Ontario Environmental & Safety Network Ltd.

Industrial Hygiene and Environmental Consulting

1783 Highway 20, RR#2
Allanburg, Ontario L0S 1A0
Phone: 1-888-271-2111

DESIGNATED SUBSTANCES AND HAZARDOUS MATERIALS SURVEY

6248 8th Line
Egbert, Ontario

SUBMITTED TO: Environment and Climate Change Canada

ISSUED: March 27, 2018

OESN PROJECT #: 00603.003

***

PROJECT SUMMARY SHEET

Report Title:	Designated Substances and Hazardous Materials Survey
Project Location:	6248 8th Line, Egbert, ON
Report Submission Date:	March 27, 2018
Submitted to:	Environment and Climate Change Canada
Authored by:	Ontario Environmental & Safety Network Ltd. (OESN)
OESN Field Consultants:	Kris Douglas
OESN Project Manager:	Shaun Husband
Laboratories:	**Paracel Laboratories Ltd.** Ottawa, Ontario Canadian Association for Laboratory Accreditation Inc. (CALA) – Membership number 1262 **CEI Labs** Cary, NC NVLAP Lab Code 101768-1
Analysis Methods:	EPA 600 Method (PLM) (Asbestos) EPA 6020 Digestion-ICP-MS (Metals) EPA 7471B - CVAA, digestion (Mercury)
Chemical Agent(s) Considered:	Asbestos, Arsenic, Lead, Mercury, Silica
Other Hazardous Agents Considered:	Polychlorinated biphenyls Biological Contaminants Ozone Depleting Substances

Executive Summary

On Friday, March 16, 2018 the building located at 6248 8th Line in Egbert, ON was surveyed and samples collected to evaluate for designated substances and other potential hazards in construction building materials.

The survey included inspection of the interior and exterior building materials, collection and testing of bulk material samples suspected of containing designated substances.

Materials suspected of containing asbestos were confirmed to be **non-asbestos** through testing. Testing included vinyl floor tile, gypsum board and compound, ceiling tile, base cove and roofing materials.

Lead content was confirmed in grey paint used on doors and door frames.

Mercury-containing fluorescent tubes are present. A thermostat potentially containing mercury was observed.

Silica is assumed to be present within any concrete materials.

Lighting ballasts have the potential to contain PCBs.

Small quantities of mould growth were observed on lay-in acoustic ceiling tile.

The building's owner or constructor will need to inform prospective contractors of the existing hazards by including this report with bid documentation.

Recommendations provided are based on provincial occupational health & safety laws and requirements.

About the author

This assessment was prepared by Ontario Environmental & Safety Network Ltd. (OESN).

OESN has been in business providing industrial hygiene, hazardous material assessment and occupational health and safety services since 1996.

Site work and reporting was conducted by Kris Douglas.

The project was managed by Shaun Husband and reviewed by Kristi Beck.

All work conducted was done to the best of our abilities and based on our knowledge, experience and the requirements of international and local legislation and industry best practice.

Please contact our office at 1-888-271-2111 with respect to questions or discussion regarding the content of this report.

Regards,

Kris Douglas
Field Consultant
kdouglas@oesn.net

Reviewed by,

Kristi Beck MHSc, CIH
Occupational Hygienist
kbeck@oesn.net

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1.0 INTRODUCTION

1.1 OVERVIEW

On March 16, 2018, an assessment of the Clean Air Building located at 6248 8th Line, Egbert, Ontario was conducted. The purpose of the assessment was to identify select designated substances and hazardous materials through visual observation, bulk sampling and testing. The assessment was conducted to ensure Environment and Climate Change Canada's due diligence for any future renovations.

1.2 BACKGROUND

The Occupational Health and Safety Act (The Act) for the Province of Ontario defines designated substances as biological, chemical or physical agents or a combination thereof to which the exposure of a worker is prohibited, regulated, restricted, limited or controlled.

Section 30(1) of The Act prescribes duties for owners to determine if these designated substances are present at a site prior to the commencement of a construction project where disturbance is likely.

Industry interprets this requirement to include the provision of a scope of work that assesses all structural and finishing materials (including equipment) that were used in the construction of a building.

1.3 SCOPE OF WORK

The objectives of this assessment include:

1. Identify designated substances or hazardous materials present within the structure; and
2. Provide a report that allows the contractor to identify the hazards present and their location(s).

To meet these objectives, the following scope of work was developed and carried out:

1. Inspection of interior structural and finishing materials of the building and the exterior of the building.
2. Collection of bulk samples of materials suspected to contain designated substances and analysis at an accredited laboratory.
3. Quantify and assess the condition of building materials suspected to contain asbestos minerals.
4. Chain of custody control for all samples submitted.
5. Documentation of materials with known hazardous content such as silica-containing concrete.
6. Documentation of observations on site forms, a collection of photographs of materials sampled and development of building plan drawings showing asbestos bulk sampling locations.

Excluded from the scope of work were inspection and testing for acrylonitrile, benzene, coke oven emissions, ethylene oxide, isocyanates and vinyl chloride because these substances are generally associated with industrial sites and processes.

1.4 ASSESSMENT METHODOLOGY

The assessment is carried out systematically to include all accessible areas. Each room is assigned an identification number that, if provided, will coordinate with client identification number and name. Observations for suspect materials are recorded on a form designed specifically to meet the project requirements and obligations.

2.0 SURVEY FINDINGS

2.1 BUILDING DESCRIPTION

The foundation and structure are made of concrete and wood trussing. The layout of the building consists of two (2) lab rooms, storage room, electrical room and equipment room.

Types of building finishes observed at the time of inspection and considered for the report include:

Floor: The primary flooring observed was 12” vinyl floor tiles with various patterning.

Walls: Wall materials were composed of gypsum board.

Ceilings: Ceilings are 2’x4’ lay-in acoustic ceiling (LAC) tiles with the exception of 1005 (electrical room) which has bare ceilings.

Thermal: Rigid foam board insulation was observed above false ceilings at the top of walls.

Manufactured: Manufactured materials observed were base coves in beige and black.

Roof: Roof was composed of PVC, plywood, rigid insulation and vapour barrier.

Paint: Two (2) different coloured paint finishes were collected and tested for arsenic, lead and mercury content.

2.2 OBSERVATION FINDINGS

2.2.1 ASBESTOS

Materials potentially containing asbestos minerals were sampled and submitted to a laboratory for testing. Building materials considered for testing include: vinyl floor tile, gypsum board with

joint compound, ceiling tile, base cove and roofing. Asbestos was not detected in these materials. Refer to Section 3.1 for analytical results.

2.2.2 LEAD

Two paint coatings were sampled and submitted to a laboratory for testing. **Lead is present** in one paint finish. Refer to Section 3.2 for analytical results.

Lead is expected to be present at the soldered joints and seams of piping. Other materials suspected of containing lead were not observed during the site visit.

2.2.3 MERCURY

Two paint coatings were sampled and submitted to a laboratory for testing. **Mercury is not present** in the paint finishes sampled. Refer to Section 3.2 for analytical results.

Fluorescent light tubes containing small quantities of mercury are present. The building contains fluorescent light tubes in several areas. One (1) thermostat was observed in the front entrance (vestibule) that may be mercury-containing.

2.2.4 ARSENIC

Two paint coatings were sampled and submitted to a laboratory for testing. Arsenic is not present in the paint finishes sampled. Refer to Section 3.2 for analytical results.

Other materials suspected of containing arsenic were not observed during the site visit.

2.2.5 MOULD

Mould staining was observed on lay-in acoustic ceiling tile.

2.2.6 CRYSTALLINE SILICA

Cement and concrete building materials were not sampled for the presence of crystalline silica. It is assumed that original concrete materials are silica-containing.

2.2.7 POLYCHLORINATED BIPHENYL (PCBs)

Poly-Chlorinated Biphenyls (PCBs) are assumed present in fluorescent lighting ballasts. Light ballasts were not assessed by OESN (systems were energized). Light ballasts and transformers should be assessed for PCBs prior to dismantling and disposal.

2.2.8 OZONE DEPLETING SUBSTANCES (ODS)

Air conditioning units and fire extinguishers were observed by OESN and are suspected to contain ozone-depleting substances.

3.0 TEST RESULTS

3.1 ASBESTOS

Bulk samples were collected for asbestos testing. Results determined that asbestos-containing materials **are not present** in the building located at 6248 8th Line, Egbert, ON.

The regulated limit for establishing asbestos content in materials in the Province of Ontario is 0.5% asbestos by dry weight.

Table 1: Asbestos Test Results

Sample Number	Material Number	Material Description	Regulated Limit	Result % by dry weight
Floor Materials				
00603.003-F01, F02, F03	HF-01	12" VFT – White w/ Red Fleck	0.5%	None Detected
00603.003-F04, F05, F06	HF-02	12" VFT – Beige w/ Grey/White Fleck	0.5%	None Detected
Wall Materials				
00603.003-W01, W02, W03, W04, W05	HW-01	Gypsum w/ compound	0.5%	None Detected
Ceiling Materials				
00603.003-C01, C02, C03	HC-01	2'x4' LAC – Large Strata w/ Dots	0.5%	None Detected
00603.003-C04, C05, C06	HC-02	2'x4' LAC – Large Fissure w/ Dots	0.5%	None Detected
Manufactured Materials				
00603.003-M01, M02, M03	HM-01	Base Cove - Beige	0.5%	None Detected
00603.003-M04, M05, M06	HM-02	Base Cove - Black	0.5%	None Detected
Roof Materials				
00603.003-R01, R02, R03	HR-01	Roof Material	0.5%	None Detected

VFT – Vinyl Floor Tile
LAC – Lay-in Acoustic Ceiling Tile

Refer to appendices for photos, laboratory analytical results and drawings outlining sample locations.

