



-FINAL-

**HAZARDOUS BUILDING MATERIALS SURVEY
CANADIAN FOOD INSPECTION AGENCY SPACE,
NORTHWEST ATLANTIC FISHERIES CENTRE, ST. JOHN'S
NEWFOUNDLAND AND LABRADOR**

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March 2013

AMEC Project No. TF13076482

IMPORTANT NOTICE

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EXECUTIVE SUMMARY

AMEC Environment & Infrastructure, a division of AMEC Americas Limited (AMEC), was retained by Public Works and Government Services Canada (PWGSC), on behalf of the Canadian Food Inspection Agency (CFIA), to conduct a Hazardous Building Materials Survey (HBMS) for the former CFIA Space located at the Northwest Atlantic Fisheries Center (NAFC), East White Hills Road, St. John's, Newfoundland and Labrador (NL), herein referred to as the "CFIA Space". The HBMS was requested to provide PWGSC and CFIA with an evaluation of known and potential hazardous building materials at the CFIA Space of the NAFC.

The Federal property located at 80 East White Hills Road contains the NAFC, a power plant, a freshwater pumping station, a sewage treatment plant, a saltwater pumphouse and a saltwater reservoir. Construction of the facility began in 1976. The property is owned and managed by PWGSC and is occupied by Fisheries and Oceans Canada (DFO), CFIA and PWGSC.

The CFIA Space is located within the east block of the NAFC. The east block section consists of six modules (M19, M21, N20, 021, 019 (102-104) and P20). The CFIA Space was formerly used by the CFIA for office and laboratory space for testing on food, plants and soil. Presently, the CFIA is being relocated to another location and the CFIA Space is currently unoccupied.

The objective of the HBMS was to identify the type and location of potential and confirmed hazardous building materials within the CFIA Space. The scope of work included:

- Conducting a walk-through inspection of the CFIA Space to identify the potential and/or actual presence of hazardous building materials.
- Inspecting the CFIA Space for evidence of areas that are impacted by suspected visible mould growth (SVG). If suspected mould is present, sampling and laboratory testing of the suspected mould growth to confirm the presence of mould.
- Inspecting the CFIA Space for areas where chemicals may collect (i.e. fume hoods and/or laboratory drains) and for stained areas on building materials which could be the result of spilled chemicals.
- Sampling and laboratory testing of suspected asbestos-containing materials (ACMs) to confirm the presence or absence of asbestos fibres.
- Sampling and laboratory testing of paint to determine the concentrations of lead, mercury and polychlorinated biphenyls (PCBs).
- Inspecting all thermostats to assess the presence/absence of mercury-containing switches.
- Preparing a written report documenting the methodologies and findings of the HBMS.

It is important to note that inspecting light ballasts for PCBs was removed from the scope of work as per PWGSC's authorization, as a qualified tradesperson was not available at the time of the investigation to de-energize and carry out appropriate lockout procedures for the light ballast visual inspection.

Conclusions and recommendations made with respect to the potential and actual presence of hazardous building materials at the CFIA Space at the Site are summarized in Table E-1.

Table E-1: Summary of Findings

Findings	Conclusions	Recommendations
Asbestos-Containing Materials (ACMs)	<ul style="list-style-type: none"> Results of the current and previous asbestos sampling and analytical programs revealed that there are building materials containing greater than 1% asbestos by dry weight, which are considered to be ACMs: <ul style="list-style-type: none"> Friable and potentially friable asbestos is present in the form of texture coat (stucco) and drywall joint compound. Non-friable asbestos is present in the form of vinyl floor tiles and cement board (transite) and tar undercoating on sinks. Results of the current asbestos sampling and analytical program also revealed that there are building materials containing 1% asbestos by dry weight: <ul style="list-style-type: none"> These materials included large fissure and pinhole pattern ceiling tile (2' x 4'). Due to the potentially friable nature of ceiling tile, it is recommended that this type of ceiling tile be treated as asbestos-containing. Other potential ACMs were observed and were not sampled due to the nature of the materials or due to a previous asbestos sampling and analytical program conducted by All-Tech in 2002. These materials included, but are not limited to, electrical and mechanical components and insulators such as wiring and gaskets inside electrical panels, electronic and/or mechanical equipment. Other possible hidden and inaccessible ACMs have the potential to be present at the CFIA Space but were not identified during the Site visits. These possible ACMs could include fire doors or other fire rated structures or building materials. 	<ul style="list-style-type: none"> If other potential ACMs that could not be sampled as part of this assessment due to access issues are encountered in the future, these materials should be treated as ACMs or samples should be collected and tested to verify asbestos content. This should be done as soon as these materials are encountered and before these materials are disturbed. This includes materials that are currently concealed by walls and ceiling systems. In accordance with the NL Asbestos Abatement Regulations (Reg. 111/98), which provide the legislative requirements for safe handling of ACMs in workplaces in the Province of NL, the following is recommended: <ul style="list-style-type: none"> Safe work procedures shall be established; All buildings constructed during the period when asbestos was readily used in construction must have a written assessment and management plan (where applicable) for potential ACMs; and, Prior to general disturbance activity (e.g., demolition, renovation or removal), all ACMs must be safely removed from the CFIA Space and disposed of in accordance with appropriate environmental guidelines by a asbestos abatement contractor registered with the Department of Labour, Occupational Health and Safety Branch. ACMs in good condition should be inspected on an annual basis. ACMs in poor condition should be removed from the CFIA Space and transported off-site for proper disposal in accordance with the Asbestos Abatement Regulations (111/98).

Findings	Conclusions	Recommendations
<p>Lead, Mercury and PCBs in Paint</p>	<ul style="list-style-type: none"> Results of the paint sampling and analytical program revealed lead and mercury-based paint finishes within CFIA Space (i.e., the concentrations of lead and mercury in some paint finishes were above the applicable Federal Hazardous Products Act [HPA] criteria of 90 mg/kg for lead and 10 mg/kg for mercury). <ul style="list-style-type: none"> The concentrations of lead in the paint samples ranged from non-detect (<5.0 mg/kg) to 930 mg/kg and the concentrations of mercury in the paint samples ranged from non-detect (<1.0 mg/kg) to 21 mg/kg. All of the paint samples analyzed for PCBs were non-detect (<5.0 mg/kg) and therefore did not exceed the CCME CSQG of 33 mg/kg for PCBs in soil at a commercial site or the criterion for PCB solid (50 mg/kg) provided in the provincial guidance document for leachable toxic waste (GD-PPD-26.1). 	<ul style="list-style-type: none"> Paint finishes with a lead concentration of less than 5,000 mg/kg or a mercury concentration of less than 24 mg/kg are not likely to be leachable and therefore may be disposed of at an approved landfill facility, pending landfill and regulatory approval. <ul style="list-style-type: none"> Based on the results from the paint samples analyzed during this assessment, all paint finishes that were sampled for lead and mercury in paint are not considered hazardous waste and may be disposed of at an approved landfill facility, pending regulatory and landfill operator approval. If potential lead or mercury containing paint finishes that were not sampled during this assessment are encountered, samples should be obtained and tested to verify lead and mercury content. This should be done as soon as the paint is encountered and before it is disturbed. This includes materials that are currently concealed by walls and ceiling systems. There are potential adverse human health impacts associated with disturbing (e.g., scraping) lead and mercury-based paint finishes. As a precautionary measure, AMEC recommends proper maintenance of lead and mercury-based paint finishes, as follows: <ul style="list-style-type: none"> Where lead and mercury-based paint finishes are in good condition (i.e., intact and not peeling or flaking) the surfaces can be covered by painting with non lead or non mercury-containing paint. In areas of minor peeling or flaking the paint should be removed using wet scraping techniques and the surface should then be repainted with non lead or non mercury-containing paint. In areas of extensive peeling and flaking the paint should be removed and more extensive particulate control measures may be required. In areas where lead or mercury-based paint finishes are present and in poor condition, an experienced contractor should be utilized for painting, renovation or decommissioning/demolition activities.

Findings	Conclusions	Recommendations
Lead, Mercury and PCBs in Paint		<ul style="list-style-type: none"> Steps should be taken to ensure that workers and anyone present in and around areas being renovated, dismantled or demolished are protected. The contractor should also ensure that dust generation and migration is minimized.
Urea formaldehyde foam insulation (UFFI)	<ul style="list-style-type: none"> Visual indicators suggesting the potential presence of UFFI were not observed at the CFIA Space. The nature of the insulation in the walls and ceilings throughout the CFIA Space could not be confirmed at the time of the Site inspections. However, fiberglass insulation was observed above the acoustic ceiling tiles in O21-101 and M19-102. Since the NAFC was constructed in 1976, it is possible that UFFI may be present in some areas of the CFIA Space. 	<ul style="list-style-type: none"> Based on a visual nonintrusive inspection, there was no evidence that UFFI is present in the CFIA Space. However, the inferred age of the NAFC suggests that UFFI could be present within the walls which could not be visually inspected. Based on the sources of information reviewed by AMEC to assess whether UFFI is considered to be a potential environmental concern at the CFIA Space (refer to Sections 3.3 and 4.3), it can be inferred that any UFFI present within the CFIA Space is unlikely to affect the indoor air quality due to the amount of time that has passed since the insulation was likely installed (i.e. prior to 1980) along with the likelihood that formaldehyde has off-gassed over this period of time. It should be noted that, the presence and concentration of formaldehyde cannot be determined or quantified without conducting Site-specific testing for formaldehyde.
Mould	<ul style="list-style-type: none"> Areas of SVG and water staining were observed on walls under some sinks, on some acoustic ceiling tiles and on some areas of unfinished drywall (ceiling and walls). Results of the mould sampling program revealed that abundant mould growth was present in the sample collected from N20-119. It is important to note that several areas within the CFIA Space contain cooling and refrigeration rooms constructed of insulated panels. It has been AMEC's experience with similarly constructed coolers and freezers that water intrusion into hidden areas behind these panels can sometimes occur and result in mould growth. 	<ul style="list-style-type: none"> If the cooling and refrigeration rooms in the CFIA Space are removed or dismantled, it is recommended that any contractors working in these areas be advised of potential mould and if encountered, further assessment will be required to determine the extent and possible remediation of the mould impacted materials. Building materials with water damage or mould growth (suspected or confirmed) observed within the areas assessed should be remediated using abatement procedures as described in the 2010 EACO Mould Abatement Guidelines. The level of work precautions presented in these guidelines depend on the extent of building materials supporting visible mould growth as well as the estimated extent of hidden mould growth supporting material. The levels of work practise are described as Level 1 (small isolated area) for areas less than 1 m², Level 2 (medium area) for areas 1-10 m² or less than 1 m² in HVAC systems, Level 3 (large area) is described as more than 10 m² or more than 1 m² in HVAC systems.

Findings	Conclusions	Recommendations
Mould		<ul style="list-style-type: none"> It is difficult to estimate the areas of mould impacted materials at the CFIA Space, due to limitations imposed by the presence of heating and water distribution systems and insulated wall panels in cooling and refrigeration areas. A remediation work plan should be designed and supervised by a qualified professional and should be undertaken by qualified trades, in accordance with applicable standards. It is recommended that only experienced, trained and qualified mould abatement personnel conduct mould abatement activities.
Potential Hazardous Chemicals	<ul style="list-style-type: none"> It is difficult to collect sufficient samples and/or sufficient sample volume to confirm the content of possible unknown residual/waste chemicals (i.e. dust, staining and liquid) that may be present in laboratory fume hood ductwork and fume hood/sink drainage piping at the CFIA Space, due to access limitations since this residual waste is located in potentially stagnant areas inside the drainage piping and ductwork systems. 	<ul style="list-style-type: none"> It is recommended that a certified hazardous waste disposal contractor be retained to flush and/or clean the piping/ductwork and properly dispose of any residual/waste chemicals prior to decommissioning the laboratory fume hoods, sinks and associated ductwork and/or drainage piping at the CFIA Space. It is important to note that these recommendations should also be followed for any laboratory fume hoods, sinks and/or associated ductwork and/or drainage piping not inspected and/or not identified by AMEC during the visual inspection of the CFIA Space.
Lead and Mercury-Containing Equipment	<ul style="list-style-type: none"> Mercury may be present in thermostats that were not accessible during the thermostat inspection. Suspected mercury-containing fluorescent light tubes were observed throughout the CFIA Space. Several potential lead-acid battery containing devices (i.e., emergency light fixtures) were noted inside the CFIA Space at the time of the Site inspections. 	<ul style="list-style-type: none"> Mercury-containing thermostat tubes (if present) and fluorescent light tubes should be removed intact and returned to the manufacturer for recycling, or disposed of at an approved facility. The disturbance, control or disposal of lead-containing material/equipment (e.g., solder on copper piping, batteries, etc.) or mercury-containing material/equipment (e.g., thermostats, light tubes) should be carried out in accordance with applicable criteria/regulations (refer to Section 2.0). The presence/absence of lead or mercury in these materials should be confirmed through a mechanical contractor or consultant prior to disturbance or disposal of these materials. Typically these materials are sent to a recycling facility and not a landfill. Removal of lead-containing batteries should be completed in a manner that ensures structural integrity and no loss of fluid from the batteries. Disposal of lead-containing batteries should be completed in accordance with hazardous waste procedures/guidelines (i.e. at an approved facility).

Findings	Conclusions	Recommendations
Lead and Mercury-Containing Equipment	<ul style="list-style-type: none"> Samples of the drinking water at the CFIA Space were not collected or analyzed during this assessment for the presence of lead. Based on the reported date of construction of the NAFC (i.e. 1976), lead in drinking water may be a potential issue since the lead content in solders and fluxes was not limited to 0.2% in potable water systems until 1990 (National Plumbing Code of Canada). 	<ul style="list-style-type: none"> The Health Canada Guidelines for Canadian Drinking Water Quality includes maximum acceptable concentrations of various chemical parameters in drinking water, including lead. If lead solder is present in the potable water systems, lead concentrations in drinking water can typically be reduced to acceptable levels by running the cold water tap for five to ten minutes prior to use. A water bottle cooler, which is likely used by staff for drinking water, was observed in O19-101 near the male and female washrooms at the time of the Site inspections.
PCB-Containing Equipment	<ul style="list-style-type: none"> Fluorescent light fixtures were observed throughout the CFIA Space. Based on the reported date of construction of the NAFC (i.e., 1976), the light ballasts in the CFIA Space may contain PCBs since the use of PCBs in light ballasts was not discontinued until the early 1980s. 	<ul style="list-style-type: none"> The PCB content in all light ballasts should be confirmed prior to disposal. Any leaking light ballasts identified, whether PCB containing or not, should be removed and replaced to avoid potential concerns with electrical equipment in the future. All ballasts that are removed should be placed in a proper storage container(s). Leaks or stained areas should be cleaned and/or removed in accordance with applicable regulations or industry standards. All PCB-containing equipment (if present) should be handled, decontaminated, transported and disposed of as per current Federal and Provincial acts and regulations. Any PCB-containing equipment requiring removal from the Site buildings should be transported and disposed of by a registered hazardous waste transporter in accordance with applicable regulations.
Potential Sources of ODS	<ul style="list-style-type: none"> Potential sources of ODSs identified during this assessment included a portable air conditioning unit, eight (8) cooling units, three (3) laboratory refrigeration units and three (3) domestic refrigerators. The types of refrigerants were not confirmed for the air conditioning unit, one (1) of the eight (8) cooling units, the laboratory refrigeration units and the domestic refrigerators at the time of this assessment. 	<ul style="list-style-type: none"> All ODSs should be removed by an approved contractor prior to disposing of the cooling and refrigeration units from the CFIA Space. The use, storage, operation, maintenance, decommissioning, and disposal of ODS containing equipment in general is regulated at both a Provincial and Federal level and must comply with the most recent NL Halocarbon Regulations and the Federal Halocarbon Regulations. The status of the potential ODS containing equipment should be confirmed through a mechanical contractor or consultant.
Silica Dust	<ul style="list-style-type: none"> Silica is expected to be present in concrete, bricks and mortar at the CFIA Space. 	<ul style="list-style-type: none"> Precaution should be taken to prevent/reduce exposure to silica dust during any disturbance/demolition of silica-containing products, such as wetting the surface of the materials to prevent dust emissions, donning respiratory protection, and cleaning tools and clothing prior to exiting the work area.

TABLE OF CONTENTS

1.0	INTRODUCTION.....	1
1.1	Site Description	1
1.2	Background Information	1
1.3	Objectives and Scope of Work	2
2.0	ENVIRONMENTAL REGULATORY FRAMEWORK.....	3
2.1	Selection of Guidelines/Standards	4
2.1.1	Asbestos-Containing Materials	4
2.1.2	Lead in Paint	4
2.1.3	Mercury in Paint	5
2.1.4	PCBs in Paint	5
2.1.5	Mould.....	5
3.0	METHODOLOGY.....	6
3.1	Asbestos Sampling and Laboratory Analytical Program	6
3.2	Paint Sampling and Laboratory Analytical Program.....	7
3.3	Inspection for Urea Formaldehyde Foam Insulation (UFFI)	7
3.4	Inspection for Suspected Visible Mould Growth (SVG).....	8
3.5	Inspection of Chemical Use Areas	8
3.6	Inspection of Thermostats for Mercury-Containing Switches	8
3.7	Documentation of Potential Sources of ODSS	9
3.8	Documentation of Other Potentially Hazardous Building Materials.....	9
3.9	Quality Assurance/Quality Control (QA/QC) Program.....	9
4.0	FINDINGS	10
4.1	Asbestos-Containing Materials (ACMs)	10
4.1.1	Friable Materials.....	10
4.1.1.1	Spray-Applied Fireproofing, Insulation and Texture Finishes.....	10
4.1.2	Non-Friable and Potentially Friable Materials	11
4.1.2.1	Ceiling Tile	11
4.1.2.2	Drywall Joint Compound	11
4.1.2.3	Vinyl Flooring Products and Mastics	12
4.1.2.4	Baseboard, Carpet and Stair Tread Adhesives/Mastics	13
4.1.2.5	Roofing Products.....	13
4.1.2.6	Thermal System Insulation.....	14
4.1.2.7	Weather Stripping and Caulking	14
4.1.2.8	Mortar, Grout and Other Cementitious Materials	15
4.1.2.9	Other Potential ACMs	15
4.2	Paint Finishes.....	16
4.2.1	Lead in Paint	16
4.2.2	Mercury in Paint	16
4.2.3	PCBs in Paint	16
4.3	Urea Formaldehyde Foam Insulation (UFFI).....	17
4.4	Suspected Visible Mould Growth (SVG)	17
4.5	Potential Hazardous Chemicals	18
4.6	Mercury-Containing Thermostats	18
4.7	Potential Sources of ODSS	19
4.8	Other Potentially Hazardous Building Materials or Products	20
4.8.1	Mercury	20

4.8.2	Lead	20
4.8.3	Silica	20
4.9	QA/QC Discussion	20
4.9.1	Surrogate Recoveries	21
4.9.2	Laboratory Blank Samples	21
4.9.3	Laboratory Duplicates	21
4.9.4	Summary of QA/QC Discussion	21
5.0	CONCLUSIONS AND RECOMMENDATIONS	21
6.0	CLOSURE	27
7.0	REFERENCES	29

APPENDICES

Appendix A: Figures
Appendix B: Photographic Record
Appendix C: Sample and Analytical Summary Tables
Appendix D: Laboratory Certificates of Analyses
Appendix E: Room-By-Room Inspection Sheets
Appendix F: Newalta Client Inventory Form
Appendix G: Report Limitations

LIST OF TABLES

Table E-1: Summary of Findings	iii
Table 1: Ceiling Tile Descriptions	11
Table 2: Vinyl Floor Tile Descriptions	12
Table 3: Thermostat Descriptions	19

1.0 INTRODUCTION

AMEC Environment & Infrastructure, a division of AMEC Americas Limited (AMEC), was retained by Public Works and Government Services Canada (PWGSC), on behalf of the Canadian Food Inspection Agency (CFIA), to conduct a Hazardous Building Materials Survey (HBMS) for the former CFIA Space located at the Northwest Atlantic Fisheries Center (NAFC), East White Hills Road, St. John's, Newfoundland and Labrador (NL), herein referred to as the "CFIA Space" (refer to Figure 1 and 2, Appendix A and Photo 1, Appendix B). The HBMS was requested to provide PWGSC and CFIA with an evaluation of known and potential hazardous building materials at the CFIA Space of the NAFC.

1.1 SITE DESCRIPTION

The Federal property located at 80 East White Hills Road contains the NAFC, a power plant, a freshwater pumping station and a sewage treatment plant, a saltwater pumphouse and a saltwater reservoir (refer to Figure 1, Appendix A). Construction of the facility began in 1976. The property is owned and managed by PWGSC and is occupied by Fisheries and Oceans Canada (DFO), CFIA and PWGSC.

The CFIA Space is located within the east block of the NAFC (refer to Figure 2, Appendix A and Photo 1, Appendix B). The east block section consists of six modules (M19, M21, N20, 021, 019 (102-104) and P20) (refer to Figure 3, Appendix A). The CFIA Space was formerly used by the CFIA for office and laboratory space for testing on food, plants and soil. Presently, the CFIA is being relocated to another location and the CFIA Space at the NAFC is currently unoccupied.

The CFIA space consists of a single level, steel frame structure with poured concrete floors. The exterior of the CFIA Space consists of brick, metal framed windows and concrete (refer to Photo 1, Appendix B). The exterior walls are constructed of wood, concrete and painted/unpainted concrete masonry block. The interior walls and wall finishes consist of painted/unpainted concrete masonry block, painted cement wall sheeting, painted/unpainted drywall, painted metal, painted wooden/metal door frames, painted wooden/metal trim around windows and doors and vinyl baseboards.

The ceilings and ceiling finishes consist of acoustic ceiling tile, painted metal, stucco and painted drywall. The floors and floor finishes consist of painted/unpainted concrete and levelling compound, concrete floor coating, vinyl floor tile, vinyl flooring, carpet (and carpet tiles) and ceramic floor tiles.

Interior lighting consists of fluorescent, incandescent and emergency back-up lights. The Site building is heated by baseboard electrical heaters.

1.2 BACKGROUND INFORMATION

Based on a review of the 2002 All-Tech Environmental Services Limited (All-Tech) Asbestos Assessment report, the following asbestos containing materials (ACMs) were previously identified in the CFIA Space:

Modules M19, M21, and O21

- Drywall joint compound

Modules N20

- Drywall joint compound
- Texture coat (stucco)
- Cement board (transite) on fume hoods
- Tar undercoating on sinks

Modules P20

- Drywall joint compound
- Texture coat (stucco)

1.3 OBJECTIVES AND SCOPE OF WORK

The objective of the HBMS was to identify the type and location of potential and confirmed hazardous building materials within the CFIA Space. The scope of work, as per AMEC Proposal Number P3956 (*Proposal for Professional Consulting Services, Hazardous Building Materials Survey, Canadian Food Inspection Agency Space, Northwest Atlantic Fisheries Centre, St. John's, NL*), included:

- Conducting a walk-through inspection of the building materials within the CFIA Space to identify the potential and/or actual presence of hazardous building materials including:
 - ACMs;
 - Lead-based paint (LBP);
 - Mercury-based paint (MBP);
 - Polychlorinated biphenyls (PCB) based paint;
 - Urea formaldehyde foam insulation (UFFI);
 - Sources of ozone depleting substances (ODSs);
 - Sources of polycyclic aromatic hydrocarbons (PAHs); and
 - Other potentially hazardous building materials.
- Inspecting the CFIA Space for evidence of areas that are impacted by suspected visible mould growth (SVG). If suspected mould is present, the location, extent and substrate will be noted. A sample of the suspected mould growth will be collected to confirm the presence or absence of mould.
- Inspecting the CFIA Space for areas where chemicals may collect (i.e. fume hoods and/or laboratory drains) and for stained areas on building materials which could be the result of spilled chemicals. If observed, locations will be documented and any chemicals stored in the vicinity of these areas will be inventoried.
- Sampling and laboratory testing of suspected ACMs within the CFIA Space to confirm the presence or absence of asbestos fibres.

- Sampling and laboratory testing of paint within the CFIA Space to determine the concentrations of lead, mercury and PCBs.
- Inspecting all thermostats within the CFIA Space to assess the presence/absence of mercury-containing switches.
- Preparing a written report documenting the methodologies and findings of the HBMS.

The original scope of work included inspecting fluorescent lights (if present) within the CFIA Space for PCB-containing light ballasts; however, a qualified tradesperson was not available at the time of the investigation to de-energize and carry out appropriate lockout procedures for the light ballast visual inspection. Therefore, inspecting light ballasts for PCBs was removed from the scope of work as per PWGSC's authorization.

The findings of the investigation were based on the interpretation of data from the areas investigated and analytical results pertaining to specific samples collected and tested. It is possible that materials exist that could not be reasonably identified within the scope of the work or which were not apparent or accessible during the Site visits. Intrusive cavity inspections to investigate the presence or absence of hazardous buildings materials were not performed.

2.0 ENVIRONMENTAL REGULATORY FRAMEWORK

The federal and provincial governments in Canada have prepared and/or adopted numerous acts (and amendments), regulations (and amendments), guidelines, policies, and procedures related to the protection of the environment and the investigation of sites containing hazardous building materials including the following:

- Canadian Council of Ministers of the Environment (CCME) Canadian Environmental Quality Guidelines
 - Canadian Soil Quality Guidelines for the Protection of Environmental and Human Health
- Canadian Environmental Protection Act (1999, C. 33)
 - PCB Waste Export Regulations (SOR/97-109)
 - PCB Regulations (SOR/2008-273)
 - Regulations Amending the PCB Regulations (SOR/2010-57)
 - Interprovincial Movement of Hazardous Waste Regulations (SOR/2002-301)
 - Federal Halocarbon Regulations (SOR/2003-289)
 - Export and Import of Hazardous Waste and Hazardous Recyclable Material Regulations (SOR/2005-149)
- Federal Hazardous Products Act (R.S., 1985, c. H-3)
 - Surface Coating Materials Regulations (SOR/2005-109)
 - Regulations Amending the Surface Coating Materials Regulations (SOR/2010-224)
- Federal Transportation of Dangerous Goods Act (1992, c. 34)

- Transportation of Dangerous Goods Regulations (SOR/2012-245)
- Health Canada Guidelines for Canadian Drinking Water Quality (Summary Table, 2012)
- National Plumbing Code of Canada (National Research Council Canada)
- NL Environmental Protection Act (SNL2002 cE-14.2)
 - Storage of PCB Wastes Regulations (61/03)
 - Halocarbon Regulations (41/05)
- NL Dangerous Goods Transportation Act (RSNL1990 Chapter D-1)
 - Dangerous Goods Transportation Regulations (5/96)
- NL Department of Environment, Pollution Prevention Division, Guidance Document: Leachable Toxic Waste, Testing and Disposal (2003, GD-PPD-26.1)
- NL Department of Environment and Conservation, Guidance Document for the Management of Impacted Sites (2005, Version 1.01)
- NL Occupational Health and Safety Act (RSNL1990 Chapter O-3)
 - Occupational Health and Safety Regulations (5/12)
 - Asbestos Abatement Regulations (111/98)

AMEC has considered the above documents in conducting this HBMS.

2.1 SELECTION OF GUIDELINES/STANDARDS

Based on the past and projected future Site use activities, the CFIA Space is considered to be zoned commercial.

