted in section 4 and are summarized in Appendix IV.

Upon review of this report and based on any planned work, renovations or demolition, a full scope of work should be developed. This scope of work will be dependent upon which materials need to be disturbed or removed prior to the renovations. Should ACM not require disturbance or removal, then those identified shall remain in place and be part of the Management Plan.

TABLE 5 Summary of Hazardous Materials for Management Plan Orwell Corner Historic Village			
Hazardous Materials	***Description / Comments***	***Safe Handling Requirements***	***Disposal Requirements***
ASBESTOS	***Orwell House*** Asbestos containing tank insulation (basement)	Licensed contractor to obtain work permit prior to handling from PEI Dept. of WCB/OSH Division and all other pertinent sections of the *Occupational Health and Safety Act* R.S.P.E.I.	Regulatory approval from PEIELJ Disposal at approved facility such as EPWMF in Wellington, PEI
	Taylor House Asbestos containing drywall joint compound (walls and ceilings)		
LEAD PAINT	***Orwell House*** - Beige paint on trims and doors - Grey paint trims - Light blue door paint	TDG – manifest Trained personnel in the safe handling of lead coated surfaces and all other pertinent sections of the *Occupational Health and Safety Act* R.S.P.E.I	Regulatory approval from PEIELJ Additional analysis required for TCLP for disposal purposes, if required.
	Shingle Mill - Red exterior paint		
	Forge - Red exterior paint		
	Church - White exterior siding paint - Black exterior door trim paint - Brown interior wall paint - Grey paint on wood benches		
	School House - Grey door trim paint		
	Livestock Barn 2 - Red exterior paint		
	Community Hall - Brown window frame paint - Brown door frame paint		
	Outdoor Washrooms - White exterior paint		
	Waye Building - Red exterior paint - White exterior paint		
	Taylor House - White exterior paint - Blue door paint - White ceiling paint - Brown stair paint - White paint on cupboards		
SILICA	Presumed in the following buildings and materials:	Trained personnel in the safe handling of silica dust and all	Regulatory approval from PEIELJ

	Orwell House - Poured or pre-cast concrete (basement / footings) - Masonry and mortar - Plaster ***Church*** - Poured or pre-cast concrete (footings) - Masonry and mortar - Plaster ***School*** - Plaster ***Community Hall*** - Poured or pre-cast concrete (basement / footings) - Masonry and mortar ***Cement Block Building*** - Masonry and mortar	other pertinent sections of the *Occupational Health and Safety Act* R.S.P.E.I	
MERCURY	mercury containing thermostats ampules within: - Community Hall - Orwell House	Do not break lamps or separate liquid mercury from components	Recycle and reclaim mercury from fluorescent lamps when taken out of service. Mercury is classified as a hazardous waste and must be disposed of in accordance with applicable Regulations.

6 ON-GOING MANAGEMENT & MAINTENANCE

The following recommendations are made regarding on-going management and maintenance work involving the hazardous materials identified.

Perform a detailed intrusive assessment prior to building renovation or demolition operations. The assessment should include; destructive testing (e.g., coring and/or removal of building finishes and components), and other materials not previously tested (e.g., roofing materials).

6.1 Asbestos

Ensure policies and procedures outlined in the buildings Asbestos Management Plan (AMP) are followed when conducting asbestos-related work at this facility.

Perform a re-assessment of asbestos-containing materials (ACM) on an annual basis. The next reassessment of ACM should be performed prior to April 2024 to remain in compliance.

Remove ACM prior to alteration or maintenance work if ACM may be disturbed by the work. Follow appropriate asbestos precautions for the classification of work being performed.

Asbestos-containing materials must be disposed of at a landfill approved to accept asbestos waste.

6.2 Lead

For lead-containing or lead-based paints (i.e., greater than the CEPA guidelines of 600 mg/kg (0.06 percent by weight) for surface coating materials, work procedures, engineering controls and personal protective equipment should be assessed on a site-specific basis to comply with Occupational Health and Safety regulations and Lead guidelines.

Dispose of painted materials exceeding the criteria for leachable lead as hazardous waste.

6.4 Silica

Disturbance of silica-containing products during maintenance activities may result in excessive exposures to airborne silica, especially if performed indoors and dry. Cutting, grinding, drilling or demolition of materials containing silica should be completed only with proper respiratory protection and other worker safety precautions that comply with applicable regulations and guidelines.

6.5 Mercury

Do not break lamps or separate liquid mercury from components. Recycle and reclaim mercury from fluorescent lamps and thermostats when taken out of service. Mercury is classified as a hazardous waste and must be disposed of in accordance with applicable regulations.

7 DISCLAIMER

The recommendations detailed in this report were carried out in a manner consistent with the level of care and skill normally exercised by reasonable members of the environmental and industrial hygiene consulting profession currently practicing under similar conditions in the area.
In preparing this report, ALL-TECH Environmental Services Limited relied on information supplied by others, including independent laboratories, and testing services. Except as expressly set out in this report, we have not made any independent verification of such information.

The recommendations in this report have been made in the context of existing industry accepted guidelines which were in place at the date of this report.

We trust this information is beneficial for assisting you in better understanding the process that has been carried out as well as the benefits and limitations of air sample results.

Should you have any questions or concerns pertaining to this report, please contact the undersigned directly.

Larry G. Koughan, CET, CRSP
Senior Project Consultant

ALL-TECH
ENVIRONMENTAL SERVICES LIMITED

CANADIAN SOCIETY OF SAFETY ENGINEERING
MEMBER

APPENDIX I

Laboratory Certificate of Analysis – Asbestos PLM Samples

Orwell House

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/22/2022
Report No.: 672775 - PLM
Project: Orwell House
Project No.: PE22400

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7526236
Client No.: OH-01
Analyst Observation: White Plaster
Client Description: Ceiling Plaster
Location: Entryway Hall
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7526236(L2)
Client No.: OH-01
Analyst Observation: Off-White Plaster
Client Description: Ceiling Plaster
Location: Entryway Hall
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
1 Hair
1 Cellulose

Percent Non-Fibrous Material:
98

Lab No.: 7526236(L3)
Client No.: OH-01
Analyst Observation: Tan Plaster
Client Description: Ceiling Plaster
Location: Entryway Hall
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
2 Hair
1 Cellulose

Percent Non-Fibrous Material:
97

Lab No.: 7526237
Client No.: OH-02
Analyst Observation: Grey Insulation
Client Description: Tank Insulation
Location:
Facility:

Percent Asbestos:
30 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
10 Cellulose

Percent Non-Fibrous Material:
60

Lab No.: 7526238
Client No.: OH-03
Analyst Observation: White Plaster
Client Description: 2nd Level Wall Plaster
Location: South East Window
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7526238(L2)
Client No.: OH-03
Analyst Observation: Tan Plaster
Client Description: 2nd Level Wall Plaster
Location: South East Window
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
1 Hair
1 Cellulose

Percent Non-Fibrous Material:
98

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/16/2022
Date Analyzed: 11/22/2022
Signature:
Analyst: Dean Andrews

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/22/2022
Report No.: 672775 - PLM
Project: Orwell House
Project No.: PE22400

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7526239
Client No.: OH-04

Analyst Observation: White Plaster
Client Description: 2nd Level Wall Plaster

Location: Between Loom And Stairs
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7526240
Client No.: OH-05

Analyst Observation: Tan Plaster
Client Description: Wall Plaster

Location: Basement Workshop
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
1 Hair
1 Cellulose

Percent Non-Fibrous Material:
98

Lab No.: 7526241
Client No.: OH-06

Analyst Observation: Grey Insulation
Client Description: Tank Insulation

Location: Basement
Facility:

Percent Asbestos:
30 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
10 Cellulose

Percent Non-Fibrous Material:
60

Lab No.: 7526242
Client No.: OH-07

Analyst Observation: White Plaster
Client Description: Wall Plaster

Location: Upstairs Crawlspace
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7526242(L2)
Client No.: OH-07

Analyst Observation: Tan Plaster
Client Description: Wall Plaster

Location: Upstairs Crawlspace
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
2 Hair
1 Cellulose

Percent Non-Fibrous Material:
97

Lab No.: 7526243
Client No.: OH-08

Analyst Observation: White Plaster
Client Description: Wall Plaster

Location: Front Door
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/16/2022
Date Analyzed: 11/22/2022
Signature:
Analyst: Dean Andrews

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/22/2022
Report No.: 672775 - PLM
Project: Orwell House
Project No.: PE22400

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7526243(L2)
Client No.: OH-08
Analyst Observation: Off-White Plaster
Client Description: Wall Plaster
Location: Front Door
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
1 Hair
3 Cellulose

Percent Non-Fibrous Material:
96

Lab No.: 7526243(L3)
Client No.: OH-08
Analyst Observation: Tan Plaster
Client Description: Wall Plaster
Location: Front Door
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
2 Hair
1 Cellulose

Percent Non-Fibrous Material:
97

Lab No.: 7526244
Client No.: OH-09
Analyst Observation: White Plaster
Client Description: Wall Plaster
Location: Backstairs
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7526244(L2)
Client No.: OH-09
Analyst Observation: Off-White Plaster
Client Description: Wall Plaster
Location: Backstairs
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
3 Cellulose

Percent Non-Fibrous Material:
97

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/16/2022
Date Analyzed: 11/22/2022
Signature:
Analyst: Dean Andrews

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
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CERTIFICATE OF ANALYSIS

Client:	ALL-TECH Environmental Services Limited	Report Date:	11/22/2022
	20 Duke St.,Suite 109	Report No.:	672775 - PLM
	Bedford NS B4A 2Z5	Project:	Orwell House
		Project No.:	PE22400
Client:	ALL131		

Appendix to Analytical Report

Customer Contact:
Method: 40 CFR Appendix E to Subpart E of Part 763, interim method for the Determination of Asbestos in Bulk Insulation Samples, USEPA 600, R93-116 and NYSDOH ELAP 198.1 as needed.

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com
iATL Office Manager: wchampion@iatl.com
iATL Account Representative: Semih Kocahasan
Sample Login Notes: See Batch Sheet Attached
Sample Matrix: Bulk Building Materials
Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and ir our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

Information Pertinent to this Report:

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

Certifications:

- NIST-NVLAP No. 101165-0
- NYSDOH-ELAP No. 11021
- AIHA-LAP, LLC No. 100188

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. PC Trace represents a <0.25% amount. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB) See additional information at the end of this appendix.

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20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/22/2022
Report No.: 672775 - PLM
Project: Orwell House
Project No.: PE22400

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process)
Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique – by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a list with highlighted disclaimers that may be pertinent to this project. For a full explanation of these and other disclaimers, please inquire at **customerservice@iatl.com**.