3.2 PAINT COATINGS

During a renovation or demolition project governed by the Occupational Health & Safety Act/Regulations which involves paint finishes containing designated substances **at any concentration**, employers must comply with the Designated Substance Regulation if the work is likely to allow worker exposure. Consideration must be given to the activities being performed and their potential for generation of airborne particulate.

For this reason, surface coatings with results **above analytical detection limits** identified during this assessment are reported as "positive" for the designated substance. Test results for paints suspected of containing arsenic, lead and mercury are listed in Table 2.

Table 2: Test Results for Arsenic, Lead or Mercury

Sample Number	Paint Finish Description	Location	Interpretation of Analytical Result		
			Arsenic	Lead	Mercury
00603.003-P01	White	Exterior	<MDL	<MDL	<MDL
00603.003-P02	Grey	Exterior	<MDL	**POSITIVE**	<MDL

Notes: (1) < MDL = Less than the Method Detection Limit

Refer to appendices for photos, laboratory analytical results and drawings outlining locations of arsenic, lead and mercury-containing paint finishes.

4.0 CONCLUSIONS

Assessment findings indicate designated substances and hazardous materials are present within 6248 8th Line, Egbert, ON. They include:

- Lead
  - Present in one (1) paint coating 00603.003-P02 (Grey)
  - Assumed present in soldered pipe joints.
- Mercury
  - Mercury-containing light tubes
  - One (1) mercury-containing thermostat was observed in the front entryway.
- Silica (assumed)
- Mould on ceiling tile
- Poly-Chlorinated Biphenyls (PCBs)
  - Lighting ballasts (not confirmed)
- Ozone Depleting Substances
  - Air condition units (not confirmed)
  - Fire extinguishers (not confirmed)

The information presented in this designated substance and hazardous materials survey is based on observations and analytical testing of bulk samples collected. It is possible that building materials not observed and subsequently not identified in this report may become exposed during the renovation. Any materials not listed in this report and suspected of containing designated substances should be assumed positive until sampling and analysis are conducted.

5.0 RECOMMENDATIONS

The Occupational Health and Safety Act, R.S.O 1990, c. O1 requires the constructor of a project to ensure that measures and procedures prescribed by the Act and Regulations are carried out, every employer and worker works in compliance and ultimately that the health and safety of workers on the project are protected. To this end, OESN provides the following recommendations:

1. Provide this report to all staff and vendors (contractors) prior to any building maintenance or alteration activities.
2. If planned renovations include the disturbance of any designated substances and/or hazardous materials identified, the contractor is required to follow procedures prescribed in applicable legislation.
3. It is recommended that an abatement scope of work for the safe handling and disposal of designated substances and hazardous materials be written prior to renovation or maintenance project commencement.
4. Any materials not listed in this report and suspected to contain designated substances should be assumed positive until testing is conducted.
5. This report should be updated after a maintenance or abatement activity has been conducted.

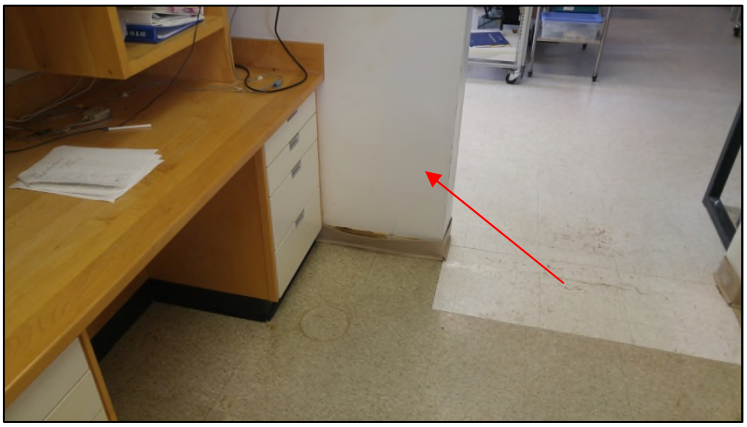
Appendix A: Suspected Asbestos Material Photo Log

Floor Materials

	**Sample Identification** 00603.003-F01 00603.003-F02 00603.003-F03 **Sample Code** HF-01
	Sample Location of Material 1001
	Sample Description 12” VFT – White w/ Red Fleck
	Quantity of Material -
Analytical Result: None Detected	**Condition of Material** -

	**Sample Identification** 00603.003-F04 00603.003-F05 00603.003-F06 **Sample Code** HF-02
	Sample Location of Material 1003
	Sample Description 12” VFT – Beige with White/Grey Fleck
	Quantity of Material -
Analytical Result: None Detected	**Condition of Material** -

Wall Materials



Sample Identification
00603.003-W01
00603.003-W02
00603.003-W03
00603.003-W04
00603.003-W05

Sample Code
HW-01

Sample Location of Material
Various locations interior

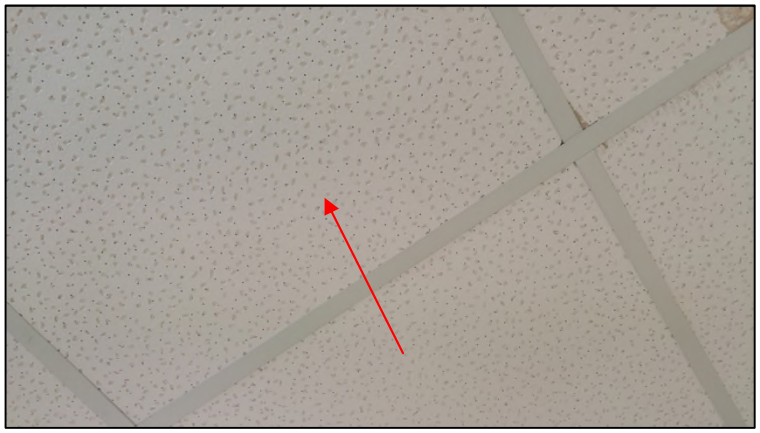
Sample Description
Gypsum w/ compound

Quantity of Material
-

Analytical Result: None Detected

Condition of Material
-

Ceiling Materials



Sample Identification
00603.003-C01
00603.003-C02
00603.003-C03

Sample Code
HC-01

Sample Location of Material
1001

Sample Description
2'x4' Lay-in Acoustic Tile – Large Strata w/ Dots

Quantity of Material
-

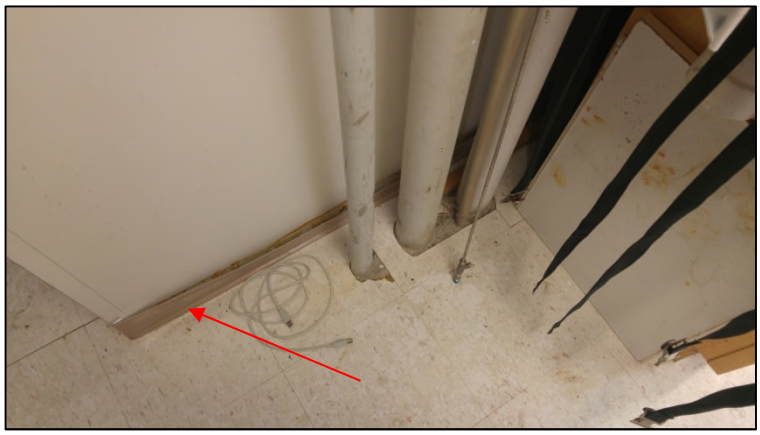
Analytical Result: None Detected

Condition of Material
-

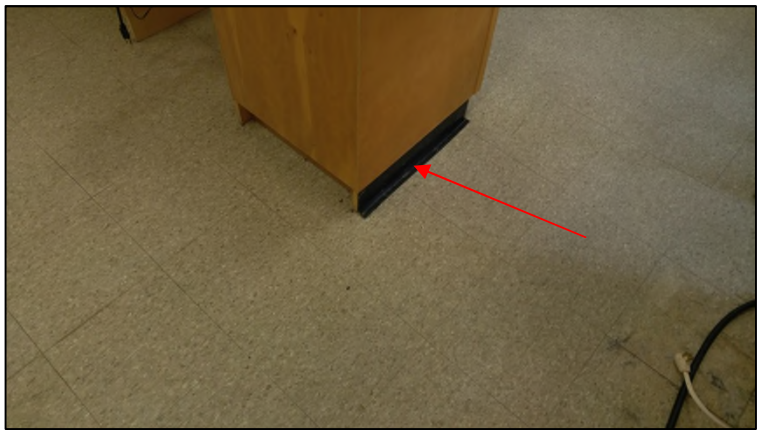
Ceiling Materials Cont'd

	**Sample Identification** 00603.003-C04 00603.003-C05 00603.003-C06 **Sample Code** HC-02
	Sample Location of Material 1003
	Sample Description 2'x4' Lay-in Acoustic Tile – Large Fissure w/ Dots
	Quantity of Material -
Analytical Result: None Detected	**Condition of Material** -

Manufactured Materials

	**Sample Identification** 00603.003-M01 00603.003-M02 00603.003-M03 **Sample Code** HM-01
	Sample Location of Material 1003
	Sample Description Base Cove – Beige
	Quantity of Material -
Analytical Result: None Detected	**Condition of Material** -

Manufactured Materials Cont'd

	**Sample Identification** 00603.003-M04 00603.003-M05 00603.003-M06 **Sample Code** HM-02
	Sample Location of Material 1003
	Sample Description Base Cove - Black
	Quantity of Material -
Analytical Result: None Detected	**Condition of Material** -

Roof Materials

	**Sample Identification** 00603.003-R01 00603.003-R02 00603.003-R03 **Sample Code** HR-01
	Sample Location of Material exterior
	Sample Description Roof Material
	Quantity of Material -
Analytical Result: None Detected	**Condition of Material** -

Appendix B: Paint Finishes Photolog

PAINT FINISHES (LEAD, MERCURY, ARSENIC)

	**Sample Identification** White Paint - Walls 00603.003-P01
	Arsenic Content <50 µg/g
	Mercury Content <2 µg/g
	Lead Content <5 µg/g

	**Sample Identification** Grey Paint – Doors/Door Frame 00603.003-P02
	Arsenic Content <50 µg/g
	Mercury Content <2 µg/g
	Lead Content 689 µg/g

Appendix C: Asbestos Analytical Results

BULK SAMPLING METHODOLOGY

Bulk material samples are randomly collected during the assessment in strategic locations. Samples of materials suspected for containing asbestos minerals are collected by a knowledgeable, competent worker who is trained and experienced in asbestos bulk sampling. Safety measures are applied in accordance with OESN's Standard Operating Procedure (SOP).