2.1.1 Asbestos-Containing Materials

Analytical results for asbestos in building materials were compared to the NL Asbestos Abatement Regulations (111/98) under the Occupational Health and Safety Act. Under these regulations, materials containing greater than 1% asbestos by dry weight are considered to be ACMs and should be managed in accordance with the applicable regulations.

2.1.2 Lead in Paint

Analytical results for lead in paint were compared to the current and former Federal Hazardous Products Act (HPA) criteria of 90 mg/kg and 5,000 mg/kg, respectively. Under the Act, the lead content limit was reduced from 5,000 mg/kg to 600 mg/kg in 2005 for surface coating materials used in or around the home or other premises where children may become exposed. In 2010, the lead content limit was further reduced from 600 mg/kg to 90 mg/kg.

In order to determine disposal options, should disposal be required, the former Federal HPA criterion of 5,000 mg/kg lead in paint is typically used as a Provincial disposal guideline to determine whether or not the paint chip samples would be submitted for leachate analysis. Paint chip samples that contain less than 5,000 mg/kg are not likely to be leachable and

therefore may be disposed of at an approved landfill facility, pending landfill and regulatory approval. Paint samples with lead concentrations in excess of 5,000 mg/kg should be subjected to leachability testing. The NL Department of Environment, 2003 Guidance Document for Leachable Toxic Waste, Testing and Disposal (GD-PPD-26.1) guideline of 5.00 mg/L lead should be used to assess the results of the leachability testing to determine disposal options for any lead-containing paint to be removed during any disturbance, demolition or renovation activities at the CFIA Space.

2.1.3 Mercury in Paint

Analytical results for mercury in paint were compared to the Federal HPA criterion. The maximum acceptable concentration of mercury in paint, under the HPA, is 0.001 percent (equivalent to 10 mg/kg) in or around the home or other premises where children or pregnant women may become exposed.

In order to determine disposal options, should disposal be required,, concentrations of mercury in paint were also compared to the CCME Canadian Soil Quality Guidelines (CSQG) for mercury in soil at a commercial site (24 mg/kg). The CCME CSGQ for mercury in soil is typically used as a Provincial disposal guideline to determine whether or not the paint chip samples would be submitted for leachate analysis. Paint samples with a mercury concentration of less than 24 mg/kg are not likely to be leachable and therefore may be disposed of at an approved landfill facility, pending landfill and regulatory approval. Paint samples with a mercury concentration exceeding 24 mg/kg should be subjected to leachability testing. The NL Department of Environment, 2003 Guidance Document for Leachable Toxic Waste, Testing and Disposal (GD-PPD-26.1) guideline of 0.10 mg/L mercury should be used to assess the results of the leachability testing to determine disposal options for any mercury-containing paint to be removed during any disturbance, demolition or renovation activities at the CFIA Space.

2.1.4 PCBs in Paint

Analytical results for PCBs in paint were compared to the CCME CSQG of 33 mg/kg for PCBs in soil at a commercial site. The Federal HPA does not include any assessment criteria for PCBs in paint.

In order to determine disposal options, concentrations of PCBs in paint were also compared to the criterion for PCB solid (50 mg/kg) provided in the provincial guidance document for leachable toxic waste (GD-PPD-26.1) and the Federal Transportation of Dangerous Goods Regulations.

2.1.5 Mould

There are currently no regulations specifically covering exposure to mould and/or mould remediation practices in Canada. In addition, there are no occupational exposure limits that define acceptable levels of mould exposure without adverse health effects. However, Sections 4 and 42 of the NL Occupational Health and Safety Act and Regulations, respectively, states that an employer shall ensure, where it is reasonably practicable, the health, safety and welfare

of his or her workers and that an employer shall monitor the use or presence of substances at the workplace that may be hazardous to the health and safety of workers. This includes exposure to moulds and other biological matter. Two Canadian guidelines have recently been published that outline mould abatement. These documents were published by the Canadian Construction Association (CCA) and the Environmental Abatement Council of Ontario (EACO). Since there are no clear regulatory limits for determining an acceptable exposure limit to moulds, there is no numerical guideline for determining safe or unsafe concentrations of surface mould growth. Therefore, interpretation of sampling results is subjective. The guidelines listed below were used to evaluate the visual assessment and sampling results for mould:

- *"Mould Guidelines for the Canadian Construction Industry."* Canadian Construction Association, 2004.
- *"Mould Abatement Guidelines."* Environmental Abatement Council of Ontario (EACO), 2010.

3.0 METHODOLOGY

Site inspections and sampling for the investigation were conducted by AMEC personnel on January 31, February 1 and 4, 2013. Room-by-room inspection sheets are presented in Appendix E.

3.1 ASBESTOS SAMPLING AND LABORATORY ANALYTICAL PROGRAM

Building materials suspected of containing asbestos were sampled by removing a 2.0 cm by 2.0 cm piece of material (where possible) and placing the sampled materials into Ziploc[®] plastic bags. Sample locations of potentially friable ACMs were sealed with duct tape upon completion of sampling (i.e. pipe insulation, etc.).

Bulk building material samples were submitted to the EMSL Analytical, Inc. (EMSL) laboratory located in Mississauga, Ontario for the analysis of asbestos using Polarized Light Microscopy (PLM) with dispersion staining. The analysis was conducted in accordance with the USEPA Method *EPA 600/R-93/116 (Method for the Determination of Asbestos in Bulk Building Materials)*. EMSL is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) and the American Industrial Hygiene Association (AIHA) for bulk asbestos fibre analysis by PLM.

Findings of the asbestos sampling and analytical program are presented in Section 4.1. Sample locations and analytical results are graphically illustrated in Figure 3, Appendix A. Sample locations are also shown in Photos 2 to 67, Appendix B and sample descriptions and analytical results are also summarized in Table C-1, Appendix C. Laboratory certificates of analyses are provided in Appendix D.

3.2 PAINT SAMPLING AND LABORATORY ANALYTICAL PROGRAM

Paint samples were collected from painted surfaces by cutting and scraping areas of flaking paint using clean knives and scrapers. Samples were collected down to bare substrate (e.g., drywall, concrete and wood). A minimum of five grams (where possible) of paint was obtained from each sampling location and stored in Ziploc[®] plastic bags.

Paint samples were submitted to the Maxxam Analytics Inc. (Maxxam) laboratory located in Bedford, Nova Scotia for the analysis of lead, mercury and PCB content. The analysis was conducted in accordance with the EPA 6020A, method analysis for metals using inductively coupled plasma – mass spectrometry (ICP-MS). Maxxam is accredited under the Standards Council of Canada (SCC) to perform analysis of lead and mercury in paint samples.

Findings of the paint sampling and analytical program are presented in Section 4.2. Sample locations and analytical results are graphically illustrated in Figure 3, Appendix A. Sample locations are also shown in Photos 68 to 86, Appendix B and sample descriptions and analytical results are also summarized in Tables C-2 to C-4, Appendix C. Laboratory certificates of analyses are provided in Appendix D.

3.3 INSPECTION FOR UREA FORMALDEHYDE FOAM INSULATION (UFFI)

According to the USEPA and the US Department of Health and Human Services, Agency for Toxic Substances and Disease Registry (ATSDR), formaldehyde is a colourless, pungent-smelling gas that is commonly used in some manufactured building materials and household products such as particleboard, medium density fiberboard, fiberglass, plywood, carpets, fabrics, urea-formaldehyde resins, paints, paper, fertilizer, food preservatives, antiseptics, medicines and cosmetics. These agencies also state, that as a by-product of combustion, formaldehyde may also be released to indoor air environments by means of un-vented wood and fuel-burning appliances and tobacco smoke. According to the Canada Mortgage and Housing Corporation (CMHC), new carpets and composite wood products used in the present-day construction of buildings have the potential to increase the levels of formaldehyde in indoor air and are deemed to be the most likely sources of high formaldehyde levels in these newer and well-sealed buildings.

UFFI is a thermal insulation material that is pumped into interstitial spaces between the walls of buildings where it hardens to form a solid layer of insulation. UFFI is comprised of a cured mixture of urea-formaldehyde resin and compressed air. The sale and installation of UFFI was banned for health-related reasons in 1980 because of the formation of formaldehyde gas which is released from the UFFI to the building interior. Findings of the visual inspection for UFFI are presented in Section 4.3.

3.4 INSPECTION FOR SUSPECTED VISIBLE MOULD GROWTH (SVG)

Mould spores are present in all indoor environments and cannot be completely eliminated. Cellulose based building materials provide a nutrient base for many mould species; however, mould cannot grow unless an adequate amount of excess moisture is present.

The focus of the visual inspection included, but was not limited to, searching for visible signs of water staining, water damage, excess moisture, and/or infiltration; and signs of SVG and/or staining. In this report, term SVG refers to a smearable discoloration of surfaces differing from that of the natural substrate with observable fungal characteristics based on our experience evaluating similar building types. Bulk material samples were collected from areas of SVG to confirm the presence of mould growth.

Mould samples were collected by removing a 2.0 cm by 2.0 cm piece of material (where possible) from the area of SVG. The samples were stored in Ziploc™ plastic bags and labelled.

Suspected mould samples were submitted to EMC Scientific (EMC) laboratory located in Mississauga, Ontario for direct microscopic examination of mould to the genus level. EMC is an American Industrial Hygiene Association Environmental Microbiology Proficiency Analytical Testing (AIHA EMPAT) program participant.

Findings of the visual inspection for SVG and the mould sampling and analytical program are presented in Section 4.4. The sample location and analytical results are graphically illustrated in Figure 3, Appendix A. The sample location is also shown in Photo 87, Appendix B and the sample description and analytical results are summarized in Table C-5, Appendix C. The laboratory certificate of analyses is provided in Appendix D.

3.5 INSPECTION OF CHEMICAL USE AREAS

As part of the scope of work, AMEC visually inspected the CFIA Space for areas where chemicals may collect (i.e. fume hoods and/or laboratory drains) and for stained areas on building materials which could be the result of spilled chemicals. Where observed, locations were documented and any chemicals stored in the vicinity of these areas were inventoried. Findings of the visual inspection for potential hazardous chemicals (i.e. dust, staining, liquid) within laboratory fume hoods, sinks and associated ductwork and/or drainage piping at the CFIA Space are presented in Section 4.5.

3.6 INSPECTION OF THERMOSTATS FOR MERCURY-CONTAINING SWITCHES

Thermostats identified within the CFIA Space were visually inspected by removing the casings (if possible) and checking for the presence of mercury-containing switches. Findings of the thermostat inspection are presented in Section 4.6.

3.7 DOCUMENTATION OF POTENTIAL SOURCES OF ODSs

Potential sources of ODSs identified within the CFIA Space were documented during the Site investigation and are summarized in Section 4.7.

3.8 DOCUMENTATION OF OTHER POTENTIALLY HAZARDOUS BUILDING MATERIALS

During the Site inspection, other potentially hazardous building materials were observed and are documented in Section 4.8.

3.9 QUALITY ASSURANCE/QUALITY CONTROL (QA/QC) PROGRAM

Laboratory blanks and Quality Control (QC) standard samples were analyzed to assess the reliability of the paint analyses. In order to minimize cross contamination during sampling, a field Quality Assurance/Quality Control (QA/QC) program was followed, which included the following measures:

- Latex or nitrile gloves were worn during all sampling (new pair of gloves for each sample);
- All sampling equipment was thoroughly cleaned prior to sampling to ensure that samples were unaffected by cross-contamination from previous samples; and
- Each sample was photographed, given a unique sample ID and logged onto a chain of custody form before shipment to the laboratory.

The laboratories utilized have extensive QA/QC programs in place to ensure that reliable results are consistently obtained. Specific laboratory QA/QC measures include:

- Chain of Custody and sample integrity inspection;
- Strict documentation control and files;
- Trained personnel prepare and analyze samples according to Standard Operating Procedures;
- All analytical methods are based on accepted procedures and are fully validated prior to use;
- Precision is monitored by performing replicate analysis of samples;
- Accuracy is verified by analyzing spiked samples and reference materials;
- Instrument calibration integrity is ensured by analyzing calibration check standards within each run sequence;
- Extensive use is made of reference material for routine procedure evaluation;
- Highest available purity analytical standards;
- Predefined analytical sequences ensure all results are traceable to calibration and QC data;

- Hard copy reports displaying all of the required data are generated for each instrument;
- Analytical results are determined only from instrument responses that fall within the calibration range;
- Acceptable QC performance must be demonstrated prior to data authorization;
- On-going method and instrument performance records are maintained for all analysis; and,
- A full-time QA Scientist evaluates the QA program on an on-going basis.

4.0 FINDINGS

4.1 ASBESTOS-CONTAINING MATERIALS (ACMS)

There are over 3,000 ACMS that are commercially available, which can be divided into two broad categories: friable and non-friable. Friable ACMS are defined as materials that can be crumbled, pulverized and reduced to powder when dry using hand pressure. Typical friable materials include acoustical or decorative spray applications, fireproofing and thermal insulation. Non-friable ACMS are hard or manufactured products such as floor tiles, fire blankets, pre-formed manufactured cementitious insulation and wallboards, pipes, and siding, wherein the asbestos fibres are bound to the substrate.

Note that although a product may be considered non-friable when new, the product may release fine dust when disturbed (e.g., deterioration, removal, renovations) and the free dust is considered friable.

ACMS were discontinued from use in Canada in the late 1970s/early 1980s, although non-friable asbestos is still found in many more recent buildings.

A total of 66 building material samples (AS-01 to AS-66) were collected from the CFIA Space and analyzed for asbestos content (refer to Photos 2 to 67, Appendix B). Sample descriptions and analytical results are summarized in Table C-1, Appendix C. Sample locations and analytical results are graphically illustrated in Figure 3, Appendix A.

4.1.1 Friable Materials

4.1.1.1 Spray-Applied Fireproofing, Insulation and Texture Finishes

No spray-applied fireproofing was observed within the CFIA Space during the Site visits; therefore no samples were collected during this assessment.

One sample of stucco finish (AS-16) was collected in O19-104 and analyzed for asbestos content (refer to Photo 17, Appendix B). Asbestos was not detected in the stucco sample collected and submitted for analysis.

Texture coatings (i.e. stucco finishes) were sampled by All-Tech in 2002 and found to be asbestos containing in P20-122, P20-123, N20-100, N20-104 and N20-121A.

It should be noted that it is common for the asbestos content in troweled on materials, such as stucco finishes within an older building, to vary in concentration depending on the methods used to mix and place these materials. Due to this variability in asbestos content, the stucco finishes throughout the CFIA Space should be treated as an ACM.

4.1.2 Non-Friable and Potentially Friable Materials

4.1.2.1 Ceiling Tile

Various types of 2' x 4' and 2' x 2' acoustic ceiling tiles were observed in the Site building with various patterns. Five (5) ceiling tile samples (AS-03, AS-19, AS-21, AS-22 and AS-28) were collected from the CFIA Space and analyzed for asbestos content (refer to Photos 4, 20, 22, 23 and 29, Appendix B). Descriptions of the ceiling tiles and the results of the asbestos analysis are summarized in Table 1.

Table 1: Ceiling Tile Descriptions

Sample ID	Description	Location Observed	Condition	Area (Approx.)	Analytical Result	ACM (Yes/No)
AS-03 / AS-28	Acoustic ceiling tile (2' x 4') with large and small pinhole pattern.	N20-101,-103,-104,-114,-121; O19-101; O21-105; P20-101,-103,-121; M21-106; M19-101,-102,-103.	Good	598 m ²	No asbestos detected	No
AS-19	Acoustic ceiling tile (2' x 4') with large fissure and pinhole pattern.	M21-106; N20-108,-108A,-115,-116,-118,-120,-122,-123; O21-104; P20-111,-112.	Good	3,383 m ²	1.0 % Chrysotile	No
AS-21	Acoustic ceiling tile (2' x 2') with large pinhole pattern and a texture finish.	M21-106; N20-106; P20-106,-108,-109,-110.	Good	185 m ²	No asbestos detected	No
AS-22	Acoustic ceiling tile (2' x 2') with pinhole and fleck pattern.	P20-108,-109.	Good	36 m ²	No asbestos detected	No

Chrysotile asbestos (1%) was detected in sample AS-19 (i.e. 2' x 4' large fissure and pinhole pattern ceiling tile) at a level below the applicable NL Asbestos Abatement Regulations (111/98) (i.e. <1%). However, due to the potentially friable nature of ceiling tile sample AS-19, it is recommended that this material be treated as asbestos-containing. Asbestos was not detected in the other ceiling tile samples collected and submitted for analysis.

4.1.2.2 Drywall Joint Compound

Painted drywall was observed on the walls and ceilings in various areas throughout the CFIA Space. Eight (8) samples of drywall joint compound (AS-06, AS-11, AS-25, AS-38, AS-45, AS-51, AS-54 and AS-61) were collected and analyzed for asbestos content (refer to Photos 7, 12,

26, 39, 46, 52, 55 and 62, Appendix B). Chrysotile asbestos (ranging from 3% to 4%) was detected in samples AS-11, AS-45, AS-54 and AS-61 at levels above the applicable *NL Asbestos Abatement Regulations (111/98)* (i.e., <1%) and therefore this material (i.e., drywall joint compound) is considered to be an ACM.

Drywall joint compound was sampled by All-Tech in 2002 and also found to be asbestos containing in several areas of the CFIA Space.

It should be noted that it is common for the asbestos content in troweled on materials, such as drywall joint compound within older buildings, to vary in concentration depending on the methods used to mix and place these materials. Due to this variability in asbestos content, all drywall joint compound throughout the CFIA Space of the building should be treated as an ACM.

4.1.2.3 Vinyl Flooring Products and Mastics

Various types of 12" x 12" vinyl floor tiles were observed in the CFIA Space. Black/beige mastic was typically adhered to the underside of the vinyl floor tiles. Eight (8) samples of vinyl floor tiles (AS-09, AS-29, AS-41, AS-42, AS-49, AS-50, AS-58 and AS-65) were collected from the CFIA Space and analyzed for asbestos content (refer to Photos 10, 30, 42, 43, 50, 51, 59 and 66, Appendix B). Descriptions of the vinyl floor tiles and the results of the asbestos analysis are summarized in Table 2.

Table 2: Vinyl Floor Tile Descriptions

Sample ID	Description	Location Observed	Condition	Area (Approx.)	Analytical Result	ACM (Yes/No)
AS-09	Beige with purple streak pattern (12" x 12"), beige mastic.	N20-114	Good	5.6 m ²	No asbestos detected	No
AS-29	White with black streak pattern (12" x 12").	P20-102	Good	8 m ²	3 % Chrysotile	Yes
AS-41	Brown (12" x 12"), black mastic.	N20-108, -108A, -115, -119, -119A, -120.	Poor to Good	383 m ²	3 % Chrysotile	Yes
AS-42	White (12" x 12"), black mastic.	N20-118, -119, -119A, -120.	Unknown (covered by vinyl flooring)	Unknown (covered by vinyl flooring)	No asbestos detected	No
AS-49	Red (12" x 12"), black mastic.	N20-107	Unknown (covered by vinyl flooring)	Unknown (covered by vinyl flooring)	No asbestos detected	No
AS-50	Orange/brown (12" x 12"), black mastic.	N20-107	Unknown (covered by vinyl flooring)	Unknown (covered by vinyl flooring)	No asbestos detected	No
AS-58	Off-white with brown streak pattern (12" x 12").	N20-101; P20-101; M20-101	Good	315 m ²	No asbestos detected	No
AS-65	Off-white with grey fleck pattern (12" x 12").	P20-104; O21-104	Good	19 m ²	No asbestos detected	No

Chrysotile asbestos (3%) was detected in samples AS-29 and AS-41 at a level above the applicable *NL Asbestos Abatement Regulations (111/98)* (i.e., <1%) and therefore these materials (i.e. White with black streak pattern tiles and brown tiles with black mastic) are considered to be ACMs. AS-41 was encountered beneath vinyl floor tiles (i.e. brown with black mastic) in N20: 108, 108A, 115, 119, 119A and 120 and therefore the condition and quantity of this material is unknown. It should be noted that the brown floor tiles with black mastic was encountered beneath vinyl sheet flooring in some areas of the CFIA Space.

Some of the vinyl floor tiles identified and sampled during this assessment were hidden under newer flooring materials in the CFIA Space. It should be noted that other vinyl floor tiles or flooring materials and associated mastics may be present in other areas of the Site building which were not apparent or accessible during the Site visits.

Various types of vinyl flooring were observed in M19-102 and 103, P20: 101, 108 and 105, and N20-121/121A. Beige/grey mastic was typically adhered to the underside of the vinyl flooring. Six (6) samples of vinyl flooring and associated mastic (AS-01, AS-05, AS-23, AS-27, AS-37 and AS-64) were collected from the CFIA Space and analyzed for asbestos content (refer to Photos 2, 6, 24, 28, 38 and 65, Appendix B). Asbestos was not detected in any of the vinyl flooring and associated mastic samples collected and submitted for analysis.

4.1.2.4 Baseboard, Carpet and Stair Tread Adhesives/Mastics

Tan, black and grey vinyl baseboards were observed in various areas throughout the CFIA Space. Three (3) samples of vinyl baseboards and associated adhesive (AS-02, AS-24 and AS-33) were collected from M19-103, P20-108 and O21-101A and analyzed for asbestos content (refer to Photos 3, 25, and 34, Appendix B). Asbestos was not detected in the baseboard and associated adhesive samples collected and submitted for analysis.

Three types of commercial carpet were observed in various areas throughout the CFIA Space. Three (3) samples of carpet and associated adhesive (AS-32, AS-46 and AS-55) were collected from O21-101A, N20-108 and P20-119 and analyzed for asbestos content (refer to Photos 33, 47 and 56, Appendix B). Asbestos was not detected in the carpet and associated adhesive samples collected and submitted for analysis.

There were no stair tread adhesives/mastics observed in the CFIA Space during the Site visit. Therefore, no samples of these types of adhesives/mastics were collected for analysis during this assessment.

4.1.2.5 Roofing Products

The roof areas were not included in the scope of work; therefore, no samples of roofing materials were collected during this assessment.

4.1.2.6 Thermal System Insulation

Two (2) samples of yellow fibreglass insulation with foil covering (AS-04 and AS-63) were collected from ductwork in M19-103 and P20-101 and analyzed for asbestos content (refer to Photos 5 and 64, Appendix B). Asbestos was not detected in the ductwork insulation samples collected and submitted for analysis.

One (1) sample of yellow fibreglass insulation with cloth wrap (AS-08) was collected from straight run pipe insulation (approximately 4" diameter) in M19-101 and analyzed for asbestos content (refer to Photo 9, Appendix B). One (1) sample of yellow fibreglass insulation with foil covering and cloth wrap (AS-57) was collected from straight-run pipe insulation (approximately 3" diameter) in P20-123 and analyzed for asbestos content (refer to Photo 58, Appendix B). One sample of yellow fibreglass insulation with foil covering and cloth wrap (AS-59) was collected from straight-run pipe insulation (approximately 6" diameter) in N20-101 and analyzed for asbestos content (refer to Photo 60, Appendix B). One (1) sample of yellow fibreglass insulation with foil covering and cloth wrap (AS-60) was collected from straight-run pipe insulation (approximately 4" diameter) in N20-101 and analyzed for asbestos content (refer to Photo 61, Appendix B). Asbestos was not detected in the straight-run insulation samples collected and submitted for analysis.

Five (5) samples of parging with cloth wrap (AS-12, AS-30, AS-43, AS-48 and AS-56) were collected from pipe elbow insulation (approximately 3" diameter) in N20-109, O21-105, N20-125, P20-115 and P20-123 and analyzed for asbestos content (refer to Photos 13, 31, 44, 49 and 57, Appendix B). One (1) sample of parging with cloth wrap (AS-07) was collected from pipe elbow insulation (approximately 4" diameter) in M19-101 and analyzed for asbestos content (refer to Photo 8, Appendix B). One (1) sample of parging with cloth wrap (AS-62) was collected from pipe elbow insulation (approximately 6" diameter) in O19-101 and analyzed for asbestos content (refer to Photo 63, Appendix B). Asbestos was not detected in any of the pipe elbow parging samples collected and submitted for analysis.

One (1) sample of unknown cement-like covering with cloth wrap (AS-47) was collected from a pipe elbow insulation (approximately 3" diameter) in P20-115 and analyzed for asbestos content (refer to Photo 48, Appendix B). Asbestos was not detected in the cement-like pipe elbow covering with cloth wrap sample collected and submitted for analysis.

Pink fiberglass insulation was observed above the acoustic ceiling tiles in O21-101 and M19-102. A sample was not collected because of height limitations.

4.1.2.7 Weather Stripping and Caulking

One (1) sample of caulking (AS-10) was collected from the seams of metal sheet flooring in N20-113 and analyzed for asbestos content (refer to Photo 11, Appendix B). Asbestos was not detected in the caulking sample collected and submitted for analysis.

4.1.2.8 Mortar, Grout and Other Cementitious Materials

Four (4) samples of ceramic tile grout (AS-13, AS-15, AS-17 and AS-34) and one (1) sample of ceramic tile (AS-14) were collected in O19-102, O19-103, O19-104 and N20-104 and analyzed for asbestos content (refer to Photos 14, 15, 16, 18 and 35, Appendix B). Asbestos was not detected in any of the ceramic tile grout or ceramic tile samples collected and submitted for analysis.

One sample of white brick (AS-66) was collected from an oven in N20-120 and analyzed for asbestos content (refer to Photo 67, Appendix B). Asbestos was not detected in the oven white brick sample collected and submitted for analysis.

One (1) sample of floor leveling compound (AS-53) was collected in P20-125 and analyzed for asbestos content (refer to Photo 54, Appendix B). Asbestos was not detected in the cement floor leveling compound sample collected and submitted for analysis.

One (1) sample of concrete masonry block mortar (AS-35) was collected in M21-103 and analyzed for asbestos content (refer to Photo 36, Appendix B). Asbestos was not detected in the concrete masonry block mortar sample collected and submitted for analysis.

Three (3) samples of cement board (AS-20, AS-31 and AS-44) were collected in P20-113, O21-101 and M21-103 and analyzed for asbestos content (refer to Photos 21, 32 and 45, Appendix B). Chrysotile asbestos (ranging from 20% to 30%) was detected in samples AS-20 and AS-44 at levels above the applicable *NL Asbestos Abatement Regulations (111/98)* (i.e., <1%) and therefore this material (i.e. cement board (transite) in fume hoods and around ovens) is considered to be an ACM. Asbestos was not detected in the cement board sample collected in O21-101 (i.e. AS-31).

Cement board (transite) was sampled by All-Tech in 2002 and also found to be asbestos containing in the fume hoods in N20-121C.

4.1.2.9 Other Potential ACMs

Two (2) samples of light brown and brown concrete floor coating (AS-18 and AS-36) were collected in P20-113 and M21-103 and analyzed for asbestos content (refer to Photos 19 and 37, Appendix B). Asbestos was not detected in the concrete floor coating samples collected and submitted for analysis.

One (1) sample of faux wood veneer and red mastic (AS-26) was collected in P20-106 and analyzed for asbestos content (refer to Photo 27, Appendix B). Asbestos was not detected in the concrete floor coating and associated mastic sample collected and submitted for analysis.