1) Note: No mastic provided for analysis.
2) Note: Insufficient mastic provided for analysis.
3) Note: Insufficient material provided for analysis.
4) Note: Insufficient sample provided for QC reanalysis.
5) Note: Different material than indicated on Sample Log / Description.
6) Note: Sample not submitted.
7) Note: Attached to asbestos containing material.
8) Note: Received wet.
9) Note: Possible surface contamination.
10) Note: Not building material. 1% threshold may not apply.
11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
12) Note: Asbestos detected but not quantifiable.
13) Note: Multiple identical samples submitted, only one analyzed.
14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.
16) Note: This sample contains >10% vermiculite mineral. See Appendix for Recommendations for Vermiculite Analysis.

Recommendations for Vermiculite Analysis:

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gange, homogeneous exfoliated books of mica, or mixed mineral composites).Please contact your client representative for pricing and turnaround time options available.

iATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

For New York State customers, NYSDOH requires disclaimers and qualifiers for various vermiculite containing samples that direct analysis via ELAP198.6 and ELAP198.8 for samples that contain >10% vermiculite mineral where ELAP198.6 may be used to evaluate the asbestos content of the material. However, any test result using ELAP198.6 will be reported with the following disclaimer: “ELAP198.6 method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing >10% vermiculite.”

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) www.atsdr.cdc.gov, United States Geological Survey (USGS) www.minerals.usgs.gov/minerals/, US EPA www.epa.gov/asbestos. The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional. NYS customers please follow current NYSDOH ELAP requirements per policy on subject of surfacing and vermiculite, May 6, 2016, Testing Requirements for Surfacing Material Containing Vermiculite (https://www.wadsworth.org/sites/default/files/WebDoc/I198_8_02_2.pdf)

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

1)**Analytical Step/Method:** Initial Screening by PLM, EPA 600R-93/116
Requirements/Comments: Minimum of 0.1 g of sample. ~0.25% for most samples.

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Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client:	ALL-TECH Environmental Services Limited	Report Date:	11/22/2022
	20 Duke St.,Suite 109	Report No.:	672775 - PLM
	Bedford NS B4A 2Z5	Project:	Orwell House
		Project No.:	PE22400
Client:	ALL131		

2)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

3)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Floats" only.

4)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

5)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Suspension" only.
*With advance notice and confirmation by the laboratory.
**Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).

New York State Department of Health requires that samples originating from NYS that they categorize as Non-friable Organically Bound materials can only be confirmed as None Detected for asbestos by method 198.4. See the table below for a list of those materials. (ENVIRONMENTAL LABORATORY APPROVAL PROGRAM CERTIFICATION MANUAL - ITEM No. 198.1, Revision Date 5/6/16)

*Asphalt Shingles, Caulking, Ceiling Tiles with Cellulose, Duct Wrap, Glazing, Mastic, Paint Chips, Resilient Floor Tiles, Rubberized Asbestos Gaskets, Siding Shingles, Vinyl Asbestos Tile, NOB materials (other that SM-V) with <10% vermiculite, Any material (Friable or NOB other than SM-V) with >10% vermiculite.

Statistically derived uncertainty with any measure should be taken into consideration when reviewing and interpreting all reported data and results. A more comprehensive listing of accuracy, precision, and uncertainty as it impacts this method is available upon request.

School House

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CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/22/2022
Report No.: 672727 - PLM
Project: Orwell School
Project No.: PE22400

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7526016 **Analyst Observation:** White Plaster **Location:** Entrance
Client No.: SC-01 **Client Description:** Plaster **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7526016(L2) **Analyst Observation:** Grey Plaster **Location:** Entrance
Client No.: SC-01 **Client Description:** Plaster **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7526017 **Analyst Observation:** Grey Plaster **Location:** Woodstove (Chimney)
Client No.: SC-02 **Client Description:** Plaster **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7526018 **Analyst Observation:** White Plaster **Location:**
Client No.: SC-03 **Client Description:** Wall Plaster- Drywall Joint Compound **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Insufficient joint compound

Lab No.: 7526018(L2) **Analyst Observation:** Grey Plaster **Location:**
Client No.: SC-03 **Client Description:** Wall Plaster- Drywall Joint Compound **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/16/2022
Date Analyzed: 11/22/2022
Signature:
Analyst: Aidan Becker

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/22/2022
Report No.: 672727 - PLM
Project: Orwell School
Project No.: PE22400

Appendix to Analytical Report

Customer Contact:
Method:40 CFR Appendix E to Subpart E of Part 763, interim method for the Determination of Asbestos in Bulk Insulation Samples, USEPA 600, R93-116 and NYSDOH ELAP 198.1 as needed.

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com
iATL Office Manager:wchampion@iatl.com
iATL Account Representative: Semih Kocahasan
Sample Login Notes: See Batch Sheet Attached
Sample Matrix: Bulk Building Materials
Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and ir our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

Information Pertinent to this Report:

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

Certifications:

- NIST-NVLAP No. 101165-0
- NYSDOH-ELAP No. 11021
- AIHA-LAP, LLC No. 100188

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. PC Trace represents a <0.25% amount. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB) See additional information at the end of this appendix.

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CERTIFICATE OF ANALYSIS

Client:	ALL-TECH Environmental Services Limited	Report Date:	11/22/2022
	20 Duke St.,Suite 109	Report No.:	672727 - PLM
	Bedford NS B4A 2Z5	Project:	Orwell School
		Project No.:	PE22400
Client:	ALL131		

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process)
Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique – by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a list with highlighted disclaimers that may be pertinent to this project. For a full explanation of these and other disclaimers, please inquire at **customerservice@iatl.com**.

1) Note: No mastic provided for analysis.
2) Note: Insufficient mastic provided for analysis.
3) Note: Insufficient material provided for analysis.
4) Note: Insufficient sample provided for QC reanalysis.
5) Note: Different material than indicated on Sample Log / Description.
6) Note: Sample not submitted.
7) Note: Attached to asbestos containing material.
8) Note: Received wet.
9) Note: Possible surface contamination.
10) Note: Not building material. 1% threshold may not apply.
11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
12) Note: Asbestos detected but not quantifiable.
13) Note: Multiple identical samples submitted, only one analyzed.
14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.
16) Note: This sample contains >10% vermiculite mineral. See Appendix for Recommendations for Vermiculite Analysis.

Recommendations for Vermiculite Analysis:

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gange, homogeneous exfoliated books of mica, or mixed mineral composites).Please contact your client representative for pricing and turnaround time options available.

iATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

For New York State customers, NYSDOH requires disclaimers and qualifiers for various vermiculite containing samples that direct analysis via ELAP198.6 and ELAP198.8 for samples that contain >10% vermiculite mineral where ELAP198.6 may be used to evaluate the asbestos content of the material. However, any test result using ELAP198.6 will be reported with the following disclaimer: “ELAP198.6 method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing >10% vermiculite.”

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) www.atsdr.cdc.gov, United States Geological Survey (USGS) www.minerals.usgs.gov/minerals/, US EPA www.epa.gov/asbestos. The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional. NYS customers please follow current NYSDOH ELAP requirements per policy on subject of surfacing and vermiculite, May 6, 2016, Testing Requirements for Surfacing Material Containing Vermiculite (https://www.wadsworth.org/sites/default/files/WebDoc/I198_8_02_2.pdf)

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

1)**Analytical Step/Method:** Initial Screening by PLM, EPA 600R-93/116
Requirements/Comments: Minimum of 0.1 g of sample. ~0.25% for most samples.

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CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/22/2022
Report No.: 672727 - PLM
Project: Orwell School
Project No.: PE22400

2)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

3)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Floats" only.

4)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

5)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Suspension" only.
*With advance notice and confirmation by the laboratory.
**Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).

New York State Department of Health requires that samples originating from NYS that they categorize as Non-friable Organically Bound materials can only be confirmed as None Detected for asbestos by method 198.4. See the table below for a list of those materials. (ENVIRONMENTAL LABORATORY APPROVAL PROGRAM CERTIFICATION MANUAL - ITEM No. 198.1, Revision Date 5/6/16)

*Asphalt Shingles, Caulking, Ceiling Tiles with Cellulose, Duct Wrap, Glazing, Mastic, Paint Chips, Resilient Floor Tiles, Rubberized Asbestos Gaskets, Siding Shingles, Vinyl Asbestos Tile, NOB materials (other that SM-V) with <10% vermiculite, Any material (Friable or NOB other than SM-V) with >10% vermiculite.

Statistically derived uncertainty with any measure should be taken into consideration when reviewing and interpreting all reported data and results. A more comprehensive listing of accuracy, precision, and uncertainty as it impacts this method is available upon request.

Community Hall

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Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/17/2022
Report No.: 672729 - PLM
Project: Orwell Community Hall
Project No.: PE22400

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7526025
Client No.: KH-01
Analyst Observation: Beige Vinyl Sheet Flooring
Client Description: Vinyl Sheet Flooring
Location: Kitchen
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
5 Cellulose
5 Fibrous Glass

Percent Non-Fibrous Material:
90

Lab No.: 7526025(L2)
Client No.: KH-01
Analyst Observation: Tan Mastic
Client Description: Vinyl Sheet Flooring
Location: Kitchen
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
1 Cellulose

Percent Non-Fibrous Material:
99

Lab No.: 7526026
Client No.: KH-02
Analyst Observation: White Joint Compound
Client Description: Drywall Joint Compound
Location: Kitchen Ceiling
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7526027
Client No.: KH-03
Analyst Observation: White Drywall
Client Description: Drywall Joint Compound
Location: Kitchen Ceiling
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
5 Cellulose
1 Fibrous Glass

Percent Non-Fibrous Material:
94

Lab No.: 7526027(L2)
Client No.: KH-03
Analyst Observation: White Joint Compound
Client Description: Drywall Joint Compound
Location: Kitchen Ceiling
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7526028
Client No.: KH-04
Analyst Observation: Beige Floor Tile
Client Description: 12x12 Speckle Floor Tile
Location: Bathroom
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/16/2022
Date Analyzed: 11/17/2022
Signature:
Analyst: Dean Andrews

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

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CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/17/2022
Report No.: 672729 - PLM
Project: Orwell Community Hall
Project No.: PE22400

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7526028(L2) **Analyst Observation:** Black Mastic **Location:** Bathroom
Client No.: KH-04 **Client Description:** 12x12 Speckle Floor Tile **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7526029 **Analyst Observation:** White Drywall **Location:** Men's Bathroom Ceiling
Client No.: KH-05 **Client Description:** Drywall Joint Compound **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	3 Cellulose	97

Lab No.: 7526029(L2) **Analyst Observation:** White Joint Compound **Location:** Men's Bathroom Ceiling
Client No.: KH-05 **Client Description:** Drywall Joint Compound **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7526029(L3) **Analyst Observation:** White Tape **Location:** Men's Bathroom Ceiling
Client No.: KH-05 **Client Description:** Drywall Joint Compound **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	90 Cellulose	10