Samples are representative of each homogeneous material (uniform in colour and texture) and the quantity of samples are collected in accordance with provincial regulation.

Table 1: Bulk Material Samples of O. Reg. 278/05 (as amended to 479/10).

Item	Type of Material	Size of homogeneous area	Minimum number of bulk material samples to be collected
1.	Surfacing material, including without limitation material that is applied to surfaces by spraying, by troweling or otherwise, such as acoustical plaster on ceilings and fireproofing materials on structural members	Less than 90 square metres	**3**
		90 or more square metres, but less than 450 square metres	**5**
		450 or more square metres	**7**
2.	Thermal insulation, except as described in item 3	Any size	**3**
3.	Thermal insulation patch	Less than 2 linear metres or 0.5 square metres any size	**1**
4.	Other material	Any size	**3**

Samples are tested using test method EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials. June 1993. O. Reg. 278/05.

Sample locations are plotted on drawings designed to match the Chain of Custody produced on site.

The report of "suspect" materials is based on the field consultant's experience and knowledge regarding the historical use and applications of these chemicals in products. If observations do not confirm the presence of designated substances or hazardous materials, bulk samples of the material are collected and analyzed for the appropriate chemical or biological substance.

INTERPRETATION OF RESULTS

All bulk samples were analyzed using Polarized Light Microscopy (PLM) Method EPA 600/R93/116 and EPA 600/M4-82/020. The limit of quantitation for the test method is <1% asbestos by weight as determined by visual estimation.

Asbestos is present within the sample when the test result indicates a percentage of <1 to 100. A result reported as "<1% asbestos" indicates that trace amounts of asbestos were observed but could not be quantified by the test method. When this occurs, additional analysis can be requested to achieve a lower limit of quantitation.

A result reported as "None Detected" indicates that no traces of asbestos were observed in the sample. For most materials, a "None Detected" result can be interpreted as 0% asbestos. Due to the limitations of EPA 600 test method, non friable organically bound materials such as vinyl floor tiles can be difficult to analyze using PLM. For these materials, EPA recommends that a "None Detected" result be followed with analysis by Transmission Electron Microscopy (TEM) to confirm that asbestos is not present within the material.

The province of Ontario considers any material testing equal or greater than 0.5% by dry weight as asbestos.

March 20, 2018

Ontario Environmental & Safety Network, LTD.
RR #2 1783 Highway 20C
Allanburg, ON L0S 1A0

CLIENT PROJECT: 00603.003
CEI LAB CODE: B18-0959

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on March 19, 2018. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

Ontario Environmental & Safety Network, LTD.

CLIENT PROJECT: 00603.003

LAB CODE: B18-0959

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 03/20/18

TOTAL SAMPLES ANALYZED: 5

SAMPLES >1% ASBESTOS:

TEL: 866-481-1412

www.ceilabs.com

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: 00603.003 **LAB CODE:** B18-0959

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
00603.003-W01		B268020	White,Tan	Gypsum Board	None Detected
00603.003-W02	Layer 1	B268021	White,Tan	Gypsum Board	None Detected
	Layer 2	B268021	White	Joint Compound	None Detected
00603.003-W03	Layer 1	B268022	White,Tan	Gypsum Board	None Detected
	Layer 2	B268022	White	Joint Compound	None Detected
00603.003-W04	Layer 1	B268023	White,Tan	Gypsum Board	None Detected
	Layer 2	B268023	White	Joint Compound	None Detected
00603.003-W05	Layer 1	B268024	White,Tan	Gypsum Board	None Detected
	Layer 2	B268024	White	Joint Compound	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Ontario Environmental & Safety Network, LTD.
RR #2 1783 Highway 20C
Allanburg, ON L0S 1A0

Lab Code: B18-0959
Date Received: 03-19-18
Date Analyzed: 03-20-18
Date Reported: 03-20-18

Project: 00603.003

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
00603.003-W01 B268020	Gypsum Board	Heterogeneous White,Tan Fibrous Bound	15%	Cellulose	20% 65%	Binder Gypsum	None Detected
Lab Notes: No Joint Compound present.							
00603.003-W02 Layer 1 B268021	Gypsum Board	Heterogeneous White,Tan Fibrous Bound	15%	Cellulose	20% 65%	Binder Gypsum	None Detected
Layer 2 B268021	Joint Compound	Heterogeneous White Non-fibrous Bound			25% 10% 65%	Binder Paint Calc Carb	None Detected
00603.003-W03 Layer 1 B268022	Gypsum Board	Heterogeneous White,Tan Fibrous Bound	15%	Cellulose	20% 65%	Binder Gypsum	None Detected
Layer 2 B268022	Joint Compound	Heterogeneous White Non-fibrous Bound			25% 10% 65%	Binder Paint Calc Carb	None Detected
00603.003-W04 Layer 1 B268023	Gypsum Board	Heterogeneous White,Tan Fibrous Bound	15%	Cellulose	20% 65%	Binder Gypsum	None Detected
Layer 2 B268023	Joint Compound	Heterogeneous White Non-fibrous Bound			25% 10% 65%	Binder Paint Calc Carb	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Ontario Environmental & Safety Network, LTD.
RR #2 1783 Highway 20C
Allanburg, ON L0S 1A0

Lab Code: B18-0959
Date Received: 03-19-18
Date Analyzed: 03-20-18
Date Reported: 03-20-18

Project: 00603.003

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
00603.003-W05 Layer 1 B268024	Gypsum Board	Heterogeneous White,Tan Fibrous Bound	15%	Cellulose	20% 65%	Binder Gypsum	None Detected
Layer 2 B268024	Joint Compound	Heterogeneous White Non-fibrous Bound			25% 10% 65%	Binder Paint Calc Carb	None Detected

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LEGEND:

Non-Anth	= Non-Asbestiform Anthophyllite
Non-Trem	= Non-Asbestiform Tremolite
Calc Carb	= Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORTING LIMIT: <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. Estimated measurement of uncertainty is available on request.

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

ANALYST: Megan Rumble

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

Y:\Templates\Asbestos\2013 Site Work Templates\001 Asbestos Bulk Sampling Chain of Custody

B18-0959
(5) B268020-024

Chain of Custody Record

COC 1 of 1

Laboratory:	CEI										
Sample Date:	16-Mar-18	**Job Number: 00603.003**									
Quotation#:				**Analysis**							
Job Reference:	6248 8th Line, Egbert, ON										
Contact Name:	Lisa Tappay										
Contact Email:	ltappay@oesn.net										
HM #	**Sample #**	**Sample ID**	**Location**	PLM Bulk	PLM Point Count	PLM Gravimetric	TEM Bulk	TEM NIOSH 7402	PCM NIOSH 7400	**Results By:**	
HW-01	00603.003-W01	Gypsum Board with Compound	1001	X						☐ 4 hour	
HW-01	00603.003-W02	Gypsum Board with Compound	1002	X						[ ] 24 hour	
HW-01	00603.003-W03	Gypsum Board with Compound	1003	X						☑ 2 B Days	
HW-01	00603.003-W04	Gypsum Board with Compound	1004	X						☐ 3 B Days	
HW-01	00603.003-W05	Gypsum Board with Compound	1005	X						☐ 5 B Days	
										☐ Other:	
Comments:		Method of Delivery:	☐ Positive stop on analyses identified above with '*'				Total # samples shipped:			5	
Relinquished By (Print & Sign): K. Douglas		Received by Driver/Depot:	Received at Lab: B			Verified By:					
Date/Time: March 16, 2018		Date/Time:	Date/Time: 3/19 0900			Date/Time:					

Ontario Environmental & Safety Network Ltd.

1783 Highway 20, RR#2, Allanburg, Ontario Canada L0S 1A0 Tel: 1-888-271-2111 Fax: 905-988-1910 www.oesn.net

March 20, 2018

Ontario Environmental & Safety Network, LTD.
RR #2 1783 Highway 20C
Allanburg, ON L0S 1A0

CLIENT PROJECT: 00603.003
CEI LAB CODE: B18-0960

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on March 19, 2018. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

Ontario Environmental & Safety Network, LTD.