Three (3) samples of black countertop (AS-39, AS-40 and AS-52) were collected in N20-121, N20-122 and P20-121 and analyzed for asbestos content (refer to Photos 40, 41 and 53, Appendix B). Asbestos was not detected in the black countertop samples collected and submitted for analysis.

Tar undercoating was observed on several sinks in the CFIA Space and was not sampled. These undercoatings were sampled by All-Tech in 2002 and found to be asbestos containing.

Other potential ACMs were observed and were not sampled due to the nature of the materials. These materials included, but are not limited to, electrical and mechanical components and insulators such as wiring and gaskets inside electrical panels, fire blankets, electronic and/or mechanical equipment. Other possible hidden and inaccessible ACMs have the potential to be present at the CFIA Space but were not identified during the Site visit. These possible ACMs could include fire rated structures or building materials.

4.2 PAINT FINISHES

The paint visible throughout the CFIA Space was generally in good condition. Peeling and flaking paint was observed on the concrete floor in O21-101 (refer to Photo 77, Appendix B).

A total of 19 paint samples (PS-01 to PS-19) were collected from painted surfaces of the CFIA Space and analyzed for lead and mercury content (refer to Photos 68 to 86, Appendix B). Four (4) paint samples (PS-10, PS-16, PS-17 and PS-19) were also analyzed for PCB content. Sample descriptions and analytical results are summarized in Tables C-2 to C-4, Appendix C. Sample locations and analytical results are graphically illustrated in Figure 3, Appendix A.

4.2.1 Lead in Paint

Concentrations of lead in the paint samples ranged from non-detect (<5.0 mg/kg) to 930 mg/kg (refer to Table C-1, Appendix C). Five (5) of the 19 paint samples (PS-07, PS-08, PS-13, PS-15 and PS-19) contained lead at concentrations above the Federal HPA criterion of 90 mg/kg but below the former Federal HPA criterion of 5,000 mg/kg (refer to Photos 74, 75, 80, 82 and 86, Appendix B). All of the other paint samples analyzed were either non-detect for lead (i.e. <5.0 mg/kg) or contained lead at concentrations below the applicable Federal HPA criterion (i.e. 90 mg/kg).

4.2.2 Mercury in Paint

Concentrations of mercury in the paint samples ranged from non-detect (<1.0 mg/kg) to 21 mg/kg (refer to Table C-3, Appendix C). Three (3) of the 19 paint samples (PS-06, PS-11 and PS-14) contained mercury at concentrations above the Federal HPA criterion of 10 mg/kg but below the CCME CSQG of 24 mg/kg (refer to Photos 73, 78, and 81, Appendix B). All of the other paint samples analyzed were either non-detect for mercury (i.e. <1.0 mg/kg) or contained mercury at concentrations below the applicable Federal HPA criterion (i.e. 10 mg/kg).

4.2.3 PCBs in Paint

All of the paint samples analyzed for PCBs were non-detect (<5.0 mg/kg) and therefore did not exceed the CCME CSQG of 33 mg/kg for PCBs in soil at a commercial site or the criterion for PCB solid (50 mg/kg) provided in the provincial guidance document for leachable toxic waste

(GD-PPD-26.1) (refer to Table C-4, Appendix C).

4.3 UREA FORMALDEHYDE FOAM INSULATION (UFFI)

Visual indicators suggesting the potential presence of UFFI were not observed at the CFIA Space. The nature of the insulation in the walls and ceilings throughout the CFIA Space could not be confirmed at the time of the Site inspections. However, fibreglass insulation was observed above the acoustic ceiling tiles in O21-101 and M19-102. Since the NAFC was constructed in 1976, it is possible that UFFI may be present in some areas of the CFIA Space.

The CMHC state that “tests show that UFFI is not a source of over-exposure to formaldehyde after the initial curing and release of excess gas”. The general view based on studies concerning formaldehyde emissions is that as a product ages, the amount of formaldehyde off-gassed from the product decreases over time. The amount of formaldehyde released is reportedly dependant on temperature, humidity and whether or not the product is exposed to excessive moisture or water. According to the USEPA, increases in temperature, humidity and moisture conditions can cause increases in the amount of formaldehyde released from newer products that are considered to be sources of formaldehyde emissions. The USEPA report that “studies show that formaldehyde emissions from UFFI decline with time; therefore, buildings in which UFFI was installed many years ago are unlikely to have high levels of formaldehyde now”.

4.4 SUSPECTED VISIBLE MOULD GROWTH (SVG)

AMEC inspected the interior areas of the CFIA Space for visual or olfactory evidence of suspected mould. No building cavity inspections were performed by AMEC during this assessment. Areas of SVG and water staining were observed on walls under some sinks, on some acoustic ceiling tiles and on some areas of unfinished drywall (ceiling and walls) above ceiling tiles and in service corridors (refer to Photos 87 to 92, Appendix B). One (1) sample (MS-01) was collected from SVG on drywall below a sink in N20-119 and analyzed for mould growth (refer to Figure 3, Appendix A and Photo 87, Appendix B). The laboratory results confirmed that abundant mould growth was present in the sample collected and submitted for analysis (refer to Table C-5, Appendix C). The type of mould identified in the sample was *Stachybotrys*.

It is important to note that several areas within the CFIA Space contain cooling and refrigeration rooms constructed of insulated panels. It has been AMEC's experience with similarly constructed coolers and freezers that water intrusion into hidden areas behind these panels can sometimes occur and result in mould growth. If the cooling and refrigeration rooms in the CFIA Space are removed or dismantled, it is recommended that any contractors working in these areas be advised of potential mould and if encountered, further assessment will be required to determine the extent and possible remediation of the mould impacted materials.

4.5 POTENTIAL HAZARDOUS CHEMICALS

Most, if not all, of the chemicals formerly used at the CFIA Space had been removed at the time of the Site visits; however, AMEC was accompanied by a CFIA Site representative (Mrs. Nancy Lee) who was familiar with the chemical use for each area. During the visual inspection, AMEC obtained a copy of an inventory of chemicals that had been removed from the CFIA Space on November 22, 2012 by Newalta, a licensed hazardous waste disposal contractor (refer to Appendix F).

Fume hoods and sink drains connected to glass piping were observed in various laboratory areas throughout the CFIA Space (refer to Figure 3, Appendix A). The following observations were noted during the visual inspection:

- N20-115: one (1) laboratory fume hood observed with organic solvents and biological hazards labels; sink/fume hood drains connected to glass piping (refer to Photos 93 to 95, Appendix B).
- N20-116: one (1) laboratory fume hood observed with organic solvents label; fume hood drain connected to glass piping (refer to Photo 96, Appendix B).
- N20-118: sink drain connected to glass piping (refer to Photo 97, Appendix B).
- N20-119: sink drain connected to glass piping (refer to Photo 98, Appendix B).
- N20-120: four (4) laboratory fume hoods observed with perchloric acid, organic solvents and acids labels; some residual dust observed in hoods; fume hood drains connected to glass piping (refer to Photos 99 to 102, Appendix B).
- N20-122: one (1) laboratory fume hood observed with acids label; fume hood drain connected to glass piping (refer to Photos 103 and 104, Appendix B).
- N20-123: one (1) laboratory fume hood observed with organic solvents label; fume hood drain connected to glass piping (refer to Photos 105 to 107, Appendix B).
- N20-124/124a: two (2) laboratory fume hoods observed with organic solvents, acetone, carbon tetrachloride and chloroform labels (refer to Photos 108 and 109, Appendix B).
- P20-125: one (1) laboratory fume hood observed (refer to Photo 110, Appendix B).
- P20-112: one (1) laboratory fume hood and glass piping observed (refer to Photos 111 and 112, Appendix B).
- N20-125: glass piping observed throughout service corridor; possible unknown residual/waste chemicals (i.e. staining and liquid) observed at locations of some pipe traps (refer to Photos 113 to 116, Appendix B).

4.6 MERCURY-CONTAINING THERMOSTATS

Nine (9) types of thermostats were identified throughout the CFIA Space during the investigation (refer to Photos 117 to 125, Appendix B). Results of the thermostat inspection are summarized

in Table 3.

Table 3: Thermostat Descriptions

Description of Thermostat	Manufacturer	Location Observed	No. Observed	Thermostat Inspected (Yes/No)	Mercury Switch (Yes/No)
White rectangular casing, wall-mounted	Ouellet	M19-103	1	Yes	No
Silver rectangular casing, wall-mounted	Honeywell	M19-103	1	Yes	No
Steel rectangular casing, wall-mounted	Honeywell	P20: 101, 103, 105, 106, 107, 108, 109, 110, 112, 120, 121, 125 and 126. N20: 102, 103, 105, 106, 115, 116, 117, 119, 119A, 120 and 122. O19-101	26	Not accessible	Unknown
Yellow rectangular casing, wall-mounted	RDF Corp.	P20: 109 and 120. N20-105	3	Not accessible	Unknown
White rectangular casing, wall-mounted	Honeywell	M21-106 and O21-101A	1	Yes	No
White square/rectangular electronic, wall-mounted	Honeywell	N20: 107, 124 and 124A. M21: 101, 104 and 105. P20: 104 and 124. O12-101	9	Not accessible	Unknown
Brown rectangular casing, wall-mounted	Nortron Electric	P20: 118, 119 and 127.	3	Not accessible	Unknown
Large white rectangular casing, wall-mounted	Honeywell	P20-111	1	Not accessible	Unknown
Brown rectangular casing, wall-mounted	Honeywell	M20: 121 and 121A.	2	Not accessible	Unknown

4.7 POTENTIAL SOURCES OF ODSs

Ozone depleting substances (ODSs) include any substances containing chlorofluorocarbon (CFC), hydrochlorofluorocarbon (HCFC), halon or any other material capable of destroying ozone in the atmosphere. ODSs have been used in rigid polyurethane foam and insulation, laminates, aerosols, air conditioners, freezers, chillers, fire extinguishers, cleaning solvents and the sterilization of medical equipment. Federal regulations introduced in 1995 required the elimination of production and import of CFCs by January 1, 1996 (subject to certain essential uses) and a freeze on the production and import of HCFC-22 by January 1, 1996. These regulations also require the complete elimination of HCFC-22 by the year 2020. The NL Halocarbon Regulations (dated May 2005) required the elimination of halon in portable fire extinguishers effective June 1, 2005 and the elimination of halon in fire extinguishing systems by January 1, 2010.

Potential sources of ODSs identified during this assessment included a portable A/C unit in M20-113 (refrigerant unknown), a cooling unit in N20-112 (refrigerant R12/22/502), two (2) cooling units in N20-111 (refrigerant R12/22/502), two (2) cooling units in N20-110 (refrigerant R12/22/502/134A/404A), two (2) cooling units in O21-103 (refrigerant R12/22/502/134A/404A/407A/507), a cooling unit in P20-100 (refrigerant unknown), laboratory refrigeration units

in N20-107 and N20-123 (refrigerants unknown) and three (3) domestic refrigerators (refrigerants unknown) in M21-105, P20-120 and P20-123 (refer to Photos 126 to 129, Appendix B). Although several fire extinguishers (i.e. dry chemical) were identified in the CFIA Space, the labels on these units, where observed, did not indicate the presence of halon or other ODS ingredients (refer to Photo 130, Appendix B).

4.8 OTHER POTENTIALLY HAZARDOUS BUILDING MATERIALS OR PRODUCTS

Other potentially hazardous building materials or products identified during this assessment are presented in the following sections.

4.8.1 Mercury

Mercury may be present in the fluorescent light tubes identified throughout the CFIA Space. The light tubes in these light fixtures often contain limited quantities of mercury in a powder or vapour form.

4.8.2 Lead

Lead is typically associated with plumbing solder and older pipe materials, as well as products such as radiation protective shielding and lead-acid batteries.

Although samples of the drinking water at the CFIA Space were not collected by AMEC during this assessment and analyzed for the presence of lead, based on the reported date of construction of the NAFC (i.e. 1976), AMEC expects that lead in drinking water may be an issue, since lead solder for use in potable water distribution pipes was not banned until the late 1980s. If lead solder is present at the Site, lead concentrations in drinking water can typically be reduced to acceptable levels by running the cold water tap for five to ten minutes prior to use. A water bottle cooler, which is likely used by staff for drinking water, was observed in O19-101 near the male and female washrooms at the time of the Site inspections (refer to Photo 131, Appendix B).

Several potential lead-acid battery containing devices (i.e., emergency light fixtures) were noted inside the CFIA Space at the time of the Site inspections (refer to Photo 132, Appendix B).

4.8.3 Silica

Silica is expected to be present in concrete, bricks and mortar present at the CFIA Space. Precaution should be taken to prevent/reduce exposure to silica dust during any disturbance/demolition of silica-containing products.

4.9 QA/QC DISCUSSION

Details regarding the QC assessment of surrogate recoveries, laboratory duplicate, field duplicate and laboratory blank samples are presented in this section. The QA/QC results are reported on the Laboratory Certificates of Analyses included in Appendix D.

4.9.1 Surrogate Recoveries

The PCB surrogate recoveries for paint samples PS-10, PS-16, PS-17 and PS-19 were not within the acceptable QC limits. The laboratory reported that the overall quality control for this analysis meets acceptability criteria.

4.9.2 Laboratory Blank Samples

Laboratory method blank samples were analyzed for lead, mercury and PCBs. The purpose of the laboratory blank samples were to assess the quality of the laboratory results with respect to the presence/absence of instrument cross contamination at the laboratory.

Analysis of the laboratory blank samples indicated non-detectable concentrations; therefore, no evidence of cross contamination at the laboratory was identified during the laboratory analytical program.

4.9.3 Laboratory Duplicates

The analytical data for the laboratory duplicate paint sample PS-18 Lab-Dup and PS-18 Lab-Dup 2 and the original paint sample PS-18 analyzed for lead and mercury were identical (i.e. <5.0 for lead and <1.0 mg/kg for mercury).

4.9.4 Summary of QA/QC Discussion

Overall, based on these QC reviews, the analytical results are considered representative of the Site conditions in the immediate vicinity of the sample locations.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based on observations made and information gathered during this HBMS, the following conclusions and recommendations are made with respect to the potential and actual presence of hazardous building materials at the CFIA Space:

Asbestos-Containing Materials

- Results of the current asbestos sampling and analytical program revealed that there are building materials in the CFIA Space containing greater than 1% asbestos by dry weight, which are considered to be ACMs. Potentially friable asbestos is present in the form of drywall joint compound. Non-friable asbestos is present in the form of vinyl floor tile and cement board (transite).
- Results of the current asbestos sampling and analytical program also revealed that there are building materials containing 1% asbestos by dry weight. These materials include 2' x 4' large fissure and pinhole pattern ceiling tile. Due to the potentially friable nature of ceiling tile, it is recommended that this type of ceiling tile be treated as asbestos-containing.

- Results of the previous asbestos sampling and analytical program conducted by All-Tech in 2002 also revealed that there are building materials in the CFIA Space containing greater than 1% asbestos by dry weight, which are considered to be ACMs. Friable and potentially friable asbestos is present in the form of texture coat (stucco) and drywall joint compound. Non-friable asbestos is present in the form of cement board (transite) and tar undercoating on sinks.
- Other potential ACMs were observed and were not sampled due to the nature of the materials or due to the previous asbestos sampling and analytical program conducted by All-Tech in 2002. These materials included, but are not limited to, electrical and mechanical components and insulators such as wiring and gaskets inside electrical panels, electronic and/or mechanical equipment.
- Other possible hidden and inaccessible ACMs have the potential to be present at the CFIA Space but were not identified during the Site visits. These possible ACMs could include fire doors or other fire rated structures or building materials.
- If other potential ACMs that could not be sampled as part of this assessment due to access issues are encountered in the future, these materials should be treated as ACMs or samples should be collected and tested to verify asbestos content. This should be done as soon as these materials are encountered and before these materials are disturbed. This includes materials that are currently concealed by walls and ceiling systems.
- In accordance with the NL Asbestos Abatement Regulations (Reg. 111/98), which provide the legislative requirements for safe handling of ACMs in workplaces in the Province of NL, the following is recommended:
 - Safe work procedures shall be established;
 - All buildings constructed during the period when asbestos was readily used in construction must have a written assessment and management plan (where applicable) for potential ACMs; and
 - Prior to general disturbance activity (e.g., demolition, renovation or removal), all ACMs must be safely removed from the CFIA Space and disposed of in accordance with appropriate environmental guidelines by a asbestos abatement contractor registered with the Department of Labour, Occupational Health and Safety Branch.
- ACMs in good condition should be inspected on an annual basis. ACMs in poor condition should be removed from the CFIA Space and transported off-site for proper disposal in accordance with the Asbestos Abatement Regulations (111/98).

Lead, Mercury and PCBs in Paint

- Results of the paint sampling and analytical program revealed lead and mercury-based paint finishes within the CFIA Space (i.e., the concentrations of lead and mercury in some paint finishes were above the applicable Federal HPA criteria of 90 mg/kg for lead and 10 mg/kg for mercury).
 - The concentrations of lead in the paint samples ranged from non-detect <5.0 mg/kg to 930 mg/kg and the concentrations of mercury in the paint samples ranged from non-detect (<1.0 mg/kg) to 21 mg/kg.

- Paint finishes with a lead concentration of less than 5,000 mg/kg or a mercury concentration of less than 24 mg/kg are not likely to be leachable and therefore may be disposed of at an approved landfill facility, pending landfill and regulatory approval.
 - Based on the results from the paint samples analyzed during this assessment, all paint finishes that were sampled for lead and mercury in paint are not considered hazardous waste and may be disposed of at an approved landfill facility, pending regulatory and landfill operator approval.
- If potential lead or mercury containing paint finishes that were not sampled during this assessment are encountered, samples should be obtained and tested to verify lead and mercury content. This should be done as soon as the paint is encountered and before it is disturbed. This includes materials that are currently concealed by walls and ceiling systems.
- All of the paint samples analyzed for PCBs were non-detect (<5.0 mg/kg) and therefore did not exceed the CCME CSQG of 33 mg/kg for PCBs in soil at a commercial site or the criterion for PCB solid (50 mg/kg) provided in the provincial guidance document for leachable toxic waste (GD-PPD-26.1).
- There are potential adverse human health impacts associated with disturbing (e.g., scraping) lead and mercury-based paint finishes. As a precautionary measure, AMEC recommends proper maintenance of lead and mercury-based paint finishes, as follows:
 - Where lead and mercury-based paint finishes are in good condition (i.e., intact and not peeling or flaking) the surfaces can be covered by painting with non lead or non mercury-containing paint.
 - In areas of minor peeling or flaking the paint should be removed using wet scraping techniques and the surface should then be repainted with non lead or non mercury-containing paint.
 - In areas of extensive peeling and flaking the paint should be removed and more extensive particulate control measures may be required.
 - In areas where lead or mercury-based paint finishes are present and in poor condition, an experienced contractor should be utilized for painting, renovation or decommissioning/demolition activities.
 - Steps should be taken to ensure that workers and anyone present in and around areas being renovated, dismantled or demolished are protected. The contractor should also ensure that dust generation and migration is minimized.

Urea Formaldehyde Foam Insulation (UFFI)

- Visual indicators suggesting the potential presence of UFFI were not observed at the CFIA Space. The nature of the insulation in the walls and ceilings throughout the CFIA Space could not be confirmed at the time of the Site inspections. However, fiberglass insulation was observed above the acoustic ceiling tiles in O21-101 and M19-102. Since the NAFC was constructed in 1976, it is possible that UFFI may be present in some areas of the CFIA Space.

- Based on a visual nonintrusive inspection, there was no evidence that UFFI is present in the CFIA Space. However, the inferred age of the NAFC suggests that UFFI could be present within the walls which could not be visually inspected. Based on the sources of information reviewed by AMEC to assess whether UFFI is considered to be a potential environmental concern at the Site (refer to Sections 3.3 and 4.3), it can be inferred that any UFFI present within the CFIA Space is unlikely to affect the indoor air quality due to the amount of time that has passed since the insulation was likely installed (i.e. prior to 1980) along with the likelihood that formaldehyde has off-gassed over this period of time. It should be noted that, the presence and concentration of formaldehyde cannot be determined or quantified without conducting Site-specific testing for formaldehyde.

Mould

- AMEC inspected the interior areas of the CFIA Space for visual or olfactory evidence of suspected mould. Areas of SVG and water staining were observed on walls under some sinks, on some acoustic ceiling tiles and on some areas of unfinished drywall (ceiling and walls) above ceiling tiles and in service corridors. One (1) sample was collected from SVG on drywall below a sink in N20-119 and analyzed for mould growth. Results of the mould sampling program revealed that abundant mould growth was present in the sample collected from N20-119.
- It is important to note that several areas within the CFIA Space contain cooling and refrigeration rooms constructed of insulated panels. It has been AMEC's experience with similarly constructed coolers and freezers that water intrusion into hidden areas behind these panels can sometimes occur and result in mould growth. If the cooling and refrigeration rooms in the CFIA Space are removed or dismantled, it is recommended that any contractors working in these areas be advised of potential mould and if encountered, further assessment will be required to determine the extent and possible remediation of the mould impacted materials.
- Building materials with water damage or mould growth (suspected or confirmed) observed within the areas assessed should be remediated using abatement procedures as described in the 2010 EACO Mould Abatement Guidelines. The level of work precautions presented in these guidelines depend on the extent of building materials supporting visible mould growth as well as the estimated extent of hidden mould growth supporting material. The levels of work practise are described as Level 1 (small isolated area) for areas less than 1 m², Level 2 (medium area) for areas 1-10 m² or less than 1 m² in HVAC systems, Level 3 (large area) is described as more than 10 m² or more than 1 m² in HVAC systems. It is difficult to estimate the areas of mould impacted materials at the CFIA Space, due to limitations imposed by the presence of heating and water distribution systems and insulated wall panels in cooling and refrigeration areas. A remediation work plan should be designed and supervised by a qualified professional and should be undertaken by qualified trades, in accordance with applicable standards. It is recommended that only experienced, trained and qualified mould abatement personnel conduct mould abatement activities.

Potential Hazardous Chemicals

- It is difficult to collect sufficient samples and/or sufficient sample volume to confirm the content of possible unknown residual/waste chemicals (i.e. dust, staining and liquid) that may be present in laboratory fume hood ductwork and fume hood/sink drainage piping at the CFIA Space, due to access limitations since this residual waste is located in potentially stagnant areas inside the drainage piping and ductwork systems. It is therefore recommended that a certified hazardous waste disposal contractor be retained to flush and/or clean the piping/ductwork and properly dispose of any residual/waste chemicals prior to decommissioning the laboratory fume hoods, sinks and associated ductwork and/or drainage piping at the CFIA Space.
- It is important to note that these recommendations should also be followed for any laboratory fume hoods, sinks and/or associated ductwork and/or drainage piping not inspected and/or not identified by AMEC during the visual inspection of the CFIA Space.

Lead and Mercury-Containing Materials/Equipment

- Samples of the drinking water at the CFIA Space were not collected or analyzed during this assessment for the presence of lead. Based on the reported date of construction of the NAFC (i.e. 1976), lead in drinking water may be a potential issue since the lead content in solders and fluxes was not limited to 0.2% in potable water systems until 1990 (*National Plumbing Code of Canada*). The Health Canada Guidelines for Canadian Drinking Water Quality (GCDWQ) includes maximum acceptable concentrations of various chemical parameters in drinking water, including lead. If lead solder is present in the potable water system, lead concentrations in drinking water can typically be reduced to acceptable levels by running the cold water tap for five to ten minutes prior to use. A water bottle cooler, which is likely used by staff for drinking water, was observed in O19-101 near the male and female washrooms at the time of the Site inspections.
- Several potential lead-acid battery containing devices (i.e., emergency light fixtures) were noted inside the CFIA Space at the time of the Site inspections.
- Mercury may be present in thermostats that were not accessible during the thermostat inspection.
- Suspected mercury-containing fluorescent light tubes were observed throughout the CFIA Space.
- The disturbance, control or disposal of lead-containing material/equipment (e.g., solder on copper piping, batteries, etc.) or mercury-containing material/equipment (e.g., thermostats, light tubes) should be carried out in accordance with applicable criteria/regulations (refer to Section 2.0). The presence/absence of lead or mercury in these materials should be confirmed through a mechanical contractor or consultant prior to disturbance or disposal of these materials. Typically these materials are sent to a recycling facility and not a landfill.
- Removal of lead-containing batteries should be completed in a manner that ensures structural integrity and no loss of fluid from the batteries. Disposal of lead-containing batteries should be completed in accordance with hazardous waste procedures/guidelines (i.e. at an approved facility).

- Mercury-containing thermostat tubes (if present) and fluorescent light tubes should be removed intact and returned to the manufacturer for recycling, or disposed of at an approved facility.

PCB Containing Equipment

- Fluorescent light fixtures were observed throughout the CFIA Space. Based on the reported date of construction of the NAFC (i.e., 1976), the light ballasts in the CFIA Space may contain PCBs since the use of PCBs in light ballasts was not discontinued until the early 1980s.
- The PCB content in all light ballasts should be confirmed prior to disposal. Any leaking light ballasts identified, whether PCB containing or not, should be removed and replaced to avoid potential concerns with electrical equipment in the future. All ballasts that are removed should be placed in a proper storage container(s). Leaks or stained areas should be cleaned and/or removed in accordance with applicable regulations or industry standards.
- All PCB-containing equipment (if present) should be handled, decontaminated, transported and disposed of as per current Federal and Provincial acts and regulations. Any PCB-containing equipment requiring removal from the CFIA Space should be transported and disposed of by a registered hazardous waste transporter in accordance with applicable regulations.

Potential Sources of ODSs

- Potential sources of ODSs identified during this assessment included a portable air conditioning unit, eight (8) cooling units, three (3) laboratory refrigeration units and three (3) domestic refrigerators. The types of refrigerants were not confirmed for the air conditioning unit, one (1) of the eight (8) cooling units, the laboratory refrigeration units and the domestic refrigerators at the time of this assessment. All ODSs should be removed by an approved contractor prior to disposing of the cooling and refrigeration units from the CFIA Space.
- The use, storage, operation, maintenance, decommissioning, and disposal of ODS containing equipment in general is regulated at both a Provincial and Federal level and must comply with the most recent NL Halocarbon Regulations and the Federal Halocarbon Regulations. The status of the potential ODS containing equipment should be confirmed through a mechanical contractor or consultant.

Silica Dust

- Silica is expected to be present in concrete, bricks and mortar at the CFIA Space. Precaution should be taken to prevent/reduce exposure to silica dust during any disturbance/demolition of silica-containing products, such as wetting the surface of the materials to prevent dust emissions, donning respiratory protection, and cleaning tools and clothing prior to exiting the work area.

6.0 CLOSURE

This report was prepared for the exclusive use of PWGSC and the CFIA. The findings of this report are based solely on the conditions of the CFIA Space at the NAFC encountered at the time of the Site visits, and are limited by the availability of information at the time of the HBMS, lack of accessibility to areas within the CFIA Space, project scope and budget. The findings of this assessment are based on the interpretation of data from a limited number of areas investigated and analytical results pertaining to specific samples. It is possible that materials exist which could not be reasonably identified within the scope of the HBMS or which were not apparent or accessible during the Site visits. This Report is also subject to the further limitations contained in Appendix G.

Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of the third party. Should additional parties require reliance on this report, written authorization from AMEC is required. With respect to third parties, AMEC has no liability or responsibility for losses of any kind whatsoever, including direct or consequential financial effects on transactions or property values, or requirements for follow-up actions and costs. This assessment has been carried out using commercially reasonable best efforts consistent with the level and skill ordinarily exercised by members of the profession currently practicing under similar conditions.