Lab No.: 7526029(L4) **Analyst Observation:** White Joint Compound **Location:** Men's Bathroom Ceiling
Client No.: KH-05 **Client Description:** Drywall Joint Compound **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7526030 **Analyst Observation:** White Joint Compound **Location:** Ladies Bathroom Ceiling
Client No.: KH-06 **Client Description:** Drywall Joint Compound **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/16/2022
Date Analyzed: 11/17/2022
Signature:
Analyst: Dean Andrews

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

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Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/17/2022
Report No.: 672729 - PLM
Project: Orwell Community Hall
Project No.: PE22400

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7526030(L2)
Client No.: KH-06
Analyst Observation: White Tape
Client Description: Drywall Joint Compound
Location: Ladies Bathroom Ceiling
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
90 Cellulose

Percent Non-Fibrous Material:
10

Lab No.: 7526030(L3)
Client No.: KH-06
Analyst Observation: White Joint Compound
Client Description: Drywall Joint Compound
Location: Ladies Bathroom Ceiling
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7526031
Client No.: KH-07
Analyst Observation: White Joint Compound
Client Description: Drywall Joint Compound
Location: Back Hallway
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7526032
Client No.: KH-08
Analyst Observation: White Joint Compound
Client Description: Drywall Joint Compound
Location: Men's Bathroom
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7526033
Client No.: KH-09
Analyst Observation: White Joint Compound
Client Description: Drywall Joint Compound
Location: Ladies Bathroom
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7526034
Client No.: KH-10
Analyst Observation: White Joint Compound
Client Description: Drywall Joint Compound
Location: Basement Wall
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/16/2022
Date Analyzed: 11/17/2022
Signature:
Analyst: Dean Andrews

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
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CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/17/2022
Report No.: 672729 - PLM
Project: Orwell Community Hall
Project No.: PE22400

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7526035
Client No.: KH-11
Analyst Observation: White Ceiling Tile
Client Description: Ceiling Tile
Location: Basement
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
1 Fibrous Glass

Percent Non-Fibrous Material:
99

Lab No.: 7526035(L2)
Client No.: KH-11
Analyst Observation: Yellow Insulation
Client Description: Ceiling Tile
Location: Basement
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
98 Fibrous Glass

Percent Non-Fibrous Material:
2

Lab No.: 7526036
Client No.: KH-12
Analyst Observation: Off-White Drywall
Client Description: Drywall Joint Compound
Location: Room In Basement
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
7 Cellulose

Percent Non-Fibrous Material:
93

Lab No.: 7526036(L2)
Client No.: KH-12
Analyst Observation: White Joint Compound
Client Description: Drywall Joint Compound
Location: Room In Basement
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7526037
Client No.: KH-13
Analyst Observation: Green Drywall
Client Description: Drywall Joint Compound
Location: Boiler Rm
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
12 Cellulose
1 Fibrous Glass

Percent Non-Fibrous Material:
87

Lab No.: 7526037(L2)
Client No.: KH-13
Analyst Observation: White Joint Compound
Client Description: Drywall Joint Compound
Location: Boiler Rm
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/16/2022
Date Analyzed: 11/17/2022
Signature:
Analyst: Dean Andrews

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

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CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/17/2022
Report No.: 672729 - PLM
Project: Orwell Community Hall
Project No.: PE22400

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7526038
Client No.: KH-14
Analyst Observation: White Drywall
Client Description: Drywall Joint Compound
Location: Attic
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
12 Cellulose
1 Fibrous Glass

Percent Non-Fibrous Material:
87

Lab No.: 7526038(L2)
Client No.: KH-14
Analyst Observation: White Joint Compound
Client Description: Drywall Joint Compound
Location: Attic
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7526039
Client No.: KH-15
Analyst Observation: Clear Insulation
Client Description:
Location: Kitchen Light Fixture
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
75 Fibrous Glass

Percent Non-Fibrous Material:
25

Lab No.: 7526039(L2)
Client No.: KH-15
Analyst Observation: Yellow Mastic
Client Description:
Location: Kitchen Light Fixture
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
5 Fibrous Glass

Percent Non-Fibrous Material:
95

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/16/2022
Date Analyzed: 11/17/2022
Signature:
Analyst: Dean Andrews

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/17/2022
Report No.: 672729 - PLM
Project: Orwell Community Hall
Project No.: PE22400

Appendix to Analytical Report

Customer Contact:
Method:40 CFR Appendix E to Subpart E of Part 763, interim method for the Determination of Asbestos in Bulk Insulation Samples, USEPA 600, R93-116 and NYSDOH ELAP 198.1 as needed.

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com
iATL Office Manager:wchampion@iatl.com
iATL Account Representative: Semih Kocahasan
Sample Login Notes: See Batch Sheet Attached
Sample Matrix: Bulk Building Materials
Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and ir our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

Information Pertinent to this Report:

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

Certifications:

- NIST-NVLAP No. 101165-0
- NYSDOH-ELAP No. 11021
- AIHA-LAP, LLC No. 100188

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. PC Trace represents a <0.25% amount. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB) See additional information at the end of this appendix.

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Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client:	ALL-TECH Environmental Services Limited	Report Date:	11/17/2022
	20 Duke St.,Suite 109	Report No.:	672729 - PLM
	Bedford NS B4A 2Z5	Project:	Orwell Community Hall
		Project No.:	PE22400
Client:	ALL131		

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process)
Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique – by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a list with highlighted disclaimers that may be pertinent to this project. For a full explanation of these and other disclaimers, please inquire at **customerservice@iatl.com**.

1) Note: No mastic provided for analysis.
2) Note: Insufficient mastic provided for analysis.
3) Note: Insufficient material provided for analysis.
4) Note: Insufficient sample provided for QC reanalysis.
5) Note: Different material than indicated on Sample Log / Description.
6) Note: Sample not submitted.
7) Note: Attached to asbestos containing material.
8) Note: Received wet.
9) Note: Possible surface contamination.
10) Note: Not building material. 1% threshold may not apply.
11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
12) Note: Asbestos detected but not quantifiable.
13) Note: Multiple identical samples submitted, only one analyzed.
14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.
16) Note: This sample contains >10% vermiculite mineral. See Appendix for Recommendations for Vermiculite Analysis.

Recommendations for Vermiculite Analysis:

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gange, homogeneous exfoliated books of mica, or mixed mineral composites).Please contact your client representative for pricing and turnaround time options available.

iATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

For New York State customers, NYSDOH requires disclaimers and qualifiers for various vermiculite containing samples that direct analysis via ELAP198.6 and ELAP198.8 for samples that contain >10% vermiculite mineral where ELAP198.6 may be used to evaluate the asbestos content of the material. However, any test result using ELAP198.6 will be reported with the following disclaimer: “ELAP198.6 method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing >10% vermiculite.”

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) www.atsdr.cdc.gov, United States Geological Survey (USGS) www.minerals.usgs.gov/minerals/, US EPA www.epa.gov/asbestos. The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional. NYS customers please follow current NYSDOH ELAP requirements per policy on subject of surfacing and vermiculite, May 6, 2016, Testing Requirements for Surfacing Material Containing Vermiculite (https://www.wadsworth.org/sites/default/files/WebDoc/I198_8_02_2.pdf)

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

1)**Analytical Step/Method:** Initial Screening by PLM, EPA 600R-93/116
Requirements/Comments: Minimum of 0.1 g of sample. ~0.25% for most samples.

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Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client:	ALL-TECH Environmental Services Limited	Report Date:	11/17/2022
	20 Duke St.,Suite 109	Report No.:	672729 - PLM
	Bedford NS B4A 2Z5	Project:	Orwell Community Hall
		Project No.:	PE22400
Client:	ALL131		

2)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

3)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Floats" only.

4)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

5)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Suspension" only.
*With advance notice and confirmation by the laboratory.
**Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).

New York State Department of Health requires that samples originating from NYS that they categorize as Non-friable Organically Bound materials can only be confirmed as None Detected for asbestos by method 198.4. See the table below for a list of those materials. (ENVIRONMENTAL LABORATORY APPROVAL PROGRAM CERTIFICATION MANUAL - ITEM No. 198.1, Revision Date 5/6/16)

*Asphalt Shingles, Caulking, Ceiling Tiles with Cellulose, Duct Wrap, Glazing, Mastic, Paint Chips, Resilient Floor Tiles, Rubberized Asbestos Gaskets, Siding Shingles, Vinyl Asbestos Tile, NOB materials (other that SM-V) with <10% vermiculite, Any material (Friable or NOB other than SM-V) with >10% vermiculite.

Statistically derived uncertainty with any measure should be taken into consideration when reviewing and interpreting all reported data and results. A more comprehensive listing of accuracy, precision, and uncertainty as it impacts this method is available upon request.

Cement Block Building

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

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Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/22/2022
Report No.: 672773 - PLM
Project: Cement Building
Project No.: PE22400

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7526217 | **Analyst Observation:** White Drywall | **Location:** Near Main Door
Client No.: CB-01 | **Client Description:** Drywall | **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	5 Cellulose	95

Note: No joint compound present

Lab No.: 7526218 | **Analyst Observation:** White Drywall | **Location:** Back Storage Room
Client No.: CB-02 | **Client Description:** Drywall Joint Compound Ceiling | **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	5 Cellulose	95

Lab No.: 7526218(L2) | **Analyst Observation:** Off-White Joint Compound | **Location:** Back Storage Room
Client No.: CB-02 | **Client Description:** Drywall Joint Compound Ceiling | **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7526219 | **Analyst Observation:** White Drywall | **Location:** Main Area
Client No.: CB-03 | **Client Description:** Drywall Joint Compound | **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	5 Cellulose	95

Lab No.: 7526219(L2) | **Analyst Observation:** Off-White Joint Compound | **Location:** Main Area
Client No.: CB-03 | **Client Description:** Drywall Joint Compound | **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7526220 | **Analyst Observation:** Brown Insulation | **Location:**
Client No.: CB-04 | **Client Description:** Insulation | **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	60 Cellulose	40

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/16/2022
Date Analyzed: 11/22/2022
Signature:
Analyst: Aidan Becker

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/22/2022
Report No.: 672773 - PLM
Project: Cement Building
Project No.: PE22400

Appendix to Analytical Report

Customer Contact:
Method:40 CFR Appendix E to Subpart E of Part 763, interim method for the Determination of Asbestos in Bulk Insulation Samples, USEPA 600, R93-116 and NYSDOH ELAP 198.1 as needed.

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com
iATL Office Manager:wchampion@iatl.com
iATL Account Representative: Semih Kocahasan
Sample Login Notes: See Batch Sheet Attached
Sample Matrix: Bulk Building Materials
Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and ir our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

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This report shall not be reproduced except in full, without written approval of the laboratory.

Information Pertinent to this Report:

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

Certifications:

- NIST-NVLAP No. 101165-0
- NYSDOH-ELAP No. 11021
- AIHA-LAP, LLC No. 100188

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. PC Trace represents a <0.25% amount. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB) See additional information at the end of this appendix.