CLIENT PROJECT: 00603.003

LAB CODE: B18-0960

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 03/20/18

TOTAL SAMPLES ANALYZED: 3

SAMPLES >1% ASBESTOS:

TEL: 866-481-1412

www.ceilabs.com

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: 00603.003 **LAB CODE:** B18-0960

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
0063.003-R01	Layer 1	B268025	Black	Roof Material- Membrane	None Detected
	Layer 2	B268025	Black	Roof Material- Felt	None Detected
	Layer 3	B268025	Yellow	Roof Material- Foam	None Detected
0063.003-R02	Layer 1	B268026	Black	Roof Material- Membrane	None Detected
	Layer 2	B268026	Black	Roof Material- Felt	None Detected
	Layer 3	B268026	Yellow	Roof Material- Foam	None Detected
0063.003-R03	Layer 1	B268027	Gray	Roof Material- Membrane	None Detected
	Layer 2	B268027	Pink	Roof Material- Foam	None Detected
	Layer 3	B268027	Blue	Roof Material- Foam	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Ontario Environmental & Safety Network, LTD.
RR #2 1783 Highway 20C
Allanburg, ON L0S 1A0

Lab Code: B18-0960
Date Received: 03-19-18
Date Analyzed: 03-20-18
Date Reported: 03-20-18

Project: 00603.003

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
0063.003-R01 Layer 1 B268025	Roof Material- Membrane	Heterogeneous Black Non-fibrous Bound			100%	Binder	None Detected
Layer 2 B268025	Roof Material- Felt	Heterogeneous Black Fibrous Bound	95%	Cellulose	5%	Binder	None Detected
Layer 3 B268025	Roof Material- Foam	Heterogeneous Yellow Non-fibrous Bound			100%	Foam	None Detected
0063.003-R02 Layer 1 B268026	Roof Material- Membrane	Heterogeneous Black Non-fibrous Bound			100%	Binder	None Detected
Layer 2 B268026	Roof Material- Felt	Heterogeneous Black Fibrous Bound	95%	Cellulose	5%	Binder	None Detected
Layer 3 B268026	Roof Material- Foam	Heterogeneous Yellow Non-fibrous Bound			100%	Foam	None Detected
0063.003-R03 Layer 1 B268027	Roof Material- Membrane	Heterogeneous Gray Fibrous Bound	25%	Fiberglass	75%	Binder	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Ontario Environmental & Safety Network, LTD.
RR #2 1783 Highway 20C
Allanburg, ON L0S 1A0

Lab Code: B18-0960
Date Received: 03-19-18
Date Analyzed: 03-20-18
Date Reported: 03-20-18

Project: 00603.003

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous		ASBESTOS %
Layer 2 B268027	Roof Material- Foam	Heterogeneous Pink Non-fibrous Bound		100%	Foam	None Detected
Layer 3 B268027	Roof Material- Foam	Heterogeneous Blue Non-fibrous Bound		100%	Foam	None Detected

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LEGEND:

Non-Anth	= Non-Asbestiform Anthophyllite
Non-Trem	= Non-Asbestiform Tremolite
Calc Carb	= Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORTING LIMIT: <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. Estimated measurement of uncertainty is available on request.

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

ANALYST: Megan Rumble

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

Y:\Templates\Asbestos\2013 Site Work Templates\001 Asbestos Bulk Sampling Chain of Custody

(3) B18-0960
B26 8025-
027

Chain of Custody Record

COC 1 of 1

Laboratory:	CEI
Sample Date:	16-Mar-18
Job Number:	00603.003
Quotation#:	
Job Reference:	6248 8th Line, Egbert, ON
Contact Name:	Lisa Tappay
Contact Email:	ltappay@oesn.net

Analysis

HM #	Sample #	Sample ID	Location	PLM Bulk	PLM Point Count	PLM Gravimetric	TEM Bulk	TEM NIOSH 7402	PCM NIOSH 7400
HR-01	00603.003-R01	Roof Material	Roof	X					
HR-01	00603.003-R02	Roof Material	Roof	X					
HR-01	00603.003-R03	Roof Material	Roof	X					

Results By:

- ☐ 4 hour
- ☐ 24 hour
- ☑ 2 B Days
- ☐ 3 B Days
- ☐ 5 B Days
- ☐ Other:

Comments:	Method of Delivery:	☐ Positive stop on analyses identified above with '*'	Total # samples shipped: 3

Relinquished By (Print & Sign):	Received by Driver/Depot:	Received at Lab:	Verified By:
K. Douglas		B	
Date/Time: March 16, 2018	Date/Time:	Date/Time: 3/19 0900	Date/Time:

Ontario Environmental & Safety Network Ltd.

1783 Highway 20, RR#2, Allanburg, Ontario Canada L0S 1A0 Tel: 1-888-271-2111 Fax: 905-988-1910 www.oesn.net

March 20, 2018

Ontario Environmental & Safety Network, LTD.
RR #2 1783 Highway 20C
Allanburg, ON L0S 1A0

CLIENT PROJECT: 00603.003
CEI LAB CODE: B18-0963

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on March 19, 2018. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

Ontario Environmental & Safety Network, LTD.

CLIENT PROJECT: 00603.003

LAB CODE: B18-0963

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 03/20/18

TOTAL SAMPLES ANALYZED: 6

SAMPLES >1% ASBESTOS:

TEL: 866-481-1412

www.ceilabs.com

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: 00603.003 **LAB CODE:** B18-0963

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
00603.003-M01		B268040A	Beige	Base Cove	None Detected
		B268040B	Yellow	Mastic	None Detected
00603.003-M02		B268041A	Beige	Base Cove	None Detected
		B268041B	Yellow	Mastic	None Detected
00603.003-M03		B268042A	Beige	Base Cove	None Detected
		B268042B	Yellow	Mastic	None Detected
00603.003-M04		B268043A	Black	Base Cove	None Detected
		B268043B	Yellow	Mastic	None Detected
00603.003-M05		B268044A	Black	Base Cove	None Detected
		B268044B	Yellow	Mastic	None Detected
00603.003-M06		B268045A	Black	Base Cove	None Detected
		B268045B	Yellow	Mastic	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Ontario Environmental & Safety Network, LTD.
RR #2 1783 Highway 20C
Allanburg, ON L0S 1A0

Lab Code: B18-0963
Date Received: 03-19-18
Date Analyzed: 03-20-18
Date Reported: 03-20-18

Project: 00603.003

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous		ASBESTOS %
00603.003-M01 B268040A	Base Cove	Heterogeneous Beige Non-fibrous Bound		100%	Vinyl	None Detected
B268040B	Mastic	Heterogeneous Yellow Non-fibrous Bound		100%	Mastic	None Detected
00603.003-M02 B268041A	Base Cove	Heterogeneous Beige Non-fibrous Bound		100%	Vinyl	None Detected
B268041B	Mastic	Heterogeneous Yellow Non-fibrous Bound		100%	Mastic	None Detected
00603.003-M03 B268042A	Base Cove	Heterogeneous Beige Non-fibrous Bound		100%	Vinyl	None Detected
B268042B	Mastic	Heterogeneous Yellow Non-fibrous Bound		100%	Mastic	None Detected
00603.003-M04 B268043A	Base Cove	Heterogeneous Black Non-fibrous Bound		100%	Vinyl	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Ontario Environmental & Safety Network, LTD.
RR #2 1783 Highway 20C
Allanburg, ON L0S 1A0

Lab Code: B18-0963
Date Received: 03-19-18
Date Analyzed: 03-20-18
Date Reported: 03-20-18

Project: 00603.003

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	 Non-Fibrous	ASBESTOS %
B268043B	Mastic	Heterogeneous Yellow Non-fibrous Bound	100%	Mastic	None Detected
00603.003-M05 B268044A	Base Cove	Heterogeneous Black Non-fibrous Bound	100%	Vinyl	None Detected
B268044B	Mastic	Heterogeneous Yellow Non-fibrous Bound	100%	Mastic	None Detected
00603.003-M06 B268045A	Base Cove	Heterogeneous Black Non-fibrous Bound	100%	Vinyl	None Detected
B268045B	Mastic	Heterogeneous Yellow Non-fibrous Bound	100%	Mastic	None Detected

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LEGEND:

Non-Anth	= Non-Asbestiform Anthophyllite
Non-Trem	= Non-Asbestiform Tremolite
Calc Carb	= Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORTING LIMIT: <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. Estimated measurement of uncertainty is available on request.

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

ANALYST: Megan Rumble

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

Y:\Templates\Asbestos\2013 Site Work Templates\001 Asbestos Bulk Sampling Chain of Custody

(6) B18-0963
B2 68040-045

Chain of Custody Record

COC 1 of 1

Laboratory:	CEI
Sample Date:	16-Mar-18
Job Number:	00603.003
Quotation#:	
Job Reference:	6248 8th Line, Egbert, ON
Contact Name:	Lisa Tappay
Contact Email:	ltappay@oesn.net

HM #	Sample #	Sample ID	Location	PLM Bulk	PLM Point Count	PLM Gravimetric	TEM Bulk	TEM NIOSH 7402	PCM NIOSH 7400
HM-01	00603.003-M01	Base Cove - Beige	1003	X					
HM-01	00603.003-M02	Base Cove - Beige	1003	X					
HM-01	00603.003-M03	Base Cove - Beige	1003	X					
HM-02	00603.003-M04	Base Cove - Black	1003	X					
HM-02	00603.003-M05	Base Cove - Black	1003	X					
HM-02	00603.003-M06	Base Cove - Black	1003	X					

Analysis

Results By:

- ☐ 4 hour
- ☐ 24 hour
- ☑ 2 B Days
- ☐ 3 B Days
- ☐ 5 B Days
- ☐ Other:

Comments:	Method of Delivery:	☐ Positive stop on analyses identified above with '*'	Total # samples shipped: 6

Relinquished By (Print & Sign): K. Douglas Kim D	Received by Driver/Depot:	Received at Lab: B	Verified By:
Date/Time: March 16, 2018	Date/Time:	Date/Time: 3/19 0900	Date/Time:

Ontario Environmental & Safety Network Ltd.
1783 Highway 20, RR#2, Allanburg, Ontario Canada L0S 1A0 Tel: 1-888-271-2111 Fax: 905-988-1910 www.oesn.net

March 21, 2018

Ontario Environmental & Safety Network, LTD.
RR #2 1783 Highway 20C
Allanburg, ON L0S 1A0

CLIENT PROJECT: 00603.003
CEI LAB CODE: B18-0961

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on March 19, 2018. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

Ontario Environmental & Safety Network, LTD.