Except when otherwise specified, AMEC disclaims any obligation to update this report for events taking place, or with respect to information that becomes available to AMEC after the time during which AMEC conducted the hazardous building materials assessment.

In evaluating the property, AMEC has relied in good faith on information provided by other individuals noted in this report. AMEC has assumed that the information provided is factual and accurate. In addition, some of the findings in this report are based upon information provided by the current owner/occupant. AMEC accepts no responsibility for any deficiency, misstatement or inaccuracy contained in this report as a result of omissions, misinterpretations or fraudulent acts of persons interviewed or contacted.

AMEC makes no other representations whatsoever, including those concerning the legal significance of its findings, or as to other legal matters touched on in this report, including, but not limited to, ownership of any property, or the application of any law to the facts set forth herein. With respect to regulatory compliance issues, regulatory statutes are subject to interpretation and change. Such interpretations and regulatory changes should be reviewed with legal counsel.

We trust that the information presented in this report meets your current requirements. Should you have any questions, or concerns, please do not hesitate to contact the undersigned.

Yours truly,

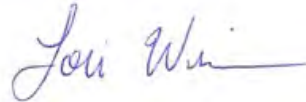
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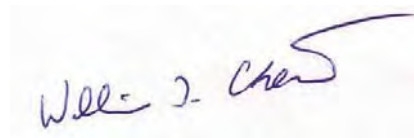
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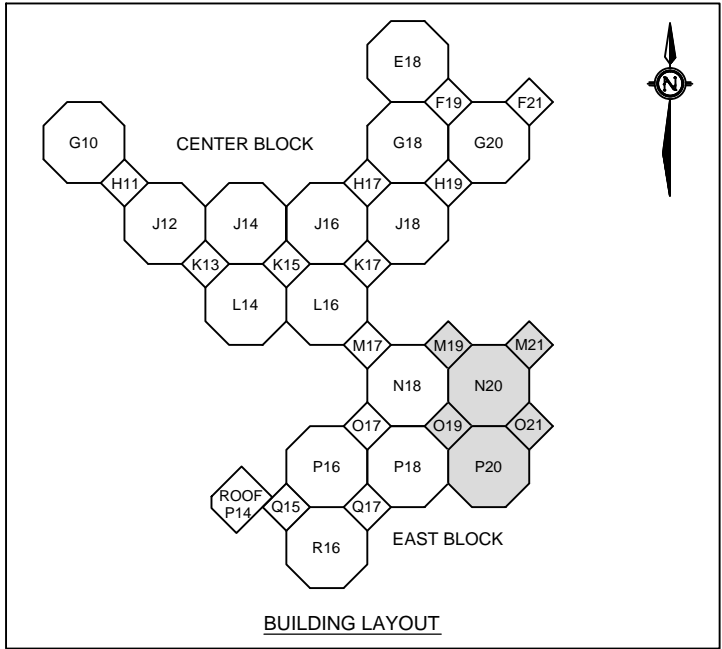
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<http://www.epa.gov/iaq/formalde.html>

APPENDIX A

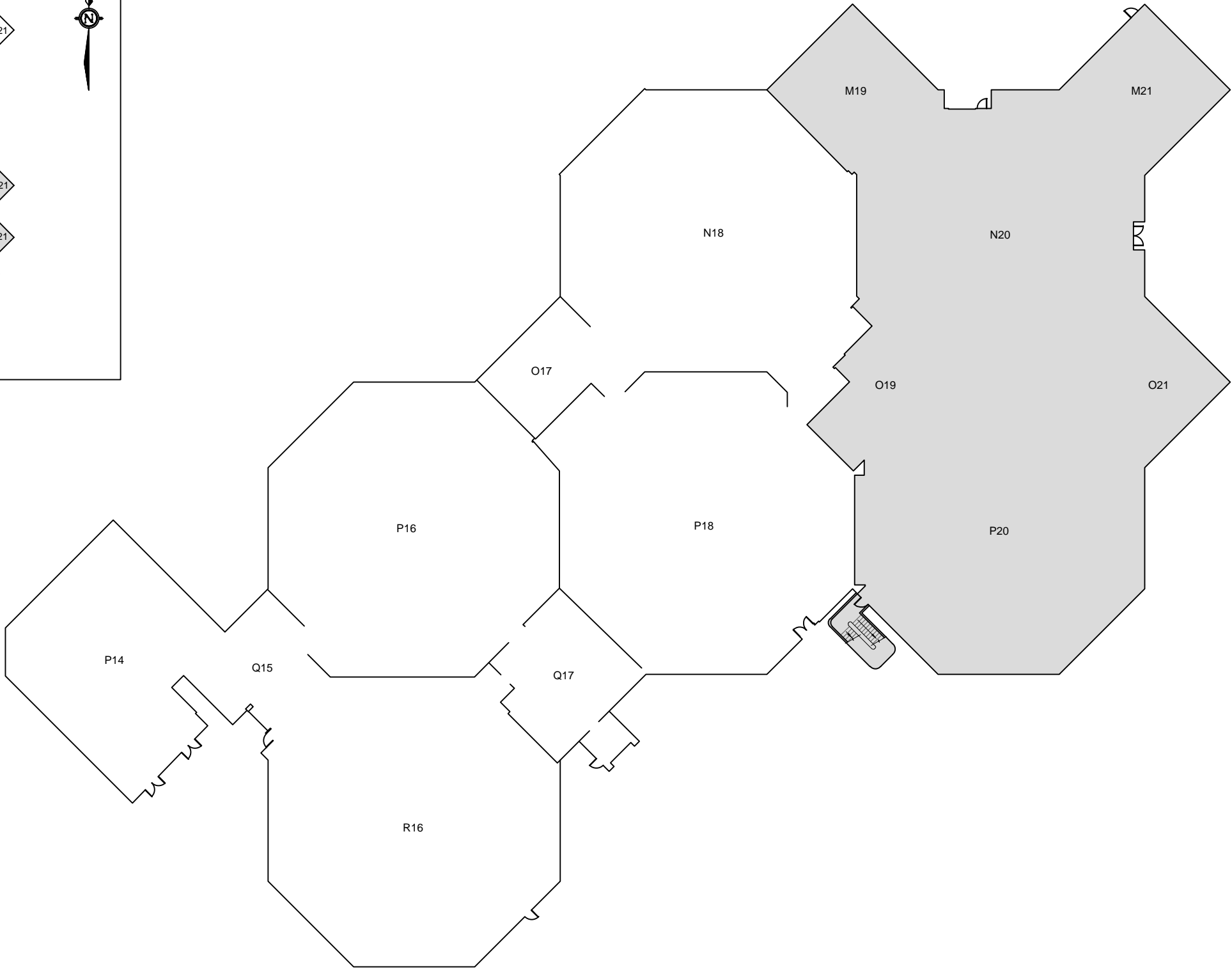
Figures



	Date:	March 2013	Project: HAZARDOUS BUILDING MATERIALS SURVEY CFIA SPACE, NAFC ST. JOHN'S, NL		
	Drawn by:	H. Ryan	Title: SITE LOCATION PLAN		
	Approved by:	L. Wiseman	Scale:	NTS	Project No.: TF13076482
					Figure No.: 1

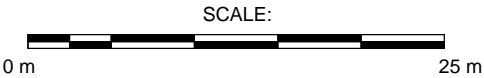


BUILDING LAYOUT



LEGEND:

CFIA SPACE



- NOTES:
1. ALL DIMENSIONS ARE IN METRES.
 2. DO NOT SCALE FROM FIGURE.
 3. THIS FIGURE IS INTENDED TO SHOW RELATIVE LOCATIONS AND CONFIGURATION OF THE STUDY AREA IN SUPPORT OF THIS REPORT.
 4. ALL LOCATIONS, DIMENSIONS, AND ORIENTATIONS ARE APPROXIMATE.
 5. THIS FIGURE SHOULD NOT BE USED FOR PURPOSES OTHER THAN THOSE OUTLINED ABOVE.
 6. THIS FIGURE CONTAINS INTELLECTUAL PROPERTY OF PUBLIC WORKS AND GOVERNMENT SERVICES CANADA AND MAY NOT BE REPRODUCED OR COPIED WITHOUT THEIR WRITTEN CONSENT.
 7. THIS FIGURE WAS PRODUCED FROM FIGURES SUPPLIED BY PUBLIC WORKS AND GOVERNMENT SERVICES CANADA.



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AMEC Environment & Infrastructure

133 Crosbie Road
St. John's, NL
A1B 4A5
709-722-7023



DWN BY:

H. Ryan

CHK'D BY:

L. Wiseman

SCALE:

As Shown

PROJECT

HAZARDOUS BUILDING MATERIALS SURVEY
CFIA SPACE, NFAC
ST. JOHN'S, NL

TITLE

EAST BLOCK SITE PLAN

DATE

March 2013

PROJECT No.

TF13076482

REV. No.

0

FIGURE No.

2

LEGEND:

- ▲ PAINT SAMPLE LOCATION - NO CRITERIA EXCEEDANCES FOR LEAD OR MERCURY
- ▲ PAINT SAMPLE LOCATION - RESULTS EXCEED 90 mg/kg AND LESS THAN 5000 mg/kg FOR LEAD AND NO CRITERIA EXCEEDANCES FOR MERCURY
- ▲ PAINT SAMPLE LOCATION - RESULTS EXCEED 10 mg/kg AND LESS THAN 24 mg/kg FOR MERCURY AND NO CRITERIA EXCEEDANCES FOR LEAD
- ASBESTOS SAMPLE LOCATION - ASBESTOS NOT DETECTED OR RESULTS < OR EQUAL TO 1% FOR ASBESTOS
- ASBESTOS SAMPLE LOCATION - RESULTS > 1% FOR ASBESTOS
- MOULD SAMPLE LOCATION - MOULD GROWTH IDENTIFIED

NOTES:

1. ALL DIMENSIONS ARE IN METRES.
2. DO NOT SCALE FROM FIGURE.
3. THIS FIGURE IS INTENDED TO SHOW RELATIVE LOCATIONS AND CONFIGURATION OF THE STUDY AREA IN SUPPORT OF THIS REPORT.
4. ALL LOCATIONS, DIMENSIONS, AND ORIENTATIONS ARE APPROXIMATE.
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6. THIS FIGURE CONTAINS INTELLECTUAL PROPERTY OF PUBLIC WORKS AND GOVERNMENT SERVICES CANADA AND MAY NOT BE REPRODUCED OR COPIED WITHOUT THEIR WRITTEN CONSENT.
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133 Crosbie Road
St. John's, NL
A1B 4A5
709-722-7023



DWN BY:

H. Ryan

CHK'D BY:

L. Wiseman

SCALE:

As Shown

PROJECT

HAZARDOUS BUILDING MATERIALS SURVEY
CFIA SPACE, NAFC
ST. JOHN'S, NL

TITLE

SAMPLE LOCATION PLAN

DATE

March 2013

PROJECT No.

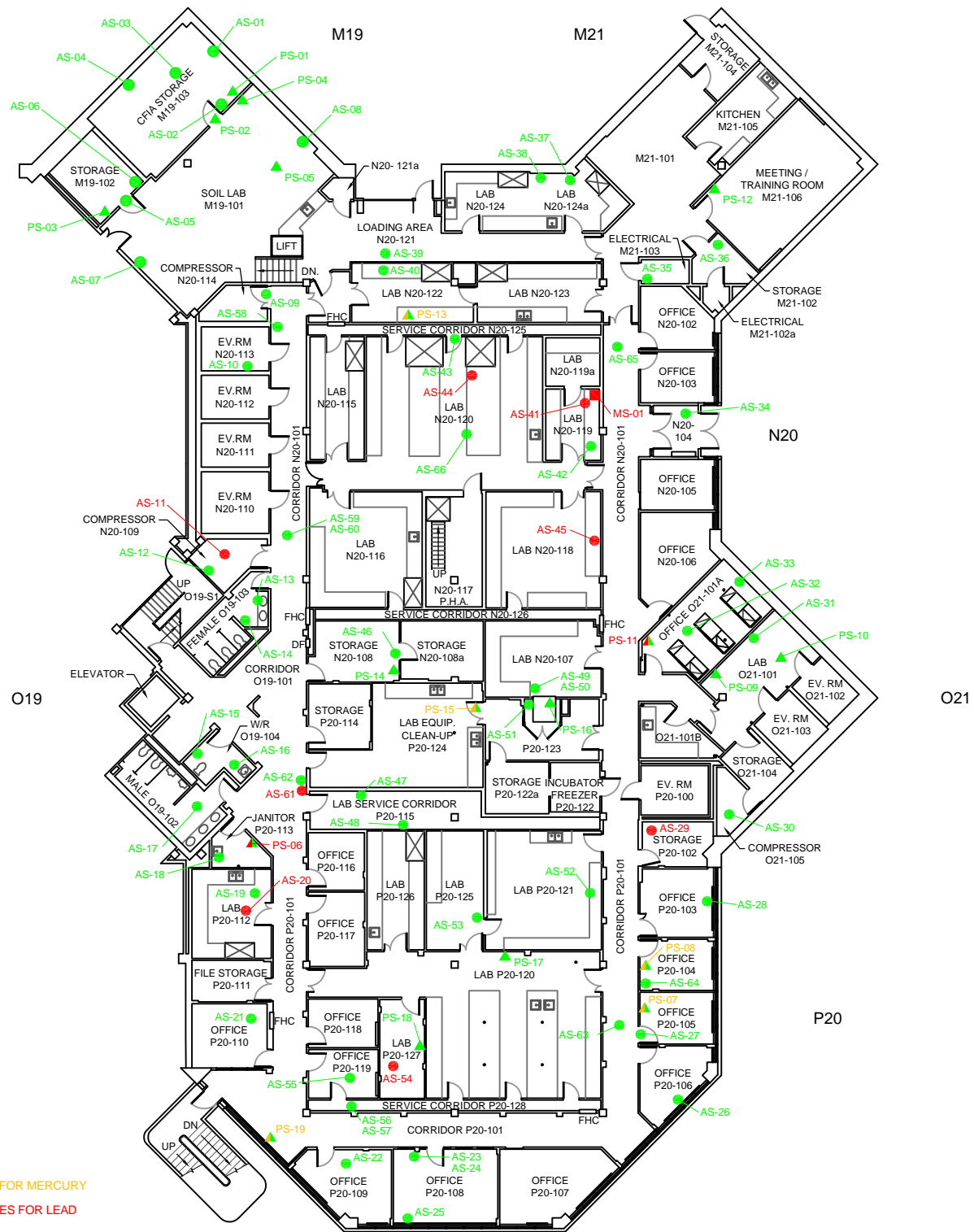
TF13076482

REV. No.

0

FIGURE No.

3



SCALE:



APPENDIX B

Photographic Record



Photo 1: View of exterior of Module P20 at the CFIA Space, NAFC.



Photo 2: View of vinyl floor tile sample AS-01.



Photo 3: View of baseboard and mastic sample AS-02.



Photo 4: View of acoustic ceiling tile sample AS-03.



Photo 5: View of duct insulation sample AS-04.



Photo 6: View of vinyl sheet flooring sample AS-05.

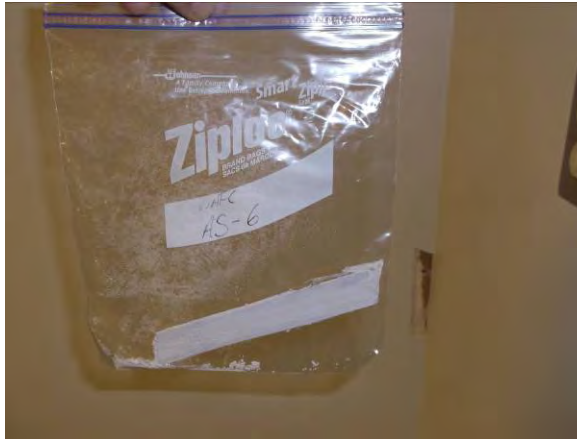


Photo 7: View of drywall joint compound sample AS-06.

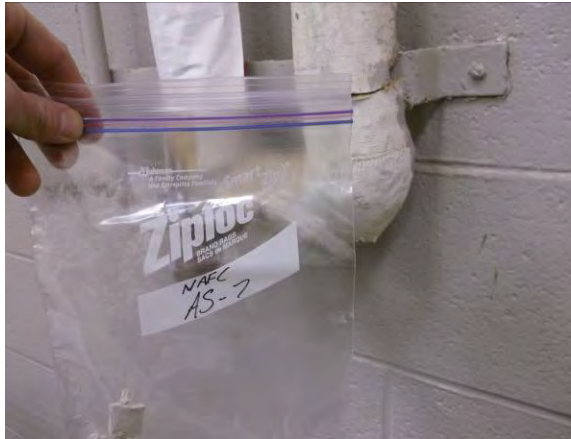


Photo 8: View of pipe elbow putty sample AS-07.



Photo 9: View of straight-run pipe insulation sample AS-08.

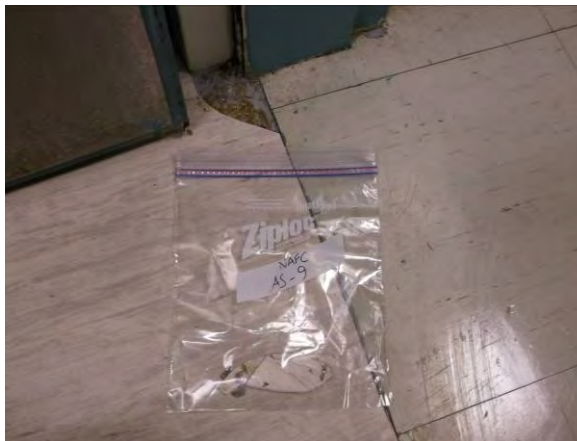


Photo 10: View of vinyl floor tile and mastic sample AS-09.



Photo 11: View of caulking sample AS-10.



Photo 12: View of drywall joint compound sample AS-11.



Photo 13: View of pipe elbow parging sample AS-12.



Photo 14: View of ceramic tile grout sample AS-13.



Photo 15: View of location ceramic tile sample AS-14.



Photo 16: View of ceramic tile and grout sample AS-15.



Photo 17: View of stucco sample AS-16.



Photo 18: View of ceramic tile and grout sample AS-17.



Photo 19: View of concrete floor coating sample AS-18.

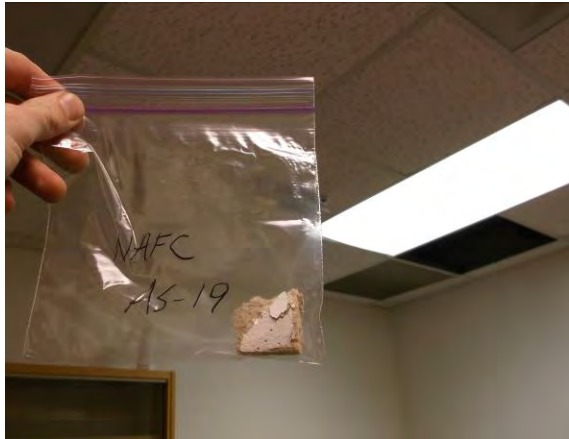


Photo 20: View of acoustic ceiling tile sample AS-19.



Photo 21: View of cement board (transite) sample AS-20.

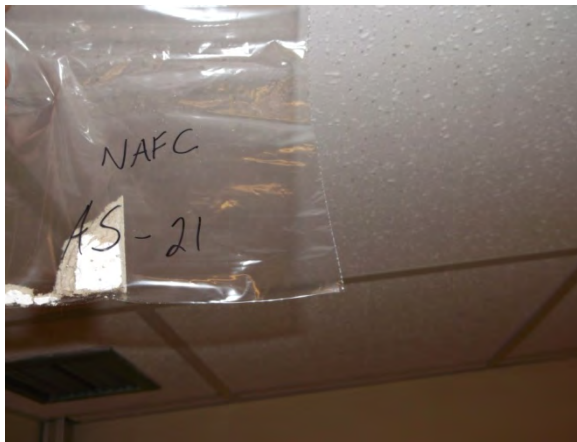


Photo 22: View of acoustic ceiling tile sample AS-21.

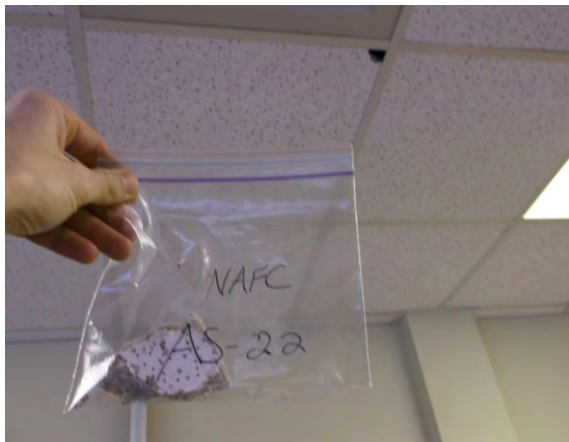


Photo 23: View of acoustic ceiling tile sample AS-22.



Photo 24: View of vinyl sheet flooring sample AS-23.



Photo 25: View of baseboard and mastic sample AS-24.

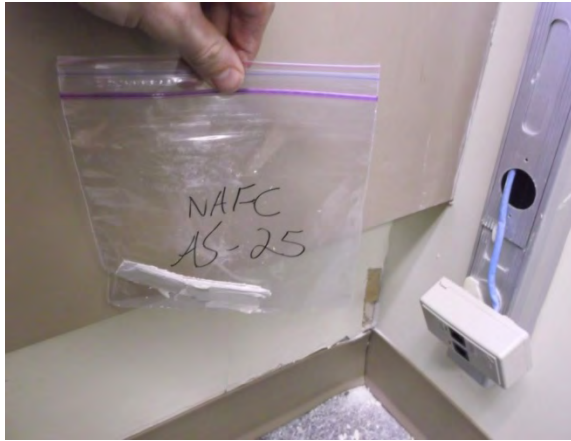


Photo 26: View of drywall joint compound and tape sample AS-25.



Photo 27: View of wood veneer and mastic sample AS-26.

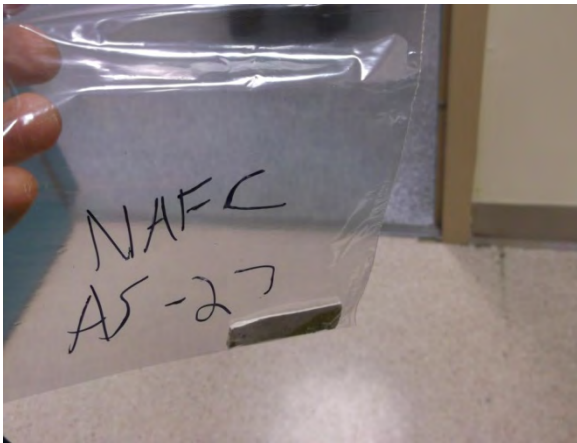


Photo 28: View of vinyl sheet flooring and mastic sample AS-27.

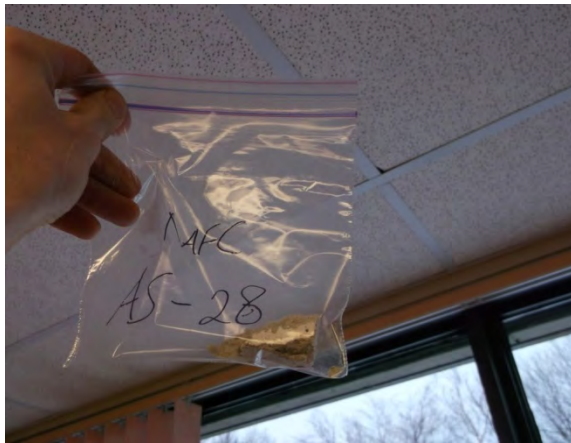


Photo 29: View of acoustic ceiling tile sample AS-28.



Photo 30: View of vinyl floor tile and mastic sample AS-29.



Photo 31: View of pipe elbow parging sample AS-30.



Photo 32: View of cement board sample AS-31.



Photo 33: View of carpet and mastic sample AS-32.



Photo 34: View of baseboard and mastic sample AS-33.



Photo 35: View of ceramic tile and grout sample AS-34.

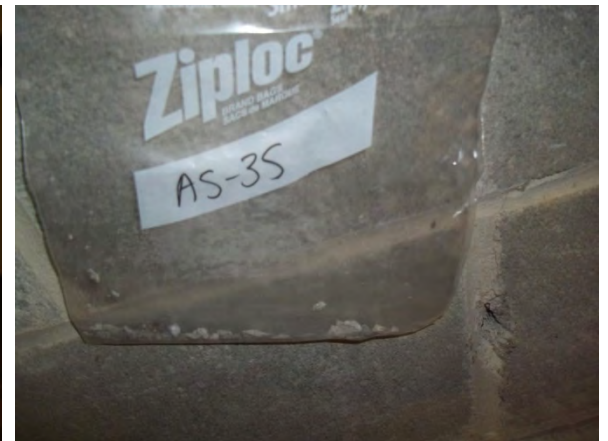


Photo 36: View of concrete masonry block mortar sample AS-35.



Photo 37: View of concrete floor coating sample AS-36.



Photo 38: View of vinyl sheet flooring sample AS-37.



Photo 39: View of drywall joint compound sample AS-38.



Photo 40: View of countertop sample AS-39.



Photo 41: View of countertop sample AS-40.



Photo 42: View of vinyl floor tile and mastic sample AS-41.



Photo 43: View of vinyl floor tile and mastic sample AS-42.

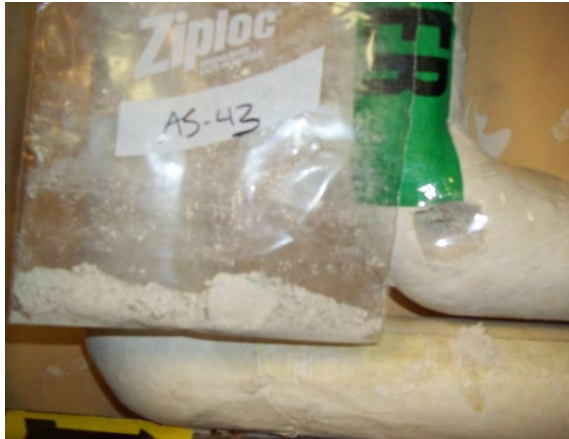


Photo 44: View of pipe elbow parging sample AS-43.

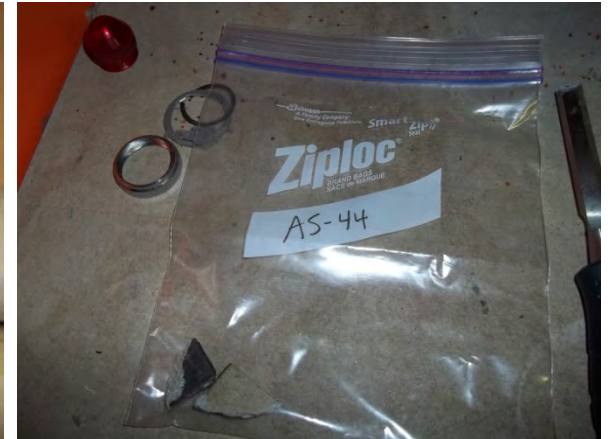


Photo 45: View of cement board (transite) sample AS-44.