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Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/22/2022
Report No.: 672773 - PLM
Project: Cement Building
Project No.: PE22400

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process)
Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique – by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a list with highlighted disclaimers that may be pertinent to this project. For a full explanation of these and other disclaimers, please inquire at **customerservice@iatl.com**.

1) Note: No mastic provided for analysis.
2) Note: Insufficient mastic provided for analysis.
3) Note: Insufficient material provided for analysis.
4) Note: Insufficient sample provided for QC reanalysis.
5) Note: Different material than indicated on Sample Log / Description.
6) Note: Sample not submitted.
7) Note: Attached to asbestos containing material.
8) Note: Received wet.
9) Note: Possible surface contamination.
10) Note: Not building material. 1% threshold may not apply.
11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
12) Note: Asbestos detected but not quantifiable.
13) Note: Multiple identical samples submitted, only one analyzed.
14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.
16) Note: This sample contains >10% vermiculite mineral. See Appendix for Recommendations for Vermiculite Analysis.

Recommendations for Vermiculite Analysis:

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gange, homogeneous exfoliated books of mica, or mixed mineral composites).Please contact your client representative for pricing and turnaround time options available.

iATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

For New York State customers, NYSDOH requires disclaimers and qualifiers for various vermiculite containing samples that direct analysis via ELAP198.6 and ELAP198.8 for samples that contain >10% vermiculite mineral where ELAP198.6 may be used to evaluate the asbestos content of the material. However, any test result using ELAP198.6 will be reported with the following disclaimer: “ELAP198.6 method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing >10% vermiculite.”

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) www.atsdr.cdc.gov, United States Geological Survey (USGS) www.minerals.usgs.gov/minerals/, US EPA www.epa.gov/asbestos. The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional. NYS customers please follow current NYSDOH ELAP requirements per policy on subject of surfacing and vermiculite, May 6, 2016, Testing Requirements for Surfacing Material Containing Vermiculite (https://www.wadsworth.org/sites/default/files/WebDoc/I198_8_02_2.pdf)

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

1)**Analytical Step/Method:** Initial Screening by PLM, EPA 600R-93/116
Requirements/Comments: Minimum of 0.1 g of sample. ~0.25% for most samples.

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CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/22/2022
Report No.: 672773 - PLM
Project: Cement Building
Project No.: PE22400

2)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

3)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Floats" only.

4)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

5)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Suspension" only.
*With advance notice and confirmation by the laboratory.
**Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).

New York State Department of Health requires that samples originating from NYS that they categorize as Non-friable Organically Bound materials can only be confirmed as None Detected for asbestos by method 198.4. See the table below for a list of those materials. (ENVIRONMENTAL LABORATORY APPROVAL PROGRAM CERTIFICATION MANUAL - ITEM No. 198.1, Revision Date 5/6/16)

*Asphalt Shingles, Caulking, Ceiling Tiles with Cellulose, Duct Wrap, Glazing, Mastic, Paint Chips, Resilient Floor Tiles, Rubberized Asbestos Gaskets, Siding Shingles, Vinyl Asbestos Tile, NOB materials (other that SM-V) with <10% vermiculite, Any material (Friable or NOB other than SM-V) with >10% vermiculite.

Statistically derived uncertainty with any measure should be taken into consideration when reviewing and interpreting all reported data and results. A more comprehensive listing of accuracy, precision, and uncertainty as it impacts this method is available upon request.

Taylor House

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CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/23/2022
Report No.: 672777 - PLM
Project: Orwell Taylor House
Project No.: PE22400

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7526251
Client No.: TH-01
Analyst Observation: White Drywall
Client Description: Drywall Joint Compound
Location: Kitchen Wall
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
1 Cellulose

Percent Non-Fibrous Material:
99

Lab No.: 7526251(L2)
Client No.: TH-01
Analyst Observation: Tan Joint Compound
Client Description: Drywall Joint Compound
Location: Kitchen Wall
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7526251(L3)
Client No.: TH-01
Analyst Observation: White Joint Compound
Client Description: Drywall Joint Compound
Location: Kitchen Wall
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7526252
Client No.: TH-02
Analyst Observation: Tan Joint Compound
Client Description: Drywall Joint Compound
Location: Dining Room Wall
Facility:

Percent Asbestos:
PC 1.4 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
98.6

Lab No.: 7526253
Client No.: TH-03
Analyst Observation: White Joint Compound
Client Description: Drywall Joint Compound
Location: Storage Room 1st Floor
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7526254
Client No.: TH-04
Analyst Observation: Tan Plaster
Client Description: Ceiling Plaster
Location: Hallway/Entrance
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
1 Cellulose

Percent Non-Fibrous Material:
99

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/16/2022
Date Analyzed: 11/23/2022
Signature:
Analyst: Dean Andrews

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/23/2022
Report No.: 672777 - PLM
Project: Orwell Taylor House
Project No.: PE22400

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7526254(L2)
Client No.: TH-04
Analyst Observation: White Plaster
Client Description: Ceiling Plaster
Location: Hallway/Entrance
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
4 Cellulose

Percent Non-Fibrous Material:
96

Lab No.: 7526255
Client No.: TH-05
Analyst Observation: White Plaster
Client Description: Ceiling Plaster
Location: Living Room
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7526255(L2)
Client No.: TH-05
Analyst Observation: Red/Tan Plaster
Client Description: Ceiling Plaster
Location: Living Room
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
3 Hair
1 Cellulose

Percent Non-Fibrous Material:
96

Lab No.: 7526256
Client No.: TH-06
Analyst Observation: Tan/White Joint Compound
Client Description: Particle Board
Location: Kitchen Ceiling
Facility:

Percent Asbestos:
PC 1.2 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
Trace Cellulose

Percent Non-Fibrous Material:
98.8

Lab No.: 7526256(L2)
Client No.: TH-06
Analyst Observation: Brown Fibrous Backing
Client Description: Particle Board
Location: Kitchen Ceiling
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
75 Cellulose

Percent Non-Fibrous Material:
25

Lab No.: 7526256(L3)
Client No.: TH-06
Analyst Observation: Black Mastic
Client Description: Particle Board
Location: Kitchen Ceiling
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
1 Cellulose

Percent Non-Fibrous Material:
99

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/16/2022
Date Analyzed: 11/23/2022
Signature:
Analyst: Dean Andrews

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/23/2022
Report No.: 672777 - PLM
Project: Orwell Taylor House
Project No.: PE22400

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7526257
Client No.: TH-07
Analyst Observation: White Plaster
Client Description: Plaster Ceiling
Location: Bedroom Second Level
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7526257(L2)
Client No.: TH-07
Analyst Observation: Red/Tan Plaster
Client Description: Plaster Ceiling
Location: Bedroom Second Level
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
3 Hair
1 Cellulose

Percent Non-Fibrous Material:
96

Lab No.: 7526258
Client No.: TH-08
Analyst Observation: White Plaster
Client Description: Plaster Ceiling
Location: Bedroom Ceiling Second Level
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7526258(L2)
Client No.: TH-08
Analyst Observation: Red/Tan Plaster
Client Description: Plaster Ceiling
Location: Bedroom Ceiling Second Level
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
3 Hair
1 Cellulose

Percent Non-Fibrous Material:
96

Lab No.: 7526259
Client No.: TH-09
Analyst Observation: White Plaster
Client Description: Plaster Wall
Location: Second Level
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7526259(L2)
Client No.: TH-09
Analyst Observation: Red/Tan Plaster
Client Description: Plaster Wall
Location: Second Level
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
3 Hair
1 Cellulose

Percent Non-Fibrous Material:
96

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/16/2022
Date Analyzed: 11/23/2022
Signature:
Analyst: Dean Andrews

Approved By:
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Laboratory Director

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CERTIFICATE OF ANALYSIS

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Client: ALL131

Report Date: 11/23/2022
Report No.: 672777 - PLM
Project: Orwell Taylor House
Project No.: PE22400

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7526260
Client No.: TH-10

Analyst Observation: Brown Insulation
Client Description: Insulation

Location: Attic
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
75 Cellulose

Percent Non-Fibrous Material:
25

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/16/2022
Date Analyzed: 11/23/2022
Signature:
Analyst: Dean Andrews

Approved By:
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Laboratory Director

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CERTIFICATE OF ANALYSIS

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20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/23/2022
Report No.: 672777 - PLM
Project: Orwell Taylor House
Project No.: PE22400

Appendix to Analytical Report

Customer Contact:
Method:40 CFR Appendix E to Subpart E of Part 763, interim method for the Determination of Asbestos in Bulk Insulation Samples, USEPA 600, R93-116 and NYSDOH ELAP 198.1 as needed.

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com
iATL Office Manager:wchampion@iatl.com
iATL Account Representative: Semih Kocahasan
Sample Login Notes: See Batch Sheet Attached
Sample Matrix: Bulk Building Materials
Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and ir our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

Information Pertinent to this Report:

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

Certifications:

- NIST-NVLAP No. 101165-0
- NYSDOH-ELAP No. 11021
- AIHA-LAP, LLC No. 100188

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. PC Trace represents a <0.25% amount. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB) See additional information at the end of this appendix.

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CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/23/2022
Report No.: 672777 - PLM
Project: Orwell Taylor House
Project No.: PE22400

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process)
Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique – by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

Disclaimers / Qualifiers:

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1) Note: No mastic provided for analysis.
2) Note: Insufficient mastic provided for analysis.
3) Note: Insufficient material provided for analysis.
4) Note: Insufficient sample provided for QC reanalysis.
5) Note: Different material than indicated on Sample Log / Description.
6) Note: Sample not submitted.
7) Note: Attached to asbestos containing material.
8) Note: Received wet.
9) Note: Possible surface contamination.
10) Note: Not building material. 1% threshold may not apply.
11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
12) Note: Asbestos detected but not quantifiable.
13) Note: Multiple identical samples submitted, only one analyzed.
14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.
16) Note: This sample contains >10% vermiculite mineral. See Appendix for Recommendations for Vermiculite Analysis.

Recommendations for Vermiculite Analysis:

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gange, homogeneous exfoliated books of mica, or mixed mineral composites).Please contact your client representative for pricing and turnaround time options available.

iATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

For New York State customers, NYSDOH requires disclaimers and qualifiers for various vermiculite containing samples that direct analysis via ELAP198.6 and ELAP198.8 for samples that contain >10% vermiculite mineral where ELAP198.6 may be used to evaluate the asbestos content of the material. However, any test result using ELAP198.6 will be reported with the following disclaimer: “ELAP198.6 method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing >10% vermiculite.”

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) www.atsdr.cdc.gov, United States Geological Survey (USGS) www.minerals.usgs.gov/minerals/, US EPA www.epa.gov/asbestos. The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional. NYS customers please follow current NYSDOH ELAP requirements per policy on subject of surfacing and vermiculite, May 6, 2016, Testing Requirements for Surfacing Material Containing Vermiculite (https://www.wadsworth.org/sites/default/files/WebDoc/I198_8_02_2.pdf)

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

1)**Analytical Step/Method:** Initial Screening by PLM, EPA 600R-93/116
Requirements/Comments: Minimum of 0.1 g of sample. ~0.25% for most samples.

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Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/23/2022
Report No.: 672777 - PLM
Project: Orwell Taylor House
Project No.: PE22400

2)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

3)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Floats" only.

4)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

5)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Suspension" only.
*With advance notice and confirmation by the laboratory.
**Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).

New York State Department of Health requires that samples originating from NYS that they categorize as Non-friable Organically Bound materials can only be confirmed as None Detected for asbestos by method 198.4. See the table below for a list of those materials. (ENVIRONMENTAL LABORATORY APPROVAL PROGRAM CERTIFICATION MANUAL - ITEM No. 198.1, Revision Date 5/6/16)

*Asphalt Shingles, Caulking, Ceiling Tiles with Cellulose, Duct Wrap, Glazing, Mastic, Paint Chips, Resilient Floor Tiles, Rubberized Asbestos Gaskets, Siding Shingles, Vinyl Asbestos Tile, NOB materials (other that SM-V) with <10% vermiculite, Any material (Friable or NOB other than SM-V) with >10% vermiculite.

Statistically derived uncertainty with any measure should be taken into consideration when reviewing and interpreting all reported data and results. A more comprehensive listing of accuracy, precision, and uncertainty as it impacts this method is available upon request.

APPENDIX II

Laboratory Certificate of Analysis – Lead Paint Samples

Orwell House

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

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Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/23/2022
Report No.: 672765 - Lead Paint
Project: Orwell House
Project No.: PE22400

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.: 7526177 **Description:** Cream Paint **Result (% by Weight):** <0.0074
Client No.: OHP-01 **Location:** Exterior **Result (ppm):** <74
Comments:

Lab No.: 7526178 **Description:** Beige Color **Result (% by Weight):** 25
Client No.: OHP-02 **Location:** Trim And Doors **Result (ppm):** 250000
Comments: ***

Lab No.: 7526179 **Description:** White Paint **Result (% by Weight):** <0.0083
Client No.: OHP-03 **Location:** Ceiling **Result (ppm):** <83
Comments:

Lab No.: 7526180 **Description:** Grey Paint **Result (% by Weight):** 18
Client No.: OHP-04 **Location:** Trim **Result (ppm):** 180000
Comments: ***

Lab No.: 7526181 **Description:** Lt Blue **Result (% by Weight):** 2.3
Client No.: OHP-05 **Location:** Door Paint **Result (ppm):** 23000
Comments:

Lab No.: 7526182 **Description:** White Paint On Plaster **Result (% by Weight):** 0.017
Client No.: OHP-06 **Location:** Under Wallpaper Upstairs Bedroom **Result (ppm):** 170
Comments: ***

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/16/2022
Date Analyzed: 11/23/2022
Signature: Chad Shaffer
Analyst: Chad Shaffer

Approved By: Frank E. Ehrenfeld, III
Laboratory Director

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client:	ALL-TECH Environmental Services Limited	Report Date:	11/23/2022
	20 Duke St.,Suite 109	Report No.:	672765 - Lead Paint
	Bedford NS B4A 2Z5	Project:	Orwell House
		Project No.:	PE22400
Client:	ALL131		

Appendix to Analytical Report:

Customer Contact:
Method: ASTM D3335-85a, US EPA SW846 3050B:7000B

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com
iATL Office Manager:wchampion@iatl.com
iATL Account Representative: Semih Kocahasan
Sample Login Notes: See Batch Sheet Attached
Sample Matrix: Paint
Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and ir our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

Information Pertinent to this Report:

Analysis by ASTM D3335-85a by AAS

Certification:
- National Lead Laboratory Program (NLLAP): AIHA-LAP, LLC No. 100188
- NYSDOH-ELAP No. 11021

This report meets the standards set forth in the EPA's National Lead Laboratory Accreditation Program (NLLAP) through the Laboratory Quality System Requirements (LQSR) Revision 3.0 November 5, 2007. All Environmental Lead Proficiency Analytical Testing (ELPAT) is through the AIHA-PAT established program.

Regulatory limit is 0.5% lead by weight (EPA/HUD guidelines). Recommend multiple sampling for all samples less than regulatory limit for confirmation.
All results are based on the samples as received at the lab. iATL assumes that appropriate sampling methods have been used and that the data upon which these results are based have been accurately supplied by the client.
Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Apendix B.
Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies.
LSD=0.2 ppm MDL=0.006% by weight. RL= 0.010% by weight (based upon 100 mg sampled).

Disclaimers / Qualifiers:

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Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client:	ALL-TECH Environmental Services Limited	Report Date:	11/23/2022
	20 Duke St.,Suite 109	Report No.:	672765 - Lead Paint
	Bedford NS B4A 2Z5	Project:	Orwell House
		Project No.:	PE22400
Client:	ALL131		

* Insufficient sample provided to perform QC reanalysis (<200 mg)
** Not enough sample provided to analyze (<50 mg)
*** Matrix / substrate interference possible.

< less than sign, signifies none-detected below the empirical value based upon sub-sampled mass. This is often below the Reporting Limit (see above).

Shingle Mill

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/23/2022
Report No.: 672754 - Lead Paint
Project: Orwell Shingle Mill
Project No.: PE22400

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.: 7526150 **Description:** White Paint **Result (% by Weight):** 0.014
Client No.: SMP-01 **Location:** **Result (ppm):** 140
Comments:

Lab No.: 7526151 **Description:** Red Paint **Result (% by Weight):** 0.065
Client No.: SMP-02 **Location:** **Result (ppm):** 650
Comments:

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/16/2022
Date Analyzed: 11/23/2022
Signature:
Analyst: Chad Shaffer

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
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CERTIFICATE OF ANALYSIS

Client:	ALL-TECH Environmental Services Limited	Report Date:	11/23/2022
	20 Duke St.,Suite 109	Report No.:	672754 - Lead Paint
	Bedford NS B4A 2Z5	Project:	Orwell Shingle Mill
		Project No.:	PE22400
Client:	ALL131		

Appendix to Analytical Report:

Customer Contact:
Method: ASTM D3335-85a, US EPA SW846 3050B:7000B

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iATL Account Representative: Semih Kocahasan
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Sample Matrix: Paint
Exceptions Noted: See Following Pages

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Information Pertinent to this Report:

Analysis by ASTM D3335-85a by AAS

Certification:
- National Lead Laboratory Program (NLLAP): AIHA-LAP, LLC No. 100188
- NYSDOH-ELAP No. 11021

This report meets the standards set forth in the EPA's National Lead Laboratory Accreditation Program (NLLAP) through the Laboratory Quality System Requirements (LQSR) Revision 3.0 November 5, 2007. All Environmental Lead Proficiency Analytical Testing (ELPAT) is through the AIHA-PAT established program.

Regulatory limit is 0.5% lead by weight (EPA/HUD guidelines). Recommend multiple sampling for all samples less than regulatory limit for confirmation.
All results are based on the samples as received at the lab. iATL assumes that appropriate sampling methods have been used and that the data upon which these results are based have been accurately supplied by the client.
Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Apendix B.
Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies.
LSD=0.2 ppm MDL=0.006% by weight. RL= 0.010% by weight (based upon 100 mg sampled).

Disclaimers / Qualifiers:

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Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/23/2022
Report No.: 672754 - Lead Paint
Project: Orwell Shingle Mill
Project No.: PE22400

* Insufficient sample provided to perform QC reanalysis (<200 mg)
** Not enough sample provided to analyze (<50 mg)
*** Matrix / substrate interference possible.

< less than sign, signifies none-detected below the empirical value based upon sub-sampled mass. This is often below the Reporting Limit (see above).

Forge

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Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/23/2022
Report No.: 672755 - Lead Paint
Project: Orwell Forge
Project No.: PE22400

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.: 7526152 **Description:** White Paint **Result (% by Weight):** 0.0069
Client No.: BSP-01 **Location:** **Result (ppm):** 69
Comments:

Lab No.: 7526153 **Description:** Red Paint **Result (% by Weight):** 0.083
Client No.: BSP-02 **Location:** **Result (ppm):** 830
Comments:

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/16/2022
Date Analyzed: 11/23/2022
Signature:
Analyst: Chad Shaffer

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client:	ALL-TECH Environmental Services Limited	Report Date:	11/23/2022
	20 Duke St.,Suite 109	Report No.:	672755 - Lead Paint
	Bedford NS B4A 2Z5	Project:	Orwell Forge
		Project No.:	PE22400
Client:	ALL131		

Appendix to Analytical Report:

Customer Contact:
Method: ASTM D3335-85a, US EPA SW846 3050B:7000B

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iATL Account Representative: Semih Kocahasan
Sample Login Notes: See Batch Sheet Attached
Sample Matrix: Paint
Exceptions Noted: See Following Pages

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Information Pertinent to this Report:

Analysis by ASTM D3335-85a by AAS

Certification:
- National Lead Laboratory Program (NLLAP): AIHA-LAP, LLC No. 100188
- NYSDOH-ELAP No. 11021

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Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client:	ALL-TECH Environmental Services Limited	Report Date:	11/23/2022
	20 Duke St.,Suite 109	Report No.:	672755 - Lead Paint
	Bedford NS B4A 2Z5	Project:	Orwell Forge
		Project No.:	PE22400
Client:	ALL131		

* Insufficient sample provided to perform QC reanalysis (<200 mg)
** Not enough sample provided to analyze (<50 mg)
*** Matrix / substrate interference possible.

< less than sign, signifies none-detected below the empirical value based upon sub-sampled mass. This is often below the Reporting Limit (see above).

Church

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ASBESTOS TESTING LABORATORIES

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CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/23/2022
Report No.: 672752 - Lead Paint
Project: Orwell Church
Project No.: PE22400

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.: 7526142 **Description:** White Paint **Result (% by Weight):** 0.85
Client No.: CHP-01 **Location:** Exterior **Result (ppm):** 8500
Comments:

Lab No.: 7526143 **Description:** Black **Result (% by Weight):** 0.067
Client No.: CHP-02 **Location:** Door Trim **Result (ppm):** 670
Comments:

Lab No.: 7526144 **Description:** Cream Color Paint **Result (% by Weight):** <0.0079
Client No.: CHP-03 **Location:** Interior **Result (ppm):** <79
Comments:

Lab No.: 7526145 **Description:** Brown Paint **Result (% by Weight):** 1.5
Client No.: CHP-04 **Location:** Interior **Result (ppm):** 15000
Comments: ***

Lab No.: 7526146 **Description:** Grey Paint **Result (% by Weight):** 9.9
Client No.: CHP-05 **Location:** Bench **Result (ppm):** 99000
Comments:

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/16/2022
Date Analyzed: 11/23/2022
Signature:
Analyst: Chad Shaffer

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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Telephone: 856-231-9449
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CERTIFICATE OF ANALYSIS

Client:	ALL-TECH Environmental Services Limited	Report Date:	11/23/2022
	20 Duke St.,Suite 109	Report No.:	672752 - Lead Paint
	Bedford NS B4A 2Z5	Project:	Orwell Church
		Project No.:	PE22400
Client:	ALL131		

Appendix to Analytical Report:

Customer Contact:
Method: ASTM D3335-85a, US EPA SW846 3050B:7000B

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- NYSDOH-ELAP No. 11021

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CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/23/2022
Report No.: 672752 - Lead Paint
Project: Orwell Church
Project No.: PE22400

* Insufficient sample provided to perform QC reanalysis (<200 mg)
** Not enough sample provided to analyze (<50 mg)
*** Matrix / substrate interference possible.