CLIENT PROJECT: 00603.003

LAB CODE: B18-0961

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 03/21/18

TOTAL SAMPLES ANALYZED: 6

SAMPLES >1% ASBESTOS:

TEL: 866-481-1412

www.ceilabs.com

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: 00603.003 **LAB CODE:** B18-0961

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
00603.003-F01		B268028A	White	Floor Tile	None Detected
		B268028B	Yellow	Mastic	None Detected
00603.003-F02		B268029A	White	Floor Tile	None Detected
		B268029B	Yellow	Mastic	None Detected
00603.003-F03		B268030A	White	Floor Tile	None Detected
		B268030B	Yellow	Mastic	None Detected
00603.003-F04		B268031A	Beige,White	Floor Tile	None Detected
	Layer 1	B268031B	Black	Mastic	None Detected
	Layer 2	B268031B	Gray	Cementitious Material	None Detected
00603.003-F05		B268032A	Beige,White	Floor Tile	None Detected
		B268032B	Black	Mastic	None Detected
00603.003-F06		B268033A	Beige,White	Floor Tile	None Detected
		B268033B	Black	Mastic	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Ontario Environmental & Safety Network, LTD.
RR #2 1783 Highway 20C
Allanburg, ON L0S 1A0

Lab Code: B18-0961
Date Received: 03-19-18
Date Analyzed: 03-21-18
Date Reported: 03-21-18

Project: 00603.003

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous		ASBESTOS %
00603.003-F01 B268028A	Floor Tile	Heterogeneous White Non-fibrous Bound		100%	Vinyl	None Detected
B268028B	Mastic	Homogeneous Yellow Non-fibrous Bound		100%	Mastic	None Detected
00603.003-F02 B268029A	Floor Tile	Heterogeneous White Non-fibrous Bound		100%	Vinyl	None Detected
B268029B	Mastic	Homogeneous Yellow Non-fibrous Bound		100%	Mastic	None Detected
00603.003-F03 B268030A	Floor Tile	Heterogeneous White Non-fibrous Bound		100%	Vinyl	None Detected
B268030B	Mastic	Homogeneous Yellow Non-fibrous Bound		100%	Mastic	None Detected
00603.003-F04 B268031A	Floor Tile	Heterogeneous Beige,White Non-fibrous Bound		100%	Vinyl	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Ontario Environmental & Safety Network, LTD.
RR #2 1783 Highway 20C
Allanburg, ON L0S 1A0

Lab Code: B18-0961
Date Received: 03-19-18
Date Analyzed: 03-21-18
Date Reported: 03-21-18

Project: 00603.003

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	 Non-Fibrous	ASBESTOS %
Layer 1 B268031B	Mastic	Homogeneous Black Non-fibrous Bound	100%	Mastic	None Detected
Layer 2 B268031B	Cementitious Material	Homogeneous Gray Non-fibrous Bound	60% 40%	Binder Silicates	None Detected
00603.003-F05 B268032A	Floor Tile	Heterogeneous Beige,White Non-fibrous Bound	100%	Vinyl	None Detected
B268032B	Mastic	Homogeneous Black Non-fibrous Bound	100%	Mastic	None Detected
00603.003-F06 B268033A	Floor Tile	Heterogeneous Beige,White Non-fibrous Bound	100%	Vinyl	None Detected
B268033B	Mastic	Homogeneous Black Non-fibrous Bound	100%	Mastic	None Detected

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LEGEND:

Non-Anth	= Non-Asbestiform Anthophyllite
Non-Trem	= Non-Asbestiform Tremolite
Calc Carb	= Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORTING LIMIT: <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. Estimated measurement of uncertainty is available on request.

ANALYST: Taylor B. Metcalf

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

Y:\Templates\Asbestos\2013 Site Work Templates\001 Asbestos Bulk Sampling Chain of Custody

(6) B18-0961
B2648023-033

Chain of Custody Record

COC 1 of 1

Laboratory:	CEI
Sample Date:	16-Mar-18
Job Number:	00603.003
Quotation#:	
Job Reference:	6248 8th Line, Egbert, ON
Contact Name:	Lisa Tappay
Contact Email:	ltappay@oesn.net

Analysis

HM #	Sample #	Sample ID	Location	PLM Bulk	PLM Point Count	PLM Gravimetric	TEM Bulk	TEM NIOSH 7402	PCM NIOSH 7400
HF-01	00603.003-F01	12" VFT - White with Red Fleck	1001	X					
HF-01	00603.003-F02	12" VFT - White with Red Fleck	1001	X					
HF-01	00603.003-F03	12" VFT - White with Red Fleck	1001	X					
HF-02	00603.003-F04	12" VFT - Beige with White~Grey Fleck	1003	X					
HF-02	00603.003-F05	12" VFT - Beige with White~Grey Fleck	1003	X					
HF-02	00603.003-F06	12" VFT - Beige with White~Grey Fleck	1003	X					

Results By:

- ☐ 4 hour
- ☐ 24 hour
- ☑ 2 B Days
- ☐ 3 B Days
- ☐ 5 B Days
- ☐ Other:

Comments: VFT = Vinyl Floor Tile	Method of Delivery:	☑ Positive stop on analyses identified above with '*'	Total # samples shipped: 6
Relinquished By (Print & Sign): K. Douglas	Received by Driver/Depot:	Received at Lab: IB	Verified By:
Date/Time: March 16, 2018	Date/Time:	Date/Time: 3/19 0900	Date/Time:

Ontario Environmental & Safety Network Ltd.

1783 Highway 20, RR#2, Allanburg, Ontario Canada L0S 1A0 Tel: 1-888-271-2111 Fax: 905-988-1910 www.oesn.net

March 20, 2018

Ontario Environmental & Safety Network, LTD.
RR #2 1783 Highway 20C
Allanburg, ON L0S 1A0

CLIENT PROJECT: 00603.003
CEI LAB CODE: B18-0962

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on March 19, 2018. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

Ontario Environmental & Safety Network, LTD.

CLIENT PROJECT: 00603.003

LAB CODE: B18-0962

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 03/20/18

TOTAL SAMPLES ANALYZED: 6

SAMPLES >1% ASBESTOS:

TEL: 866-481-1412

www.ceilabs.com

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: 00603.003 **LAB CODE:** B18-0962

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
00603.003-C01		B268034	White,Tan	Ceiling Tile	None Detected
00603.003-C02		B268035	White,Tan	Ceiling Tile	None Detected
00603.003-C03		B268036	White,Tan	Ceiling Tile	None Detected
00603.003-C04		B268037	White,Tan	Ceiling Tile	None Detected
00603.003-C05		B268038	White,Tan	Ceiling Tile	None Detected
00603.003-C06		B268039	White,Tan	Ceiling Tile	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Ontario Environmental & Safety Network, LTD.
RR #2 1783 Highway 20C
Allanburg, ON L0S 1A0

Lab Code: B18-0962
Date Received: 03-19-18
Date Analyzed: 03-20-18
Date Reported: 03-20-18

Project: 00603.003

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
00603.003-C01 B268034	Ceiling Tile	Heterogeneous White,Tan Fibrous Bound	50% 15%	Cellulose Fiberglass	10% 25% <1%	Binder Perlite Paint	None Detected
00603.003-C02 B268035	Ceiling Tile	Heterogeneous White,Tan Fibrous Bound	50% 15%	Cellulose Fiberglass	10% 25% <1%	Binder Perlite Paint	None Detected
00603.003-C03 B268036	Ceiling Tile	Heterogeneous White,Tan Fibrous Bound	50% 15%	Cellulose Fiberglass	10% 25% <1%	Binder Perlite Paint	None Detected
00603.003-C04 B268037	Ceiling Tile	Heterogeneous White,Tan Fibrous Bound	50% 15%	Cellulose Fiberglass	10% 25% <1%	Binder Perlite Paint	None Detected
00603.003-C05 B268038	Ceiling Tile	Heterogeneous White,Tan Fibrous Bound	50% 15%	Cellulose Fiberglass	10% 25% <1%	Binder Perlite Paint	None Detected
00603.003-C06 B268039	Ceiling Tile	Heterogeneous White,Tan Fibrous Bound	50% 15%	Cellulose Fiberglass	10% 25% <1%	Binder Perlite Paint	None Detected

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LEGEND:

Non-Anth	= Non-Asbestiform Anthophyllite
Non-Trem	= Non-Asbestiform Tremolite
Calc Carb	= Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORTING LIMIT: <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. Estimated measurement of uncertainty is available on request.

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

ANALYST: Megan Rumble

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

Y:\Templates\Asbestos\2013 Site Work Templates\001 Asbestos Bulk Sampling Chain of Custody

(6) B18-0962
B268034-039

Chain of Custody Record

COC 1 of 1

Laboratory:	CEI
Sample Date:	16-Mar-18
Job Number:	00603.003
Quotation#:	
Job Reference:	6248 8th Line, Egbert, ON
Contact Name:	Lisa Tappay
Contact Email:	ltappay@oesn.net

Analysis

HM #	Sample #	Sample ID	Location	PLM Bulk	PLM Point Count	PLM Gravimetric	TEM Bulk	TEM NIOSH 7402	PCM NIOSH 7400
HC-01	00603.003-C01	2x4 Lay-in Acoustic Tile - Large Strate with Dots	1001	X					
HC-01	00603.003-C02	2x4 Lay-in Acoustic Tile - Large Strate with Dots	1001	X					
HC-01	00603.003-C03	2x4 Lay-in Acoustic Tile - Large Strate with Dots	1001	X					
HC-02	00603.003-C04	2x4 Lay-in Acoustic Tile - Large Fissure with Dots	1003	X					
HC-02	00603.003-C05	2x4 Lay-in Acoustic Tile - Large Fissure with Dots	1003	X					
HC-02	00603.003-C06	2x4 Lay-in Acoustic Tile - Large Fissure with Dots	1003	X					

Results By:

- ☐ 4 hour
- ☐ 24 hour
- ☑ 2 B Days
- ☐ 3 B Days
- ☐ 5 B Days
- ☐ Other:

Comments:	Method of Delivery:	☑ Positive stop on analyses identified above with '*'	Total # samples shipped: 6

Relinquished By (Print & Sign): K. Douglas	Received by Driver/Depot:	Received at Lab:	Verified By:
Date/Time: March 16, 2018	Date/Time:	Date/Time: 3/19 0900	Date/Time:

Ontario Environmental & Safety Network Ltd.