Photo 46: View of drywall joint compound sample AS-45.



Photo 47: View of carpet and mastic sample AS-46.

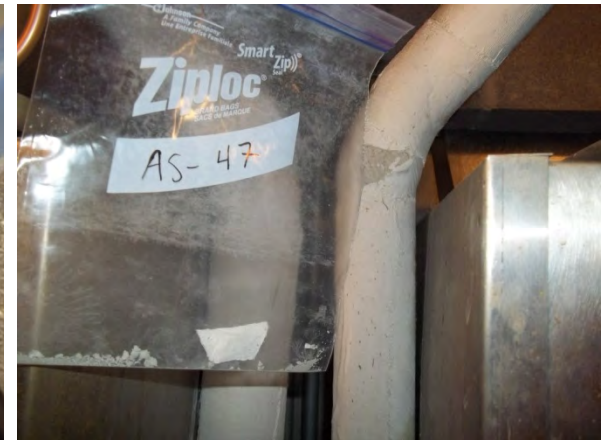


Photo 48: View of pipe elbow parging sample AS-47.

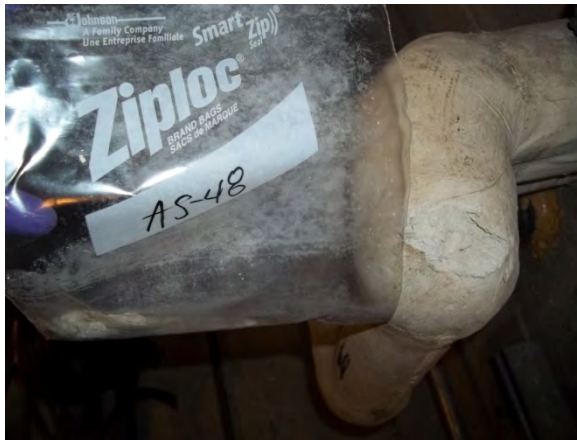


Photo 49: View of pipe elbow parging sample AS-48.



Photo 50: View of vinyl floor tile and mastic sample AS-49.



Photo 51: View of vinyl floor tile and mastic sample AS-50.

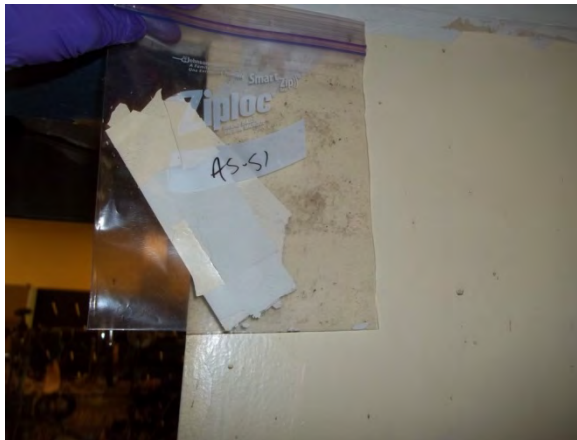


Photo 52: View of drywall joint compound and tape sample AS-51.



Photo 53: View of countertop sample AS-52.



Photo 54: View of floor levelling compound sample AS-53.



Photo 55: View of drywall joint compound and tape sample AS-54.



Photo 56: View of carpet and mastic sample AS-55.

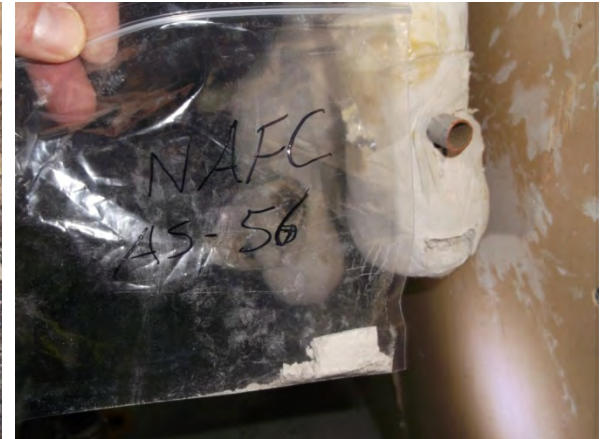


Photo 57: View of pipe elbow parging sample AS-56.



Photo 58: View of straight-run pipe insulation sample AS-57.

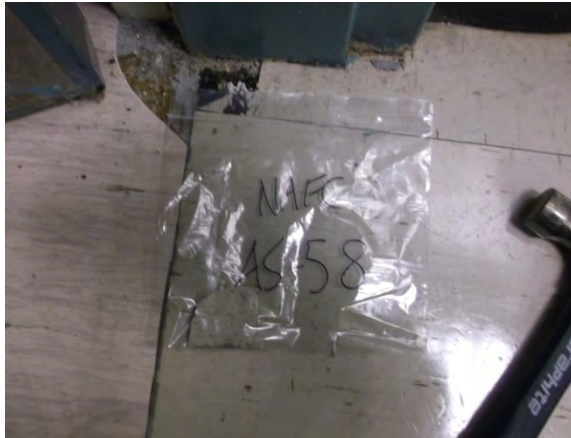


Photo 59: View of vinyl floor tile and mastic sample AS-58.



Photo 60: View of straight-run pipe insulation sample AS-59.



Photo 61: View of straight-run pipe insulation sample AS-60.

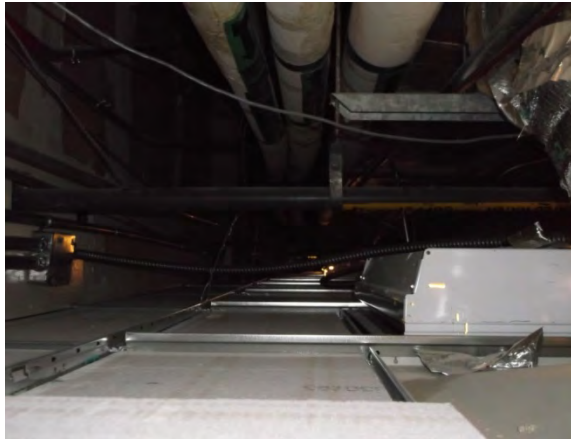


Photo 62: Location of drywall joint compound and tape sample AS-61.



Photo 63: View of pipe elbow parging sample AS-62.



Photo 64: View of HVAC duct insulation sample AS-63.



Photo 65: View of vinyl sheet flooring and mastic sample AS-64.



Photo 66: View of vinyl floor tile and mastic sample AS-65.



Photo 67: View of oven brick sample AS-66.

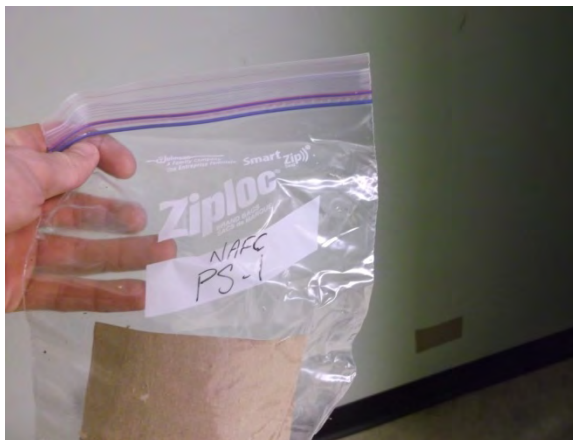


Photo 68: View of paint sample PS-01.

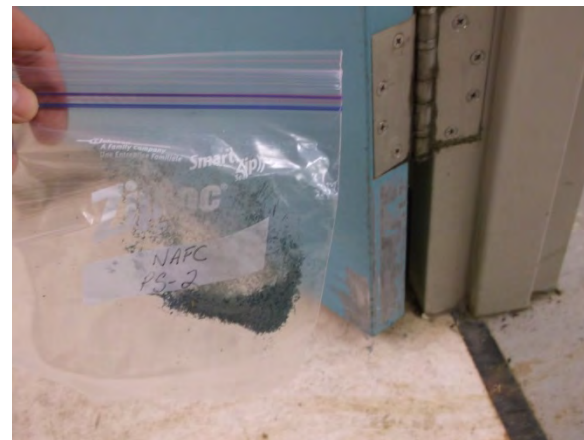


Photo 69: View of paint sample PS-02.



Photo 70: View of paint sample PS-03.



Photo 71: View of paint sample PS-04.



Photo 72: View of paint sample PS-05.

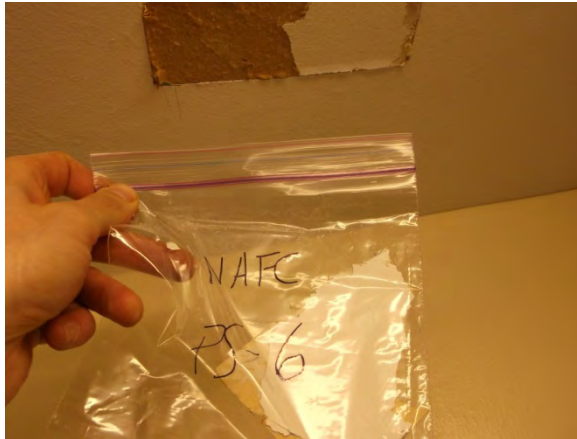


Photo 73: View of paint sample PS-06.



Photo 74: View of paint sample PS-07.



Photo 75: View of paint sample PS-08.

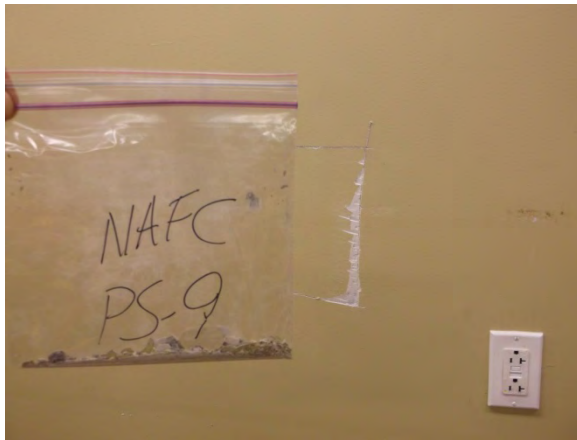


Photo 76: View of paint sample PS-09.



Photo 77: Location of paint sample PS-10.

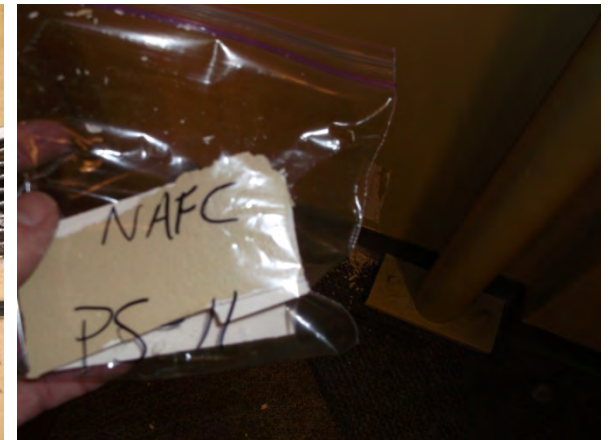


Photo 78: View of paint sample PS-11.



Photo 79: View of paint sample PS-12.



Photo 80: View of paint sample PS-13.

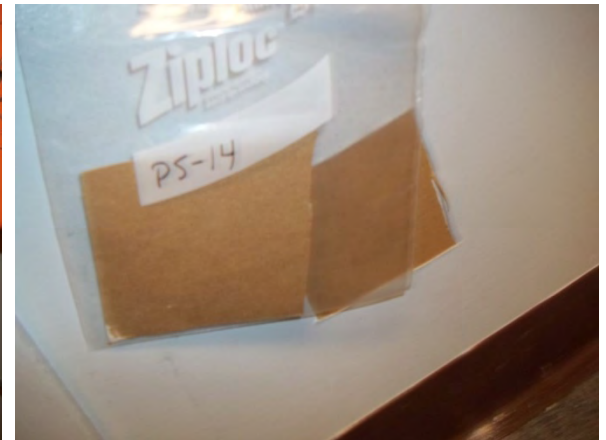


Photo 81: View of paint sample PS-14.



Photo 82: View of paint sample PS-15.



Photo 83: View of paint sample PS-16.

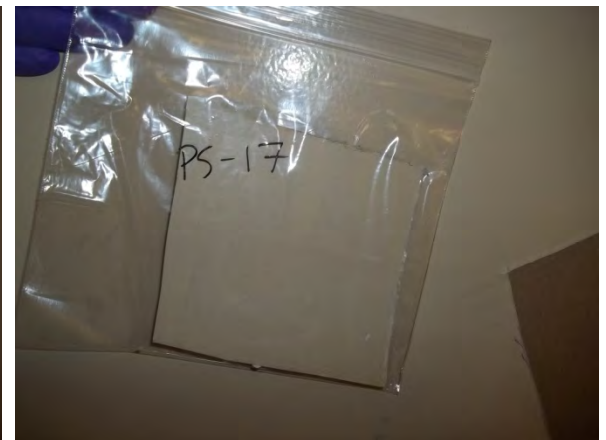


Photo 84: View of paint sample PS-17.



Photo 85: View of paint sample PS-18.



Photo 86: View of paint sample PS-19.



Photo 87: View of mould sample MS-01.



Photo 88: View of water staining on drywall under a sink in N20-118.



Photo 89: View of acoustic ceiling tile water stain in M19-101.



Photo 90: View of acoustic ceiling tile water stain in N20-108A.



Photo 91: View of water staining and suspected visible mould growth on drywall in N20-125.



Photo 92: View of water staining and suspected visible mould growth above ceiling tiles in N20-101.



Photo 93: View of fume hood in N20-115.



Photo 94: View of fume hood in N20-115.



Photo 95: View of laboratory sink in N20-115.



Photo 96: View of fume hood in N20-116.



Photo 97: View of laboratory sink in N20-118.



Photo 98: View of laboratory sink in N20-119.



Photo 99: View of fume hood in N20-120.



Photo 100: View of perchloric acid label on fume hood in N20-120.



Photo 101: View of fume hood in N20-120.

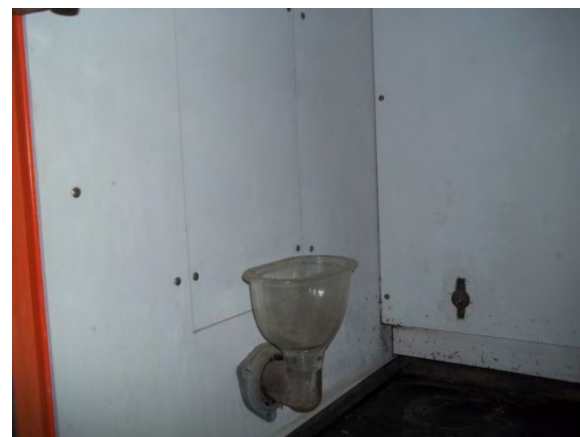


Photo 102: View of drain inside fume hood in N20-120.



Photo 103: View of fume hood in N20-122.



Photo 104: View of drain inside fume hood in N20-122.



Photo 105: View of fume hood in N20-123.



Photo 106: View of fume hood in N20-123.



Photo 107: View of drain inside fume hood in N20-123.



Photo 108: View of fume hood in N20-124/N20-124a.



Photo 109: View of fume hood in N20-124/
N20-124a.



Photo 110: View of fume hood in P20-125.



Photo 111: View of fume hood in P20-112.



Photo 112: View of laboratory drainage
piping in P20-112.



Photo 113: View of piping in service
corridor N20-125.



Photo 114: View of piping in service corridor
N20-125.



Photo 115: View of piping in service corridor N20-125.



Photo 116: View of piping in service corridor N20-125.



Photo 117: View of white rectangular Outlet thermostat.



Photo 118: View of silver rectangular Honeywell thermostat.



Photo 119: View of steel rectangular Honeywell thermostat.



Photo 120: View of large white rectangular Honeywell thermostat.



Photo 121: View of yellow RDF thermostat.



Photo 122: View of white Honeywell rectangular (left) and electric square (right) thermostats.



Photo 123: View of white Honeywell electric square thermostat.

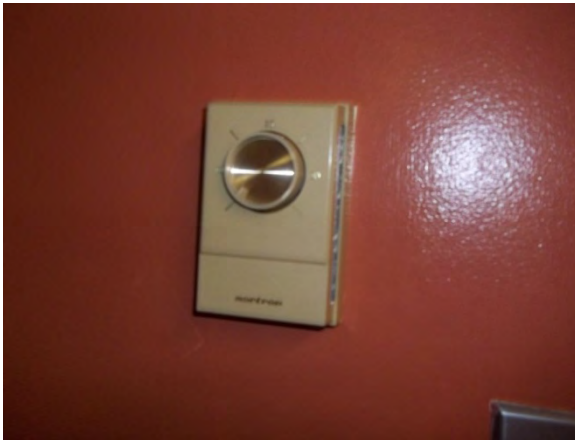


Photo 124: View of Norton electric thermostat.



Photo 125: View of brown Honeywell rectangular thermostat.



Photo 126: View of portable air conditioning unit.



Photo 127: View of cooling unit.



Photo 128: View of laboratory refrigeration unit.



Photo 129: View of domestic refrigerator.



Photo 130: View of dry chemical fire extinguisher.

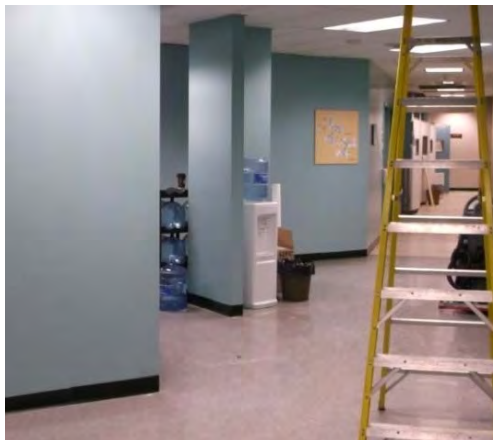


Photo 131: View of water bottle cooler.



Photo 132: View of emergency light fixture.

APPENDIX C

Sample and Analytical Summary Tables

Table C-1: Asbestos Sample Descriptions and Analytical Results

Sample ID	Material (Layer) Analyzed	Detailed Material Description	Sample Location (Room No.)	Analytical Result
AS-01	Vinyl Sheet Flooring	Grey/beige vinyl sheet flooring.	M19-103	ND
AS-02	Baseboard and Mastic	Black baseboard with beige mastic.	M19-103	ND
AS-03	Ceiling Tile	Acoustic ceiling tile (24"x48") (large/small pinhole pattern).	M19-103	ND
AS-04	Duct Insulation	Ductwork insulation (foil on paper on yellow insulation).	M19-103	ND
AS-05	Vinyl Sheet Flooring	Blue with grey speck pattern on vinyl sheet flooring.	M19-102	ND
AS-06	Drywall Joint Compound	Drywall joint compound with tape.	M19-102	ND
AS-07	Pipe Elbow Parging	White wrap and parging on 4" pipe elbow.	M19-101	ND
AS-08	Pipe Insulation	Yellow insulation on straight run piping with white wrap.	M19-101	ND
AS-09	Vinyl Floor Tile and Mastic	Beige 12"x12" vinyl floor tiles with purple streaks pattern and beige mastic.	N20-114	ND
AS-10	Caulking	White caulking around seams of metal sheet flooring.	N20-113	ND
AS-11	Drywall Joint Compound	Drywall joint compound with tape.	N20-109	3% Chrysotile
AS-12	Pipe Elbow Parging	White parging on 3" pipe elbow.	N20-109	ND
AS-13	Ceramic Tile Grout	Beige ceramic tile grout on floor.	019-103	ND
AS-14	Ceramic Tile	Beige 12"x12" ceramic tile on floor.	019-103	ND
AS-15	Ceramic Tile and Grout	Dark beige 8"x8" ceramic tile and grout on floor.	019-104	ND
AS-16	Stucco	White stucco on drywall ceiling.	019-104	ND
AS-17	Ceramic Tile and Grout	Light grey 12"x12" ceramic tile with grey grout on floor.	019-102	ND
AS-18	Concrete Floor Coating	Light brown concrete floor covering.	P20-113	ND
AS-19	Ceiling Tile	Acoustic ceiling tile (24"x48") (large fissure with pinholes).	P20-112	1%
AS-20	Transite Wall Board	Grey transite wall board inside fumehood.	P20-112	20% Chrysotile
AS-21	Ceiling Tile	Acoustic ceiling tile (24"x24") (large pinhole with texture pattern).	P20-110	ND
AS-22	Ceiling Tile	Acoustic ceiling tile (24"x24") (pinholes and fleck pattern).	P20-109	ND

Notes:

ND: non-detect

ND = <1% asbestos

Shaded results greater than 1% asbestos by dry weight are considered to be asbestos-containing materials (ACMs) as outlined in the Newfoundland and Labrador Asbestos Abatement Regulations (Reg. 111/98)



Table C-1: Asbestos Sample Descriptions and Analytical Results (Continued)

Sample ID	Material (Layer) Analyzed	Detailed Material Description	Sample Location (Room No.)	Analytical Result
AS-23	Vinyl Sheet Flooring and Mastic	Grey with light grey vinyl sheet flooring with beige mastic.	P20-108	ND
AS-24	Baseboard and Mastic	Black baseboard with beige mastic.	P20-108	ND
AS-25	Drywall Joint Compound	Drywall joint compound.	P20-108	ND
AS-26	Wood Veneer	Wood veneer with red adhesive on window sil.	P20-106	ND
AS-27	Vinyl Sheet Flooring and Mastic	Beige with light brown fleck pattern vinyl sheet flooring with beige mastic.	P20-105	ND
AS-28	Ceiling Tile	Acoustic ceiling tile (24"x48") (large/small pinhole pattern).	P20-103	ND
AS-29	Vinyl Floor Tile	White 12"x12" vinyl floor tile with black streak pattern.	P20-102	3% Chrysotile
AS-30	Pipe Elbow Parging	White wrap and parging on 3" pipe elbow.	021-104	ND
AS-31	Cement Wall Board	Grey cement wall board.	021-101	ND
AS-32	Carpet and Adhesive	Grey carpet tile with black adhesive.	021-101A	ND
AS-33	Baseboard and Mastic	Grey baseboard with beige mastic.	021-101A	ND
AS-34	Ceramic Tile and Grout	Dark grey 6"x6" ceramic tile with grey grout.	N20-104	ND
AS-35	Concrete Masonry Block Mortar	Grey concrete masonry block with grey mortar.	M21-103	ND
AS-36	Concrete Floor Coating	Brown concrete floor coating.	M21-103	ND
AS-37	Vinyl Sheet Flooring and Mastic	Beige vinyl sheet flooring with blue streak pattern with beige mastic	N20-124/N20-124A	ND
AS-38	Drywall Joint Compound	Drywall joint compound with tape.	N20-124/N20-124A	ND
AS-39	Countertop	Black countertop with grey specks and beige adhesive.	N20-121	ND
AS-40	Countertop	Black countertop.	N20-122	ND
AS-41	Vinyl Floor Tile and Mastic	Brown 12"x12" vinyl floor tile with black mastic.	N20-119	3% Chrysotile
AS-42	Vinyl Floor Tile and Mastic	White 12"x12" vinyl floor tile with black mastic.	N20-119	ND
AS-43	Pipe Elbow Parging	White wrap and parging on 3" pipe elbow.	N20-125	ND
AS-44	Transite Wall Board	Transite wall board below and around ovens.	N20-120	30% Chrysotile

Notes:

ND: non-detect

ND = <1% asbestos

Shaded results greater than 1% asbestos by dry weight are considered to be asbestos-containing materials (ACMs) as outlined in the Newfoundland and Labrador Asbestos Abatement Regulations (Reg. 111/98)



Table C-1: Asbestos Sample Descriptions and Analytical Results (Continued)

Sample ID	Material (Layer) Analyzed	Detailed Material Description	Sample Location (Room No.)	Analytical Result
AS-45	Drywall Joint Compound	Drywall joint compound with tape.	N20-118	4% Chrysotile
AS-46	Carpet and Adhesive	Grey carpet with yellow adhesive.	N20-108	ND
AS-47	Pipe Elbow Insulation	White wrap on 3" pipe elbow over cement.	P20-115	ND
AS-48	Pipe Elbow Parging	White wrap and parging on 3" pipe elbow.	P20-115	ND
AS-49	Vinyl Floor Tile and Mastic	Red 12"x12" vinyl floor tile with black mastic.	N20-107	ND
AS-50	Vinyl Floor Tile and Mastic	Orange/Brown 12"x12" vinyl floor tile with black mastic.	N20-107	ND
AS-51	Drywall Joint Compound	Drywall joint compound with tape.	N20-107	ND
AS-52	Countertop	Black veneer countertop.	P20-121	ND
AS-53	Floor Leveling Compound	Grey floor leveling compound.	P20-125	ND
AS-54	Drywall Joint Compound	Drywall joint compound with tape (ceiling).	P20-127	3% Chrysotile
AS-55	Carpet	Multicolored carpet with beige adhesive.	P20-119	ND
AS-56	Pipe Elbow Parging	White wrap and parging on 3" pipe elbow.	P20-123	ND
AS-57	Pipe Insulation	White wrap, foil and yellow fibreglass insulation on 3" pipe (straight).	P20-123	ND
AS-58	Vinyl Floor Tile	Offwhite 12"x12" vinyl floor tile with brown streak pattern.	N20-101	ND
AS-59	Pipe Insulation	White wrap, foil and yellow fibreglass insulation on 6" pipe (straight).	N20-101	ND
AS-60	Pipe Insulation	White wrap, foil and yellow fibreglass insulation on 4" pipe (straight).	N20-101	ND
AS-61	Drywall Joint Compound	Drywall joint compound with tape.	P20-101	3% Chrysotile
AS-62	Pipe Elbow Parging	White wrap and parging on 6" pipe elbow.	019-101	ND
AS-63	Duct Insulation	HVAC ducting foil on yellow insulation.	P20-101	ND
AS-64	Vinyl Sheet Flooring and Mastic	Light brown with brown speck pattern vinyl sheet flooring with grey mastic.	P20-104	ND
AS-65	Vinyl Floor Tile	Off-white 12"x12" vinyl floor tile with grey flecks.	N20-101	ND
AS-66	Brick	White bricks in oven.	N20-120	ND

Notes:

ND: non-detect

ND = <1% asbestos

Shaded results greater than 1% asbestos by dry weight are considered to be asbestos-containing materials (ACMs) as outlined in the Newfoundland and Labrador Asbestos Abatement Regulations (Reg. 111/98)



Table C-2: Paint Sample Descriptions and Lead Analytical Results

Sample ID	Colour Description	Substrate	Sample Location (Room No.)	RDL (mg/kg)	Total Lead (mg/kg)
PS-01	Mint green	Drywall	M19-103	5.0	<5.0
PS-02	Bluish-green	Wood	M19-103	16.0 *	<16
PS-03	Light grey	Drywall	M19-102	5.0	<5.0
PS-04	Grey	Drywall	M19-101	5.0	<5.0
PS-05	Light grey	Concrete	M19-101	5.0	6.6
PS-06	White	Drywall	P20-113	5.0	13
PS-07	Light brown	Drywall	P20-105	5.0	930
PS-08	Light pink	Drywall	P20-104	5.0	920
PS-09	Light brown/green	Drywall	O21-101	5.0	11
PS-10	Light brownish yellow	Concrete	O21-101	5.0	7.3
PS-11	Light yellow	Drywall	O21-101A	5.0	<5.0
PS-12	Brown	Drywall	M21-106	5.0	<5.0
PS-13	Orange	Metal	N20-122	5.0	800
PS-14	Light blue	Drywall	N20-108	5.0	<5.0
PS-15	Yellow	Wood	P20-124	5.0	650
PS-16	Dark Blue	Drywall	N20-107	5.0	<5.0
PS-17	Beige (glossy)	Drywall	P20-120	5.0	<5.0
PS-18	Rusty brown	Drywall	P20-127	5.0	<5.0
PS-19	Greenish Blue	Drywall	P20-101	5.0	220

Notes:

RDL: Reportable detection limit

<X: Non Detect

HPA: Hazardous Products Act

* : Elevated reporting limit due to low sample weight used in digestion

Bold and shaded results indicate that lead concentration is above the relevant Federal HPA criterion of 90 mg/kg

Shaded results indicate that lead concentration is above the former Federal HPA criterion of 5000 mg/kg



Table C-3: Paint Sample Descriptions and Mercury Analytical Results

Sample ID	Colour Description	Substrate	Sample Location (Room No.)	RDL (mg/kg)	Total Mercury (mg/kg)
PS-01	Mint green	Drywall	M19-103	1.0	<1.0
PS-02	Bluish-green	Wood	M19-103	3.1 *	<3.1
PS-03	Light grey	Drywall	M19-102	1.0	<1.0
PS-04	Grey	Drywall	M19-101	1.0	<1.0
PS-05	Light grey	Concrete	M19-101	1.0	<1.0
PS-06	White	Drywall	P20-113	1.0	<u>19</u>
PS-07	Light brown	Drywall	P20-105	1.0	8.8
PS-08	Light pink	Drywall	P20-104	1.0	10
PS-09	Light brown/green	Drywall	O21-101	1.0	<1.0
PS-10	Light brownish yellow	Concrete	O21-101	1.0	<1.0
PS-11	Light yellow	Drywall	O21-101A	1.0	<u>16</u>
PS-12	Brown	Drywall	M21-106	1.0	<1.0
PS-13	Orange	Metal	N20-122	1.0	<1.0
PS-14	Light blue	Drywall	N20-108	1.0	<u>21</u>
PS-15	Yellow	Wood	P20-124	1.0	<1.0
PS-16	Dark Blue	Drywall	N20-107	1.0	<1.0
PS-17	Beige (glossy)	Drywall	P20-120	1.0	<1.0
PS-18	Rusty brown	Drywall	P20-127	1.0	<1.0
PS-19	Greenish Blue	Drywall	P20-101	1.0	8.1

Notes:

RDL: Reportable detection limit

<X: Non Detect

HPA: Hazardous Products Act

* : Elevated reporting limit due to low sample weight used in digestion.

Bolded, italicized and underlined results indicate that mercury concentration is above the Federal HPA criterion of 10 mg/kg

Bolded and shaded results indicate that mercury concentration is above the Canadian Council of Ministers of the Environment Canadian Soil Quality Guidelines for mercury in soil at a commercial site (24 mg/kg)



Table C-4: Paint Sample Descriptions and PCB Analytical Results

Sample ID	Colour Description	Substrate	Sample Location (Room No.)	MDL (mg/kg)	Total PCB (mg/kg)
PS-10	Light Brownish Yellow	Concrete	O21-101	5.0	<5.0
PS-16	Dark Blue	Drywall	N20-107	5.0	<5.0
PS-17	Beige (glossy)	Drywall	P20-120	5.0	<5.0
PS-19	Greenish Blue	Drywall	P20-101	5.0	<5.0

Notes:

MDL: Method detection limit

<X: Non Detect

Bold and shaded results indicate that PCB concentration is above the Canadian Council of Ministers of the Environment Canadian Soil Quality Guidelines for PCBs in soil at a commercial site (33 mg/kg)

Table C-5: Mould Sample Descriptions and Direct Microscopic Examination Results

Sample ID	Sample Description	Sample Location (Room No.)	Mould Identified, in Rank Order	Mould Growth
MS-1	Unfinished drywall	N20-119	<i>Stachybotrys</i>	Abundant

Notes:

1. Mould growth is subjectively assessed with description terms sparse, moderate and abundant.
2. The presence of spores (lacking other fungal structures associated) is assessed as following:
a few spores (<10 spores average per microscopic field at 400X), some spores (10 - 100 spores average per microscopic field at 400X), many spores (> 100 spores average per microscopic field at 400X).
3. The presence of a few spores generally represents settled spores on the surface of the sample rather than indicating mould growth.
4. The results are only related to the samples analyzed.



APPENDIX D

Laboratory Certificates of Analyses



EMSL Canada Inc.

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Attn: Lori Wiseman
AMEC Environment & Infrastructure
133 Crosbie Road
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Phone: (709) 722-7023
Fax: (709) 722-7353
Collected:
Received: 2/19/2013
Analyzed: 2/22/2013

Proj: TF13076482

Summary Test Report for Asbestos Analysis via EPA 600/R-93/116

Client Sample ID: AS-01

Lab Sample ID: 551300889-0001

Sample Description: M19-103/BEIGE VINYL FLOOR

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/21/2013	Gray/Beige	0%	100%	None Detected	

Client Sample ID: AS-02

Lab Sample ID: 551300889-0002

Sample Description: M19-103/BLACK BASEBOARD/BEIGE MASTIC

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/21/2013	White/Black	0%	100%	None Detected	

Client Sample ID: AS-03

Lab Sample ID: 551300889-0003

Sample Description: M19-103/ACCOUSTIC CEILING TILE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/21/2013	Tan/White	80%	20%	None Detected	

Client Sample ID: AS-04

Lab Sample ID: 551300889-0004

Sample Description: M19-103/DUCT INSULATION

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/21/2013	Tan/Silver/Yellow	80%	20%	None Detected	

Client Sample ID: AS-05

Lab Sample ID: 551300889-0005

Sample Description: M19-102/BLUE/GREY SHEET FLOOR

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/21/2013	Gray/Various	0%	100%	None Detected	

Client Sample ID: AS-06

Lab Sample ID: 551300889-0006

Sample Description: M19-102/DRYWALL JOINT COMPOUND/TAPE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/21/2013	White/Various	0%	100%	None Detected	

Client Sample ID: AS-07

Lab Sample ID: 551300889-0007

Sample Description: M19-101/ELBOW PARGING (4")

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/21/2013	White	0%	100%	None Detected	



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Summary Test Report for Asbestos Analysis via EPA 600/R-93/116

Client Sample ID: AS-08

Lab Sample ID: 551300889-0008

Sample Description: M19-101/PIPE INSULATION

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/21/2013	Tan/Silver/Yellow	90%	10%	None Detected	

Client Sample ID: AS-09

Lab Sample ID: 551300889-0009

Sample Description: N20-114/BEIGE WITH LT PURPLE SHEET FLOOR

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/21/2013	Beige	0%	100%	None Detected	

Client Sample ID: AS-10

Lab Sample ID: 551300889-0010

Sample Description: N20-114/WHITE CAULKING

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/21/2013	White	0%	100%	None Detected	

Client Sample ID: AS-11

Lab Sample ID: 551300889-0011

Sample Description: N20-109/DRYWALL JOINT COMPOUND/TAPE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/21/2013	White	0%	97%	3% Chrysotile	

Client Sample ID: AS-12

Lab Sample ID: 551300889-0012

Sample Description: N20-109/ELBOW PARGING (3")

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/21/2013	Gray	0%	100%	None Detected	

Client Sample ID: AS-13

Lab Sample ID: 551300889-0013

Sample Description: 019-103/BEIGE TILE GROUT

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/21/2013	Tan	0%	100%	None Detected	

Client Sample ID: AS-14

Lab Sample ID: 551300889-0014

Sample Description: 019-103/BEIGE FLOOR TILE CERAMIC

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/21/2013	Gray	0%	100%	None Detected	

Client Sample ID: AS-15

Lab Sample ID: 551300889-0015

Sample Description: 019-104/8" X 8" CERAMIC TILE GROUT, MASTIC

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/21/2013	Gray/Tan	0%	100%	None Detected	



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Summary Test Report for Asbestos Analysis via EPA 600/R-93/116

Client Sample ID: AS-16

Lab Sample ID: 551300889-0016

Sample Description: 019-104/STUCCO

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/21/2013	White	0%	100%	None Detected	

Client Sample ID: AS-17

Lab Sample ID: 551300889-0017

Sample Description: 019-102/LT GREY CERAMIC, GREY GROUT

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/21/2013	Beige	0%	100%	None Detected	

Client Sample ID: AS-18

Lab Sample ID: 551300889-0018

Sample Description: P20-113/LT BROWN EPOXY FLOOR

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/21/2013	Tan	0%	100%	None Detected	

Client Sample ID: AS-19

Lab Sample ID: 551300889-0019

Sample Description: P20-112/ACOUSTIC CEILING TILE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/21/2013	Tan/Pink	0%	99%	1% Chrysotile	

Client Sample ID: AS-20

Lab Sample ID: 551300889-0020

Sample Description: P20-110/TRANSITE SHEETING ON FUME HOOD

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/21/2013	Gray	0%	80%	20% Chrysotile	

Client Sample ID: AS-21

Lab Sample ID: 551300889-0021

Sample Description: P20-110/ACOUSTIC CEILING TILE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/21/2013	Tan/White	80%	20%	None Detected	

Client Sample ID: AS-22

Lab Sample ID: 551300889-0022

Sample Description: P20-109/ACOUSTIC CEILING TILE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/21/2013	Tan/White	80%	20%	None Detected	

Client Sample ID: AS-23

Lab Sample ID: 551300889-0023

Sample Description: P20-108/GREY WITH LT GREY FLOORING

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/21/2013	Gray/Various	0%	100%	None Detected	



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Summary Test Report for Asbestos Analysis via EPA 600/R-93/116

Client Sample ID: AS-24 **Lab Sample ID:** 551300889-0024
Sample Description: P20-108/LT BROWN BASEBOARD WITH GREY MASTIC

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/21/2013	Tan/White	0%	100%	None Detected	

Client Sample ID: AS-25 **Lab Sample ID:** 551300889-0025
Sample Description: P20-108/DRYWALL JOINT COMPOUND/TAPE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/21/2013	White	0%	100%	None Detected	

Client Sample ID: AS-26 **Lab Sample ID:** 551300889-0026
Sample Description: P20-106/WOOD VENEER ON WINDOW SILL/RED MASTIC

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/21/2013	Brown/Red	0%	100%	None Detected	

Client Sample ID: AS-27 **Lab Sample ID:** 551300889-0027
Sample Description: P20-105/BEIGE FLOORING WITH LT BROWN FLECKS WITH BEIGE MASTIC

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/21/2013	Beige	0%	100%	None Detected	

Client Sample ID: AS-28 **Lab Sample ID:** 551300889-0028
Sample Description: P20-103/ACOUSTIC CEILING TILE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/21/2013	Tan/White	80%	20%	None Detected	

Client Sample ID: AS-29 **Lab Sample ID:** 551300889-0029
Sample Description: P20-102/1' X 1 VINYL FLOOR TILE OFFWHITE WITH GREY STREAKS BLACK MASTIC

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/21/2013	Beige	0%	97%	3% Chrysotile	

Client Sample ID: AS-30 **Lab Sample ID:** 551300889-0030
Sample Description: O21-105/ELBOW PARGING ON 3"

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/21/2013	Beige	0%	100%	None Detected	

Client Sample ID: AS-31 **Lab Sample ID:** 551300889-0031
Sample Description: O21-101/CEMENT WALL SHEETING

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/21/2013	Gray/White	0%	100%	None Detected	



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Summary Test Report for Asbestos Analysis via EPA 600/R-93/116

Client Sample ID: AS-32

Lab Sample ID: 551300889-0032

Sample Description: O21-101A/GREY CARPET WITH BLACK MASTIC

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/21/2013	Gray/Various/Black	0%	100%	None Detected	

Client Sample ID: AS-33

Lab Sample ID: 551300889-0033

Sample Description: O21-101A/GREY BASEBOARD WITH BEIGE MASTIC

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/21/2013	Gray/Tan	0%	100%	None Detected	

Client Sample ID: AS-34

Lab Sample ID: 551300889-0034

Sample Description: O21-101A/DK GREY 6" X 6" TILE WITH GREY GROUTS

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/21/2013	Brown/Gray/Various	0%	100%	None Detected	

Client Sample ID: AS-35

Lab Sample ID: 551300889-0035

Sample Description: M21-103/MORTAR AND CINDER BLOCK

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/21/2013	Gray/White	0%	100%	None Detected	

Client Sample ID: AS-36

Lab Sample ID: 551300889-0036

Sample Description: M21-103/LT BROWN EXPOXY FLOOR

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/21/2013	Tan	0%	100%	None Detected	

Client Sample ID: AS-37

Lab Sample ID: 551300889-0037

Sample Description: N20-124/BEIGE WITH GREY AND BLUE STREAKS FLOORING

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/21/2013	Gray/Tan	0%	100%	None Detected	

Client Sample ID: AS-38

Lab Sample ID: 551300889-0038

Sample Description: N20-124/DRYWALL JOINT COMPOUND

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/21/2013	White	0%	100%	None Detected	

Client Sample ID: AS-39

Lab Sample ID: 551300889-0039

Sample Description: N20-124/BLACK COUNTERTOP WITH GREY SPECKS

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/21/2013	Tan/Black	0%	100%	None Detected	



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Summary Test Report for Asbestos Analysis via EPA 600/R-93/116

Client Sample ID: AS-40 **Lab Sample ID:** 551300889-0040

Sample Description: N20-121/BLACK COUNTERTOP

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/22/2013	Gray	0%	100%	None Detected	

Client Sample ID: AS-41 **Lab Sample ID:** 551300889-0041

Sample Description: N20-119A/1' X 1' BROWN VFT

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/22/2013	Rust	0%	97%	3% Chrysotile	

Client Sample ID: AS-42 **Lab Sample ID:** 551300889-0042

Sample Description: N20-119A/1' X 1' WHITE VFT

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/22/2013	White	0%	100%	None Detected	

Client Sample ID: AS-43 **Lab Sample ID:** 551300889-0043

Sample Description: N20-125/WRAP OVER PARGING ON ELBOW

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/22/2013	Beige	0%	100%	None Detected	

Client Sample ID: AS-44 **Lab Sample ID:** 551300889-0044

Sample Description: N20-120/TRANSITE SHEET ON FUME HOOD

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/22/2013	Gray	0%	70%	30% Chrysotile	

Client Sample ID: AS-45 **Lab Sample ID:** 551300889-0045

Sample Description: N20-120/DRYWALL JOINT COMPOUND

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/22/2013	Gray	0%	96%	4% Chrysotile	

Client Sample ID: AS-46 **Lab Sample ID:** 551300889-0046

Sample Description: N20-108/GREY CARPET WITH YELLOW MASTIC

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/22/2013	Tan/Various/Blue	0%	100%	None Detected	

Client Sample ID: AS-47 **Lab Sample ID:** 551300889-0047

Sample Description: P20-115/WHITE WRAP ON GREY CEMENT

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/22/2013	Gray	0%	100%	None Detected	



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Client Sample ID: AS-48 **Lab Sample ID:** 551300889-0048
Sample Description: P20-115/WHITE WRAP OVER PARGING ELBOW

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/22/2013	Gray	0%	100%	None Detected	

Client Sample ID: AS-49 **Lab Sample ID:** 551300889-0049
Sample Description: N20-107/RED 1' X 1' VFT

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/22/2013	Rust	0%	100%	None Detected	

Client Sample ID: AS-50 **Lab Sample ID:** 551300889-0050
Sample Description: N20-107/ORANGE/BROWN 1' X 1' VFT

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/22/2013	Red	0%	100%	None Detected	

Client Sample ID: AS-51 **Lab Sample ID:** 551300889-0051
Sample Description: N20-107/DRYWALL JOINT COMPOUND TAPE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/22/2013	Tan	0%	100%	None Detected	

Client Sample ID: AS-52 **Lab Sample ID:** 551300889-0052
Sample Description: P20-121/BLACK COUNTERTOP

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/22/2013	Gray/Tan	0%	100%	None Detected	

Client Sample ID: AS-53 **Lab Sample ID:** 551300889-0053
Sample Description: P20-125/GREY FLOOR LEVELING COMPOUND

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/22/2013	Gray	0%	100%	None Detected	

Client Sample ID: AS-54 **Lab Sample ID:** 551300889-0054
Sample Description: P20-127/DRYWALL JOINT COMPOUND/TAPE ON CEILING

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/22/2013	Gray	0%	97%	3% Chrysotile	

Client Sample ID: AS-55 **Lab Sample ID:** 551300889-0055
Sample Description: P20-127/CARPET BEIGE MASTIC

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/22/2013	Various/Blue	0%	100%	None Detected	



EMSL Canada Inc.

10 Falconer Drive, Unit #3 Mississauga, ON L5N 3L8
Phone/Fax: 289-997-4602 / (289) 997-4607
<http://www.emsl.com> / torontolab@emsl.com

EMSL Canada Order 551300889
Customer ID: 55MEEN26
Customer PO: TF13076482
Project ID:

Summary Test Report for Asbestos Analysis via EPA 600/R-93/116

Client Sample ID: AS-56

Lab Sample ID: 551300889-0056

Sample Description: P20-128/WHITE WRAP/PARGING ON ELBOW

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/22/2013	Gray	0%	100%	None Detected	

Client Sample ID: AS-57

Lab Sample ID: 551300889-0057

Sample Description: P20-128/WHITE WRAP/FOIL/YELLOW INSULATION

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/22/2013	Yellow/Beige	60%	40%	None Detected	

Client Sample ID: AS-58

Lab Sample ID: 551300889-0058

Sample Description: N20-101/1' X 1' VFT OFF WHITE WITH BROWN STREAKS

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/22/2013	Gray	0%	100%	None Detected	

Client Sample ID: AS-59

Lab Sample ID: 551300889-0059

Sample Description: N20-101/WHITE WRAP/FOIL/YELLOW ON 6" PIPE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/22/2013	Yellow/Beige	80%	20%	None Detected	

Client Sample ID: AS-60

Lab Sample ID: 551300889-0060

Sample Description: N20-101/WHITE WRAP/FOIL/YELLOW ON 4" PIPE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/22/2013	Yellow/Beige	80%	20%	None Detected	

Client Sample ID: AS-61

Lab Sample ID: 551300889-0061

Sample Description: P20-101/DRYWALL JOINT COMPOUND/TAPE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/22/2013	White	0%	97%	3% Chrysotile	

Client Sample ID: AS-62

Lab Sample ID: 551300889-0062

Sample Description: P20-101/PARGING ON ELBOW 6" (WHITE WRAP)

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/22/2013	Tan	0%	100%	None Detected	

Client Sample ID: AS-63

Lab Sample ID: 551300889-0063

Sample Description: P20-101/FOIL WRAP OVER YELLOW INSULATION

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/22/2013	Tan/Silver/Yellow	35%	65%	None Detected	



EMSL Canada Inc.

10 Falconer Drive, Unit #3 Mississauga, ON L5N 3L8
Phone/Fax: 289-997-4602 / (289) 997-4607
<http://www.emsl.com> / torontolab@emsl.com

EMSL Canada Order 551300889
Customer ID: 55MEEN26
Customer PO: TF13076482
Project ID:

Summary Test Report for Asbestos Analysis via EPA 600/R-93/116

Client Sample ID: AS-64

Lab Sample ID: 551300889-0064

Sample Description: P20-104/LT BROWN WITH BROWN STREAKS WITH GREY MASTIC

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/22/2013	Gray/Beige	0%	100%	None Detected	

Client Sample ID: AS-65

Lab Sample ID: 551300889-0065

Sample Description: P20-104/1' X 1' VFT OFF WHITE WITH GREY FLECKS

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/22/2013	White	0%	100%	None Detected	

Client Sample ID: AS-66

Lab Sample ID: 551300889-0066

Sample Description: N20-120/WHITE FIRE BRICKS IN OVEN

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/22/2013	Brown/Gray	0%	100%	None Detected	

Analyst(s)

Matthew Davis PLM (66)

Kevin Pang
or other Approved Signatory

Any questions please contact Kevin Pang.

Samples analyzed by EPA 600/R-93/116 consistent with NLR 111/98. The estimated limit of detection for non-detect samples is <1%. Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. This report must not be used to claim product endorsement by NVLAP or any agency of the US Government.

Samples analyzed by EMSL Canada Inc. Mississauga, ON NVLAP Lab Code 200877-0

Initial report from: 02/22/2013 14:44:02

Your Project #: TF13076482
 Site Location: NAFC-CFIA
 Your C.O.C. #: B 086051, B 086052

Attention: Lori Wiseman

AMEC Environment & Infrastructure
 St John's - Standing Offer
 PO Box 13216
 133 Crosbie Rd, Suite 202
 St John's, NL
 A1B 4A5

Report Date: 2013/02/22

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B322661

Received: 2013/02/14, 09:49

Sample Matrix: Paint
 # Samples Received: 19

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Metals Paint Acid Extr. ICPMS (1)	19	2013/02/19	2013/02/19	ATL SOP 00059	Based on EPA6020A
PCBs in Paint by GC/ECD (1)	4	2013/02/19	2013/02/22		in house

Remarks:

Reporting results to two significant figures at the RDL is to permit statistical evaluation and is not intended to be an indication of analytical precision.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

* Results relate only to the items tested.

(1) This test was performed by Bedford

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Michelle Hill, Project Manager
 Email: MHill@maxxam.ca
 Phone# (902) 420-0203 Ext:289

=====

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 1

Maxxam Job #: B322661
Report Date: 2013/02/22

AMEC Environment & Infrastructure
Client Project #: TF13076482
Site Location: NAFC-CFIA
Sampler Initials: CT

ELEMENTS BY ATOMIC SPECTROSCOPY (PAINT)

Maxxam ID		QO2388		QO2389		QO2390	QO2391	QO2392	QO2393	QO2394	QO2395		
Sampling Date		2013/02/08		2013/02/08		2013/02/08	2013/02/08	2013/02/08	2013/02/08	2013/02/08	2013/02/08		
	Units	PS-01	RDL	PS-02	RDL	PS-03	PS-04	PS-05	PS-06	PS-07	PS-08	RDL	QC Batch
Metals													
Acid Extractable Lead (Pb)	mg/kg	<5.0	5.0	<16 ⁽¹⁾	16	<5.0	<5.0	6.6	13	930	920	5.0	3127018
Acid Extractable Mercury (Hg)	mg/kg	<1.0	1.0	<3.1 ⁽¹⁾	3.1	<1.0	<1.0	<1.0	19	8.8	10	1.0	3127018

Maxxam ID		QO2396	QO2397	QO2405	QO2406	QO2407	QO2408	QO2409		
Sampling Date		2013/02/08	2013/02/08	2013/02/08	2013/02/08	2013/02/08	2013/02/08	2013/02/08		
	Units	PS-09	PS-10	PS-11	PS-12	PS-13	PS-14	PS-15	RDL	QC Batch
Metals										
Acid Extractable Lead (Pb)	mg/kg	11	7.3	<5.0	<5.0	800	<5.0	650	5.0	3127018
Acid Extractable Mercury (Hg)	mg/kg	<1.0	<1.0	16	<1.0	<1.0	21	<1.0	1.0	3127018

Maxxam ID		QO2410	QO2411	QO2412	QO2412	QO2412	QO2413		
Sampling Date		2013/02/08	2013/02/08	2013/02/08	2013/02/08	2013/02/08	2013/02/08		
	Units	PS-16	PS-17	PS-18	PS-18 Lab-Dup	PS-18 Lab-Dup 2	PS-19	RDL	QC Batch
Metals									
Acid Extractable Lead (Pb)	mg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	220	5.0	3127018
Acid Extractable Mercury (Hg)	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0	8.1	1.0	3127018

POLYCHLORINATED BIPHENYLS BY GC-ECD (PAINT)

Maxxam ID		QO2397	QO2410	QO2411	QO2413		
Sampling Date		2013/02/08	2013/02/08	2013/02/08	2013/02/08		
	Units	PS-10	PS-16	PS-17	PS-19	RDL	QC Batch
PCBs							
Total PCB	mg/kg	<5.0	<5.0	<5.0	<5.0	5.0	3127582
Surrogate Recovery (%)							
Decachlorobiphenyl	%	32	21 ⁽²⁾	28 ⁽²⁾	51		3127582

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

(1) - Elevated reporting limit due to low sample weight used in the digestion.

(2) - PCB surrogate not within acceptance limits. Analysis was repeated with similar results.

Maxxam Job #: B322661
Report Date: 2013/02/22

AMEC Environment & Infrastructure
Client Project #: TF13076482
Site Location: NAFC-CFIA
Sampler Initials: CT

Package 1	13.8°C
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Each temperature is the average of up to three cooler temperatures taken at receipt

POLYCHLORINATED BIPHENYLS BY GC-ECD (PAINT)

PCBs in Paint by GC/ECD: This data was generated using accepted laboratory practices and standard Quality Control procedures. However, due to the absence of a recognized reference method for the PCB in Paint, an in-house method was used. Quality control samples were analyzed, however certain QC elements are unavailable, as noted:

Calculations of Method Detection Limit (MDL) as per CFR 40 (Part 136)

Accuracy and precision study

External performance evaluation study

Maxxam Job #: B322661
Report Date: 2013/02/22

AMEC Environment & Infrastructure
Client Project #: TF13076482
Site Location: NAFC-CFIA
Sampler Initials: CT

QUALITY ASSURANCE REPORT

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
3127018	Acid Extractable Lead (Pb)	2013/02/19	105	75 - 125	102	75 - 125	<5.0	mg/kg	NC	35
3127018	Acid Extractable Mercury (Hg)	2013/02/19	90	75 - 125	99	75 - 125	<1.0	mg/kg	NC	35
3127582	Decachlorobiphenyl	2013/02/22	37	30 - 130	35	30 - 130	80	%		
3127582	Total PCB	2013/02/22	72	60 - 130	113	60 - 130	<5.0	mg/kg	NC	50

N/A = Not Applicable

RPD = Relative Percent Difference

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

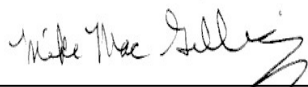
Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

Validation Signature Page

Maxxam Job #: B322661

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Mike Macgillivray, Scientific Specialist (Inorganics)



Robin Smith-Armstrong, Bedford SemiVol Spvsr

=====

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

[illegible]

Laboratory Analysis Report

To:

Lori Wiseman

AMEC Environment & Infrastructure

133 Crosbie Road

P.O. Box 13216

St. John's, Newfoundland

A1B 4A5

EMC LAB REPORT NUMBER: 40342

Job/Project Name: NAFC – CFIA

Job/Project No: TF13076482 **No. of Samples:** 1

Sample Type: Bulk **Date Received:** Feb 13/13

Analysis Method(s): Direct Microscopic Examination

Date Analyzed: Feb 15/13 **Date Reported:** Feb 19/13

Analyst: Weizhong Liu, Ph.D., *Mycologist*

Reviewed By: Lalita Sarlashkar, Ph.D., *Microbiologist*

Client's Sample ID	Lab Sample No.	Date Sampled	Description/Location	Mould Identified, in Rank Order	Mould Growth
	191333		MS-1	<i>Stachybotrys</i>	Abundant

Note:

1. Mould growth is subjectively assessed with description terms sparse, moderate and abundant.
2. The presence of spores (lacking other fungal structures associated) is assessed as following: a few spores (< 10 spores average per microscopic field at 400X), some spores (10 - 100 spores average per microscopic field at 400X), many spores (> 100 spores average per microscopic field at 400X).
3. The presence of a few spores generally represents settled spores on the surface of the sample rather than indicating mould growth.
4. The results are only related to the samples analyzed.