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School House

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CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/23/2022
Report No.: 672748 - Lead Paint
Project: Orwell School
Project No.: PE22400

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.: 7526130 **Description:** White Paint **Result (% by Weight):** <0.0076
Client No.: SCP-01 **Location:** Exterior **Result (ppm):** <76
Comments:

Lab No.: 7526131 **Description:** Red Paint **Result (% by Weight):** <0.0070
Client No.: SCP-02 **Location:** Exterior **Result (ppm):** <70
Comments:

Lab No.: 7526132 **Description:** Grey **Result (% by Weight):** 1.3
Client No.: SCP-03 **Location:** Door Trims **Result (ppm):** 13000
Comments: ***

Lab No.: 7526133 **Description:** Cream Color **Result (% by Weight):** <0.0075
Client No.: SCP-04 **Location:** Wall Paint **Result (ppm):** <75
Comments:

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/16/2022
Date Analyzed: 11/23/2022
Signature:
Analyst: Chad Shaffer

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/23/2022
Report No.: 672748 - Lead Paint
Project: Orwell School
Project No.: PE22400

Appendix to Analytical Report:

Customer Contact:
Method: ASTM D3335-85a, US EPA SW846 3050B:7000B

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CERTIFICATE OF ANALYSIS

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	20 Duke St.,Suite 109	Report No.:	672748 - Lead Paint
	Bedford NS B4A 2Z5	Project:	Orwell School
		Project No.:	PE22400
Client:	ALL131		

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Livestock Barn #1

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CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/23/2022
Report No.: 672763 - Lead Paint
Project: Orwell Barn 1
Project No.: PE22400

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.: 7526169 **Description:** Red Paint **Result (% by Weight):** 0.015
Client No.: BAP1-01 **Location:** Exterior **Result (ppm):** 150
Comments:

Lab No.: 7526170 **Description:** White Paint **Result (% by Weight):** 0.049
Client No.: BAP1-02 **Location:** Exterior **Result (ppm):** 490
Comments: ***

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/16/2022
Date Analyzed: 11/23/2022
Signature: Chad Shaffer
Analyst: Chad Shaffer

Approved By: Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

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	20 Duke St.,Suite 109	Report No.:	672763 - Lead Paint
	Bedford NS B4A 2Z5	Project:	Orwell Barn 1
		Project No.:	PE22400
Client:	ALL131		

Appendix to Analytical Report:

Customer Contact:
Method: ASTM D3335-85a, US EPA SW846 3050B:7000B

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CERTIFICATE OF ANALYSIS

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	20 Duke St.,Suite 109	Report No.:	672763 - Lead Paint
	Bedford NS B4A 2Z5	Project:	Orwell Barn 1
		Project No.:	PE22400
Client:	ALL131		

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Livestock Barn #2

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CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/23/2022
Report No.: 672762 - Lead Paint
Project: Orwell Barn 2
Project No.: PE22400

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.: 7526167 **Description:** Red Paint **Result (% by Weight):** 0.077
Client No.: BAP2-01 **Location:** Exterior **Result (ppm):** 770
Comments: ***

Lab No.: 7526168 **Description:** White Paint **Result (% by Weight):** <0.0057
Client No.: BAP2-02 **Location:** Exterior **Result (ppm):** <57
Comments: ***

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/16/2022
Date Analyzed: 11/23/2022
Signature:
Analyst: Chad Shaffer

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

9000 Commerce Parkway Suite B
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	Bedford NS B4A 2Z5	Project:	Orwell Barn 2
		Project No.:	PE22400
Client:	ALL131		

Appendix to Analytical Report:

Customer Contact:
Method: ASTM D3335-85a, US EPA SW846 3050B:7000B

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CERTIFICATE OF ANALYSIS

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	20 Duke St.,Suite 109	Report No.:	672762 - Lead Paint
	Bedford NS B4A 2Z5	Project:	Orwell Barn 2
		Project No.:	PE22400
Client:	ALL131		

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Community Hall

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Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/23/2022
Report No.: 672751 - Lead Paint
Project: Orwell Common House
Project No.: PE22400

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.: 7526136 **Description:** Grey Paint **Result (% by Weight):** <0.0067
Client No.: KHP-01 **Location:** Exterior **Result (ppm):** <67
Comments: ***

Lab No.: 7526137 **Description:** White Paint **Result (% by Weight):** 0.027
Client No.: KHP-02 **Location:** Exterior **Result (ppm):** 270
Comments:

Lab No.: 7526138 **Description:** Lt Brown Paint **Result (% by Weight):** 2.6
Client No.: KHP-03 **Location:** Window Frame **Result (ppm):** 26000
Comments:

Lab No.: 7526139 **Description:** Dk Brown **Result (% by Weight):** 0.50
Client No.: KHP-04 **Location:** Door Frame **Result (ppm):** 5000
Comments:

Lab No.: 7526140 **Description:** White Paint **Result (% by Weight):** <0.0064
Client No.: KHP-05 **Location:** Drywall **Result (ppm):** <64
Comments:

Lab No.: 7526141 **Description:** Yellow Paint **Result (% by Weight):** <0.0066
Client No.: KHP-06 **Location:** Basement Wall **Result (ppm):** <66
Comments:

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/16/2022
Date Analyzed: 11/23/2022
Signature:
Analyst: Chad Shaffer

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

9000 Commerce Parkway Suite B
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CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/23/2022
Report No.: 672751 - Lead Paint
Project: Orwell Community Hall
Project No.: PE22400

Appendix to Analytical Report:

Customer Contact:
Method: ASTM D3335-85a, US EPA SW846 3050B:7000B

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iATL Account Representative: Semih Kocahasan
Sample Login Notes: See Batch Sheet Attached
Sample Matrix: Paint
Exceptions Noted: See Following Pages

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Information Pertinent to this Report:

Analysis by ASTM D3335-85a by AAS

Certification:
- National Lead Laboratory Program (NLLAP): AIHA-LAP, LLC No. 100188
- NYSDOH-ELAP No. 11021

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9000 Commerce Parkway Suite B
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Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/23/2022
Report No.: 672751 - Lead Paint
Project: Orwell Community Hall
Project No.: PE22400

* Insufficient sample provided to perform QC reanalysis (<200 mg)
** Not enough sample provided to analyze (<50 mg)
*** Matrix / substrate interference possible.

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Carriage House

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CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/23/2022
Report No.: 672758 - Lead Paint
Project: Orwell Carriage House
Project No.: PE22400

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.: 7526158 **Description:** White Paint **Result (% by Weight):** 0.012
Client No.: CHP-01 **Location:** **Result (ppm):** 120
Comments:

Lab No.: 7526159 **Description:** Red Paint **Result (% by Weight):** 0.026
Client No.: CHP-02 **Location:** **Result (ppm):** 260
Comments:

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/16/2022
Date Analyzed: 11/23/2022
Signature:
Analyst: Chad Shaffer

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/23/2022
Report No.: 672758 - Lead Paint
Project: Orwell Carriage House
Project No.: PE22400

Appendix to Analytical Report:

Customer Contact:
Method: ASTM D3335-85a, US EPA SW846 3050B:7000B

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- NYSDOH-ELAP No. 11021

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CERTIFICATE OF ANALYSIS

Client:	ALL-TECH Environmental Services Limited	Report Date:	11/23/2022
	20 Duke St.,Suite 109	Report No.:	672758 - Lead Paint
	Bedford NS B4A 2Z5	Project:	Orwell Carriage House
		Project No.:	PE22400
Client:	ALL131		

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*** Matrix / substrate interference possible.

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Poultry Buildings

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CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/23/2022
Report No.: 672757 - Lead Paint
Project: Orwell Poultry Building
Project No.: PE22400

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.: 7526156 **Description:** Red Trim Paint **Result (% by Weight):** <0.0070
Client No.: PBP-01 **Location:** Exterior **Result (ppm):** <70
Comments:

Lab No.: 7526157 **Description:** Cream Color **Result (% by Weight):** <0.0083
Client No.: PBP-02 **Location:** Exterior Shingle **Result (ppm):** <83
Comments:

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/16/2022
Date Analyzed: 11/23/2022
Signature:
Analyst: Chad Shaffer

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

Client:	ALL-TECH Environmental Services Limited	Report Date:	11/23/2022
	20 Duke St.,Suite 109	Report No.:	672757 - Lead Paint
	Bedford NS B4A 2Z5	Project:	Orwell Poultry Building
		Project No.:	PE22400
Client:	ALL131		

Appendix to Analytical Report:

Customer Contact:
Method: ASTM D3335-85a, US EPA SW846 3050B:7000B

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Certification:
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- NYSDOH-ELAP No. 11021

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	20 Duke St.,Suite 109	Report No.:	672757 - Lead Paint
	Bedford NS B4A 2Z5	Project:	Orwell Poultry Building
		Project No.:	PE22400
Client:	ALL131		

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Pump House

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CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/23/2022
Report No.: 672760 - Lead Paint
Project: Orwell Pump House
Project No.: PE22400

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.: 7526162 **Description:** Beige Paint **Result (% by Weight):** 0.031
Client No.: PHP-01 **Location:** **Result (ppm):** 310
Comments:

Lab No.: 7526163 **Description:** Red Paint **Result (% by Weight):** 0.029
Client No.: PHP-02 **Location:** **Result (ppm):** 290
Comments:

Lab No.: 7526164 **Description:** White Interior Paint **Result (% by Weight):** <0.0078
Client No.: PHP-03 **Location:** **Result (ppm):** <78
Comments: ***

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/16/2022
Date Analyzed: 11/23/2022
Signature:
Analyst: Chad Shaffer

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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	20 Duke St.,Suite 109	Report No.:	672760 - Lead Paint
	Bedford NS B4A 2Z5	Project:	Orwell Pump House
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Client:	ALL131		

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CERTIFICATE OF ANALYSIS

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	20 Duke St.,Suite 109	Report No.:	672760 - Lead Paint
	Bedford NS B4A 2Z5	Project:	Orwell Pump House
		Project No.:	PE22400
Client:	ALL131		