1783 Highway 20, RR#2, Allanburg, Ontario Canada L0S 1A0 Tel: 1-888-271-2111 Fax: 905-988-1910 www.oesn.net

Appendix D: Paint Finishes Analytical Results

SAMPLING METHODOLOGY PAINT COATINGS (Lead, Mercury, Arsenic)

Paints observed during the time of inspection were bulk sampled and sent to an accredited laboratory for analysis.

Each sample container is labeled with a sticker detailing the information (e.g. sample number, name, color description, room location) specific for that sample.

All samples are recorded on a Chain of Custody and sent to an accredited laboratory for analysis of Arsenic, Lead and Mercury.

For the determination of metals (arsenic, lead) in paint coatings U.S. Environmental Protection Agency test method EPA 6020 – Digestion, ICP-MS was applied.

For the determination of mercury in paint coatings U.S. Environmental Protection Agency test method EPA 7471B – CVAA, digestion was applied.

Sample locations are plotted on the drawings designed to match the Chain of Custody produced on site.

INTERPRETATION OF RESULTS

Regulated provincial limits for defining whether a surface coating is lead, arsenic or mercury "containing" do not currently exist; industry best practice dictates that consideration needs to be given to surface coatings containing any level of these contaminants for worker health and safety. The Ontario Ministry of Labour does not consider whether a surface coating is "lead-based" or "lead-containing" within the Occupational Health & Safety Act & Regulations; instead the focus is on whether workers may be exposed to lead or another designated substance, whatever the source.[1]

United States Legislation References

Within the United States, the Housing and Urban Development and the Consumer Products Safety Commission (CPSC) have designated levels of lead in paint below which they consider the paint to be non-lead containing.[2] These include:

	Definition
Lead-based	≥ 5000 ppm by weight
Lead-containing	> 90 ppm by weight

The U.S. OSHA has stated that they do not recognize these levels as safe under most workplace situations; and that for the purposes of occupational health, these levels may easily present an exposure hazard.[3]

Canadian Legislation References

The Federal Surface Coating Materials Regulations[4] prescribes maximum concentrations for total lead and total mercury present in consumer paints and other surface coatings, applicable to the advertising, sale and importation of these materials as well as furniture and other articles for children; and is intended to protect consumers. These limits are:

	Limit
Lead	90 mg/kg
Mercury	10 mg/kg

[1] Ontario Regulation 490/09 Designated Substances under Occupational Health and Safety Act, R.S.O. 1990, c. O.1 (as amended).
[2] U.S. Department of Housing & Urban Development. Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing. Office of Healthy Homes and Lead Hazard Control, 2nd ed. July 2012.
[3] Occupational Safety and Health Administration. Standard Interpretations, Standard number 1926.62. https://www.osha.gov/pls/oshaweb/owasrch.search_form?p_doc_type=INTERPRETATIONS&p_toc_level=3&p_keyvalue=1926.62&p_status=CURRENT
[4] Surface Coating Materials Regulations SOR/2005-109 (June 2011) under Canada Consumer Product Safety Act and pursuant to Section 5 of the Hazardous Products Act (R.S., c.24 (3rd Suppl), s.1).

In the absence of Ontario Ministry of Labour regulatory direction on the definition of a “lead-containing” or “mercury-containing” material, the Federal Surface Coating Materials Regulations limits have been routinely used in Canada as practical values which, when exceeded, worker exposure precautions were recommended. However, in the interest of protecting worker health and safety, industrial hygiene best practice dictates that any coating identified with lead, arsenic or mercury above analytical detection limits should be considered lead-, arsenic- or mercury-containing.

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Certificate of Analysis

Ontario Environmental & Safety Network Ltd. (St.)

184 Scott Street, Unit 8 & 9
St. Catharines, ON L2N 1H1
Attn: Lisa Tappay

Client PO: 00603.003
Project: Clean Air Building 6248 8th line Egbert
Custody: 114444

Report Date: 20-Mar-2018
Order Date: 16-Mar-2018

Order #: 1811520

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Paracel ID	Client ID
1811520-01	00603.003-P01 (White)
1811520-02	00603.003-P02 (Grey)

Approved By:

Mark Foto, M.Sc.
Lab Supervisor

Certificate of Analysis
Client: Ontario Environmental & Safety Network Ltd. (St.)
Client PO: 00603.003

Report Date: 20-Mar-2018
Order Date: 16-Mar-2018
Project Description: Clean Air Building 6248 8th line Egbert

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
Mercury by CVAA	EPA 7471B - CVAA, digestion	20-Mar-18	20-Mar-18
Metals, ICP-MS	EPA 6020 - Digestion - ICP-MS	19-Mar-18	19-Mar-18

Certificate of Analysis

Report Date: 20-Mar-2018

Client: Ontario Environmental & Safety Network Ltd. (St.)

Order Date: 16-Mar-2018

Client PO: 00603.003

Project Description: Clean Air Building 6248 8th line Egbert

	Client ID:	00603.003-P01 (White)	00603.003-P02 (Grey)	-	-
	Sample Date:	16-Mar-18	16-Mar-18	-	-
	Sample ID:	1811520-01	1811520-02	-	-
	MDL/Units	Paint	Paint	-	-
Metals					
Arsenic	50 ug/g	<50	<50	-	-
Lead	5 ug/g	<5	689	-	-
Mercury	2 ug/g	<2	<2	-	-

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Metals									
Arsenic	ND	50	ug/g						
Lead	ND	5	ug/g						
Mercury	ND	2	ug/g						

Certificate of Analysis
Client: Ontario Environmental & Safety Network Ltd. (St.)
Client PO: 00603.003

Report Date: 20-Mar-2018
Order Date: 16-Mar-2018
Project Description: Clean Air Building 6248 8th line Egbert

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Metals									
Arsenic	ND	50	ug/g	ND			0.0	50	
Lead	713	5	ug/g	689			3.4	50	
Mercury	ND	2	ug/g	ND			0.0	30	

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Metals									
Arsenic	55.5		ug/L	ND	111	70-130			
Lead	82.2		ug/L	27.6	109	70-130			
Mercury	15	2	ug/g	ND	100	70-130			

Qualifier Notes:

None

Sample Data Revisions

None

Work Order Revisions / Comments:

None

Other Report Notes:

n/a: not applicable
ND: Not Detected
MDL: Method Detection Limit
Source Result: Data used as source for matrix and duplicate samples
%REC: Percent recovery.
RPD: Relative percent difference.

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Paracel ID: 1811520

Chain of Custody
(Lab Use Only)
Nº 114444

Page 1 of 1

Client Name: OESN	Project Reference: CLEAN AIR BUILDING 6248 8TH LINE, EGBERT
Contact Name: LISA TAPPAY	Quote #
Address: 184 SCOTT ST UNIT 859 ST. CATHARINES, ON L2N 1H7	PO # 00603.003
Telephone: 905.988.1554	Email Address: ltappay@oesn.net

Turnaround Time:
☐ 1 Day ☐ 3 Day
☒ 2 Day ☐ Regular
Date Required:

Criteria: ☐ O. Reg. 153/04 (As Amended) Table __ ☐ RSC Filing ☐ O. Reg. 558/00 ☐ PWQO ☐ CCME ☐ SUB (Storm) ☐ SUB (Sanitary) Municipality: ☐ Other:

Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm/Sanitary Sewer) (P) (Paint) A (Air) O (Other)