APPENDIX E

Room-By-Room Inspection Sheets

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	P20-101		Corridor	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	1'x1' VFT off white with brown streaks Area B 1'x1' VFT off white w large grey flecks	good Poor		AS-GS
Walls	Gyproc black base board	Good		
Ceiling	2'x4' ACT large pinhole 2 5'x11' pinhole	"		
Paint	Lt grey	"		
Insulation	—			
Piping	White 5" & 4" piping HVAC Ducting foil/insulation		30 Elbows 150' ± 3" 150' ± 4"	AS-GS full on ducting.
Lighting (fluorescent, incandescent, HG, vapour)	2'x2' Fluorescent (14)		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	2 rectangular Honeywell		Total: HG containing: Non-HG:	
Lead Containing Materials				
Mould / Water Staining				
Other (CO, VOCs, ODSs)				
Photos				

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungai sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
JAFB	019-101 + P20-101		Corridor	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	grey 5 lb grey speckles.	good		
Walls	gypsum black base board & Grey on P20-101	"		AS-61 Joint compound / tape
Ceiling	2'x4' ACT Lg pinhole	"		
Paint	Sea Green	"		PS-18
Insulation	—			
Piping	6" 4" Elbows	100' 100' 546" 45 45°		AS-62 AS-62 6" Elbow
Lighting (fluorescent, incandescent, HG, vapour)	2'x4' fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	Rectangular Honeywell		Total: HG containing: Non-HG:	
Lead Containing Materials	—			
Mould / Water Staining	Water staining @ end of P20-101			
Other (CO, VOCs, ODSs)				
Photos				

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	N20-101		Corridor	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	1/2" VFT OFF white w brown streaks	good		AS-58
Walls	Gypsum on 2 Metal on 1 (Culter runs/doors) black ins board.	"		
Ceiling	2'x4' ACT Large pinhole 5 small pinholes.	"		
Paint	Lt Gray on gypsum Sea Green on metal	"		
Insulation				
Piping	6" white wrap/felt/yellow (straight) 4" " " " " " " 3" " " " " " " 8" x 12" duct full wrap	" " "	full length of corridor	AS-59 AS-60
Lighting (fluorescent, incandescent, HG, vapour)	2'x2' fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)			Total: HG containing: Non-HG:	
Lead Containing Materials				
Mould / Water Staining				
Other (CO, VOCs, ODSs)	1516 ABC fire extinguisher.			
Photos				

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

- * doors to cooler (units) appear to be insulating along walls (No access)
- * fire rate doors 11
- * floor drain

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	P20-128		Service Corridor	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Concrete	Good		
Walls	Gypsum unfinished	"		
Ceiling	Concrete	"		
Paint	—	"		
Insulation	—			
Piping	Strength, 3" white wrap/felt/ yellow insulation (fibreglass) white wrap over flange	Good	1183' 12 Elbows	AS-57 Wrep AS-56 Elbow
Lighting (fluorescent, incandescent, HG, vapour)	—		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	—		Total: HG containing: Non-HG:	
Lead Containing Materials				
Mould / Water Staining				
Other (CO, VOCs, ODSs)				
Photos				

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	P20-119		Office	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Same as P20-118	Good		AS-55 Carpet & bitumastic
Walls		"		
Ceiling		"		
Paint		"		
Insulation		"		
Piping				
Lighting (fluorescent, incandescent, HG, vapour)	"		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	"	"	Total: HG containing: Non-HG:	
Lead Containing Materials	-			
Mould / Water Staining	-			
Other (CO, VOCs, ODSs)	-			
Photos	-			

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	P20-118		Office	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Blue carpet w grey + pink speckles	Good		
Walls	Gypsum & Black baseboard mastic			
Ceiling	2'x2' ACT fissure & pinhole			
Paint	Lt brown.			
Insulation	—			
Piping	—			
Lighting (fluorescent, incandescent, HG, vapour)	1 - 2'x4' fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	Nortron electric electric		Total: HG containing: Non-HG:	
Lead Containing Materials	—			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	—			
Photos	—			

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
MAFC	P20-127		Office	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Grey grey speck	good		
Walls	Gypsum	good		
Ceiling	Gypsum under hanging ceiling damaged	good		AS-54 Joint Compound and tape.
Paint	rusty Brown			PS-18
Insulation	—			
Piping	—			
Lighting (fluorescent, incandescent, HG, vapour)	3-254 Fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	Nortron Electric At access		Total: HG containing: Non-HG:	
Lead Containing Materials	—			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	—			
Photos	—			

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	P20 - 126		Lab	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Grey w Lt grey specks over brown tile 1'x1' VFT	good		
Walls	Gyproc	good		
Ceiling	Gyproc	good		
Paint	Lt brown			
Insulation	—			
Piping	Copper			
Lighting (fluorescent, incandescent, HG, vapour)	6+ 1'x4' Fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	rectangular Honeywell		Total: HG containing: Non-HG:	
Lead Containing Materials	Sawdust			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	—			
Photos				

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAEC	P20-120		Lab	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Grey & Lt grey speckle over biege & blue & white streaks over brown 1'x1' VFT	Good.		
Walls	Gyproc	"		PS
Ceiling	Gyproc	"		FS-17
Paint	Glossy biege	"		↓
Insulation	—			
Piping	Copper			
Lighting (fluorescent, incandescent, HG, vapour)	18 → 1'x4' Fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	rectangular Honeywell RDF Rectangular		Total: HG containing: Non-HG:	
Lead Containing Materials	Sander			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	Fire extinguisher 101b ABC			
Photos				

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

* Sink

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	P20-125		Lab	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Same as P20-121 over brown 1'x1' VFT Green floor: looking good	Good		AS-53
Walls	" "	" "		
Ceiling	Gypsum	" "		
Paint	Same as P20-121	" "		
Insulation	—	—		
Piping	—	—		
Lighting (fluorescent, incandescent, HG, vapour)	5 → 1'x4' fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	rectangular Honeywell		Total: HG containing: Non-HG:	
Lead Containing Materials	—			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	Black countertops solid 1016 Fire extinguisher ABC			
Photos				

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

x Brain

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	Lab P20-121		Lab	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	beige w blue streaks, white streaks	good		
Walls	3-8 ypc 1 - Cinder block	good		
Ceiling	2'x4' ACT large pinhole wtr small pinhole	good		
Paint	Lt grey on lower half white upper portion			
Insulation				
Piping	Copper			
Lighting (fluorescent, incandescent, HG, vapour)	11 - 2'x4' fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	rectangular Honeywell No access.		Total: HG containing: Non-HG:	
Lead Containing Materials	Solder			
Mould / Water Staining	-			
Other (CO, VOCs, ODSs)	Black veneer countertop.		AS-52	
Photos	-			

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFLC	P20-122		Incubator freezer	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Metal	Good		
Walls	Metal (White)	ff		
Ceiling	Metal	ff		
Paint	—			
Insulation	—			
Piping	—			
Lighting (fluorescent, incandescent, HG, vapour)	2-1'x4' fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	—		Total: HG containing: Non-HG:	
Lead Containing Materials	—			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	—			
Photos	—			

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	N20-107		Lab	


	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	grey to lt grey vinyl sheet over red 1'x1' VFT over brown/orange 1'x1' VFT	good.		AS-49 Red 1'x1' VFT PS-20 orange/brown 1'x1' V
Walls	Gypsum	"		AS-51 Joint compound Tape PS-16 dk blue
Ceiling	Gypsum	"		
Paint	lt yellow walls white ceiling	"		
Insulation	—			
Piping	Copper			
Lighting (fluorescent, incandescent, HG, vapour)	6 x 1'x4' fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	Square Honeywell electronic		Total: HG containing: Non-HG:	
Lead Containing Materials	Solder			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	Fire extinguisher 1016 ABC			
Photos	—			

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

* Drain
* Small fridge/freezing unit.

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	P20-122a			

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Same as P20-123	Good		
Walls	Grey hardboard			
Ceiling	biage			
Paint				
Insulation	—			
Piping	—			
Lighting (fluorescent, incandescent, HG, vapour)	2 - 1'x4' fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	—		Total: HG containing: Non-HG:	
Lead Containing Materials	—			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	fridge 1.015 C Cl ₂ F ₂ refrigerant			
Photos	—			

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	P20-123			

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	lt brown epoxy coated.	good		
Walls	drywall	"		
Ceiling	drywall	"		
Paint	beige	"		
Insulation	—			
Piping	—			
Lighting (fluorescent, incandescent, HG, vapour)	2 x 12" fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	—		Total: HG containing: Non-HG:	
Lead Containing Materials	—			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	fire extinguisher 1016 ABC			
Photos	—			

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	P20-115		Lab Service Corridor	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Concrete painted grey	poor		
Walls	Cinder block	poor		
Ceiling	Concrete	it		
Paint	—			
Insulation	—			
Piping	3" white wrap over yellow fiberglass Elbow - 90°	poor	~140' 20 Elbows	AS-48 White wrap/ AS-47 White wrap/90° elbow
Lighting (fluorescent, incandescent, HG, vapour)	6" x 24" fluorescent wall light fixture		Serial #s (10% to be checked): AS-45° Elbow	
Thermostats (eg. Honeywell, etc.)	—		Total: HG containing: Non-HG:	
Lead Containing Materials	Sander.			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)				
Photos				

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

* drain

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	P20-124		Lab equip Clean up.	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	grey & lt grey sheet floor	good		
Walls	gyproc on 2 1 cinder block	good		
Ceiling	gyproc	good		
Paint	Yellow on door & equipment beige white on ceiling.	good		PS-15 yellow door
Insulation	—			
Piping	—			
Lighting (fluorescent, incandescent, HG, vapour)	12 → 1'x4' fluorescent.		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	Square electronic blackpall		Total: HG containing: Non-HG:	
Lead Containing Materials	Sander.			
Mould / Water Staining	Water stain			
Other (CO, VOCs, ODSs)	black coating on sink			
Photos				

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

* drain

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFL	P20-114		Storage	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	1'x1' VFT Brown & white streaks	Good		
Walls	gyproc	"		
Ceiling	gyproc	"		
Paint	Beige	"		
Insulation	—			
Piping	—			
Lighting (fluorescent, incandescent, HG, vapour)	2 → 1'x4' fluorescent,		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	—		Total: HG containing: Non-HG:	
Lead Containing Materials	—			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	—			
Photos				

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	N20-108a		Storage	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	1'x1' VFT Brown with white streaks	Good		
Walls	Gypsum	Good		
Ceiling	2'x4' ACT Fissure/pinkish	Good		
Paint	Beige	Good		
Insulation	—			
Piping	—			
Lighting (fluorescent, incandescent, HG, vapour)	2x8 2'x4' fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	—		Total: HG containing: Non-HG:	
Lead Containing Materials	—			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	—			
Photos	—			

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	N20-108		1st floor Linn room	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	grey carpet / brown 1'x1' tile brown baseboard	good		AS-46 Carpet/floor tile
Walls	Gypsum	"		
Ceiling	2'x4' Acoustic tile	"		
Paint	lt blue	"		PS-14
Insulation	—			
Piping	—			
Lighting (fluorescent, incandescent, HG, vapour)	2 x 2'x4' fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	—		Total: HG containing: Non-HG:	
Lead Containing Materials	—			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	—			
Photos	—			

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	N20-126		Service Corridor	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Concrete	Good		
Walls	Gyproc	"		
Ceiling	Concrete	"		
Paint	—			
Insulation	—			
Piping	Copper 3" white wrap yellow insulation		~ 60' 3" pipe 22 Elbows	
Lighting (fluorescent, incandescent, HG, vapour)			Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)			Total: HG containing: Non-HG:	
Lead Containing Materials				
Mould / Water Staining				
Other (CO, VOCs, ODSs)				
Photos				

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	N20-116		Lab.	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Same as N20-120	fair		
Walls	" "	good		
Ceiling	" "	Good		
Paint	" "	Good		
Insulation	—	—		
Piping	Copper			
Lighting (fluorescent, incandescent, HG, vapour)	12 → 1'x4' Fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	rectangular Honeywell No access,		Total: HG containing: Non-HG:	
Lead Containing Materials	Sealer			
Mould / Water Staining	Water staining,			
Other (CO, VOCs, ODSs)	fire extinguisher 10lb ABC.			
Photos				

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); TEM (Transmission Electron microscopy); CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

* Drain
* Funchard orange organ solvent

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	N20-118		Lab	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Same as N20-120	Good		
Walls	"	"		AS-45 Joint Compound
Ceiling	"	"		
Paint	"	"		
Insulation	—			
Piping	Copper			
Lighting (fluorescent, incandescent, HG, vapour)	12 x 1' x 4' fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	—		Total: HG containing: Non-HG:	
Lead Containing Materials	Solder			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)				
Photos				

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

* drain

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	N20-117		Penthouse	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Concrete painted grey	Good		
Walls	Cinder block	"		
Ceiling	Concrete.	"		
Paint	—			
Insulation	—			
Piping	Copper			
Lighting (fluorescent, incandescent, HG, vapour)	1'x4' fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	rectangular Honeywell		Total: HG containing: Non-HG:	
Lead Containing Materials	Sander			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	—			
Photos	—			

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	N20-115		Lab	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Same as N20-120 Some brown tile.	good		
Walls	"	good		
Ceiling	"	good		
Paint	same	good.		
Insulation		"		
Piping	Copper	"		
Lighting (fluorescent, incandescent, HG, vapour)	5 - 1'x4' Fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	rectangular Honeywell		Total: HG containing: Non-HG:	
Lead Containing Materials	Sander			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	Drain			
Photos				

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

- * Drain
- * Orange Funnelhead organic solvents (Biological Hazards)
- * Black countertops

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFL	N20-125		Service Corridor	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Concrete	Fair		
Walls	Gyproc unfinished	Fair		
Ceiling	Concrete	Good		
Paint	—	—		
Insulation	—	—		
Piping	3" Elbows 3" Straight ~150'			AS-43 on elbow
Lighting (fluorescent, incandescent, HG, vapour)	—		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	—		Total: HG containing: Non-HG:	
Lead Containing Materials	Solder			
Mould / Water Staining	Water stains possible mould.			
Other (CO, VOCs, ODSs)				
Photos				

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	N20-120		Lab	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Same as N20-119 nothing under grey floor	good		
Walls		good		
Ceiling	2'x4' AC - Fissure & pinhole	good		
Paint				
Insulation				
Piping	Copper			
Lighting (fluorescent, incandescent, HG, vapour)	7- 1'x4' Fluorescent 1- emergency lg.		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	rectangular Honeywell		Total: HG containing: Non-HG:	
Lead Containing Materials	Sanders			
Mould / Water Staining	under cabinet			
Other (CO, VOCs, ODSs)	Countertops, sinks w black coating.			
Photos				

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

- * drain
- * Transite sheet on / around oven furnace hood. AS-44
- * Fume Hood Perchloric Acid } last observed in hood
- " " Organic solvents & acids
- " " organic solvent
- " " White transite sheet
- * small oven white bricks AS-66

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	N20-119 + 119A		Lab.	


	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Grey w/ lt grey vinyl flooring over white 1'x1' tile. Brown & white single 1'x1' under cabinets	Good		AS-41 Brown VFT AS-42 White VFT Black Mastic
Walls	off grey grey baseboard	Good		
Ceiling	off	Poor		
Paint	beige, white	Fair		
Insulation				
Piping	Copper			
Lighting (fluorescent, incandescent, HG, vapour)	1'x4' fluorescent (3)		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	rectangular Honeywell No access		Total: HG containing: Non-HG:	
Lead Containing Materials	Sander.			
Mould / Water Staining	Possible mould under cabinet around pipes			MS-1 black on off
Other (CO, VOCs, ODSs)	Counter tops black			
Photos				

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

- * floor drain
- * Sink with black coating.

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	A120-122		Chemistry Lab	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Grey w lt grey sheet floor	good.		
Walls	 gyproc	"		
Ceiling	2' x 4' ACT pinhole + fissure	"		
Paint	brg orange on fumehoods (limited)	"		PS-13
Insulation	—			
Piping	—			
Lighting (fluorescent, incandescent, HG, vapour)	8 - 1' x 4' fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	2 - rectangular Honeywell No access.		Total: HG containing: Non-HG:	
Lead Containing Materials	—			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	Black countertop Black countertop AS-40,			
Photos				

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

- * Fume hood (orange) Acids
- * Fume hood (orange) organic solvents
- * Fire extinguishers 10/6 ABC (2)
- * Cooling units Formosan; possible fridge. No access
- * Sinks w/ black coating.

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFL	N20-121 & 121a		Loading Zone	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Concrete painted grey	good		
Walls	Gypsum			
Ceiling	2'x4' ACT pinhole / large pinhole			
Paint	LT grey			
Insulation	—			
Piping	Copper			
Lighting (fluorescent, incandescent, HG, vapour)	2'x2' fluorescent → 3 2'x4' fluorescent → 6		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	brown rectangular Honeywell No access.		Total: HG containing: Non-HG:	
Lead Containing Materials	Scrubber			
Mould / Water Staining				
Other (CO, VOCs, ODSs)	Black countertop to Diego marble.			AS-39
Photos				

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

* floor drain
* Sinks with coating (white)

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	N20-124 & 124a			

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	beige w grey & blue streaks beige mastic	fair		AS-37
Walls	2 gyproc, Joint compound/tape 2 clinder block	"		AS-38
Ceiling	gyproc	"		
Paint	Lt grey & white	"		
Insulation	-			
Piping	Copper			
Lighting (fluorescent, incandescent, HG, vapour)	2'x4' fluorescent 1-emergency lt.		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	white square Honeywell electronic		Total: HG containing: Non-HG:	
Lead Containing Materials	Snapper			
Mould / Water Staining	-			
Other (CO, VOCs, ODSs)	Staining around pipe no mould			
Photos				

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

- * Lt green Fume Hood → organic solvents, Acetone, transite sheets.
- * beige Fume Hood → Carbon tetrachloride CAS No: 56-23-5, transite sheet
Chloroform CAS No: 67-66-3
- * Floor Drain

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	M21-101			

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Same as M21-105	Good.		
Walls	" / Cinder blocks			
Ceiling	"			
Paint	"			
Insulation	"			
Piping	"			
Lighting (fluorescent, incandescent, HG, vapour)	"		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	Square Electronic Honeywell		Total: HG containing: Non-HG:	
Lead Containing Materials	—			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	—			
Photos	—			

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	M21-104		Storage	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Same as M21-105	good		
Walls	11			
Ceiling	11			
Paint	11			
Insulation	-			
Piping	-			
Lighting (fluorescent, incandescent, HG, vapour)	11		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	-		Total: HG containing: Non-HG:	
Lead Containing Materials				
Mould / Water Staining				
Other (CO, VOCs, ODSs)				
Photos				

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NATC	M21-105		kitchen	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	grey 5 ft grey speckles sheet floor grey base board	good		
Walls	Byproe	"		
Ceiling	2'x2' acf pinhole/Large pinhole	"		
Paint	LE brown	"		
Insulation	—			
Piping	Copper pipe			
Lighting (fluorescent, incandescent, HG, vapour)	2'x4' fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	Electronic Honeywell		Total: HG containing: Non-HG:	
Lead Containing Materials	Sauter.			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	10 lb fire extinguisher ABC, sink with white coating.			
Photos	—			

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

* Fridge with no tag Federal Hain carbon Regs ODS inventory. AFL0436

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	M21-106		Meeting / Training Rm	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	blue/grey 2'x2' Carpet tiles over concrete with epoxy finish floor	good.	.	
Walls	2 - Gyproc 2 - Cinder block grey base board.	good		
Ceiling	2'x4' ACT All types.	good		
Paint	Brown on 2 beige on 2	good.		PS-12 Brown
Insulation	—			
Piping	—			
Lighting (fluorescent, incandescent, HG, vapour)	6 → 2'x4' fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	White rectangular Honeywell Electronic thermostat		Total: HG containing: Non-HG:	
Lead Containing Materials	—			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	—			
Photos	—			

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

* Floor Drain found by PT

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	M21-102 + 102A		Storage	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Concrete Lt brown epoxy coating	fair		AS-36
Walls	1 cinder block 2 drywall	good		
Ceiling	gypsum	good		
Paint	Lt yellow	good		
Insulation	—			
Piping	—			
Lighting (fluorescent, incandescent, HG, vapour)	1'x4' fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	—		Total: HG containing: Non-HG:	
Lead Containing Materials	—			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	—			
Photos	—			

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	P20-107		office	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Carpet blue w pink & grey specks	Good		
Walls	Gypsum brown baseboard	"		
Ceiling	2'x2' ACT pinhole & fissures	"		
Paint	beige	"		
Insulation	—			
Piping	—			
Lighting (fluorescent, incandescent, HG, vapour)	2'x4' fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	rectangular Honeywell		Total: HG containing: Non-HG:	
Lead Containing Materials	—			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	—			
Photos	—			

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	M21-103		Electrical	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Concrete painted gray	Good		
Walls	Cinder block & mortar	"		AS-35 mortar & cinder block
Ceiling	Concrete	"		
Paint	gray on floor	"		
Insulation	—			
Piping	—			
Lighting (fluorescent, incandescent, HG, vapour)	6" x 4' fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	—		Total: HG containing: Non-HG:	
Lead Containing Materials	—			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	—			
Photos	—			

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	N 20-105		Office	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	grey to light grey speckled vinyl flooring	good		
Walls	Gyproc	good		
Ceiling	2'x2' ACT large plinths	good		
Paint	beige	good		
Insulation	—			
Piping	—			
Lighting (fluorescent, incandescent, HG, vapour)	2x2'x4' Fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	rectangular Honeywell. rectangular EDF		Total: HG containing: Non-HG:	
Lead Containing Materials	—			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	—			
Photos	—			

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	N20-102		office	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	grey w lt grey sheet floor	good		
Walls	light grey grey	good		
Ceiling	2'x2' AC Large pinhole / pinhole	good		
Paint	lt beige	good		
Insulation	—			
Piping	—			
Lighting (fluorescent, incandescent, HG, vapour)	3- 2'x4' fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	Honeywell rectangular		Total: HG containing: Non-HG:	
Lead Containing Materials	—			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	—			
Photos	—			

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	N20-103		Office	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	blue carpet	good		
Walls	gypsum	good		
Ceiling	2'x4' acoustic tile	good		
Paint	lt brown	good		
Insulation	—			
Piping	—			
Lighting (fluorescent, incandescent, HG, vapour)	2 x 2'x4' fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	Radio Shack Honeywell		Total: HG containing: Non-HG:	
Lead Containing Materials	—			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	—			
Photos	—			

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	N20-104		Entrance	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	6"x6" dk grey tile grey grout	Good		AS-34
Walls	Gypsum	///		
Ceiling	2"x4" flat tile large pin hole	///		
Paint	Lt grey	///		
Insulation	—			
Piping	—			
Lighting (fluorescent, incandescent, HG, vapour)	Incandescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	—		Total: HG containing: Non-HG:	
Lead Containing Materials	—			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	—			
Photos	—			

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	N20-106		office	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	2'x2' Carpet tile	good		
Walls	gypsum	good		
Ceiling	2'x2' ACT fibreglass / large particle textured	good		
Paint	Lt yellow	good		
Insulation	—			
Piping	—			
Lighting (fluorescent, incandescent, HG, vapour)	3-2'x4' fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	rectangular Honeywell		Total: HG containing: Non-HG:	
Lead Containing Materials	—			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	—			
Photos	—			

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFL	021-101A		office	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	2'x2' carpet tile grey/mastic epoxy floor beneath.	good		AS-32
Walls	gypsum grey base board, tinge mastic	good		1 AS-33
Ceiling	2'x2' ACT pinkish/large pieces	good.		
Paint	lt yellow	good.		PS-11
Insulation	—			
Piping	—			
Lighting (fluorescent, incandescent, HG, vapour)	2'x4' fluorescent (6)		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	large rectangular Honeywell		Total: HG containing: Non-HG:	
Lead Containing Materials	—			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	—			
Photos	—			

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	021-102		EV. PM	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	metal	good.		
Walls	Metal	good		
Ceiling	Metal	good		
Paint	—			
Insulation	—			
Piping				
Lighting (fluorescent, incandescent, HG, vapour)	6" x 4" fluorescent.		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	—		Total: HG containing: Non-HG:	
Lead Containing Materials	—			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	—			
Photos				

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	021-103		EV. RM	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Metal	Good		
Walls	Metal	Good		
Ceiling	Metal	Good		
Paint	—			
Insulation	—			
Piping	Copper			
Lighting (fluorescent, incandescent, HG, vapour)	incandescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	—		Total: HG containing: Non-HG:	
Lead Containing Materials	Solder			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	—			
Photos	—			

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

* 2 cool units. P12, 23, 502, 134a, 404a, 407c, 507
Keep site

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	021-104		Storage	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	1'x1' VFT off white & grey streaks.	poor		
Walls	Cinder block on 2 Gypsum on 2	Good		
Ceiling	2'x4' ACT large fissure / pinholes	Poor		
Paint	LE			
Insulation	—			
Piping	—			
Lighting (fluorescent, incandescent, HG, vapour)	2 → 2'x4' fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	—		Total: HG containing: Non-HG:	
Lead Containing Materials	—			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	Floor drain			
Photos				

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFL	021-05		Compressor Room	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Concrete painted green	Poor.		
Walls	Cinder block	Good.		
Ceiling	2'x4' pinhole/large pinhole	Fair		
Paint	blue, grey on floor			
Insulation	—			
Piping	3" pipe white wrap & pinning on elbow	11 elbows 20' pipe		AS-30
Lighting (fluorescent, incandescent, HG, vapour)	1-6" x 4" Fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	—		Total: HG containing: Non-HG:	
Lead Containing Materials	—			
Mould / Water Staining	oil staining			
Other (CO, VOCs, ODSs)	2 floor drains			
Photos				

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	021-101b			

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Lt brown epoxy coated floor	fair		
Walls	gyproc; grey base board	good		
Ceiling	2'x2' ACT pinhole / large pinhole	good.		
Paint	beige	good.		
Insulation	—	—		
Piping	Copper			
Lighting (fluorescent, incandescent, HG, vapour)	2x2'x2' fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	—	—	Total: HG containing: Non-HG:	
Lead Containing Materials	Sander.			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	Black staining on sink			
Photos	—			

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

* drain in floor

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	P20-100		Ev. Rm	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Metal	good		
Walls	Metal	"		
Ceiling	Metal	"		
Paint	—	"		
Insulation	—			
Piping	—			
Lighting (fluorescent, incandescent, HG, vapour)	6" x 4" (4) fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	—		Total: HG containing: Non-HG:	
Lead Containing Materials	—			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	—			
Photos	—			

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

* Cooling unit no tag

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NALC	P20-102		Storage	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	1'x1' VFT off-white & large grey streaks	fair		AS-29
Walls	Gypsum	good		
Ceiling	Gypsum	fair		
Paint	brige	good		
Insulation	—			
Piping	—			
Lighting (fluorescent, incandescent, HG, vapour)	2 → 1'x4' fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	—		Total: HG containing: Non-HG:	
Lead Containing Materials	—			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	—			
Photos	—			

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); TEM (Transmission Electron microscopy); CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NJAFG	P20-103		office	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Carpet blue & pink & grey speckles	Good		
Walls	Gypsum brown baseboard			
Ceiling	2' x 4' ACT large pinhole 3 small pinhole	Good		AS-28
Paint	Light pink/beige	Good		
Insulation	—			
Piping	—			
Lighting (fluorescent, incandescent, HG, vapour)	2 x 2' x 4' fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	Honeywell rectangular		Total: HG containing: Non-HG:	
Lead Containing Materials	—			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	—			
Photos	—			

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	P20-104		Office	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Same as P20-105 grey marble	good		AS-104 AS-104
Walls	AS-104 approx	good		
Ceiling	Same as P20-105	good		
Paint	Lt pink/white	good		PS-08
Insulation	—	good		
Piping				
Lighting (fluorescent, incandescent, HG, vapour)	2 x 2' x 4' fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	Same		Total: HG containing: Non-HG:	
Lead Containing Materials				
Mould / Water Staining				
Other (CO, VOCs, ODSs)				
Photos				

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	P20-105		office	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	beige & lt brown flecks. Sheet vinyl floor w beige mortar	good		AS-27
Walls	gypsum	good		PS-07
Ceiling	ACT 2'x2' pinkish & fissure.	good		
Paint	lt brown	good		
Insulation	—			
Piping	—			
Lighting (fluorescent, incandescent, HG, vapour)	2 x 2'x4' fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	Honeywell rectangular		Total: HG containing: Non-HG:	
Lead Containing Materials	—			
Mould / Water Staining	—			
Other (CO,VOCs,ODSs)	—			
Photos	—			

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	P20-106		Plant health	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Marble blue & pink & grey speckles	good		-
Walls	Gypsum Wood veneer & red marble in window	good good		AS-26
Ceiling	Same as P20-110	good		-
Paint	biase			
Insulation	-			
Piping	-			
Lighting (fluorescent, incandescent, HG, vapour)	3 x 2' fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	Honeywell rectangular No access.		Total: HG containing: Non-HG:	
Lead Containing Materials	-			
Mould / Water Staining	-			
Other (CO, VOCs, ODSs)	-			
Photos	-			

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); TEM (Transmission Electron microscopy); CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	P20-108		office	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	grey & lt grey stone flooring D grey beige mastic	good		AS-23
Walls	Gyproc. Lt brown baseboard & grey mastic	"		AS-23 AS-24
Ceiling	Same as P20-109	"		
Paint	beige	"		
Insulation	—			
Piping	—			
Lighting (fluorescent, incandescent, HG, vapour)	4 - 2' x 4' fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	rectangular Honeywell No access		Total: HG containing: Non-HG:	
Lead Containing Materials	—			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	—			
Photos	—			

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NATC	P20-109		office	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Carpet blue & pink & grey	good	—	
Walls	Gypsum	good		
Ceiling	2'x2' Acoustic pinhole & flake	good		AS-22
Paint	peel			
Insulation	—			
Piping	—			
Lighting (fluorescent, incandescent, HG, vapour)	4 x 2'x4' fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	Honeywell rectangular RBF type No access		Total: HG containing: Non-HG:	
Lead Containing Materials	—			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	—			
Photos	—			

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); TEM (Transmission Electron microscopy); CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	P20-110		microbiology	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Carpet blue & pink & grey speckles.	good.		
Walls	Gyproc	good.		
Ceiling	2'x2' ACT, pink & large pink & textured finish	good.		AS-21
Paint	blue	good.		
Insulation	—			
Piping	—			
Lighting (fluorescent, incandescent, HG, vapour)	2 → 2'x4' fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	Rectangular honeywell No access.		Total: HG containing: Non-HG:	
Lead Containing Materials	—			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	—			
Photos	—			

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	P20-111		Post PCR Lab	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Same as PCR LAB	good		
Walls	" "	" "		
Ceiling	" "	" "		
Paint	" "	" "		
Insulation				
Piping	—			
Lighting (fluorescent, incandescent, HG, vapour)	2x4' fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	Forced air furnace No access		Total: HG containing: Non-HG:	
Lead Containing Materials	—			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	WD-40			
Photos				

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	P20-112		PCR Lab	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Lt brown epoxy floor.	fair		
Walls	gypsum	good		
Ceiling	2'x4' ACT Large fissures & pinhole	"		AS-19
Paint	Lt grey/white	"		
Insulation	—			
Piping	copper white wrap & yellow fiberglass			
Lighting (fluorescent, incandescent, HG, vapour)	4x 2'x4' fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	Honeywell rectangular		Total: HG containing: Non-HG:	
Lead Containing Materials	Sander			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	Sink with black coating.			
Photos				

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

- * drain
- * fume hood to be removed, transite sheeting within sides. SN 1298 **AS-2**
- * fire extinguisher

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	P20-113		Janitors	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Lt brown possible epoxy flooring	Poor.		AS-18
Walls	gypsum	good		
Ceiling	gypsum	Good		
Paint	beige	good		
Insulation	—			
Piping	—			
Lighting (fluorescent, incandescent, HG, vapour)	6" x 4" fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	—		Total: HG containing: Non-HG:	
Lead Containing Materials	Sander on pipe.			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	—			
Photos	—			

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

✗ general cleaners stored.

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	019-102		Male Washroom	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	1'x1' ceramic tile grey 500 sq ft	good.		AS-1-7
Walls	gyproc	good.		
Ceiling	gyproc	good		
Paint	beige on walls, white on ceiling	good		
Insulation	—	—		
Piping	Copper	—		
Lighting (fluorescent, incandescent, HG, vapour)	1'x4' fluorescent 2 bulbs	good.	Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	—		Total: HG containing: Non-HG:	
Lead Containing Materials	Solder on pipe			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	—			
Photos	—			

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	019-104		Washroom (Handicap)	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	8" x 8" ceramic floor tile grey grout, beige mastic	Good.		AS-15
Walls	Gypsum	Good.		
Ceiling	Gypsum with stucco. paint, white.	Good.		AS-16
Paint	4. various	good		
Insulation	—	—		
Piping	—	—		
Lighting (fluorescent, incandescent, HG, vapour)	1' x 4' fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	—		Total: HG containing: Non-HG:	
Lead Containing Materials	Solder on pipe under sink.			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	—			
Photos	—			

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); TEM (Transmission Electron microscopy); CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	019-103		Female Washroom	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	1x1' ceramic tile beige grout beige	good		AS-14 AS-18
Walls	gypsum walls	good		
Ceiling	Gypsum	good		
Paint	white on ceiling beige on walls	Good		
Insulation	—	—		
Piping	—			
Lighting (fluorescent, incandescent, HG, vapour)	Flourescent 1'x4'		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	—		Total: HG containing: Non-HG:	
Lead Containing Materials	Sander			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	—			
Photos				

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

* 1 drain.

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAC	N20-109		Compressor	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Concrete painted grey	poor		-
Walls	Cinder on 1 Gypsum on 2	fair		
Ceiling	Gypsum	poor		AS-11 joint compound
Paint	beige on walls grey on floor	fair		
Insulation	—			
Piping	3" piping & insulation 3" copper		8'	AS-12 Parging.
Lighting (fluorescent, incandescent, HG, vapour)	6" x 4" tube fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	—		Total: HG containing: Non-HG:	
Lead Containing Materials				
Mould / Water Staining	Staining on floor (oil)			
Other (CO, VOCs, ODSs)				
Photos				

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

- * 2 drains.
- * fire extinguisher blk ABC

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	N20-111		Ev. RM	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Metal	good		
Walls	Metal			
Ceiling	Metal			
Paint	—			
Insulation	—			
Piping	—			
Lighting (fluorescent, incandescent, HG, vapour)	Incandescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	—		Total: HG containing: Non-HG:	
Lead Containing Materials	—			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	—			
Photos	—			

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

* R12, 22, 502 cooling unit (2 units)

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
DAFC	N20-112		EV, RM	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Metal	good		
Walls	Metal	"		
Ceiling	Metal	"		
Paint	—			
Insulation	—			
Piping	—			
Lighting (fluorescent, incandescent, HG, vapour)	Incandescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	—		Total: HG containing: Non-HG:	
Lead Containing Materials	—			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	—			
Photos	—			

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

* R12, R22, R502 cooling unit (keep right)
* Particle chemical storage (keep right)

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	N20-113		Ev. Rm	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	metal walls	good		
Walls	metal floor white caulking between metal sheets.	"		AS-10
Ceiling	metal ceiling	"		
Paint	—			
Insulation	—			
Piping	—			
Lighting (fluorescent, incandescent, HG, vapour)	incandescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	—		Total: HG containing: Non-HG:	
Lead Containing Materials	—			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)				
Photos				

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); TEM (Transmission Electron microscopy); CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	N20-114		Compressor	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	beige 5 lb purple streaks sheet w beige mastic	good		AS-09
Walls	Cinderblock on 3 gypsum on 1 black baseboard	good		
Ceiling	2'x4' ceiling tile small pinhole large stains	good		
Paint	mint green			
Insulation	—			
Piping	—			
Lighting (fluorescent, incandescent, HG, vapour)	6" x 4" 2 bulb		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	—		Total: HG containing: Non-HG:	
Lead Containing Materials	—			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	—			
Photos	—			

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); TEM (Transmission Electron microscopy); CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	M19-103		Storage	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Vinyl sheet flooring; beige	fair	-	AS-01
Walls	Gyproc on 2 Cinder block on 2 Black rubber baseboard beige rustic	good		AS-02
Ceiling	2'x4' ceiling tile small pinhole large pinhole	fair		AS-03
Paint	Mint green (on gyproc) Pena (Vapogren) on clear	good		PS-01 PS-02
Insulation				
Piping	Ductwork insulation foil/paper/yellow insulation	good.		AS-04
Lighting (fluorescent, incandescent, HG, vapour)	4 → 2x4 fluorescent L&S.		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	Onelet rectangle } Non Honeywell rectangle } mercury		Total: HG containing: Non-HG:	
Lead Containing Materials	—			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	—			
Photos				

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

* Possible vent w motors see photo.

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	M19-102		Storage	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	blue & grey specks sheet-flooring	good		
Walls	gyproc on 2 Cinder block on 2	good		AS-05 AS-06 Drywall compound/tape
Ceiling	2'x4' ACT small pinhole/large pinhole	good		
Paint	Lt grey/beige (ex gyproc)	good		PS-03
Insulation	Pink fiberglass			
Piping	Copper w solder			
Lighting (fluorescent, incandescent, HG, vapour)	2'x4' fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	—		Total: HG containing: Non-HG:	
Lead Containing Materials	Solder			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	—			
Photos	—			

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

*Sink w black coating

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	M19-101		Soil lab.	14ft ceiling

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Concrete Painted Lt grey	Fair		PS-05
Walls	2 Cinder block 1 Gyproc Board	good		
Ceiling	2'x4' ACT Large pinhole is small (old)	Fair		
Paint	grey on lower half, Lt grey/white on top			PS-04
Insulation	—			
Piping	4" Piping, wrap/yellow insulation Elbow Parging, white wrap/white parging	Poor	~ 110' ~ 5	AS-06 AS-07
Lighting (fluorescent, incandescent, HG, vapour)	12 → 2'x4' fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	—		Total: HG containing: Non-HG:	
Lead Containing Materials	—			
Mould / Water Staining	minor water damage			
Other (CO, VOCs, ODSs)	Fire extinguisher 10lb ABC. incubator			
Photos				

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

* drain and pump in water

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFL	N20-110		EU, RM	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	Metal	Good		
Walls	Metal	"		
Ceiling	Metal	"		
Paint	—	"		
Insulation	—			
Piping	—			
Lighting (fluorescent, incandescent, HG, vapour)	Incandescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	—		Total: HG containing: Non-HG:	
Lead Containing Materials	—			
Mould / Water Staining	—			
Other (CO, VOCs, ODSs)	—			
Photos	—			

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

* R12, 22, 502, 134A, 204A Keep cool unit (2)

Building	Room No. / Description	Floor No.	Room Description	Dimensions (L x W x H)
NAFC	021-101		Lab	

	Description	Condition (good, fair, poor)	Quantity (SF, LF, total)	Visual/Actual Sample Collected
Floor	epoxy coated floor Painted Lt brown	fair		PS-10
Walls	concrete board wall	fair		AS-31
Ceiling	gypsum	good		
Paint	Lt brown/green white on ceiling	Fair		PS-09
Insulation	Pink fiberglass			
Piping	Copper			
Lighting (fluorescent, incandescent, HG, vapour)	7 - 1'x4' fluorescent		Serial #s (10% to be checked):	
Thermostats (eg. Honeywell, etc.)	large rect. Honeywell electronic		Total: HG containing: Non-HG:	
Lead Containing Materials	Solder.			
Mould / Water Staining	---			
Other (CO, VOCs, ODSs)	Floor drain, 10 lb fire extinguisher ABC			
Photos				

Legend: PS (paint sample); VPS (visual reference to PS); AS (asbestos sample); VAS (visual reference to AS); FS (fungal sample); ACM (asbestos-containing material); DJC (drywall joint compound); VFT (vinyl floor tile); ACT (acoustic ceiling tile); LF (linear feet); SF (square feet); PLM (polarized light microscopy); Transmission Electron microscopy; CO (Carbon Monoxide); VOCs (Volatile Organic Compounds); ODSs (Ozone Depleting Substances); ND (non-detect)

Notes/Comments:

APPENDIX F

Newalta Client Inventory Form

NEWALTA

Client Inventory Form

Date: November 22, 2012

Work Order # _____

Client: CFIA - St. John's Lab

Inventoried by: _____

Location: ST John's - 80 EAST WHITE HILLS RD.

Number	Volume In Container	Container Size	Material Description (Chemical/trade names)	Remarks
	55 L	55L	Dist. H ₂ O and 10% Methanol	Mostly water - solvent
	55 L	55L	"	"
	55 L	55L	"	"
	55 L	55L	"	"
	4L	4L	Iso Octane	
	400ml	500ml	Xylene	
	500ml	500ml	Toluene	
	3L	4L	Reagent Alcohol	
X 2	4L	4L	Glycerol	
	6x1L	6x1L	Hydrochloric Acid 0.01N	
X 2	300ml	500ml	Nitric Acid	
	500ml	500ml	Sulfuric acid	
X 2	150ml	500ml	Perchloric acid	
	250	500ml	"	
	2.4L	2.4L	H ₂ O ₂ (30%)	
	1.75L	2.5L	"	
	1L	1L	Hydrochloric Acid 0.01N	

Comments:

End of Inventory ☐

See Next Page ☒

Page 1 of 10

NEWALTA

Client Inventory Form

Date: Nov. 22, 2012

Work Order # _____

Client: CFIA ST. KATH'S LAB

Inventoried by: _____

Location: _____

Number	Volume In Container	Container Size	Material Description (Chemical/trade names)	Remarks
	750ml	1L	Hydrochloric acid (0.1N)	
	500ml	1L	H ₂ O ₂ (30%)	
	7L	20L	Chloroform	
x2	4L	4L	Dilute waste Acid	see description
	1.75L	2.5L	Nitric Acid	
x2	2.5L	2.5L	Dilute waste Acid	see description
	4L	4L	Waste Alcohol (MeOH, EtOH, IPA)	
	4L	4L	Waste (EtOH, MeOH, KOH)	
x3	4L	4L	MeOH, CH ₃ CN, H ₃ PO ₄	
x4	4L	4L	Chloroform	
	2L	4L	"	
	4L	4L	Pump oil	
	4L	4L	Formaldehyde	
	150ml	1L	Immersion Oil	
	250ml	500ml	Ammonium Hydroxide	
	125ml	250ml	Formic acid	
	20L	20L	Waste Acetone (Ethanol, Methanol IPA)	

Comments:

End of Inventory ☐

See Next Page ☒

Page 2 of 10

NEWALTA

Client Inventory Form

Date: Nov 22, 2012

Work Order # _____

Client: CMA ST. JOHN'S LAB

Inventoried by: _____

Location: _____

Number	Volume In Container	Container Size	Material Description (Chemical/trade names)	Remarks
84	1L	1L	Ammonium Hydroxide (20%)	
	1L	1L	Ferric chloride	
	500ml	500ml	Tetrabutylammonium Phosphate	
	1L	1L	"	
	450ml	1L	Glycerol	
	500ml	500ml	"	
	20g	25g	Congo red (25g)	
	100g	125g	Ammonium Molybdate tetrahydrate	
	125g	125g	Manganous chloride 4-hydrate	
	175g	250g	Trib (III) citrate tribasic monohydrate	
	100g	100g	Manganese chloride tetrahydrate	
	100g	100g	Molybdic acid	
	300g	500g	Calcium nitrate tetrahydrate	
	100g	125g	Zinc Sulfate 7-hydrate	
	500g	500g	Calcium chloride	
	500g	500g	Sulfanilic acid	
	1kg	1kg	Potassium sulfate	

Comments:

End of Inventory ☐

See Next Page ☒

Page 3 of 10

NEWALTA

Client Inventory Form

Date: Nov 28, 2012

Work Order # _____

Client: CFA - ST. JOHN'S LAB

Inventoried by: _____

Location: _____

Number	Volume In Container	Container Size	Material Description (Chemical/trade names)	Remarks
2x	500g	500g	Potassium phosphate dibasic	
	500g	500g	Calcium hypochlorite	
	250ml	250ml	Gram iodine	
	250ml	250ml	Gram safranin	
	250ml	250ml	Gram crystal violet	
	100g	100g	5-amino-2-naphthalene sulfonic acid 98%	
	140g	140g	MOPS	
	100g	100g	Sorbic acid	
	250ml	250ml	Gram decolorizer	
	500ml	500ml	Tween 80	
	250ml	250ml	Span 20	
	100ml	100ml	Kovac's Reagent for indoles	
	100ml	100ml	Heptanoic acid 970%	
	100ml	100ml	Barritt's Reagent B	
	100ml	100ml	Barritt's Reagent A	
	125g	125g	Congo red Mercuric chloride.	
	1L	1L	Mercuric chloride soln 0.10%	

Comments:

End of Inventory ☐

See Next Page ☒

Page 4 of 10

NEWALTA

Client Inventory Form

Date: Nov 22, 2012

Work Order # _____

Client: CFIA St Johns LAB

Inventoried by: _____

Location: _____

Number	Volume In Container	Container Size	Material Description (Chemical/trade names)	Remarks
	750ml	1L	Mercuric chloride soln (0.1%)	
	75g	125g	Mercuric chloride	
	15g	25g	Bacto-methyl red	
	15ml	15ml	Live/Dead Bac light viability kit	
	1kg	2.5kg	MP Media	
x2	100g	100g	Ammonium Metavanadate	
x2	500g	500g	Ammonium Molybdate tetrahydrate	
	500g	500g	Ammonium Molybdate	
x2	500g	500g	Ammonium thiocyanate	
	300g	500g	Ammonium acetate	
	100g	113g	Ammonium Metavanadate	
	500g	500g	Boric Acid	
	100g	100g	Periodic acid	
	75g	100g	trichloro acetic acid	
	400g	500g	Ethylenediaminetetraacetic acid disodium salt	dihydrate
	500g	500g	Copper (II) chloride dihydrate	
	100g	100g	Heptanesulfonic Acid, Sodium salt, Monohydrate	

Comments:

End of Inventory ☐

See Next Page ☒

Page 5 of 10

NEWALTA

Client Inventory Form

Date: Nov 22, 2012

Work Order # _____

Client: CFA - St John's URB

Inventoried by: _____

Location: _____

Number	Volume In Container	Container Size	Material Description (Chemical/trade names)	Remarks
	300g	500g	Disodium Ethylene diamine triacetate	
	100g	100g	Sodium pyrophosphate tetra basic decahydrate	
x2	454g	454g	Sodium phosphate	
x2	500g	500g	Ferric Ammonium Sulfate dodecahydrate	
	25g	25g	Methyl red	
	100g	500g	Magnesium oxide	
	50g	100g	Lanthanum chloride Hydrate	
	25g	25g	Trypan blue	
	100g	100g	Phenolphthalein	
	125g	125g	Potassium chromate	
	100g	453g	Potassium chloride	
	300g	1kg	Potassium Hydroxide	
	400g	2.5kg	Sodium thiosulfate	
	100ml	100ml	Triethylamine	
	50g	50g	Tetabutylammonium bromide	
	100g	100g	Ammonium formate	
	250g	500g	Sodium sulfate	

Comments:

End of Inventory ☐

See Next Page ☒

Page 6 of 10

NEWALTA

Client Inventory Form

Date: Nov. 22, 2012

Work Order # _____

Client: CFIA St. John's LAB

Inventoried by: _____

Location: _____

Number	Volume In Container	Container Size	Material Description (Chemical/trade names)	Remarks
x4	500ml	500ml	titon X-100	
x2	1kg	1kg	Florisil	
	1kg	3kg	Boric acid	
	500g	10kg	Sodium hydroxide	
	10kg	10kg	Potassium hydroxide	
	50g	100g	Ethyl 4-hydroxy benzoate	
	100g	100g	Benzoic acid	
	100g	100g	Propyl 4-hydroxy benzoate	
	100g	100g	Methyl 4-hydroxy benzoate	
	500ml	500ml	Glycerol	
	1.5L	4L	Glacial Acetic	
	1L	2.5L	Nitric acid	
	1L	2.5L	Sulfuric acid	
	500pc	1000pc	Kelonal tablets CT37	
	75g	100g	Sorbic acid	
	1L	1L	Acetonitrile + Formic acid	
	75ml	100ml	Propionic acid	

Comments:

End of Inventory ☐

See Next Page ☒

Page 1 of 10

NEWALTA

Client Inventory Form

Date: Nov. 22, 2012

Work Order # _____

Client: CFA - St. John's Lab

Inventoried by: _____

Location: _____

Number	Volume In Container	Container Size	Material Description (Chemical/trade names)	Remarks
	75ml	100ml	Valeric acid	
	750ml	1L	Sodium hypochloride (13%)	
	25g	25g	Asp-Phe, methyl ester	
	24L	4L	Potassium Hydroxide	
x2	25g	25g	Brilliant green	
	12g	25g	" "	
	12g	25g	Acriflavine	
	5g	500g	Potassium iodide	
	100g	100g	Manganese sulfate	
	25g	25g	Halichite green oxalate	
	30g	100g	Iodine	
	25g	25g	MOPS sodium salt	
	30g	100g	Purple Hi Veg Broth Base	
	25g	50g	Dimethylaminobenzaldehyde	
	400g	500g	Motility Nitrate medium	
	100g	100g	Mops sodium salt	
	5g	10g	Methyl Red	

Comments:

End of Inventory ☐

See Next Page ☒

Page 8 of 10

NEWALTA

Client Inventory Form

Date: Nov. 22, 2012

Work Order # _____

Client: CFIA - St. John's LAB

Inventoried by: _____

Location: _____

Number	Volume In Container	Container Size	Material Description (Chemical/trade names)	Remarks
	50g	100g	1-Naphthal	
	12g	25g	Phenol Red	
	100g	100g	Acridine Hydrochloride	
	200g	250g	Ferric Citrate Monohydrate	
	500g	500g	Ferrous Sulfate heptahydrate	
	500g	1kg	D-Sorbitol	
	400g	500g	D-Mannitol	
	20g	25g	Malidixinsäure Natriumsalz	
	500g	100g	Sodium phosphate dibasic	
	600g	1kg	Potassium sulfite	
	100g	100g	D(+) Xylose	
	100g	100g	Zinc Sulfate heptahydrate	
	12g	25g	Bacto Rhinose	
	500g	500g	Potassium Phosphate	
	100ml	100ml	Bromocresol Purple	
	100tabs	100tabs	Phosphate Buffered Saline	
	100g	100g	Cayle Broth	

Comments:

End of Inventory ☐

See Next Page ☒

Page 9 of 10

NEWALTA

Client Inventory Form

Date: Nov 22, 2012

Work Order # _____

Client: CFIA - St. John's LAB

Inventoried by: _____

Location: _____

Number	Volume In Container	Container Size	Material Description (Chemical/trade names)	Remarks
	25g	50g	Bile salts	
	10g	25g	D-Cellulose	
	5g	25g	L-Rhamnose monohydrate	
	25g	25g	Bromocresol purple	
	5g	25g	Bromothymol Blue	
	10g	100g	D-glucose	
	48g	50g	Creatine	
X116	500ml	500ml	Fast Drying general Purpose Solvent	
X5	500ml	500ml	Black fast drying general Purpose Ink	

Comments:

WE HAVE SOME THERMOMETERS & WE HAVE SOME ADDITIONAL ITEMS THAT ARE NOT ON THE LIST & WE ARE NOT SURE WHETHER THEY NEED TO BE ADDED.

End of Inventory ☐

See Next Page ☒

Page 10 of 10

APPENDIX G

Report Limitations

LIMITATIONS

1. The work performed in the preparation of this report and the conclusions presented are subject to the following:
 - (a) The Standard Terms and Conditions which form a part of our Contract;
 - (b) The Scope of Services;
 - (c) Time and Budgetary limitations as described in our Contract; and,
 - (d) The Limitations stated herein.
2. No other warranties or representations, either expressed or implied, are made as to the professional services provided under the terms of our Contract, or the conclusions presented.
3. The conclusions presented in this report were based, in part, on visual observations of the site and attendant structures. Our conclusions cannot and are not extended to include those portions of the site or structures which were not reasonably available, in AMEC's opinion, for direct observation.
4. The environmental conditions at the site were assessed, within the limitations set out above, having due regard for applicable environmental regulations as of the date of the inspection. A review of compliance by past owners or occupants of the site with any applicable local, provincial or federal by-laws, orders-in-council, legislative enactments and regulations was not performed.
5. Where testing was performed it was carried out in accordance with the terms of our contract providing for testing. Other substances, or different quantities of substances testing for, might be present on site and be revealed by different or other testing not provided for in our contract.
6. The findings within this report do not reflect potential ACMs in areas not accessed, such as remote space areas, roof areas, wall cavities and ceilings spaces. During future renovations or demolition activities and subsequent removal of interior wall and ceiling materials, the actual quantities of asbestos containing materials can be verified. Also at this time, analysis of suspect ACM materials may be required if the appearance differs from that of materials previously confirmed to contain asbestos in adjacent rooms.
7. Because of the limitations referred to above, different environmental conditions from those stated in our report might exist. Should such different conditions be encountered, AMEC must be notified in order that it may determine if modifications to the conclusions in the report are necessary.
8. The utilization of AMEC's services during the implementation of any remedial measures will allow AMEC to observe compliance with the conclusions and recommendations contained in the report. AMEC's involvement will also allow for changes to be made as necessary to suit field conditions as they are encountered.

9. 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 any third party makes of the report, in whole or the part, or any reliance thereon or decisions made based on any information or conclusions in the report, is the sole responsibility of such third party. AMEC accepts no responsibility whatsoever for damages or loss of any nature or kind suffered by any such third party as a result of actions taken or not taken or decisions made in reliance on the report or anything set out therein.
10. This report is not to be given over to any third party for any purpose whatsoever without the written permission of AMEC.