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Outdoor Washrooms

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CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/23/2022
Report No.: 672766 - Lead Paint
Project: Orwell Washroom
Project No.: PE22400

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.: 7526183 **Description:** White Paint **Result (% by Weight):** 0.28
Client No.: WRP-01 **Location:** Exterior **Result (ppm):** 2800
Comments:

Lab No.: 7526184 **Description:** Yellow Paint **Result (% by Weight):** 0.0069
Client No.: WRP-02 **Location:** Door **Result (ppm):** 69
Comments:

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/16/2022
Date Analyzed: 11/23/2022
Signature:
Analyst: Chad Shaffer

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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	20 Duke St.,Suite 109	Report No.:	672766 - Lead Paint
	Bedford NS B4A 2Z5	Project:	Orwell Washroom
		Project No.:	PE22400
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	20 Duke St.,Suite 109	Report No.:	672766 - Lead Paint
	Bedford NS B4A 2Z5	Project:	Orwell Washroom
		Project No.:	PE22400
Client:	ALL131		

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Waye Building

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CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/23/2022
Report No.: 672756 - Lead Paint
Project: Orwell Waye Building
Project No.: PE22400

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.: 7526154 **Description:** Red Paint **Result (% by Weight):** 7.9
Client No.: WBP-01 **Location:** **Result (ppm):** 79000
Comments:

Lab No.: 7526155 **Description:** White Paint **Result (% by Weight):** 0.19
Client No.: WBP-02 **Location:** **Result (ppm):** 1900
Comments:

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/16/2022
Date Analyzed: 11/23/2022
Signature: Chad Shaffer
Analyst: Chad Shaffer

Approved By: Frank E. Ehrenfeld, III
Laboratory Director

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
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CERTIFICATE OF ANALYSIS

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	20 Duke St.,Suite 109	Report No.:	672756 - Lead Paint
	Bedford NS B4A 2Z5	Project:	Orwell Waye Building
		Project No.:	PE22400
Client:	ALL131		

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Information Pertinent to this Report:

Analysis by ASTM D3335-85a by AAS

Certification:
- National Lead Laboratory Program (NLLAP): AIHA-LAP, LLC No. 100188
- NYSDOH-ELAP No. 11021

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Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client:	ALL-TECH Environmental Services Limited	Report Date:	11/23/2022
	20 Duke St.,Suite 109	Report No.:	672756 - Lead Paint
	Bedford NS B4A 2Z5	Project:	Orwell Waye Building
		Project No.:	PE22400
Client:	ALL131		

* Insufficient sample provided to perform QC reanalysis (<200 mg)
** Not enough sample provided to analyze (<50 mg)
*** Matrix / substrate interference possible.

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Cement Block Building

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CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/23/2022
Report No.: 672753 - Lead Paint
Project: Orwell Cement Building
Project No.: PE22400

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.: 7526147 **Description:** Green Paint **Result (% by Weight):** <0.0069
Client No.: CBP-01 **Location:** Exterior **Result (ppm):** <69
Comments:

Lab No.: 7526148 **Description:** Cream Paint **Result (% by Weight):** <0.0063
Client No.: CBP-02 **Location:** Bldg Exterior **Result (ppm):** <63
Comments:

Lab No.: 7526149 **Description:** Green Paint **Result (% by Weight):** <0.0056
Client No.: CBP-03 **Location:** Interior Wall **Result (ppm):** <56
Comments:

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/16/2022
Date Analyzed: 11/23/2022
Signature:
Analyst: Chad Shaffer

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
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CERTIFICATE OF ANALYSIS

Client:	ALL-TECH Environmental Services Limited	Report Date:	11/23/2022
	20 Duke St.,Suite 109	Report No.:	672753 - Lead Paint
	Bedford NS B4A 2Z5	Project:	Orwell Cement Building
		Project No.:	PE22400
Client:	ALL131		

Appendix to Analytical Report:

Customer Contact:
Method: ASTM D3335-85a, US EPA SW846 3050B:7000B

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iATL Account Representative: Semih Kocahasan
Sample Login Notes: See Batch Sheet Attached
Sample Matrix: Paint
Exceptions Noted: See Following Pages

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- NYSDOH-ELAP No. 11021

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CERTIFICATE OF ANALYSIS

Client:	ALL-TECH Environmental Services Limited	Report Date:	11/23/2022
	20 Duke St.,Suite 109	Report No.:	672753 - Lead Paint
	Bedford NS B4A 2Z5	Project:	Orwell Cement Building
		Project No.:	PE22400
Client:	ALL131		

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Taylor House

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CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/23/2022
Report No.: 672776 - Lead Paint
Project: Orwell Taylor House
Project No.: PE22400

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.: 7526245 **Description:** White Paint **Result (% by Weight):** 0.55
Client No.: THP-01 **Location:** Exterior **Result (ppm):** 5500
Comments:

Lab No.: 7526246 **Description:** Blue Paint **Result (% by Weight):** 3.7
Client No.: THP-02 **Location:** Door **Result (ppm):** 37000
Comments: ***

Lab No.: 7526247 **Description:** White Paint **Result (% by Weight):** 0.25
Client No.: THP-03 **Location:** Ceiling **Result (ppm):** 2500
Comments:

Lab No.: 7526248 **Description:** Beige Floor Paint **Result (% by Weight):** <0.0077
Client No.: THP-04 **Location:** Kitchen **Result (ppm):** <77
Comments: ***

Lab No.: 7526249 **Description:** Paint **Result (% by Weight):** 0.084
Client No.: THP-05 **Location:** Stairs **Result (ppm):** 840
Comments:

Lab No.: 7526250 **Description:** White Paint **Result (% by Weight):** <0.0081
Client No.: THP-06 **Location:** Door Trims **Result (ppm):** <81
Comments:

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/16/2022
Date Analyzed: 11/23/2022
Signature:
Analyst: Chad Shaffer

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

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	20 Duke St.,Suite 109	Report No.:	672776 - Lead Paint
	Bedford NS B4A 2Z5	Project:	Orwell Taylor House
		Project No.:	PE22400
Client:	ALL131		

Appendix to Analytical Report:

Customer Contact:
Method: ASTM D3335-85a, US EPA SW846 3050B:7000B

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CERTIFICATE OF ANALYSIS

Client:	ALL-TECH Environmental Services Limited	Report Date:	11/23/2022
	20 Duke St.,Suite 109	Report No.:	672776 - Lead Paint
	Bedford NS B4A 2Z5	Project:	Orwell Taylor House
		Project No.:	PE22400
Client:	ALL131		

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CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/28/2022
Report No.: 672996 - Lead Paint
Project: Orwell Taylor House
Project No.: PE22400

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.: 7528007
Client No.: THP-07

Description: White Paint
Location: Cupboard

Result (% by Weight): 0.42
Result (ppm): 4200
Comments:

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/18/2022
Date Analyzed: 11/28/2022
Signature:
Analyst: Chad Shaffer

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

Dated : 11/28/2022 2:38:13

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Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client:	ALL-TECH Environmental Services Limited	Report Date:	11/28/2022
	20 Duke St.,Suite 109	Report No.:	672996 - Lead Paint
	Bedford NS B4A 2Z5	Project:	Orwell Taylor House
		Project No.:	PE22400
Client:	ALL131		

Appendix to Analytical Report:

Customer Contact:
Method: ASTM D3335-85a, US EPA SW846 3050B:7000B

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CERTIFICATE OF ANALYSIS

Client:	ALL-TECH Environmental Services Limited	Report Date:	11/28/2022
	20 Duke St.,Suite 109	Report No.:	672996 - Lead Paint
	Bedford NS B4A 2Z5	Project:	Orwell Taylor House
		Project No.:	PE22400
Client:	ALL131		

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Storage Barn

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CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/23/2022
Report No.: 672749 - Lead Paint
Project: Orwell Storage Barn
Project No.: PE22400

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.: 7526134
Client No.: SBP-01

Description: Red Paint
Location: Exterior

Result (% by Weight): <0.0092
Result (ppm): <92
Comments:

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/16/2022
Date Analyzed: 11/23/2022
Signature:
Analyst: Chad Shaffer

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

9000 Commerce Parkway Suite B
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CERTIFICATE OF ANALYSIS

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	20 Duke St.,Suite 109	Report No.:	672749 - Lead Paint
	Bedford NS B4A 2Z5	Project:	Orwell Storage Barn
		Project No.:	PE22400
Client:	ALL131		

Appendix to Analytical Report:

Customer Contact:
Method: ASTM D3335-85a, US EPA SW846 3050B:7000B

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CERTIFICATE OF ANALYSIS

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20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/23/2022
Report No.: 672749 - Lead Paint
Project: Orwell Storage Barn
Project No.: PE22400

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Workshop Building

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CERTIFICATE OF ANALYSIS

Client: ALL-TECH Environmental Services Limited
20 Duke St.,Suite 109
Bedford NS B4A 2Z5

Client: ALL131

Report Date: 11/23/2022
Report No.: 672746 - Lead Paint
Project: Orwell Workshop
Project No.: PE22400

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.: 7526127 **Description:** Green Paint **Result (% by Weight):** <0.0070
Client No.: WBP-01 **Location:** **Result (ppm):** <70
Comments:

Lab No.: 7526128 **Description:** White Paint **Result (% by Weight):** 0.011
Client No.: WBP-02 **Location:** Exterior **Result (ppm):** 110
Comments:

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/16/2022
Date Analyzed: 11/23/2022
Signature:
Analyst: Chad Shaffer

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client:	ALL-TECH Environmental Services Limited	Report Date:	11/23/2022
	20 Duke St.,Suite 109	Report No.:	672746 - Lead Paint
	Bedford NS B4A 2Z5	Project:	Orwell Workshop
		Project No.:	PE22400
Client:	ALL131		

Appendix to Analytical Report:

Customer Contact:
Method: ASTM D3335-85a, US EPA SW846 3050B:7000B

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This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

Information Pertinent to this Report:

Analysis by ASTM D3335-85a by AAS

Certification:
- National Lead Laboratory Program (NLLAP): AIHA-LAP, LLC No. 100188
- NYSDOH-ELAP No. 11021

This report meets the standards set forth in the EPA's National Lead Laboratory Accreditation Program (NLLAP) through the Laboratory Quality System Requirements (LQSR) Revision 3.0 November 5, 2007. All Environmental Lead Proficiency Analytical Testing (ELPAT) is through the AIHA-PAT established program.

Regulatory limit is 0.5% lead by weight (EPA/HUD guidelines). Recommend multiple sampling for all samples less than regulatory limit for confirmation.
All results are based on the samples as received at the lab. iATL assumes that appropriate sampling methods have been used and that the data upon which these results are based have been accurately supplied by the client.
Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Apendix B.
Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies.
LSD=0.2 ppm MDL=0.006% by weight. RL= 0.010% by weight (based upon 100 mg sampled).

Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a complete list with highlighted disclaimers pertinent to this project. For a full explanation of these and other disclaimers, please inquire at **customerservice@iatl.com.**

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client:	ALL-TECH Environmental Services Limited	Report Date:	11/23/2022
	20 Duke St.,Suite 109	Report No.:	672746 - Lead Paint
	Bedford NS B4A 2Z5	Project:	Orwell Workshop
		Project No.:	PE22400
Client:	ALL131		

* Insufficient sample provided to perform QC reanalysis (<200 mg)
** Not enough sample provided to analyze (<50 mg)
*** Matrix / substrate interference possible.

< less than sign, signifies none-detected below the empirical value based upon sub-sampled mass. This is often below the Reporting Limit (see above).

APPENDIX III

Summary of ACM conditions report

Orwell House

Orwell Corner Historic Village - Orwell House - Summary of ACM Conditions Report (2022)

Room No.	Description	Sample No.	Material description	Asbestos Type & Content (%)	Estimated area	Friable (F) Non-friable (NF)	Access	Condition	Action Code (refer to legend)	Photo
NA	Basement	OH-02 OH-06	Mechanical tank insulation	Chrysotile 30%	3.7 m3	F	B	fair	**3**	

LEGEND

Sample Number Identifiers	
TH-##	actual sample number
VTH-##	visually identified same as this sample number

Units	
EA	Each
m	meters
m2	square metres
m3	cubic metres
PACM	presumed asbestos containing material

ASSSESSMENT CODES

ACCESS		*CONDITION*	
A	Accessible to all building occupants	**GOOD**	ACM is completely covered and/or exhibits no evidence of damage or deterioration
B	Accessible to maintenance and operations staff without a ladder	**FAIR**	Minor penetrating damage to ACM (cuts, tears, nicks, deterioration, or delamination).
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas	**POOR**	ACM is damaged, deteriorated or delaminated
D	Not normally accessible		

ACTION CODES

1	Immediate Clean-up of Debris that is likely to be disturbed.	**4**	ACM repair
2	ACM Removal required for compliance.	**5**	Continued management and surveillance.
3	Proactive ACM Removal.		

Taylor House

Orwell Corner Historic Village - Taylor House - Summary of ACM Conditions Report (2022)

Room No.	Description	Sample No.	Material description	Asbestos Type & Content (%)	Estimated area	Friable (F) Non-friable (NF)	Access	Condition	Action Code (refer to legend)	Photo
NA	Dining Room wall	TH-02	Drywall joint compound	Chrysotile 1.4%	--	F	A	good	**5**	
NA	Kitchen ceiling	TH-06	Drywall joint compound	Chrysotile 1.2%	--	F	A	good	**5**	

***** All other drywall joint compound areas within the building treated as asbestos containing or have additional testing completed in those areas at the time of planned work*****

LEGEND

Sample Number Identifiers	
TH-##	actual sample number
VTH-##	visually identified same as this sample number

Units	
EA	Each
m	meters
m2	square metres
m3	cubic metres
PACM	presumed asbestos containing material

ASSSESSMENT CODES

ACCESS		***CONDITION***	
A	Accessible to all building occupants	**GOOD**	ACM is completely covered and/or exhibits no evidence of damage or deterioration
B	Accessible to maintenance and operations staff without a ladder	**FAIR**	Minor penetrating damage to ACM (cuts, tears, nicks, deterioration, or delamination).
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas	**POOR**	ACM is damaged, deteriorated or delaminated
D	Not normally accessible		

ACTION CODES

1	Immediate Clean-up of Debris that is likely to be disturbed.	**4**	ACM repair
2	ACM Removal required for compliance.	**5**	Continued management and surveillance.
3	Proactive ACM Removal.		

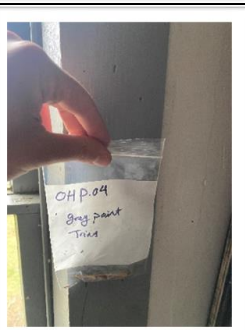
APPENDIX IV

Summary of other Hazardous Materials report

Orwell House

Orwell Homestead House - Summary of other Hazardous Materials Report (2022)

Lead Paint

Room No.	Location	Sample No.	Paint colour / substrate	Lead Content (%)	Comments	Photo
NA	Various locations	OHP-02	Beige colour paint / Wood door and trim	**25**	All like door and trim paint to be treated as lead based paint	
NA	Various locations	OHP-04	Grey paint / Wood trim	**18**	All like trim paint to be treated as lead based paint	
NA	Various locations	OHP-05	Light blue paint / Door	**0.13**	All like door paint to be treated as lead based paint	

Silica

Room No.	Location	Sample No.	Material	Comments	Photo

NA	Exterior; basement; interior plaster walls	NA	Poured or pre-cast concrete (basement / footings) Masonry and mortar Plaster		

Mercury					
Room No.	**Location**	**Sample No.**	**Material**	**Comments**	**Photo**
NA		NA	Mercury filled thermostats	all like thermostats considered mercury filled.	

Shingle Mill

Shingle Mill - Summary of other Hazardous Materials Report (2022)

Lead Paint

Room No.	Location	Sample No.	Paint colour / substrate	Lead Content (%)	Comments	Photo
NA	Exterior	SMP-02	Red paint / Exterior wood	**0.065**	All exterior siding paint to be treated as lead based paint	

Forge

Forge - Summary of other Hazardous Materials Report (2022)

Lead Paint

Room No.	Location	Sample No.	Paint colour / substrate	Lead Content (%)	Comments	Photo
NA	Exterior	BSP-02	Red paint / Exterior wood doors and trim	**0.083**	All exterior siding paint to be treated as lead based paint	

Church

Orwell Church - Summary of other Hazardous Materials Report (2022)

Lead Paint

Room No.	Location	Sample No.	Paint colour / substrate	Lead Content (%)	Comments	Photo
NA	Exterior	CHP-01	White paint / Exterior wood siding	**0.85**	All exterior siding paint to be treated as lead based paint	
NA	Exterior	CHP-02	Black paint / Exterior wood door trim	**0.067**	All like exterior trim paint to be treated as lead based paint	
NA	Interior	CHP-04	Brown paint / Wall surface	**1.5**	All like brown painted wall surfaces to be treated as lead based paint	

NA	Interior	CHP-05	Grey paint / Wood bench	**9.9**	All grey painted benches (pews) to be treated as lead based paint	

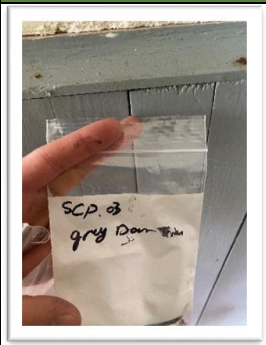
Silica

Room No.	Location	Sample No.	Material	Comments	Photo
NA	Exterior; basement; interior plaster walls	NA	Poured or pre-cast concrete (basement / footings) Masonry and mortar Plaster		

School House

Orwell School House - Summary of other Hazardous Materials Report (2022)

Lead Paint

Room No.	Location	Sample No.	Paint colour / substrate	Lead Content (%)	Comments	Photo
NA	Interior	SCP-01	Grey paint / Interior wood trim	**1.3**	All like interior wood trim paint to be treated as lead based paint	

Silica

Room No.	Location	Sample No.	Material	Comments	Photo
NA	Interior walls	NA	Plaster		

Livestock Barn #2

Livestock Barn #2 - Summary of other Hazardous Materials Report (2022)

Room No.	Location	Sample No.	Paint colour / substrate	Lead Content (%)	Comments	Photo
NA	Exterior	BAP2-01	Red paint / Exterior wood	**0.077**	All like exterior siding paint to be treated as lead based paint	

Community Hall

Community Hall - Summary of other Hazardous Materials Report (2022)

Lead Paint

Room No.	Location	Sample No.	Paint colour / substrate	Lead Content (%)	Comments	Photo
NA	Various locations	KHP-03	Brown colour paint / Wood window trim	**2.6**	All like door and trim paint to be treated as lead based paint	
NA	Various locations	KHP-04	Dark brown paint / Door frame	**0.5**	All like trim paint to be treated as lead based paint	

Silica

Room No.	Location	Sample No.	Material	Comments	Photo
NA	Exterior; basement	NA	Poured or pre-cast concrete (basement / footings) Masonry and mortar		

Mercury

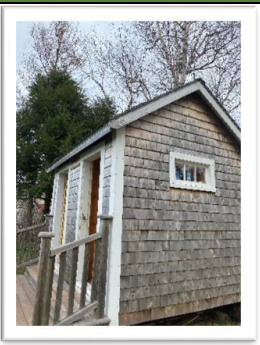
Room No.	Location	Sample No.	Material	Comments	Photo

NA		NA	Mercury filled thermostats	all like thermostats considered mercury filled.	

Outdoor Washrooms

Outdoor Washrooms - Summary of other Hazardous Materials Report (2022)

Lead Paint

Room No.	Location	Sample No.	Paint colour / substrate	Lead Content (%)	Comments	Photo
NA	Exterior	WRP-01	White paint / Exterior wood trim	**0.28**	All exterior wood trim paint to be treated as lead based paint	

Waye Building

Waye Building - Summary of other Hazardous Materials Report (2022)

Lead Paint

Room No.	Location	Sample No.	Paint colour / substrate	Lead Content (%)	Comments	Photo
NA	Exterior	WBP-01	Red paint / Exterior wood	**7.9**	All exterior trim paint to be treated as lead based paint	
NA	Exterior	WBP-02	White paint / Exterior wood siding	**0.19**	All exterior siding paint to be treated as lead based paint	

Cement Block Building

Cement Block Building - Summary of other Hazardous Materials Report (2022)

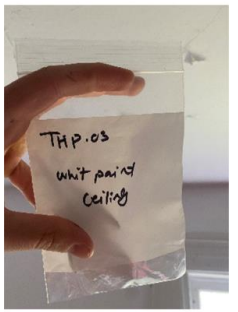
Silica

Room No.	Location	Sample No.	Material	Comments	Photo
NA	Walls; floor	NA	Concrete footing and block walls		

Taylor House

Taylor House - Summary of other Hazardous Materials Report (2022)

Lead Paint

Room No.	Location	Sample No.	Paint colour / substrate	Lead Content (%)	Comments	Photo
NA	Exterior	THP-01	White paint / Exterior wood	**0.55**	All exterior white siding paint to be treated as lead based paint	
NA	Exterior	THP-02	Blue paint / Exterior wood door / trim	**3.7**	All like blue door / trim paint to be treated as lead based paint	
NA	Interior	THP-03	White paint / Ceiling	**0.25**	All white painted ceiling surfaces to be treated as lead based paint	

NA	Interior	THP-05	Brown paint / Wood stairs	**0.84**	All brown painted stair surfaces to be treated as lead based paint	
NA		THP-07	White paint / Cupboards	**0.42**	All white painted cupboard surfaces to be treated as lead based paint