Required Analyses

Paracel Order Number: 1811520

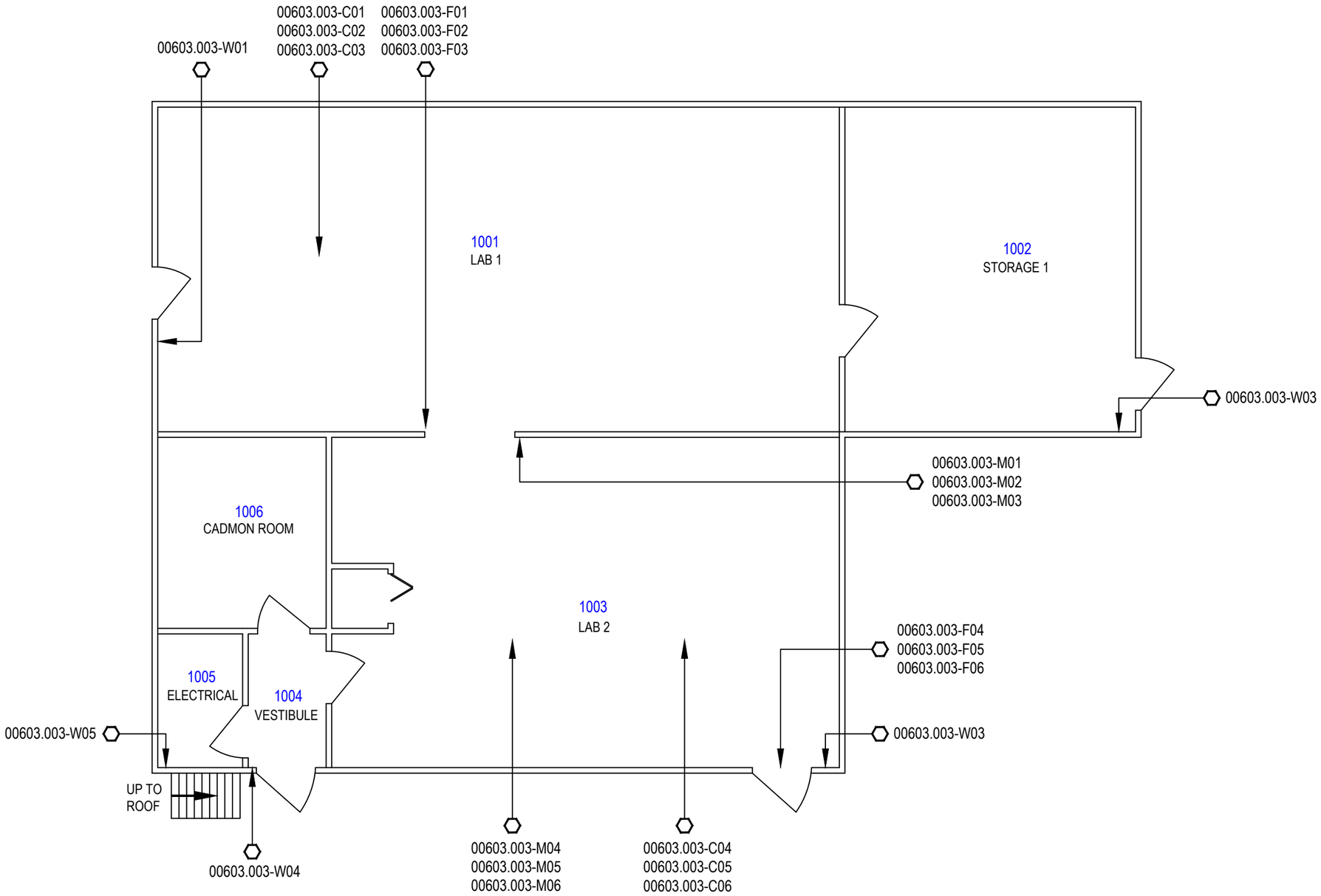
	Sample ID/Location Name	Matrix	Air Volume	# of Containers	Sample Taken Date	Sample Taken Time	PHCs F1-F4+BTEX	VOCs	PAHs	Metals by ICP	Hg	CrVI	B (HWS)	LEAD	MERCURY	ARSENIC				
1	00603.003-P01 (WHITE)	P	-	1	3/16/18	-								X	X	X				
2	00603.003-P02 (GREY)	P	-	1	3/16/18	-								X	X	X				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Comments:

Method of Delivery: Walkin

Relinquished By (Sign): Kim Dougl	Received by Driver/Depot: Niagara Bdomenich	Received at Lab: Mike	Verified By:
Relinquished By (Print): K. DOUGLAS	Date/Time: 16mar18 1550	Date/Time: 17-Mar-18 11:20	Date/Time: Mar 17/18 11:30
Date/Time: 3/16/18	Temperature: °C	Temperature: °C	pH Verified [ ] By:

Appendix E: Sample Location Drawing



CLEAN AIR BUILDING

TITLE:

DESIGNATED SUBSTANCES AND HAZARDOUS MATERIALS SURVEY

CUSTOMER:

ENVIRONMENT AND CLIMATE CHANGE

LOCATION:

6248 8TH LINE
EGBERT, ON

LEGEND

1001	OESN LOCATION ID
00603.003-C01	SAMPLE NUMBER
⬡	NON ASBESTOS-CONTAINING SAMPLE
⬢	ASBESTOS-CONTAINING SAMPLE

PAINT RESULTS TABLE

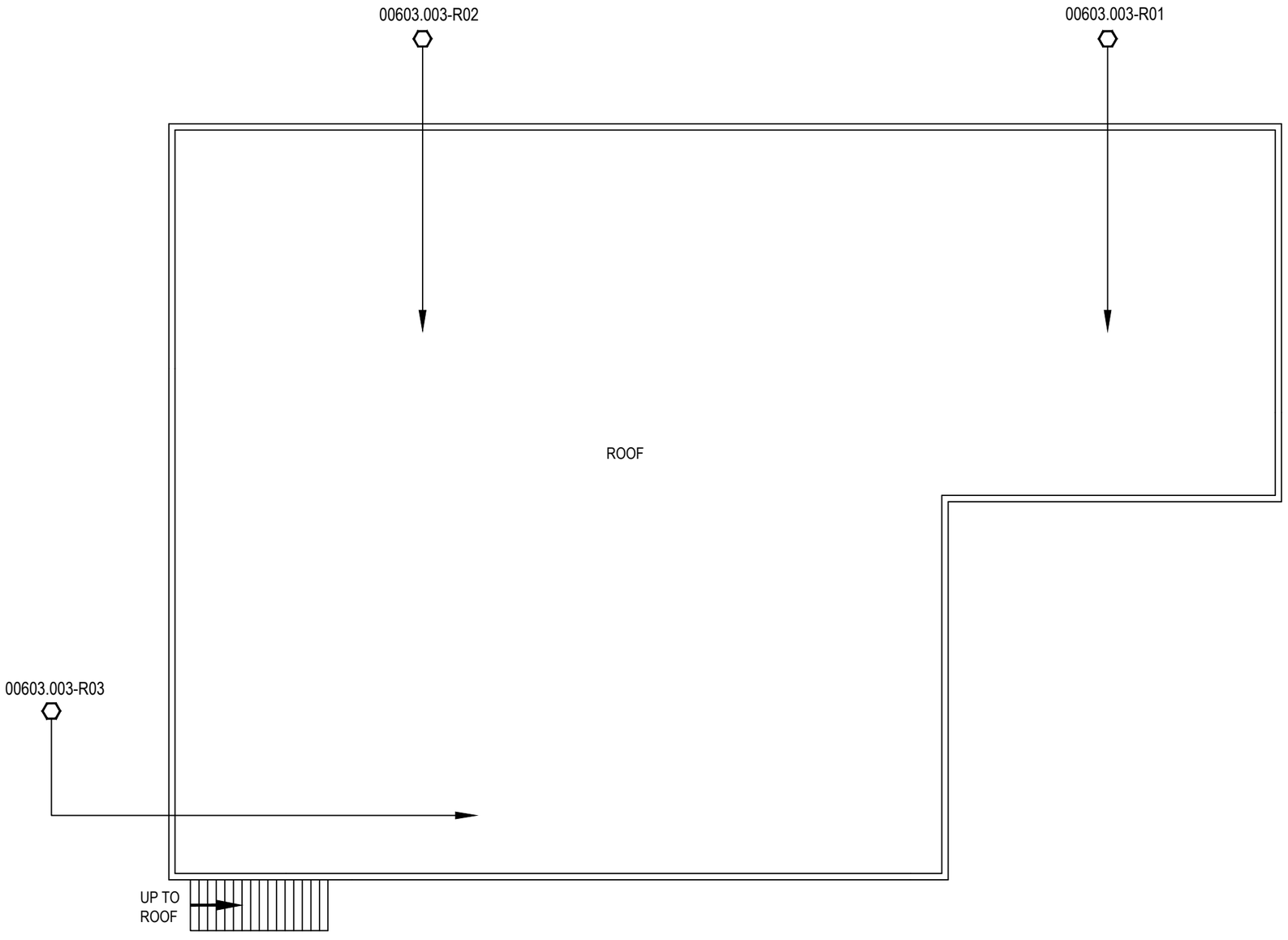
PAINT CODE	PAINT DESCRIPTION	ARSENIC ug/g	LEAD ug/g	MERCURY ug/g
01	WHITE	N1	N1	N1
02	GREY	N1	689	N1

NOTE: N1: Below Method Detection Limit (MDL)

ONTARIO ENVIRONMENTAL & SAFETY NETWORK LTD. OESN

Environment and Climate Change Canada

REV. O	SCALE: N. T. S.
DRAWN BY: K. DOUGLAS	CHECKED BY: K. BECK
DATE: MARCH 2018	
OESN JOB No: 00603.003	
DWG #: *ECC-CAB-DSS-2018-01*	



CLEAN AIR BUILDING

TITLE:

DESIGNATED SUBSTANCES AND HAZARDOUS MATERIALS SURVEY

CUSTOMER:

ENVIRONMENT AND CLIMATE CHANGE

LOCATION:

6248 8TH LINE
EGBERT, ON

LEGEND

1001	OESN LOCATION ID
00603.003-C01	SAMPLE NUMBER
⬡	NON ASBESTOS-CONTAINING SAMPLE
⬢	ASBESTOS-CONTAINING SAMPLE

PAINT RESULTS TABLE

PAINT CODE	PAINT DESCRIPTION	ARSENIC ug/g	LEAD ug/g	MERCURY ug/g
01	WHITE	N1	N1	N1
02	GREY	N1	689	N1

NOTE: N1: Below Method Detection Limit (MDL)

Environment and Climate Change Canada

REV. O	SCALE: N. T. S.
DRAWN BY: K. DOUGLAS	CHECKED BY: K. BECK
DATE: MARCH 2018	
OESN JOB No: 00603.003	
DWG #: *ECC-CAB-DSS-2018-01*	

Appendix F: References

REFERENCES

This designated substance assessment was prepared referencing laws and guidelines cited below.

1. Ontario Occupational Health & Safety Act, R.S.O. 1990 c.01.

2. Ontario Regulation for Construction Projects 213/91 as amended.

3. Ontario Regulation respecting Asbestos on Construction Projects and in Buildings and Repair Operations 278/05 as amended.

4. Ontario Regulation for Designated Substances 490/09 as amended.

5. U.S. Department of Housing & Urban Development. Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing. Office of Healthy Homes and Lead Hazard Control, 2nd ed. July 2012.

6. Occupational Safety and Health Administration. Standard Interpretations, Standard number 1926.62.

7. Surface Coating Materials Regulations SOR/2005-109 (June 2011) under Canada Consumer Product Safety Act and pursuant to Section 5 of the Hazardous Products Act (R.S., c.24 (3rd Suppl), s.1).

8. R.R.O. 1990, Regulation 347 General – Waste Management under Environmental Protection Act (as amended).

9. Ontario Ministry of the Environment and Climate Change. Registration Guidance Manual for Generators of Liquid Industrial and Hazardous Waste (January 2016).

Appendix G: Limitations

Results are submitted pursuant to OESN's current terms and conditions of sale, including the company's standard warrant and limitation of liability provisions; and no responsibility is assumed for the manner in which the results are used or interpreted.

The findings and conclusions presented in this report were based, in part, on visual observations of the building. Our conclusions cannot and are not extended to include those portions of the building which were not reasonably available, in OESN's opinion, for direct observation.

Where testing was performed, it was carried out in accordance with the scope of our contract. Due to a possible lack of information, OESN reserves the right to modify any part of the assessment regarding the materials within the building. It should be noted that this report was not exhaustive for every possible contaminant and therefore other compounds or materials may be present in the site environment.

This report is for the sole use of the party to whom it is addressed unless expressly stated otherwise in the report or contract. Any use which a third party makes of the report, in whole or in part, or any reliance thereon, or decisions made based on any information of conclusions in the report, is the sole responsibility of such third party.

OESN accepts no responsibility whatsoever for damages or loss of any nature suffered by any such third party as a result of actions taken or not taken or decisions made in reliance on the report.

Please feel free to contact our office if there are any questions regarding the content of this report, 1 888 271 2111.

EGBERT – Clean Air Building

OESN Project Number: 00603.003

Room Number: 1001

Room Name: Lab 1

ASBESTOS SUMMARY				
Building Component	**Sample Code**	**Material Description**	**Result**	**Approximate Quantity**
Flooring	HF-01	12” Vinyl Floor Tile White w/ Red Fleck	None Detected	820 SF
Walls	W01	Gypsum w/ Compound	None Detected	
Ceiling	HC-01	2’x4’ Lay-in Acoustic Ceiling Tile Large Strata w/ Dots	None Detected	820 SF
Thermal				
Other	HM-01	Base Cove – Beige	None Detected	100 LF
	HM-02	Base Cove - Black	None Detected	65 LF

SURFACE COATINGS (PAINT) SUMMARY				
Sample Code	**Sample Description**	**Arsenic**	**Lead**	**Mercury**
P01	White	<50 ug/g	<5 ug/g	<2 ug/g
P02	Grey	<50 ug/g	689 ug/g	<2 ug/g

QUANTITY OF MERCURY-CONTAINING TUBES:	**32**	PCB CONTAINING BALLAST PRESENT:	**16**

SILICA CONTAINING- MATERIAL :	

OBSERVATION SUMMARY:

- 1 ABC Fire Extinguisher

Remediation Action:

EGBERT – Clean Air Building

OESN Project Number: 00603.003

Room Number: 1002

Room Name: Storage Room

ASBESTOS SUMMARY				
Building Component	**Sample Code**	**Material Description**	**Result**	**Approximate Quantity**
Flooring	HF-01	12” Vinyl Floor Tile White w/ Red Fleck	None Detected	210 SF
Walls	W02	Gypsum w/ Compound	None Detected	
Ceiling	HC-01	2’x4’ LAC – Large Strata w/ Dots	None Detected	210 SF
Thermal				
Other	HM-01	Base Cove – Beige	None Detected	35 LF

SURFACE COATINGS (PAINT) SUMMARY				
Sample Code	**Sample Description**	**Arsenic**	**Lead**	**Mercury**
P01	White	<50 ug/g	<5 ug/g	<2 ug/g
P02	Grey	<50 ug/g	689 ug/g	<2 ug/g

QUANTITY OF MERCURY-CONTAINING TUBES:	**4**	PCB CONTAINING BALLAST PRESENT:	**2**

SILICA CONTAINING- MATERIAL :	

OBSERVATION SUMMARY:
Water staining on Lay-in Acoustic Ceiling Tile

Remediation Action:

EGBERT – Clean Air Building

OESN Project Number: 00603.003

Room Number: 1003

Room Name: Lab 2

ASBESTOS SUMMARY				
Building Component	**Sample Code**	**Material Description**	**Result**	**Approximate Quantity**
Flooring	HF-02	12” Vinyl Floor Tile Beige w/ Grey/White Fleck	None Detected	450 SF
Walls	HW-01	W03 - Gypsum w/ Compound	None Detected	
Ceiling	HC-02	2’x4’ Lay-in Acoustic Ceiling Tile Large Fissure w/ Dots	None Detected	450 SF
Thermal				
Other	HM-01	Base Cove – Beige	None Detected	40 LF
	HM-02	Base Cove - Black	None Detected	40 LF

SURFACE COATINGS (PAINT) SUMMARY				
Sample Code	**Sample Description**	**Arsenic**	**Lead**	**Mercury**
P01	White	<50 ug/g	<5 ug/g	<2 ug/g
P02	Grey	<50 ug/g	689 ug/g	<2 ug/g

QUANTITY OF MERCURY-CONTAINING TUBES:	**24**	PCB CONTAINING BALLAST PRESENT:	**12**

SILICA CONTAINING- MATERIAL :	

OBSERVATION SUMMARY:
Minor water staining on lay-in acoustic ceiling tile

Remediation Action:

EGBERT – Clean Air Building

OESN Project Number: 00603.003

Room Number: 1004

Room Name: Vestibule

ASBESTOS SUMMARY				
Building Component	**Sample Code**	**Material Description**	**Result**	**Approximate Quantity**
Flooring	HF-02	12” Vinyl Floor Tile Beige w/ Grey/White Fleck	None Detected	45 SF
Walls	HW-01	W04 - Gypsum board and compound	None Detected	
Ceiling	HC-02	2’x4’ Lay-in Acoustic Ceiling Tile Large Fissure w/ Dots	None Detected	45 SF
Thermal				
Other	HM-01	Base Cove – Beige	None Detected	15 LF

SURFACE COATINGS (PAINT) SUMMARY				
Sample Code	**Sample Description**	**Arsenic**	**Lead**	**Mercury**
P01	White	<50 ug/g	<5 ug/g	<2 ug/g
P02	Grey	<50 ug/g	689 ug/g	<2 ug/g

QUANTITY OF MERCURY-CONTAINING TUBES:	**2**	PCB CONTAINING BALLAST PRESENT:	**1**

SILICA CONTAINING- MATERIAL :	

OBSERVATION SUMMARY:

- 1 Fire Extinguisher ABC (Dry)
- 1 thermostat may be mercury

Remediation Action:

EGBERT – Clean Air Building

OESN Project Number: 00603.003

Room Number: 1005

Room Name: Electrical Room

ASBESTOS SUMMARY				
Building Component	**Sample Code**	**Material Description**	**Result**	**Approximate Quantity**
Flooring	HF-02	12” Vinyl Floor Tile Beige w/ Grey/White Fleck	None Detected	80 SF
Walls	HW-01	W05 - Gypsum w/ compound	None Detected	
Ceiling				
Thermal		N/A		
Other	HM-01	Base Cove – Beige		25 LF

SURFACE COATINGS (PAINT) SUMMARY				
Sample Code	**Sample Description**	**Arsenic**	**Lead**	**Mercury**
P01	White	<50 ug/g	<5 ug/g	<2 ug/g
P02	Grey	<50 ug/g	689 ug/g	<2 ug/g

QUANTITY OF MERCURY-CONTAINING TUBES:	**2**	PCB CONTAINING BALLAST PRESENT:	**1**

SILICA CONTAINING- MATERIAL :	

OBSERVATION SUMMARY:

- 2 Ballasts not hooked up
- 3 Transformers

Remediation Action:

EGBERT – Clean Air Building

OESN Project Number: 00603.003

Room Number: 1006

Room Name: Cadmon Room

ASBESTOS SUMMARY				
Building Component	**Sample Code**	**Material Description**	**Result**	**Approximate Quantity**
Flooring	HF-02	12” Vinyl Floor Tile Beige w/ Grey/White Fleck	None Detected	130 SF
Walls	HW-01	Gypsum w/ compound	None Detected	
Ceiling	HC-02	2’x4’ Lay-in Acoustic Ceiling Tile Large Fissure w/ Dots	None Detected	130 SF
Thermal		N/A		
Other	HM-01	Base Cove – Beige	None Detected	40 LF

SURFACE COATINGS (PAINT) SUMMARY				
Sample Code	**Sample Description**	**Arsenic**	**Lead**	**Mercury**
P01	White	<50 ug/g	<5 ug/g	<2 ug/g
P02	Grey	<50 ug/g	689 ug/g	<2 ug/g

QUANTITY OF MERCURY-CONTAINING TUBES:	**8**	PCB CONTAINING BALLAST PRESENT:	**4**

SILICA CONTAINING- MATERIAL :	

OBSERVATION SUMMARY:

- Minor staining on Lay-in Acoustic Ceiling Tile

Remediation Action:

EGBERT – Clean Air Building

OESN Project Number: 00603.003

Room Number: Exterior Roof

Room Name: Roof

ASBESTOS SUMMARY				
Building Component	**Sample Code**	**Material Description**	**Result**	**Approximate Quantity**
Flooring				
Walls				
Ceiling				
Thermal				
Other	HR-01	Roof Materials	None Detected	

SURFACE COATINGS (PAINT) SUMMARY				
Sample Code	**Sample Description**	**Arsenic**	**Lead**	**Mercury**

QUANTITY OF MERCURY-CONTAINING TUBES:		PCB CONTAINING BALLAST PRESENT:	

SILICA CONTAINING- MATERIAL :	

OBSERVATION SUMMARY:

Remediation Action: