



**Addendum / Addenda**

No./N<sup>o</sup>  
1

|   |  |   |
|---|--|---|
| Project Description / Description de projet<br><br>M23a Nanolab Renovations   |  |   |
| Solicitation No./ No de sollicitation<br><br>14-22098   | Project No./N <sup>o</sup> de projet<br><br>3966 | W.O. No./N <sup>o</sup> d'ordre de travail<br><br>A1-004452-15  |
| Departmental Representative / representant ministériel<br><br>Allan Smith   |  | Date<br><br>January 14, 2015  |
| <p><b>Notice:</b><br/>This addendum shall form part of the tender documents and all conditions shall apply and be read in conjunction with the original plans and specifications.</p> |  | <p><b>Nota:</b><br/>Cet addenda fait partie intégrale des dossiers d'appel d'offres; toutes les conditions énoncées doivent être lues et appliquées en conjonction avec les plans et les devis originaux.</p> |

**The following items are to be incorporated into the existing drawing and specifications for the above noted Project.**

- Acceptable Alternative Product;** In regards to the BIBO Unit (bag in / bag out filter housing 23FIL01) **CAMFIL** is an acceptable product. Contact; TOTAL HVAC, Steve Moons, 613 723 4611
- Acceptable Alternative Product;** In regards to the HC1 (heating coil) **Ventrol** is an acceptable product. Contact; Longhill Energy, Evan Boucher, 613 226 3856
- Acceptable Alternative Product ;** In regards to the P1 (booster pump 23CWP06) **Flo Fab** is an acceptable product. Contact; Longhill Energy, Evan Boucher, 613 226 3856
- Acceptable Alternative Product ;** In regards to the Flooring (2 part epoxy) **Sika Floor** from Sentinel Polymers is an acceptable product. Contact; Sentinel Polymers, Chris Duncan, 613 329 8427
- Fume Hood Performance Testing ;** Fume hoods shall meet the specified As Manufactured (AM) test criteria at the following average face velocities: 60 fpm (0.3 m/s) for bench top fume hoods at a sash opening of 18" (450 mm) and 100 fpm (0.5 m/s) for walk-in hoods at a sash opening height of 18" (450 mm). AM test results for equivalent size hoods shall be submitted to the Departmental Representative as part of the shop drawing submission.
- Acceptable Alternative Product ;** In regards to the Lab Bench Top and Walk-in Fume Hoods (23FHD05, 06 & 12) **Bedcolab** is an acceptable product. Sizes of these units are to match that of those specified, with optional depth extensions provided as required. Contact; Bedcolab, Wesley Oates / Raynald Villeneuve, 514 384 2820 x 226
- Is there a Designated Substance Report?** See attached PDF file of the DSR for Building M 23A
- Clarification of note A1 on drawing A01 in regards to "Base" heights.** All new Bases are to be 100 mm in height
- Reference hexagon note 15 on A02.** Delete note 15

10. **Reference hexagon note 10 on A02.** This note shall read: Remove all existing blinds, curtains, tracks and associated materials. Provide new horizontal aluminum blinds c/w track, pull and adjusting mechanism with all required materials for a complete installation. Color of blinds and casing to be white c/w 25mm wide blinds. Secure tracks to the outside window mullion as shown on the details 4/A1 & 4/A2. Windows are approx. 1180 x 2400, contractor to confirm quantity and sizes.
11. **In reference to Acoustical Ceiling Panels and hexagon notes 17 & 17A on drawing A02.** See new PDF Spec Section 095110 attached.
12. **In reference to Resinous Flooring 09 70 50.** Remove section 1.2.2 Related Work. **In reference to Epoxy Flooring.** Remove section 1.2.1 Related Work. **Add** that this is a combined **2 part process (Section 09 70 50 & 09 73 00)** that uses products and materials supplied for the overall installation of the new Floor.
13. **In reference to drawing notes on A02, hexagon (1, 1A & 8).** **Hexagon 1, ADD** applies to rooms 158 & 160. **Hexagon 1A,** shall read existing Terrazzo tile floor c/w existing 150mm wall base to remain, patch floor as required and provide new **Stonehard Stoneclad "GS" Floor System** w/ 100mm high base, for finish see suppliers spec, applies to Room 162 only. **In reference to hexagon note 8,** existing ceramic tile floor to be removed. Grind, sandblast and patch floor ready to accept new **Stonehard Stoneclad "GS" FLOOR SYSTEM** w/ 100mm high base. See suppliers spec for finish, applies to room 164 only.
14. **In reference to drawing A01 room 164, Remove** Hexagon note 1A (both A01 1 & 2)
15. **In reference to drawing A01 room 162, Remove** Hexagon note 8 (both A01 1 & 2)
16. **In reference to drawing A01 room 158, Replace** hexagon note 14 with hexagon note 14A
17. **In reference to drawing A01 Wall Base Detail 7A, 7B, 7H and 7J, Replace** note 1A with note 8
18. **In reference to drawing A01 Wall Base 7G, Replace** hexagon note 14 with 14A
19. **In reference to drawing A03 Millwork Plan 2/A03 in room 164, Remove** hexagon note 1A
20. **In reference to drawing A03 Millwork Plan 2/A03 in room 162, Remove** hexagon note 8
21. **Acceptable Alternative Product ;** In regards to Light Fixtures (Type A & B) **Cooper Lighting** is an acceptable product. Contact Waterman Sales, Sara Ritchie, 613 725 1635

END / FIN

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**Part 1 GENERAL**

**1.1 Samples**

- .1 Submit duplicate full size samples acoustical units in accordance with Section 001000 if requested by Departmental Representative. Design Criteria

**1.2 Environmental Conditions**

- .1 Permit wet work to dry before commencement of installation.
- .2 Maintain uniform minimum temperature of 15°C (41°F) and humidity of 20 - 40% before and during installation.
- .3 Store materials in work area 48 h prior to installation.

**Part 2 PRODUCTS**

**2.1 Materials**

**2.2 Acoustic units for suspended ceiling system to CAN/CGSB-92.1-M89.**

- .1 Laboratory tiles
- .1 Type: polyester film wrapped mineral fibre panels.
  - .2 Manufacturer: Armstrong Cleanroom FL #1721, field and border panels.
  - .3 Fire Resist. / Flame spread: UL Class A.
  - .4 Ceiling Attenuation Class: 40 minimum.
  - .5 Edge type: Square.
  - .6 Colour: White.
  - .7 Size: 600 x 1200 x 15 mm thick.
  - .8 Shape: Lay-In.
- .2 Office.
- .1 Type: Mineral fiber, wet formed
  - .2 Manufacturer: Armstrong.
  - .3 Pattern: Cortega 769A
  - .4 Flame spread rating of 25 or less in accordance with CAN/ULC-S102.
  - .5 Noise Reduction Coefficient (NRC) designation of .50- .60.
  - .6 Light Reflectance (LR) 0.86 to ASTM E1477.

- .7 Edge type square.
- .8 Colour white
- .9 Size :600 x 1200 x 15 mm thick.
- .10 Shape lay-in

**Part 3 EXECUTION**

**3.1 Installation**

- .1 Do not install acoustical panels until work above ceiling has been inspected by Departmental Representative.
- .2 Torn, cracked or dirty tiles will not be accepted.
- .3 Provide hold down clips or tole in bulkhead.
- .4 Wrap facing film around field cut edges and secure with concealed aluminum tape.

**3.2 Suspension ceiling System**

- .1 Install acoustical panels and tiles in suspension system

**END OF SECTION**

NATIONAL RESEARCH COUNCIL CANADA  
1200 MONTREAL ROAD  
OTTAWA, ONTARIO  
K1A 0R6

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## DESIGNATED SUBSTANCES SURVEY



### BUILDING M-23A OTTAWA, ON

Distribution:  
2 copies – National Research Council Canada  
1 copy – Oakhill Environmental Inc.

December 2011



**OAKHILL**  
ENVIRONMENTAL INC.



## EXECUTIVE SUMMARY

Oakhill Environmental Inc. (Oakhill) was retained by National Research Council Canada (NRC) to conduct a designated substances survey within Building M-23A in Ottawa, Ontario. All site work was completed from October 5<sup>th</sup> to October 13<sup>th</sup>, 2011.

All work carried out meets the requirements of the Ontario Occupational Health and Safety Act and WHMIS Regulation (formerly Bill 208). The purpose of the investigation was to identify any potential designated substances and mould.

Based on the visual inspection and laboratory analyses, designated substances were identified to be present in the facility. A summary of the survey recommendations is presented in Table 1.

**Table 1 - Summary of Findings and Recommendations**

| Issue  | Comments   | Recommendations  |
|--|--|--|
| Asbestos   | Room(s) 61/63/65/69 (FS# B002)   |  |
|  | Six damaged sections of Aircell Pipe Insulation were identified on the hot water heating system. (1.2LM) | Remove the six damaged sections of Aircell Pipe Insulation on the hot water heating system.  |
|  | Room(s) 59 (FS# B009)  |  |
|  | One damaged section of Aircell Pipe Insulation was identified on the hot water heating system. (0.1LM)   | Remove the one damaged section of Aircell Pipe Insulation from the hot water heating system. |
|  | Room(s) 54/56/58 (FS# B010)  |  |
|  | ACM debris was identified on top of the HVAC unit. (1m <sup>2</sup> )                                    | Clean-up the ACM debris on the top of the HVAC unit.   |
|  | Damaged Fibreglass with Mud insulation was identified on the HVAC unit. (0.5m <sup>2</sup> )             | Encapsulate the damaged Fibreglass with Mud insulation from the HVAC unit.                   |
|  | Room(s) 44 (FS# B014)  |  |
|  | Two damaged sections of Aircell Pipe Insulation were identified on the steam system. (1LM)               | Remove the two damaged sections of Aircell Pipe Insulation on the steam system.              |
|  | Residual Mud Joint Compound Fitting Insulation was identified on the steam system. (1 unit)              | Remove the residual Mud Joint Compound Fitting Insulation from the steam system.             |
| Two damaged sections of Aircell Pipe Insulation were identified on the | Remove the two damaged sections of Aircell Pipe Insulation from the domestic hot water                   |  |



| Issue | Comments  | Recommendations  |
|-------|---|--|
|       | domestic hot water system. (1LM)  | system.  |
|       | Two damaged sections of Aircell Pipe Insulation were identified on the domestic hot water system. (0.5LM)     | Encapsulate the two damaged sections of Aircell Pipe Insulation on the domestic hot water system.                    |
|       | ACM debris was identified sitting on top of the pipe system. (0.5m <sup>2</sup> )                             | Remove the ACM debris sitting on top of the pipe system.   |
|       | One damaged section of Sweatwrap pipe insulation was identified on the domestic cold water system. (0.3LM)    | Encapsulate the one damaged section of Sweatwrap with White Paper pipe insulation on the domestic cold water system. |
|       | Room(s) 48 (FS# B017)   |  |
|       | One damaged section of Aircell Pipe Insulation was identified on the domestic hot water system. (3LM)         | Remove the damaged section of Aircell Pipe Insulation on the domestic hot water system.                              |
|       | ACM debris was identified in one area on the duct system above the ceiling. (1m <sup>2</sup> )                | Clean-up the ACM debris on the duct system above the ceiling.  |
|       | ACM debris was identified in four areas on top of the ceiling tiles. (6m <sup>2</sup> )                       | Clean-up the ACM debris on top of the ceiling tiles.   |
|       | Room(s) 31 (FS# B026)   |  |
|       | One damaged Mud Joint Compound Fitting was identified on the chiller system. (1 unit)                         | Encapsulate the one damaged Mud Joint Compound Fitting on the chiller system.  |
|       | Room(s) 10/27/27A (FS# B027)  |  |
|       | Two damaged Mud Joint Compound Fittings were identified on the steam system. (2 units)                        | Encapsulate the two damaged Mud Joint Compound Fittings on the steam system.   |
|       | Three damaged Mud Joint Compound Fittings were identified on the steam system. (3 units)                      | Remove the three damaged Mud Joint Compound Fittings on the steam system.  |
|       | One damaged section of MagBlock Pipe Insulation was identified on the steam system. (0.5LM)                   | Encapsulate the one damaged section of MagBlock Pipe Insulation on the steam system.                                 |
|       | One damaged section of Aircell Pipe Insulation was identified on the steam system. (0.5LM)                    | Remove the one damaged section of Aircell Pipe Insulation on the steam system.                                       |
|       | ACM debris was identified in three areas on the floor. (15m <sup>2</sup> )                                    | Clean-up the ACM debris on the floor.  |
|       | One damaged section of Grey Tank Insulation was identified on the hot water tank system. (0.3m <sup>2</sup> ) | Encapsulate the damaged Grey Tank Insulation on the hot water tank system.   |
|       | One damaged section of Sweatwrap Pipe Insulation was identified on the domestic cold water system. (05.5LM)   | Encapsulate the one damaged section of Sweatwrap with White Paper Pipe Insulation on the domestic cold water system. |



| Issue   | Comments   | Recommendations   |
|---------|--|---|
|         | One damaged Mud Joint Compound Fitting was identified on the domestic cold water system. (1 unit)  | Remove the one damaged Mud Joint Compound Fitting on the domestic cold water system.  |
|         | Three residual Mud Joint Compound Fittings were identified on the condensate system. (3 units)   | Remove the three residual Mud Joint Compound Fittings on the condensate system.   |
|         | Room(s) 121 (FS# 1003)   |   |
|         | One badly damaged section of Fibreglass with Mud HVAC Insulation was identified on the HVAC system. (1m <sup>2</sup> )   | Remove the badly damaged section of Fibreglass with Mud HVAC Insulation from the HVAC system.   |
|         | ACM debris was identified on top of the ceiling tile. (1m <sup>2</sup> )   | Clean-up the ACM debris on top of the ceiling tile.   |
|         | 1 <sup>st</sup> Floor Corridor (FS# 1044)  |   |
|         | One damaged section of Fibreglass with Mud HVAC Insulation was identified on the duct system. (0.5m <sup>2</sup> )   | Remove the damaged section of Fibreglass with Mud HVAC Insulation from the duct system.   |
| Lead    | <p>One paint sample was submitted for lead analysis. The green paint was found to contain significant levels of lead (i.e., equal to or greater than 5000 ppm).</p> <p>Lead may be present in the solder used on copper domestic water lines, as caulking in bell fittings, cast iron drainage pipes, in glazing on the ceramic tiles and in electrical equipment, wiring or fixtures.</p> | <p>The draft Proposed Lead Regulation on Construction Projects, May 5, 1995, (enforced by the Ministry of Labour) does not require removal of lead paint or lead-based materials, unless work on these materials is likely to produce lead fumes or dust, for example during welding, torch cutting, grinding, sanding or sandblasting.</p> <p>In the event that such work is conducted at this facility, ensure that lead fumes or dust do not exceed the maximum allowable Time Weighted Average Exposure Value (TWAEV) of 0.05 mg/m<sup>3</sup> as prescribed by the OHSA.</p> |
| Mercury | Mercury vapour may be present in fluorescent light tubes and thermostats. Mercury may also be present in paints and adhesives.   | Mercury, or mercury vapour within light fixtures, pose no risk to workers or occupants, provided the mercury containers remain intact and undisturbed. Where possible, fluorescent lights should be recycled at an approved recycling facility. Mercury must be handled and disposed of in accordance with O. Reg. 390/00 and O. Reg. 558/00.   |
| Silica  | Silica may be present in concrete, cement mortar and non-fibreglass acoustic ceiling tiles.  | Ensure workers performing demolition work are not exposed to airborne silica levels in excess of 0.10 mg/m <sup>3</sup> by providing respiratory protection, and/or wetting down work area, and   |





| Issue         | Comments   | Recommendations  |
|---------------|--|--|
|               |  | providing workers with a facility to properly wash prior to exiting the work area as prescribed by O.Reg.490/09.   |
| Suspect Mould | Room(s) 2 <sup>nd</sup> Floor (FS# 2001)                           |  |
|               | Suspect mould was observed in three locations on the ceiling tile. | Bulk fungal analysis should be performed to the species level. Once the hazard is qualified, the mould should be removed and the source of the moisture should be mitigated. |

None of the other designated substances were observed during the course of the survey inspection.



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## **1.0 INTRODUCTION**

Oakhill Environmental Inc. (Oakhill) was retained by the National Research Council Canada (NRC) to perform a survey for Designated Substances and mould of Building M-23A in Ottawa, Ontario. Building M-23A was surveyed from October 5<sup>th</sup> to October 13<sup>th</sup>, 2011.

The purpose of the investigation was to identify any building materials or equipment containing certain substances termed “Designated Substances” and mould.

This survey will enable NRC to:

1. Manage asbestos containing materials (ACM’s) to ensure that these materials are in good condition and provide recommendations for ACM’s that are in need of repair,
2. Provide this report to NRC building managers, project managers, contractors and subcontracts enabling them to comply with O. Reg. 278/05, the regulation regarding asbestos on construction projects and in buildings and repair operations, and
3. Provide a comprehensive survey, which will enable NRC to develop a Management Plan to deal with designated substances.

### **1.1 Limitations**

This report details the accessible Designated Substances found within the building and the exterior walls. Representative views were made above accessible suspended ceiling systems. Throughout the process of inspection there were, on numerous occasions, areas that were inaccessible. These areas include but are not limited to: areas above solid ceilings, areas behind solid walls and internal components of machinery or equipment. These areas require intrusive investigative techniques, which may compromise the integrity of that system. An example of an intrusive issue is asphaltic roofing felts (tar paper), which may contain asbestos. However, due to the potential for damages to the building and its contents, as well as safety reasons, no samples were obtained from the roofing systems at the facility. Intrusive investigative techniques are only undertaken at the expressed request of NRC staff where forthcoming renovations projects are known.

Any area that was not inspected and considered inaccessible in this report should be dealt with cautiously in future endeavours before undertaking any form of work, as there may be ACM in this area. In such future



situations, samples should be collected and analyzed of all suspect ACM before commencing work. Any area that was not accessible at the time of inspection would be noted within the report.

The report reflects the observations of accessed areas, findings and analysis of materials sampled during the survey. Designated Substances may have been removed from or added to the project area. It is the NRC's responsibility to disclose whether any Designated Substances have been added to or removed from the project area.

The material in it reflects Oakhill's best judgement based on the information discovered at the time of preparation and within the Designated Substance Survey scope of work. There may be materials on-site, which are not represented by these investigations. 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 such third parties. Oakhill accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.



## 2.0 SCOPE OF WORK

The purpose of the investigation was to identify any building materials or equipment containing certain substances termed “Designated Substances” and mould. The scope defined for this project is summarized below.

1. To provide assessments for the presence of Designated Substances which include:
  - Acrylonitrile
  - Arsenic
  - Asbestos
  - Benzene
  - Coke Oven Emissions
  - Ethylene Oxide
  - Isocyanates
  - Lead
  - Mercury
  - Silica (free crystalline silica)
  - Vinyl Chloride (vinyl chloride monomer, not PVC)
  - And in addition Mould
2. Assessment will include building materials and components incorporated in the structure and finishes (including exterior finishes). Items not included are building and service tunnels, owner or occupant articles within the building (e.g. process materials or equipment, furniture, etc.), soil contaminants, groundwater, vessels, drums or underground storage tanks.
3. To collect samples of suspect building materials to verify the presence of asbestos and lead.
4. To provide testing from a certified laboratory on samples collected of suspect asbestos and lead.
5. Provide two hard and electronic (PDF) copies of the final report.



### 3.0 REGULATORY CRITERIA, STANDARDS AND GUIDELINES

The following regulatory criteria, standards, and guidelines were applied for the interpretation and reporting of observations, laboratory data, and on-site monitoring data. The building materials and contents were visually examined to determine the presence of the following designated substances in accordance with the requirements of the Ministry of Labour's (MOL) Occupational Health and Safety Act, Section 30. The Regulations governing the Designated Substances were consolidated to fall under O. Reg. 490/09.

|                |   |
|----------------|---|
| Acrylonitrile  | O. Reg. 835/90 as amended by O. Reg. 490/09                       |
| Arsenic        | O. Reg. 836/90 as amended by O. Reg. 490/09                       |
| Asbestos       | O. Reg. 278/05, O. Reg. 490/09 and O. Reg. 347/90                 |
| Benzene        | O. Reg. 839/90 as amended by O. Reg. 490/09                       |
| Ethylene Oxide | O. Reg. 841/90 as amended by O. Reg. 490/09                       |
| Isocyanates    | O. Reg. 842/90 as amended by O. Reg. 490/09                       |
| Lead           | O. Reg. 843/90 as amended by O. Reg. 490/09                       |
| Mercury        | O. Reg. 844/90 as amended by O. Reg. 490/09 and the MOL guideline |
| Silica         | O. Reg. 845/90 as amended by O. Reg. 490/09                       |
| Vinyl Chloride | O. Reg. 846/90 as amended by O. Reg. 490/09                       |

Asbestos-Containing Material (ACM) is defined as "Material that contains 0.5% or more asbestos by dry weight". Friable Material is defined as "material that: (a) when dry, can be crumbled, pulverized or powdered by hand pressure, or (b) is crumbled, pulverized or powdered".

For asbestos, lead and silica the above regulations define exposure guidelines for a worker's time-weighted average exposure of the material in air. Airborne levels should not exceed 0.1 fibres/cm<sup>3</sup> of asbestos in air, 0.05 mg/m<sup>3</sup> of lead in air, 2 ppm of acrylonitrile in air, 0.01 mg/m<sup>3</sup> of arsenic in air, 0.5 ppm of benzene in air and 0.1 mg/m<sup>3</sup> of silica in air. The above regulations classify disturbances (Type 1, Type 2, and Type 3), handling requirements, respiratory requirements and monitoring requirements.

The Ministry of Labour published, The Safe Handling of Mercury, A Guideline for the Construction Industry, Jan 1991, outlining the health effects, sources, respiratory protection during the cleanup of mercury. From the U.S. Department of Housing and Urban Development, Lead- Based Paint is classified as any paint application containing at least 1.0 milligrams of lead per square centimetre of surface area (1.0 mg/cm<sup>2</sup>) or at least 0.5% lead content by weight (5,000 ppm) or 5,000 µg/g.



The Provincial Government has issued O. Reg. 558/00 controlled under R.R.O. 1990, Regulation 347 outlining generator, hauler and receiver requirements for wastes dependant on the results of leachate analyses. Provincial and Federal regulations also outline the packaging and transportation of wastes.





## 4.0 SURVEY METHODOLOGY

### 4.1 Background Information Review

Reviewing existing reports, interviewing knowledgeable NRC staff, and reviewing as-built drawings allowed Oakhill to obtain a basic understanding of potential issues regarding each building.

### 4.2 Field Investigation

A detailed visual survey of all accessible areas of the building on a room-by-room basis, including ceiling spaces above removable acoustical ceiling tiles; and wall spaces behind removable panels. Each area or room of the building was assigned a four-digit functional space identification number beginning with 1001. A room-by-room inspection was conducted for Designated Substances in all accessible areas. All suspect ACM and lead were sampled and were categorized with a unique homogeneous material number. Visual assessment of all known and suspect ACM included assessment as to friability, type, quantity, condition, accessibility, appropriate response, as well as comments made on the potential or likelihood of future damage or exposure to ACM by building occupants. Quantification of all ACM's were approximations only, not actual measurements. Square metres or linear metres were generally used for quantifying ACM. All ACM's are documented through functional space forms and photographs.

In the performance of this Designated Substances survey, Oakhill utilized the project team comprised of the following staff:

|   |                         |
|---|-------------------------|
| Mr. Fil Barillaro, M.A.Sc., P.Eng.          | Project Manager         |
| Mr. Bill McGovern, Industrial Hygiene Cert. | On-Site Project Manager |
| Mr. Sean Bagnulo, AutoCAD                   | Environmental Analyst   |
| Mr. Raivo Tähiste, BSc.                     | Environmental Analyst   |
| Mr. John Butera                             | Environmental Analyst   |
| Mr. Nick Riddick, Dip. C. Tech, CEPIT       | Environmental Analyst   |
| Mr. Dave Jamieson                           | Environmental Analyst   |
| Ms. Petra Wittig                            | Administration          |



#### **4.2.1 Homogenous Materials**

Materials were grouped to be homogenous. That is, materials that are uniform in colour and texture were assumed to be similar in content. Regarding asbestos, samples collected of suspect materials adhered to O. Reg. 278/05, Table 1 Bulk Material Samples – Section 3 (3), for minimum sample requirements for respective suspect materials and quantities. Samples were randomly collected to be representative of each suspect ACM and lead material and then assigned a homogenous material number accordingly. A homogenous materials list was generated which consists of suspect ACM sampled, with positive materials highlighted. The Homogenous Materials List is located in Table 2 of this report.

#### **4.3 Sample Collection**

Collection of bulk samples of suspect materials for submission to AGAT Laboratories Ltd., in Mississauga, Ontario for analysis for asbestos (as percentage asbestos fibre, and type of asbestos fibre) and for lead (ug/g).

##### **4.3.1 Bulk Sample Collection**

Oakhill field staff wore half-face respirators with P100 cassettes during bulk sampling events. Building materials were pre-dampened with an application of amended water from a spray bottle to suppress surface and airborne fibres prior to disturbance for sample collection.

The building material sampled was sealed with caulking after sample collection to restore the material to its original condition. Every effort to minimize intrusion of the sampled building materials was always of paramount consideration. Each sample was sealed in a new plastic bag and labeled with a unique sample number and then double bagged. Chain of custody records were completed on-site and submitted with all samples to an approved laboratory.

All bulk materials sampled were randomly collected and are representative of each area of homogenous material. The minimum number of bulk materials to be collected from an area of homogenous material was in accordance with O. Reg. 278/05, Section 3 (3) (Table 1). All analysis of suspect asbestos containing materials was conducted according to O. Reg. 278/05, Section 3 (1) which states that the following standard be used: U.S. Environmental Protection Agency. Test method EPA/600/R-93/116: Method for the



Determination of Asbestos in Bulk Building Materials. June 1993. Sample locations are depicted in Appendix E.

#### **4.3.2 Sample Analysis**

All bulk samples were submitted to AGAT Laboratories Inc. (AGAT) in Mississauga, Ontario, an independent laboratory, for analysis.

AGAT has been evaluated and has been found to comply with the criteria and standards established by the Canadian Association for Environmental Laboratories (CAEAL) for asbestos fibre analysis by phase contrast microscopy. The American Industrial Hygiene Association (AIHA) has accredited AGAT for the Industrial Hygiene Laboratory Accreditation Program for Asbestos using optical microscopy. Suspect bulk samples were analyzed using polarized light microscopy, and were based on a “test for first positive” approach. Laboratory results of the asbestos and lead sampling can be found in Appendices B and C respectively.



## 5.0 FINDINGS AND RECOMMENDATIONS

The results of the survey for designated substances and mould at building M-23A are discussed below.

### 5.1 Asbestos

All potential asbestos-containing materials sampled have been compiled into a homogenous materials list. Each homogenous material is given a homogeneous number, description, analytical result and corresponding sample numbers. The homogeneous materials list for building M-23A is shown in Table 2.

**Table 2 – Homogeneous Materials List**

| Hom. Mat. # | Material Description  | Asbestos Type & Conc.      | Sample No.          |
|-------------|---|----------------------------|---------------------|
| 1           | Texture coat plaster  | ND                         | M23A-01(A-G)        |
| 2           | <b>Mud joint compound fitting insulation (low temp - grey)</b>  | <b>50-75% Chrysotile</b>   | <b>M23A-02A</b>     |
| 3           | <b>Aircell Pipe Insulation</b>                                  | <b>50-75% Chrysotile</b>   | <b>M23A-03A</b>     |
| 4           | <b>Thick plaster</b>  | <b>0.5-5% Tremolite</b>    | <b>M23A-04(A-G)</b> |
| 5           | 12"x12" FT (tan w/brown flecks)                                 | ND                         | M23-05(A-C)         |
| 6           | <b>FG with mud HVAC insulation</b>                              | <b>&gt; 75% Chrysotile</b> | <b>M23A-06A</b>     |
| 7           | <b>FG with tar paper and white paper duct insulation</b>        | <b>50-75% Chrysotile</b>   | <b>M23A-07A</b>     |
| 8           | <b>Mud joint compound fitting insulation (high temp - grey)</b> | <b>&gt; 75% Chrysotile</b> | <b>M23A-08A</b>     |
| 9           | <b>9"x9" Floor tile (pink w/white flecks)</b>                   | <b>Suspect asbestos</b>    | <b>M23A-09(A-C)</b> |
| 10          | <b>Sweatwrap (w/white paper) pipe insulation</b>                | <b>50-75% Chrysotile</b>   | <b>M23A-10(A-C)</b> |
| 11          | <b>Grey tank insulation</b>                                     | <b>&gt; 75% Chrysotile</b> | <b>M23A-11A</b>     |
| 12          | <b>MagBlock pipe insulation</b>                                 | <b>15-30% Amosite</b>      | <b>M23A-12A</b>     |
| 13          | Mud joint compound fitting insulation (newer tan)               | ND                         | M23A-13(A-C)        |
| 14          | Brown thermal patch   | ND                         | M23A-14A            |
| 15          | 12"x12" FT (lt grey/dk grey)                                    | ND                         | M23A-15(A-C)        |
| 16          | Grey thermal patch  | ND                         | M23A-16             |
| 17          | Exterior texture finish   | ND                         | M23A-17(A-G)        |
| 18          | <b>Smooth plaster</b>   | <b>0.5-5% Tremolite</b>    | <b>M23A-18(A-G)</b> |

Hom. Mat. # – Homogeneous Material Number    Conc. – Concentration    NAD – No Asbestos Detected

#### 5.1.1 Survey Findings

The eleven building materials that contain asbestos are as follows:

- 1) Mud joint compound fitting insulation on the high temperature systems;
- 2) Mud joint compound fitting insulation on the low temperature systems;
- 3) MagBlock pipe insulation on the high temperature systems;



- 4) Aircell pipe insulation;
- 5) Fiberglass with mud HVAC insulation;
- 6) Floor tile (9" x 9") please refer to paragraph below;
- 7) Thick plaster;
- 8) Smooth plaster
- 9) Grey mud tank insulation;
- 10) Sweatwrap pipe insulation with white paper; and
- 11) Fiberglass with tar paper and white paper duct insulation.

Table 3 provides a summary of all asbestos-containing materials by room. This table can be cross-referenced with both the functional space forms in Appendix F to find a complete description of the room and the floor plans in Appendix E depicting exactly where the ACM materials were encountered.

**Table 3 – Summary of ACM by Room Listing**

| Functional Space | Room            | Homo Mat | Material Description and Quantity   | Response   |
|------------------|-----------------|----------|---|------------|
| <i>Basement</i>  |                 |          |   |            |
| B002             | 61/63/65/<br>69 | 8        | Mud Joint Compound Fitting Insulation on the steam system - 7 units                     | O & M      |
|                  |                 | 8        | Mud Joint Compound Fitting Insulation on the condensate system - 3 units                | O & M      |
|                  |                 | 8        | Mud Joint Compound Fitting Insulation on the hot water heating system - 12 units        | O & M      |
|                  |                 | 3        | Six damaged sections of Aircell Pipe Insulation on the hot water heating system – 1.2LM | 6 Removals |
|                  |                 | 2        | Mud Joint Compound Fitting Insulation on the domestic hot water system - 2 units        | O & M      |
|                  |                 | 2        | Mud Joint Compound Fitting Insulation on the domestic cold water system - 2 units       | O & M      |
| B004             | 66/66A          | 18       | Smooth plaster on the ceiling – 28.5m <sup>2</sup>                                      | O & M      |
|                  |                 | 8        | Mud Joint Compound Fitting Insulation on the condensate system - 8 units                | O & M      |
|                  |                 | 3        | Aircell Pipe Insulation on the condensate system – 7LM                                  | O & M      |
|                  |                 | 8        | Mud Joint Compound Fitting Insulation on the steam system - 4 units                     | O & M      |
|                  |                 | 3        | Aircell Pipe Insulation on the steam system – 3LM                                       | O & M      |



|      |          |    |   |           |
|------|----------|----|---|-----------|
|      |          | 2  | Mud Joint Compound Fitting Insulation on the domestic hot water system - 6 units                | O & M     |
|      |          | 2  | Mud Joint Compound Fitting Insulation on the domestic cold water system - 7 units               | O & M     |
| B009 | 59       | 8  | Mud Joint Compound Fitting Insulation on the hot water heating system - 3 units                 | O & M     |
|      |          | 3  | Aircell Pipe Insulation on the hot water heating system – 0.2LM                                 | O & M     |
|      |          | 2  | Mud Joint Compound Fitting Insulation on the chiller system - 4 units                           | O & M     |
| B010 | 54/56/58 | 18 | Smooth plaster on the ceiling – 86 m <sup>2</sup>   | O & M     |
|      |          | 6  | Fiberglass with Mud HVAC Insulation on the HVAC unit – 27m <sup>2</sup>                         | O & M     |
|      |          | NA | Suspect ACM Rope Gasket on HVAC Unit (not sampled to preserve system integrity) – 1LM           | O & M     |
|      |          | 6  | One damaged section of Fiberglass with Mud HVAC Insulation on the HVAC Unit - 0.5m <sup>2</sup> | 1 Encap.  |
|      |          | 6  | ACM debris on HVAC unit – 1m <sup>2</sup>   | 1 Removal |
|      |          | 7  | Fiberglass with tar/white paper Insulation on the HVAC duct – 25m <sup>2</sup>                  | O & M     |
|      |          | 3  | Aircell Pipe Insulation on the hot water heating system – 1 LM                                  | O & M     |
|      |          | 2  | Mud Joint Compound Fitting Insulation on the chiller system - 14 units                          | O & M     |
|      |          | 2  | Mud Joint Compound Fitting Insulation on the makeup water system - 6 units                      | O & M     |
|      |          | 8  | Mud Joint Compound Fitting Insulation on the hot water heating system - 28 units                | O & M     |
|      |          | 8  | Mud Joint Compound Fitting Insulation on the steam system - 16 units                            | O & M     |
|      |          | 8  | Mud Joint Compound Fitting Insulation on the condensate system - 6 units                        | O & M     |
| B011 | 57       | 8  | Mud Joint Compound Fitting Insulation on the hot water heating system - 3 units                 | O & M     |
|      |          | 3  | Aircell Pipe Insulation on the hot water heating system – 0.2LM                                 | O & M     |
|      |          | 2  | Mud Joint Compound Fitting Insulation on the chiller system - 4 units                           | O & M     |
|      |          | 2  | Mud Joint Compound Fitting Insulation on the domestic cold water system - 1 unit                | O & M     |
|      |          | 2  | Mud Joint Compound Fitting Insulation on the domestic hot water system - 1 unit                 | O & M     |
| B012 | 51/55    | 8  | Mud Joint Compound Fitting Insulation on the hot water heating system - 21 units                | O & M     |



|      |               |    |  |            |
|------|---------------|----|--|------------|
|      |               | 3  | Aircell Pipe Insulation on the hot water heating system – 1LM                              | O & M      |
|      |               | 8  | Mud Joint Compound Fitting Insulation on the steam system - 8 units                        | O & M      |
|      |               | 8  | Mud Joint Compound Fitting Insulation on the condensate system - 10 units                  | O & M      |
|      |               | 2  | Mud Joint Compound Fitting Insulation on the chiller system - 20 units                     | O & M      |
|      |               | 2  | Mud Joint Compound Fitting Insulation on the domestic cold water system - 20 units         | O & M      |
|      |               | 2  | Mud Joint Compound Fitting Insulation on the domestic hot water system - 7 units           | O & M      |
| B013 | 46            | 18 | Smooth plaster on the ceiling – 4 m <sup>2</sup>   | O & M      |
| B014 | 44            | 8  | Mud Joint Compound Fitting Insulation on the steam system - 2 units                        | O & M      |
|      |               | 3  | Aircell Pipe Insulation on the steam system – 4LM  | O & M      |
|      |               | 18 | Smooth plaster on the walls – 48 m <sup>2</sup>  | O & M      |
|      |               | 3  | Aircell Pipe Insulation on the domestic hot water system – 11LM                            | O & M      |
|      |               | 8  | Mud Joint Compound Fitting Insulation on the condensate system - 10 units                  | O & M      |
|      |               | 2  | Mud Joint Compound Fitting Insulation on the chiller system - 2 units                      | O & M      |
|      |               | 10 | Sweatwrap Pipe Insulation on the domestic cold water system – 6LM                          | O & M      |
|      |               | 3  | Three damaged sections of Aircell Pipe Insulation on the domestic hot water system – 1.5LM | 3 Removals |
|      |               | 3  | Two damaged sections of Aircell Pipe Insulation on the domestic hot water system – 0.5LM   | 2 Encaps.  |
|      |               | 3  | Two damaged sections of Aircell Pipe Insulation on the steam system – 1LM                  | 2 Removals |
|      |               | 8  | One damaged Mud Joint Compound Fitting on the steam system – 1 unit                        | 1 Removal  |
|      |               | 8  | ACM debris on the steam system – 1m <sup>2</sup>   | 1 Removal  |
| B015 | 43/45/<br>45B | 18 | Smooth plaster on the walls – 101 m <sup>2</sup>   | O & M      |
|      |               | 8  | Mud Joint Compound Fitting Insulation on the steam system - 10 units                       | O & M      |
|      |               | 3  | Aircell Pipe Insulation on the steam system – 22LM   | O & M      |



|      |             |    |  |            |
|------|-------------|----|--|------------|
|      |             | 8  | Mud Joint Compound Fitting Insulation on the condensate system - 9 units                       | O & M      |
|      |             | 3  | Aircell Pipe Insulation on the condensate system – 17LM  | O & M      |
|      |             | 2  | Mud Joint Compound Fitting Insulation on the chiller system - 2 units                          | O & M      |
| B016 | 42/42A      | 18 | Smooth plaster on the walls – 90 m <sup>2</sup>  | O & M      |
|      |             | 9  | 9”x9” Floor Tile (pink/white) – 3 m <sup>2</sup>   | O & M      |
|      |             | 8  | Mud Joint Compound Fitting Insulation on the steam system - 1 unit                             | O & M      |
|      |             | 3  | Aircell Pipe Insulation on the steam system – 3LM  | O & M      |
| B017 | Corridor 48 | 18 | Smooth plaster on the walls – 67 m <sup>2</sup>  | O & M      |
|      |             | 8  | Mud Joint Compound Fitting Insulation on the steam system - 4 units                            | O & M      |
|      |             | 3  | Aircell Pipe Insulation on the steam system – 15LM   | O & M      |
|      |             | 8  | Mud Joint Compound Fitting Insulation on the condensate system - 4 units                       | O & M      |
|      |             | 3  | Aircell Pipe Insulation on the condensate system – 15LM  | O & M      |
|      |             | 7  | Fiberglass with Tar and White Paper Duct Insulation on the HVAC duct system – 48m <sup>2</sup> | O & M      |
|      |             | 3  | Aircell Pipe Insulation on the domestic hot water system – 71LM                                | O & M      |
|      |             | 3  | One damaged section of Aircell Pipe Insulation on the domestic hot water system – 3LM          | 1 Removal  |
|      |             | 10 | Sweatwrap Pipe Insulation on the domestic cold water system – 35LM                             | O & M      |
|      |             | 2  | Mud Joint Compound Fitting Insulation on the chiller system - 21 units                         | O & M      |
|      |             | 8  | ACM debris on top of the ceiling tile – 4m <sup>2</sup>  | 2 Removals |
|      |             | 8  | ACM debris on top of duct above ceiling – 1m <sup>2</sup>                                      | 1 Removal  |
| B018 | 41B         | 18 | Smooth plaster on the walls – 7 m <sup>2</sup>   | O & M      |
|      |             | 18 | Smooth plaster on the ceiling – 3 m <sup>2</sup>   | O & M      |
|      |             | 18 | Two areas of damaged smooth plaster on the wall - 2m <sup>2</sup>                              | 2 Encaps.  |
| B019 | 41/41A      | 18 | Smooth plaster on the ceiling – 56 m <sup>2</sup>  | O & M      |





|      |    |    |  |       |
|------|----|----|--|-------|
| B020 | 40 | 18 | Smooth plaster on the walls – 12 m <sup>2</sup>                          | O & M |
|      |    | 8  | Mud Joint Compound Fitting Insulation on the condensate system - 2 units | O & M |
|      |    | 3  | Aircell Pipe Insulation on the condensate system – 2LM                   | O & M |
|      |    | 8  | Mud Joint Compound Fitting Insulation on the steam system - 12 units     | O & M |
|      |    | 2  | Mud Joint Compound Fitting Insulation on the chiller system - 3 units    | O & M |
| B021 | 38 | 18 | Smooth plaster on the walls – 13 m <sup>2</sup>                          | O & M |
|      |    | 8  | Mud Joint Compound Fitting Insulation on the condensate system - 2 units | O & M |
|      |    | 3  | Aircell Pipe Insulation on the condensate system – 1LM                   | O & M |
|      |    | 8  | Mud Joint Compound Fitting Insulation on the steam system - 4 units      | O & M |
|      |    | 2  | Mud Joint Compound Fitting Insulation on the chiller system - 4 units    | O & M |
| B022 | 36 | 18 | Smooth plaster on the walls – 13 m <sup>2</sup>                          | O & M |
|      |    | 8  | Mud Joint Compound Fitting Insulation on the condensate system - 2 units | O & M |
|      |    | 3  | Aircell Pipe Insulation on the condensate system – 1LM                   | O & M |
|      |    | 8  | Mud Joint Compound Fitting Insulation on the steam system - 4 units      | O & M |
|      |    | 2  | Mud Joint Compound Fitting Insulation on the chiller system - 3 units    | O & M |
| B023 | 34 | 18 | Smooth plaster on the walls – 13 m <sup>2</sup>                          | O & M |
|      |    | 8  | Mud Joint Compound Fitting Insulation on the condensate system - 3 units | O & M |
|      |    | 3  | Aircell Pipe Insulation on the condensate system – 1LM                   | O & M |
|      |    | 8  | Mud Joint Compound Fitting Insulation on the steam system - 4 units      | O & M |
|      |    | 2  | Mud Joint Compound Fitting Insulation on the chiller system - 5 units    | O & M |
| B024 | 32 | 18 | Smooth plaster on the walls – 25 m <sup>2</sup>                          | O & M |
|      |    | 8  | Mud Joint Compound Fitting Insulation on the condensate system - 6 units | O & M |
|      |    | 8  | Mud Joint Compound Fitting Insulation on the steam system - 6 units      | O & M |



|      |                             |    |   |            |
|------|-----------------------------|----|---|------------|
|      |                             | 2  | Mud Joint Compound Fitting Insulation on the chiller system - 4 units               | O & M      |
| B025 | Corridor<br>(Rooms 31 – 41) | 18 | Smooth plaster on the walls – 32 m <sup>2</sup>                                     | O & M      |
|      |                             | 18 | Smooth plaster on the ceiling – 54 m <sup>2</sup>                                   | O & M      |
|      |                             | 8  | Mud Joint Compound Fitting Insulation on the condensate system - 4 units            | O & M      |
|      |                             | 8  | Mud Joint Compound Fitting Insulation on the steam system - 1 unit                  | O & M      |
|      |                             | 18 | One area of damaged smooth plaster on the wall - 1m <sup>2</sup>                    | 1 Encap.   |
| B026 | 31                          | 18 | Smooth plaster on the walls – 20 m <sup>2</sup>                                     | O & M      |
|      |                             | 18 | Smooth plaster on the ceiling – 52 m <sup>2</sup>                                   | O & M      |
|      |                             | 2  | Mud Joint Compound Fitting Insulation on the chiller system - 3 units               | O & M      |
|      |                             | 2  | One damaged Mud Joint Compound Fitting on the chiller system - 1 unit               | 1 Encap.   |
|      |                             | 3  | Aircell Pipe Insulation on the steam system – 1LM                                   | O & M      |
|      |                             | 3  | Aircell Pipe Insulation on the condensate system – 0.5LM                            | O & M      |
|      |                             | 8  | Mud Joint Compound Fitting Insulation on the condensate system - 5 units            | O & M      |
| B027 | 10/27/<br>27A               | 12 | MagBlock Pipe Insulation on the steam system – 5LM                                  | O & M      |
|      |                             | 8  | Mud Joint Compound Fitting Insulation on the steam system - 151 units               | O & M      |
|      |                             | 8  | Fiberglass with Mud Joint Compound Pipe Insulation on the steam system – 163LM      | O & M      |
|      |                             | 12 | Damaged MagBlock Pipe Insulation on the steam system - 0.5LM                        | 1 Encap.   |
|      |                             | 8  | Two damaged Mud Joint Compound Fittings on the steam system - 2 units               | 2 Encaps.  |
|      |                             | 8  | Three damaged Mud Joint Compound Fittings on the steam system - 3 units             | 3 Removals |
|      |                             | 3  | One damaged section of Aircell Pipe Insulation on the steam system - 0.5LM          | 1 Removal  |
|      |                             | 8  | Mud Joint Compound Fitting Insulation on the condensate system - 133 units          | O & M      |
|      |                             | 8  | Fiberglass with Mud Joint Compound Pipe Insulation on the condensate system – 133LM | O & M      |
|      |                             | 8  | Three damaged Mud Joint Compound Fittings on the condensate system - 3 units        | 3 Removals |



|                             |     |    |  |           |
|-----------------------------|-----|----|--|-----------|
|                             |     | 10 | Sweatwrap Pipe Insulation on the domestic cold water system – 15LM                         | O & M     |
|                             |     | 2  | Mud Joint Compound Fitting Insulation on the domestic cold water system - 24 units         | O & M     |
|                             |     | 3  | Aircell Pipe Insulation on the domestic cold water system – 6 LM                           | O & M     |
|                             |     | 10 | One damaged section of Sweatwrap Pipe Insulation on the domestic cold water system – 0.5LM | 1 Encap.  |
|                             |     | 2  | One damaged Mud Joint Compound Fitting on the domestic cold water system – 1 unit          | 1 Removal |
|                             |     | 2  | Mud Joint Compound Fitting Insulation on the chiller system - 10 units                     | O & M     |
|                             |     | 11 | Grey Tank Insulation on the hot water tank – 8m <sup>2</sup>                               | O & M     |
|                             |     | 11 | One damaged section of Grey Tank Insulation on the hot water tank – 0.3m <sup>2</sup>      | 1 Encap.  |
|                             |     | 2  | Mud Joint Compound Fitting Insulation on the sanitary drain system - 3 units               | O & M     |
|                             |     | 2  | Mud Joint Compound Fitting Insulation on the domestic hot water system - 26 units          | O & M     |
|                             |     | 3  | Aircell Pipe Insulation on the domestic hot water system – 55 LM                           | O & M     |
|                             |     | 2  | Mud Joint Compound Fitting Insulation on the fire water system - 1 unit                    | O & M     |
| <i>1<sup>st</sup> Floor</i> |     |    |  |           |
| 1001                        | 127 | 18 | Smooth plaster on the walls – 82 m <sup>2</sup>  | O & M     |
|                             |     | 8  | Mud Joint Compound Fitting Insulation on the condensate system - 6 units                   | O & M     |
|                             |     | 3  | Aircell Pipe Insulation on the condensate system – 15LM                                    | O & M     |
|                             |     | 8  | Mud Joint Compound Fitting Insulation on the steam system - 7 units                        | O & M     |
|                             |     | 3  | Aircell Pipe Insulation on the steam system – 9LM  | O & M     |
| 1002                        | 125 | 18 | Smooth plaster on the walls – 30 m <sup>2</sup>  | O & M     |
|                             |     | 6  | Fiberglass with Mud Duct Insulation on the HVAC system – 9m <sup>2</sup>                   | O & M     |
|                             |     | 18 | Smooth plaster on the ceiling – 40 m <sup>2</sup>  | O & M     |
|                             |     | 2  | Mud Joint Compound Fitting Insulation on the chiller system - 4 units                      | O & M     |
| 1003                        | 121 | 18 | Smooth plaster on the walls – 37 m <sup>2</sup>  | O & M     |



|      |                          |    |   |           |
|------|--------------------------|----|---|-----------|
|      |                          | 18 | Smooth plaster on the ceiling – 60 m <sup>2</sup>   | O & M     |
|      |                          | 2  | Mud Joint Compound Fitting Insulation on the chiller system - 18 units                          | O & M     |
|      |                          | 6  | Fiberglass with Mud Duct Insulation on the HVAC system – 6m <sup>2</sup>                        | O & M     |
|      |                          | 6  | One damaged section of Fiberglass with Mud Duct Insulation on the HVAC system – 1m <sup>2</sup> | 1 Removal |
| 1004 | 119                      | 18 | Smooth plaster on the walls – 13 m <sup>2</sup>   | O & M     |
|      |                          | 18 | Smooth plaster on the ceiling – 19 m <sup>2</sup>   | O & M     |
| 1005 | 117                      | 18 | Smooth plaster on the walls – 35 m <sup>2</sup>   | O & M     |
|      |                          | 18 | Smooth plaster on the ceiling – 19 m <sup>2</sup>   | O & M     |
| 1006 | 113/115                  | 18 | Smooth plaster on the walls – 31 m <sup>2</sup>   | O & M     |
|      |                          | 18 | Smooth plaster on the ceiling – 42 m <sup>2</sup>   | O & M     |
| 1007 | 111                      | 18 | Smooth plaster on the wall – 5 m <sup>2</sup>   | O & M     |
|      |                          | 18 | Smooth plaster on the ceiling – 10 m <sup>2</sup>   | O & M     |
| 1008 | 109                      | 18 | Smooth plaster on the walls – 14 m <sup>2</sup>   | O & M     |
|      |                          | 18 | Smooth plaster on the ceiling – 19 m <sup>2</sup>   | O & M     |
| 1009 | 105                      | 18 | Smooth plaster on the walls – 11 m <sup>2</sup>   | O & M     |
|      |                          | 3  | Aircell Pipe Insulation on the condensate system – 5LM  | O & M     |
|      |                          | 8  | Mud Joint Compound Fitting Insulation on the condensate system - 6 units                        | O & M     |
|      |                          | 3  | Aircell Pipe Insulation on the steam system – 10LM  | O & M     |
|      |                          | 8  | Mud Joint Compound Fitting Insulation on the steam system - 6 units                             | O & M     |
| 1010 | Front Entrance/<br>Lobby | 18 | Smooth plaster on the walls - 80 m <sup>2</sup>   | O & M     |
|      |                          | 18 | Smooth plaster on the ceiling – 57 m <sup>2</sup>   | O & M     |
| 1011 | Janitor's Room           | 9  | 9"x9" Floor Tile (red/gold) – 6m <sup>2</sup>   | O & M     |
|      |                          | 18 | Smooth plaster on the walls – 10 m <sup>2</sup>   | O & M     |



|      |     |    |  |       |
|------|-----|----|--|-------|
|      |     | 18 | Smooth plaster on the ceiling – 6 m <sup>2</sup>                         | O & M |
| 1013 | 104 | 18 | Smooth plaster on the walls – 10 m <sup>2</sup>                          | O & M |
|      |     | 18 | Smooth plaster on the ceiling – 10 m <sup>2</sup>                        | O & M |
| 1014 | 106 | 18 | Smooth plaster on the walls – 54 m <sup>2</sup>                          | O & M |
|      |     | 3  | Aircell Pipe Insulation on the steam system – 4LM                        | O & M |
|      |     | 3  | Aircell Pipe Insulation on the condensate system – 4LM                   | O & M |
| 1015 | 108 | 18 | Smooth plaster on the walls – 14 m <sup>2</sup>                          | O & M |
|      |     | 18 | Smooth plaster on the ceiling – 16 m <sup>2</sup>                        | O & M |
|      |     | 3  | Aircell Pipe Insulation on the condensate system – 3LM                   | O & M |
|      |     | 8  | Mud Joint Compound Fitting Insulation on the condensate system - 3 units | O & M |
|      |     | 3  | Aircell Pipe Insulation on the steam system – 5LM                        | O & M |
|      |     | 8  | Mud Joint Compound Fitting Insulation on the steam system - 5 units      | O & M |
| 1016 | 110 | 18 | Smooth plaster on the walls – 16 m <sup>2</sup>                          | O & M |
|      |     | 18 | Smooth plaster on the ceiling – 16 m <sup>2</sup>                        | O & M |
| 1017 | 112 | 18 | Smooth plaster on the walls – 14 m <sup>2</sup>                          | O & M |
|      |     | 18 | Smooth plaster on the ceiling – 16 m <sup>2</sup>                        | O & M |
| 1018 | 114 | 18 | Smooth plaster on the walls – 30 m <sup>2</sup>                          | O & M |
|      |     | 18 | Smooth plaster on the ceiling – 16 m <sup>2</sup>                        | O & M |
| 1019 | 116 | 18 | Smooth plaster on the walls – 14 m <sup>2</sup>                          | O & M |
|      |     | 18 | Smooth plaster on the ceiling – 16 m <sup>2</sup>                        | O & M |
| 1020 | 118 | 18 | Smooth plaster on the walls – 31 m <sup>2</sup>                          | O & M |
|      |     | 18 | Smooth plaster on the ceiling – 32 m <sup>2</sup>                        | O & M |
|      |     | 2  | Mud Joint Compound Fitting Insulation on the chiller system - 5 units    | O & M |



|      |         |    |  |       |
|------|---------|----|--|-------|
| 1021 | 122     | 18 | Smooth plaster on the walls – 16 m <sup>2</sup>                          | O & M |
|      |         | 18 | Smooth plaster on the ceiling – 16 m <sup>2</sup>                        | O & M |
| 1022 | 129     | 18 | Smooth plaster on the walls – 45 m <sup>2</sup>                          | O & M |
|      |         | 3  | Aircell Pipe Insulation on the condensate system – 6LM                   | O & M |
|      |         | 8  | Mud Joint Compound Fitting Insulation on the condensate system - 4 units | O & M |
|      |         | 3  | Aircell Pipe Insulation on the steam system – 6LM                        | O & M |
|      |         | 8  | Mud Joint Compound Fitting Insulation on the steam system - 4 units      | O & M |
|      |         | 2  | Mud Joint Compound Fitting Insulation on the chiller system - 4 units    | O & M |
| 1023 | 130/134 | 18 | Smooth plaster on the walls - 38 m <sup>2</sup>                          | O & M |
|      |         | 18 | Smooth plaster on the ceiling - 49 m <sup>2</sup>                        | O & M |
|      |         | 2  | Mud Joint Compound Fitting Insulation on the chiller system - 10 units   | O & M |
| 1024 | 131     | 18 | Smooth plaster on the walls – 86 m <sup>2</sup>                          | O & M |
|      |         | 2  | Mud Joint Compound Fitting Insulation on the chiller system - 5 units    | O & M |
| 1025 | 135     | 18 | Smooth plaster on the walls – 18 m <sup>2</sup>                          | O & M |
|      |         | 18 | Smooth plaster on the ceiling – 16 m <sup>2</sup>                        | O & M |
|      |         | 2  | Mud Joint Compound Fitting Insulation on the chiller system - 1 unit     | O & M |
| 1026 | 138     | 9  | 9”x9” Floor Tile (light brown/dark brown) – 30m <sup>2</sup>             | O & M |
| 1027 | 139     | 18 | Smooth plaster on the walls – 20 m <sup>2</sup>                          | O & M |
| 1028 | 140     | 18 | Smooth plaster on the walls – 31 m <sup>2</sup>                          | O & M |
|      |         | 18 | Smooth plaster on the ceiling – 16 m <sup>2</sup>                        | O & M |
| 1029 | 141     | 18 | Smooth plaster on the walls – 23 m <sup>2</sup>                          | O & M |
|      |         | 8  | Mud Joint Compound Fitting Insulation on the steam system - 1 unit       | O & M |
| 1030 | 142     | 18 | Smooth plaster on the walls – 16 m <sup>2</sup>                          | O & M |



|      |                                 |    |   |       |
|------|---------------------------------|----|---|-------|
|      |                                 | 18 | Smooth plaster on the ceiling – 18 m <sup>2</sup>                                 | O & M |
|      |                                 | 8  | Mud Joint Compound Fitting Insulation on the steam system – 2 units               | O & M |
|      |                                 | 8  | Mud Joint Compound Fitting Insulation on the condensate system - 1 unit           | O & M |
|      |                                 | 2  | Mud Joint Compound Fitting Insulation on the chiller system - 2 units             | O & M |
| 1031 | 143                             | 18 | Smooth plaster on the walls – 10 m <sup>2</sup>                                   | O & M |
| 1033 | 145                             | 18 | Smooth plaster on the walls – 58 m <sup>2</sup>                                   | O & M |
|      |                                 | 2  | Mud Joint Compound Fitting Insulation on the chiller system - 4 units             | O & M |
|      |                                 | 6  | Fiberglass with Mud Duct Insulation on the HVAC system – 15m <sup>2</sup>         | O & M |
| 1034 | 147/147A/<br>147B/147C/<br>147D | 18 | Smooth plaster on the walls – 22 m <sup>2</sup>                                   | O & M |
|      |                                 | 8  | Mud Joint Compound Fitting Insulation on the hot water heating system - 17 units  | O & M |
|      |                                 | 6  | Fiberglass with Mud Duct Insulation on the HVAC system – 3m <sup>2</sup>          | O & M |
| 1036 | 157/157A/<br>157B               | 18 | Smooth plaster on the walls -18 m <sup>2</sup>                                    | O & M |
|      |                                 | 6  | Fiberglass with Mud Duct Insulation on the HVAC system – 1m <sup>2</sup>          | O & M |
| 1037 | 154                             | 18 | Smooth plaster on the walls - 11 m <sup>2</sup>                                   | O & M |
| 1038 | 156                             | 18 | Smooth plaster on the walls - 18 m <sup>2</sup>                                   | O & M |
| 1039 | 158                             | 8  | Mud Joint Compound Fitting Insulation on the hot water heating system - 4 units   | O & M |
| 1040 | 159/161/<br>165/165A            | 8  | Mud Joint Compound Fitting Insulation on the hot water heating system - 4 units   | O & M |
|      |                                 | 6  | Fiberglass with Mud Duct Insulation on the HVAC system – 18m <sup>2</sup>         | O & M |
| 1041 | 160                             | 8  | Mud Joint Compound Fitting Insulation on the hot water heating system - 4 units   | O & M |
| 1043 | 164                             | 8  | Mud Joint Compound Fitting Insulation on the hot water heating system - 6 units   | O & M |
|      |                                 | 6  | Fiberglass with Mud Duct Insulation on the HVAC system – 8m <sup>2</sup>          | O & M |
|      |                                 | 2  | Mud Joint Compound Fitting Insulation on the domestic cold water system - 7 units | O & M |
| 1044 | 1 <sup>st</sup> Floor Corridor  | 18 | Smooth plaster on the walls – 419 m <sup>2</sup>                                  | O & M |



|                             |                                   |    |  |           |
|-----------------------------|-----------------------------------|----|--|-----------|
|                             |                                   | 6  | Fiberglass with Mud Duct Insulation on the HVAC system – 96m <sup>2</sup>          | O & M     |
|                             |                                   | 6  | Damaged Fiberglass with Mud Duct Insulation on the HVAC system – 0.5m <sup>2</sup> | 1 Removal |
|                             |                                   | 8  | Mud Joint Compound Fitting Insulation on the hot water heating system - 22 units   | O & M     |
|                             |                                   | 2  | Mud Joint Compound Fitting Insulation on the chiller system - 19 units             | O & M     |
| <i>2<sup>nd</sup> Floor</i> |                                   |    |  |           |
| 2001                        | 2 <sup>nd</sup> Floor (IRC Group) | 18 | Smooth plaster on the walls – 14 m <sup>2</sup>                                    | O & M     |
| <i>Stairwells</i>           |                                   |    |  |           |
| SW01                        | Stairwell B                       | 18 | Smooth plaster on the walls – 122 m <sup>2</sup>                                   | O & M     |
|                             |                                   | 18 | Smooth plaster on the ceiling – 4 m <sup>2</sup>                                   | O & M     |
| SW02                        | Stairwell D                       | 18 | Smooth plaster on the walls – 95 m <sup>2</sup>                                    | O & M     |
|                             |                                   | 18 | Smooth plaster on the ceiling – 16 m <sup>2</sup>                                  | O & M     |
| SW03                        | Stairwell C                       | 18 | Smooth plaster on the walls – 59 m <sup>2</sup>                                    | O & M     |
|                             |                                   | 18 | Smooth plaster on the ceiling – 4 m <sup>2</sup>                                   | O & M     |
| SW04                        | Stairwell A                       | 18 | Smooth plaster on the walls – 83 m <sup>2</sup>                                    | O & M     |
|                             |                                   | 18 | Smooth plaster on the ceiling – 4 m <sup>2</sup>                                   | O & M     |

LM – Linear Metre

Encap – Encapsulation

O&M – Operations & Maintenance

Homo. – Homogeneous

Mat. -Materials

Asbestos was detected in eleven homogeneous building materials sampled from the facility. The ACM was categorized as to whether it was friable or non-friable. Further, the materials were grouped according to their similar composition, system and general appearance. The following sub-sections are the result of which materials were considered friable or non-friable. Photographs are provided along with a brief description of the material.





### 5.1.2 Friable ACM

#### **Mud Joint Compound**

A representative photograph of mud joint compound fitting insulation. This material is a malleable grey insulation that has the appearance of granular mud. It appears smooth, round and hard when it is intact with appropriate exterior jacketing.



#### **Aircell**

A representative photograph of Aircell pipe insulation. This material is grey and white in colour. Aircell is layers of corrugated paper, which gives it the appearance of a honeycomb pattern when the profile is observed.



#### **MagBlock**

A representative photograph of MagBlock pipe insulation. This material is normally white or off-white in colour. MagBlock pipe insulation typically consists of a chalky, fibrous collection of blocks that is friable when found as seen in this photograph (without jacketing).



#### **Duct Insulation (FG/Tar Paper/White Paper)**

A representative photograph of asbestos duct insulation. The photograph is of duct insulation that is not part of a duct system but illustrates the characteristics of this type of asbestos duct insulation. This material is made up of fiberglass insulation with tar paper and white paper. The ACM is the white paper layer.





### **Sweat Wrap (with white paper layer)**

A representative photograph of sweat wrap with white paper layer pipe insulation. This material has several layers of brown or grey waffle pattern paper layers with the outer layer consisting of a white paper layer that contains asbestos. This type of pipe insulation was used for low temperature applications only.



### **Tank Insulation**

A representative photograph of tank insulation. This material is a malleable grey insulation that has the appearance of granular mud. It appears hard when it is intact with appropriate jacketing and is very similar to mud joint compound.



### **Duct Insulation**

A representative photograph of asbestos duct insulation. This material is a malleable grey insulation that has the appearance of granular mud. It typically is found with appropriate jacketing which gives it a hard and durable appearance.





### 5.1.3 Non-Friable ACM

#### Plaster

A representative photograph of plaster. ACM plaster is not distinguishable from non-ACM plaster by visual observation. Plaster is white, hard and smooth and is non-friable in its original condition. Plaster is used as a finishing coat for walls and ceilings.



#### 9" x 9" Floor Tile

A representative photograph of 9" x 9" vinyl asbestos floor tile (VAT). This material may be found in any number of different colours and patterns. VAT's are normally rigid and non-friable. VAT's are sometimes found under carpeting or they may be present as the only flooring.



### 5.1.4 Survey Recommendations

Under O. Reg. 278/05 damaged and exposed ACM is required to be repaired or removed. In building M-23A, the damaged asbestos containing materials, found in Table 3 and summarized in Table 1, will require Type 2 asbestos abatement procedures for removal or repair of 1 square meter or less of material and Type 3 asbestos abatement precautions for removal of greater than 1 square meter of material. These issues should be addressed as soon as possible.

The O. Reg. 278/05 also requires the removal of all ACM's that have a potential of being disturbed during renovations or demolition. Should friable ACM's remain in the building, in GOOD condition, the regulation also requires that an Asbestos Management Plan be implemented and kept in place until such time that the ACM's have been removed. The management plan will include periodic assessment and record updating to be performed on the remaining ACM at least every 12 months.



Building staff and contractors should be made aware of the location and hazards associated with the ACM's and instructed to not disturb this material. Any disturbance of this material should be reported immediately to property management and appropriate control measures put into place without delay.

## 5.2 Lead

### 5.2.1 Survey Findings

Based on visual observations during Oakhill's room-by-room surveys, potential lead was sampled in one paint finish. The sample collected from the painted surface in building M-23A was analysed for lead content.

The analytical results are provided in Appendix C and are summarized below in Table 4.

**Table 4 – Results of Lead Investigation**

| Sample | Location                 | Colour      | Results (ppm Lead) | Considered Lead Based Paint* |
|--------|--------------------------|-------------|--------------------|------------------------------|
| L01    | Cargo elevator (FS EL01) | Green paint | 8,400              | Yes                          |

\*Note: Ontario Ministry of Labour (MOL) considers 5,000ppm lead to be a lead-based paint (LBP).

### 5.2.2 Survey Recommendations

Based on the analytical results, the paint sample did contain greater than 5,000 ppm lead and is therefore classified as a lead-based paint. The green paint used in the cargo elevator contained 8,400 ppm of lead.

Lead may be present in the solder used on copper domestic water lines, as caulking in bell fittings for cast-iron drainage pipes and in electrical equipment, wiring or fixtures.

Direct disturbance of the materials can minimize the impact of lead products during removal. Removal of lead materials as an intact unit is the preferred method of removal. Mechanically powered tools increase the airborne concentration of lead dust.

Contractors are responsible to ensure that the workers are not exposed to airborne lead dust levels in excess of 0.05 mg/m<sup>3</sup>. This can be accomplished by:

- Providing respiratory protection and coveralls
- Suppressing dust levels by wetting with amended water, mops or HEPA vacuums
- Using drop-sheets and polyethylene barriers to control dust



- Ensuring the work areas have adequate ventilation
- Provide workers with the means to practice good hygiene practices when leaving the work area

The removal of metallic lead materials should be carried out in accordance with Ontario Regulation 490.09 and the Ontario Ministry of Labour (MOL) draft Proposed Lead Regulation on Construction Projects, both made under the Occupational Health and Safety Act. Any lead-containing materials should also be disposed of in accordance with Ontario Regulation 558 (formerly O. Reg. 347).

In addition, it is recommended that the United States Department of Housing and Urban Development Guideline, of 0.5 % lead (by weight) or 5,000 parts per million (ppm) lead be used as a guideline for determining whether the use of precautions as outlined in the proposed regulation would be required during the above noted operations. Airborne lead dust or fumes should not exceed the MOL TWAEV of 0.05 milligram per cubic metre ( $\text{mg}/\text{m}^3$ ) during the removal of lead based paints and products.

### **5.3 Mercury**

#### **5.3.1 Survey Findings**

Mercury vapour is present inside fluorescent light fixtures. Tubes should be removed intact prior to removing the fixtures. Liquid mercury may also be present inside thermostats and manometers in mechanical equipment.

#### **5.3.2 Survey Recommendations**

Prior to removal of fluorescent light fixtures, the tubes should be removed from the fixtures intact to prevent the mercury vapour from escaping. As long as the tubes are not broken, workers will not be exposed to hazardous mercury vapour. Prior to demolition of the facility, mercury-containing materials must be removed as per Ontario Regulation 490/09. During demolition, ensure that the maximum concentration of exposure to airborne mercury does not exceed  $0.025 \text{ mg}/\text{m}^3$  of air.

If applicable, mercury should be collected from thermostats, thermometers, and manometers prior to demolition, however care should be taken to control the release of mercury into the air.



## **5.4 Silica**

### **5.4.1 Survey Findings**

Based on the historic composition of building materials, crystalline silica is present in the following building materials:

- Concrete floor slabs;
- Masonry block walls;
- Mortar; and
- Acoustic ceiling tiles.

### **5.4.2 Survey Recommendations**

Contractors are responsible to ensure workers are not exposed to airborne silica levels in excess of 0.10 mg/m<sup>3</sup> when dealing with the above materials. This can be accomplished by:

- Minimize disturbance of the material
- Providing respiratory protection and coveralls
- Suppressing dust levels by wetting with amended water, mops or HEPA vacuums
- Using drop-sheets and polyethylene barriers to control dust
- Ensuring the work areas have adequate ventilation
- Provide workers with the means to practice good hygiene practices when leaving the work area

Use of mechanically powered tools for any demolition work increases the concentration of airborne silica and therefore requires more stringent respiratory protection and controlled work procedures.

## **5.5 Isocyanates**

### **5.5.1 Survey Findings**

At the time of the site inspection, no evidence of isocyanates was noted as part of the structure or finishes.

## **5.6 Vinyl Chloride Monomer**

### **5.6.1 Survey Findings**

At the time of the site inspection, no evidence of vinyl chloride monomer was noted as part of the structure or finishes.

## **5.7 Benzene**

### **5.7.1 Survey Findings**

Benzene may be present in a stable form within roofing materials, paints and adhesives.



## **5.7.2 Survey Recommendations**

It is not expected that benzene concentrations in air will exceed the maximum allowable TWAEV for a worker to benzene (0.5 ppm). To minimize potential benzene exposure, apply paints and adhesives in well-ventilated areas.

## **5.8 Acrylonitrile**

### **5.8.1 Survey Findings**

At the time of the site inspection, no evidence of acrylonitrile was noted as part of the structure or finishes.

## **5.9 Coke Oven Emissions**

### **5.9.1 Survey Findings**

At the time of the site inspection, no evidence of coke oven emissions was noted as part of the structure or finishes.

## **5.10 Arsenic**

### **5.10.1 Survey Findings**

At the time of the site inspection, no evidence of arsenic was noted as part of the structure or finishes.

### **5.10.2 Survey Recommendations**

Arsenic or arsenic-containing compounds may be present in stable form in paints and adhesives. It is not expected that arsenic concentrations in air will exceed the maximum allowable TWAEV for a worker to arsenic (0.01 mg/m<sup>3</sup>). To minimize potential arsenic exposure, apply paints and adhesives in well-ventilated areas.

## **5.11 Mould**

### **5.11.1 Survey Findings**

At the time of the site inspection, evidence of mould was found to be present in three locations in building M-23A. Mould was observed in the following locations:

- Suspect was observed on the ceiling tile in three locations on the second floor (FS# 2001).



### **5.11.2 Survey Recommendations**

Continued diligence is recommended to avoid scenarios, which can support fungi growth specifically: water in the presence of cellulose-based surfaces. There must be moisture (such as leaking pipes, cracked window seals, etc.) as well as an indoor substrate (such as the paper layer of drywall, wood, potted plants, etc.) to support fungal growth. Simply replacing the substrate is not a solution to the problem. The root cause is required to be identified.





## **6.0 CLOSURE**

This report has been prepared for the sole benefit of the National Research Council of Canada.

The conclusions presented represent the best judgement of the assessor based on current environmental standards and on the site conditions observed from October 5<sup>th</sup> to October 13<sup>th</sup>, 2011. Due to the nature of the investigation and the limitations of the available data, the assessor cannot warrant against undiscovered environmental liabilities. It is possible that additional, concealed designated substances may become evident during demolition activities.

Should additional information become available, Oakhill requests that this information be brought to our attention so that we may re-assess the conclusions presented herein.

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

**Oakhill Environmental Inc.**

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Fil Barillaro, M.A.S.c., P.Eng.  
Project Manager

**APPENDIX A**

**DESIGNATED SUBSTANCES BACKGROUND INFORMATION**

## Acrylonitrile

Acrylonitrile is regulated in Ontario under Regulation 490/09 of the Occupational Health and Safety Act. Acrylonitrile is a clear liquid that may be colourless or yellow and that readily reacts with other chemicals to produce long, chain-like molecules (polymers). Acrylonitrile-based polymers are used to produce nitrile rubbers, plastics, acrylic fibres, coatings and adhesives. Workers are typically exposed to acrylonitrile at manufacturing facilities that produce the aforementioned products through inhaling its vapour, direct skin contact, or through ingestion. Although acrylonitrile may be present in some of the building materials, including adhesives and coatings, the chemical will likely be bonded in the polymer form. Therefore, it is not expected that an adverse exposure to acrylonitrile will occur unless the building materials are heated to extreme temperatures. Acrylonitrile vapours may become released from the acrylonitrile-based polymers during a process where high temperatures are applied. Acrylonitrile is classified as *possibly carcinogenic to humans (Group 2b)* as evidence from long-term epidemiological studies since 1980 is conflicting. It is not expected that acrylonitrile concentrations in the air will exceed the maximum allowable time weighted average exposure value (TWAEV) for a worker to acrylonitrile (2 ppm).

## Arsenic

Arsenic is regulated in Ontario under Regulation 490/09 of the Occupational Health and Safety Act. The presence of arsenic in the paint coating on interior and exterior finishes is possible. There are no regulated procedures for the removal of paint containing arsenic. If the paint does not contain lead, but does contain arsenic, the comments concerning lead paint, discussed in below, are expected to address the potential arsenic emissions. As the painted surfaces will be handled as per the proposed lead regulation, it is not expected that arsenic concentrations in the air will exceed the maximum allowable TWAEV for a worker to arsenic (0.01 mg/m<sup>3</sup>). Human health studies from Argentina and Chile have concluded that arsenic ingestion can result in increased risk of bladder and lung cancer. Non-cancer effects include skin lesions and chronic respiratory disease.

## Asbestos

The term "asbestos" describes six naturally occurring fibrous minerals, namely chrysotile, amosite, crocidolite, tremolite, anthophyllite and actinolite. Of the six forms of asbestos, chrysotile (white asbestos), amosite (brown asbestos) and crocidolite (blue asbestos) are the most commonly used. Asbestos has been known to man for centuries and has been used in literally hundreds of products. Asbestos was used because it is strong, insulates well, and resists fire and corrosion.

The Regulation for Asbestos, Ontario Regulation 278/05, made under the Occupational Health and Safety Act defines asbestos as any of the following fibrous silicates:

- Actinolite, Amosite, Anthophyllite, Chrysotile, Crocidolite and Tremolite.

It is important to note that asbestos is defined further as either "friable" or "non-friable". O. Reg. 278/05 defines friable as:

*"friable material" means material that,*

- *when dry, can be crumbled, pulverized or powdered by hand pressure, or*
- *is crumbled, pulverized or powdered;*

Non-friable is any material that doesn't fit the criteria for friable. Essentially, any material that cannot be *crumbled, pulverized or powdered by hand pressure or is not crumbled, pulverized or powdered.*

The distinction between whether an asbestos-containing material (ACM) is friable or non-friable is a notable characteristic as the *'friability'* of the ACM translates the **potential** risk of producing an airborne fibre release.

Non-friable ACM's offer far less potential risk of producing an airborne fibre release. These materials should not be cut or shaped using power tools, because this procedure allows for the release of asbestos fibres.

Materials that contain asbestos are commonly referred to as ACM's. O. Reg. 278/05, defines an ACM as:

- *material that contains 0.5 per cent or more asbestos by dry weight;*

The Revised Regulations of Ontario (1990), Regulation 347 (The General Waste Regulation) requires the disposal of asbestos waste in a double sealed container, properly labelled and free of cuts, tears or punctures. The waste must be disposed of in a licensed waste facility, which has been properly notified of the presence of asbestos waste. The federal "Transportation of Dangerous Goods Act" covers the transport of asbestos waste to the disposal site. Asbestos waste is to be handled by a licensed waste hauler.

Asbestos is typically found in plaster, mechanical insulation, gaskets, thermal insulation on pipes, refractory material, roofing felts, floor tiles, ceiling tiles and parging, heat resistant panels, incandescent light fixture reflector plates, and any other material requiring a high degree of durability or thermal resistance. The common use of potential friable (breakable by hand) ACM's in construction ceased voluntarily in the mid 1970s; however, the spray application of asbestos-containing fireproofing was not prohibited until 1986. The airborne maximum allowable TWAEV for a worker is 0.1 fibres/cm<sup>3</sup>. Asbestos fibres cumulate in the lungs. Human health effects are proportional to exposure. Studies show long term or high dose exposure can result in scarring of the lung and restricted breathing. Mesothelioma (cancer of the pleural lining) and other lung cancers are also related to asbestos exposure.

## **Benzene**

Benzene is regulated in Ontario under Regulation 490/09 of the Occupational Health and Safety Act Historically; benzene has been produced as a by-product of coal gasification and metallurgical coke production in steel making. The light oil product from such processes contains benzene, toluene, ethyl benzene and xylene, and these components are separated by distillation. Today, most benzene is produced from the refining of petroleum.

Benzene has applications as a solvent in synthetic rubber manufacturing and processing, and in paints, varnishes, stains, adhesives, roofing materials and sealants. The use of benzene in tire and other rubber goods manufacturing and as a solvent and component of paints and adhesives has declined considerably as a result of concerns about workplace exposure. Nevertheless, it is often present in trace quantities in petroleum and aromatic solvents, some of which have replaced benzene in many uses. Benzene is also a minor component of gasoline sold in Canada.

The maximum allowable TWAEV for a worker to benzene is 0.5 ppm. Based on the age of the facility, it is possible that benzene was present in the paints, adhesives and roofing materials used during the original construction of the facilities. However, over time, the benzene component typically volatilizes out of the paints, solvents and roofing bitumens and is released into the ambient air. Therefore, it is likely that only trace levels of benzene presently exist in these building materials. It is not expected that benzene emissions from any existing building materials on site will exceed the allowable TWAEV.

Exposure to benzene can range in severity from nausea to suppression of the immune system and death. Long-term exposure to benzene can potentially result in Acute Myeloid Leukemia, Secondary Aplastic Leukemia and damage to the reproductive system.

## **Ethylene Oxides**

Ethylene Oxides are regulated in Ontario under Regulation 490/09 of the Occupational Health and Safety Act. Ethylene oxide is a common by-product of fumigation or sterilization procedures. The airborne maximum allowable TWAEV for a worker to Ethylene Oxides is 1.8 mg/m<sup>3</sup>. Acute exposure may result in vomiting,

shortness of breath and dizziness. Chronic exposure has been associated with the occurrence of cancer, reproductive effects, mutagenic changes and neurotoxicity.

## **Isocyanates**

Isocyanates is regulated in Ontario under Regulation 490/09 of the Occupational Health and Safety Act. Isocyanates are a class of chemicals used in the manufacture of certain types of plastics, foams and roof insulation. The Isocyanate (-CNO) group reacts very readily with certain other types of molecules, a property responsible for the usefulness of Isocyanates in industry. Due to the high reactivity of the Isocyanate group, exposure to Isocyanates can result in primary irritation, sensitization and hypersensitivity reactions. The respiratory system, the eyes and the skin are the main areas affected by exposure. Isocyanates in their initial form are found as a vapour, a mist, or a dust which become airborne and then taken into the body. Once the Isocyanates are chemically bonded to other chemicals during manufacturing processes, the Isocyanates are not readily available to become airborne unless heated. Therefore, Isocyanate exposure is not expected to be a concern as long as the burning of plastics, foams, and insulation is not carried out. The airborne maximum allowable TWAEV for a worker to Isocyanates is 0.005 ppm.

## **Lead**

Lead is regulated in Ontario under Regulation 490/09 of the Occupational Health and Safety Act. The Ontario Ministry of Labour (MOL) draft Proposed Lead Regulation on Construction Projects, made under the Occupational Health and Safety Act, May 5, 1995, states that the removal of lead paint is not required unless work on these materials are likely to produce airborne lead dust or fumes, for example during welding, torch cutting, sanding and sand blasting. If these operations are likely to occur during building renovations or demolition, it is recommended that the removal of lead paint be carried out in accordance with procedures outlined in the proposed regulation.

Based on conversations with the MOL, it is recommended that the United States Department of Housing and Urban Development Guideline, of 0.5 % lead (by weight) or 5,000 parts per million (ppm) lead be used as a guideline for determining whether the use of precautions as outlined in the proposed regulation would be required during the above noted operations. Airborne lead dust or fumes should not exceed the MOL TWAEV of 0.05 milligram per cubic metre ( $\text{mg}/\text{m}^3$ ) during the removal of lead based paints and products.

Lead may be used in its pure metallic form or combined chemically with other elements to form lead compounds. Metallic lead is used to make products such as electric storage batteries, ammunition, lead solder, radiation shields, pipes, and sheaths for electric cables. Metallic lead is sometimes combined with other metals such as copper, tin and antimony as lead alloys for use in the manufacture of a variety of metal products.

Organic lead compounds contain a lead atom covalently bonded to carbon. Common examples of organic lead compounds include lead "soaps" such as lead oleates, high-pressure lubricants, and anti-knock agents in gasoline.

Inorganic lead compounds (or lead salts) result when lead is combined with an element other than carbon. Examples are lead oxide, lead chromate, lead carbonate and lead nitrate. Inorganic lead compounds may occur as solids or in solutions, and are used in insecticides, pigments, paints, frits, glasses, plastics, and rubber compounds.

Lead may affect the health of workers if it is in a form that may be inhaled, ingested or absorbed through the skin. Lead dust consists of small, solid particles of metallic lead or lead compounds that are generated by sanding, grinding, polishing, and sawing operations. Lead fume is produced in significant amounts when solid lead or materials containing lead are heated to temperatures above  $500^{\circ}\text{C}$ , as in welding and flame cutting or burning.

## **Mercury**

Mercury is regulated in Ontario under Regulation 490/09 of the Occupational Health and Safety Act. Mercury is commonly found in buildings as mercury vapour lighting, in thermometers, thermostats and some electrical switches. Mercury can also be found in minor amounts in fluorescent lamp tubes and in paints and adhesives.

Mercury, or mercury vapour within light fixtures, thermometers, thermostats and electrical switches poses no risk to workers or occupants provided the mercury containers remain intact and undisturbed. Prior to demolition, remove mercury containers and store in a safe location. The airborne maximum allowable TWAEV for a worker to mercury is 0.025 mg/m<sup>3</sup>.

Short-term exposure to mercury is a rare occurrence due to the more stringent controls. Historically, short-term exposure to high concentrations of mercury vapour included: harmful effects of the nervous, respiratory and digestive systems and the kidneys.

## **Silica**

Silica is regulated in Ontario under Regulation 490/09 of the Occupational Health and Safety Act. Silica, also referred to as free crystalline silica, is found in concrete, cement, mortar, ceramic wall and floor tiles, stucco finishes and acoustic ceiling tiles. Prolonged exposure to, and inhalation of free crystalline silica, may result in respiratory disease known as silicosis, which is characterised by progressive fibrosis of the inner lung tissue and marked shortness of breath or impaired lung function. The maximum TWAEV for airborne Silica dust is 0.10 mg/m<sup>3</sup>.

Precautions should be taken during work on concrete (coring etc.) and ceiling tiles to minimize exposure to free crystalline silica dust. Silica exposure should not exceed the MOL TWAEV of 0.10 milligrams per cubic metre (mg/m<sup>3</sup>) during demolition activities. This can be achieved by:

- . providing workers with respiratory protection;
- . wetting the surface of the materials to prevent dust emissions;
- . provide workers with facilities to properly wash prior to exiting the work area.

## **Vinyl Chloride**

Vinyl Chloride is regulated in Ontario under Regulation 490/09 of the Occupational Health and Safety Act. Vinyl chloride is found in many applications in buildings such as plumbing pipes, protective coatings on insulated pipes and interior finishes (i.e., vinyl baseboard trim). Vinyl chlorides in the above materials are bound in a solid matrix and are unlikely to become airborne such that it would exceed the maximum allowable TWAEV of 1ppm.

Human health effects from long-term exposure include: cancer of the liver, damage to the immune and reproductive systems.

## **Fungi**

There is essentially no fungus-free environment in our daily lives. Fungal spores are abundant in outdoor air and exposure to fungi occurs commonly in indoor environments.

Continued cleaning diligence is recommended to avoid scenarios which can support fungi growth such as water in the presence of cellulose-based surfaces. There must be a moisture or water problem to support fungal growth.

**APPENDIX B**

**ANALYTICAL RESULTS – ASBESTOS**

CLIENT NAME: OAKHILL ENVIRONMENTAL  
530A EASTCHESTER AVENUE  
ST. CATHERINES, ON L2M7P3

ATTENTION TO: Fil Barillaro

PROJECT NO: PR-08-043

AGAT WORK ORDER: 11T542376

OCCUPATIONAL HYGIENE REVIEWED BY: Ian Seddon, Analyst

DATE REPORTED: Oct 31, 2011

PAGES (INCLUDING COVER): 5

VERSION\*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

\*NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.





## Certificate of Analysis

AGAT WORK ORDER: 11T542376

PROJECT NO: PR-08-043

5835 COOPERS AVENUE  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1Y2  
TEL (905)712-5100  
FAX (905)712-5122  
<http://www.agatlabs.com>

CLIENT NAME: OAKHILL ENVIRONMENTAL

ATTENTION TO: Fil Barillaro

### Asbestos (Bulk)

DATE SAMPLED: Oct 05, 2011

DATE RECEIVED: Oct 25, 2011

DATE REPORTED: Oct 31, 2011

SAMPLE TYPE: Other

| Parameter       | Unit | G / S | RDL | M23A-01A<br>2839209 | M23A-01B<br>2839220 | M23A-01C<br>2839221 | M23A-01D<br>2839222 | M23A-01E<br>2839223 | M23A-01F<br>2839224 | M23A-01G<br>2839225 | M23A-02A<br>2839226 |
|-----------------|------|-------|-----|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Asbestos (Bulk) | %    | 0.5   | 0.5 | ND                  | ND                  | ND                  | ND                  | ND                  | ND                  | ND                  | 50-75               |
| Parameter       | Unit | G / S | RDL | M23A-03A<br>2839228 | M23A-04A<br>2839229 | M23A-04B<br>2839230 | M23A-04C<br>2839232 | M23A-04D<br>2839234 | M23A-04E<br>2839235 | M23A-04F<br>2839236 | M23A-04G<br>2839237 |
| Asbestos (Bulk) | %    | 0.5   | 0.5 | 50-75               | ND                  | 0.5-5               | SP                  | SP                  | SP                  | SP                  | SP                  |
| Parameter       | Unit | G / S | RDL | M23A-05A<br>2839240 | M23A-05B<br>2839241 | M23A-05C<br>2839242 | M23A-06A<br>2839243 | M23A-08A<br>2839248 | M23A-09A<br>2839249 | M23A-09B<br>2839250 | M23A-09C<br>2839251 |
| Asbestos (Bulk) | %    | 0.5   | 0.5 | ND                  | ND                  | ND                  | >75                 | >75                 | ND                  | ND                  | ND                  |
| Parameter       | Unit | G / S | RDL | M23A-11A<br>2839255 | M23A-12A<br>2839256 | M23A-13A<br>2839258 | M23A-13B<br>2839260 | M23A-13C<br>2839263 | M23A-14A<br>2839266 | M23A-16A<br>2839271 | M23A-17A<br>2839272 |
| Asbestos (Bulk) | %    | 0.5   | 0.5 | >75                 | 15-30               | ND                  | ND                  | ND                  | ND                  | ND                  | ND                  |
| Parameter       | Unit | G / S | RDL | M23A-17B<br>2839273 | M23A-17C<br>2839274 | M23A-17D<br>2839275 | M23A-17E<br>2839276 | M23A-17F<br>2839277 | M23A-17G<br>2839278 |                     |                     |
| Asbestos (Bulk) | %    | 0.5   | 0.5 | ND                  | ND                  | ND                  | ND                  | ND                  | ND                  |                     |                     |

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 11T542376

PROJECT NO: PR-08-043

5835 COOPERS AVENUE  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1Y2  
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<http://www.agatlabs.com>

CLIENT NAME: OAKHILL ENVIRONMENTAL

ATTENTION TO: Fil Barillaro

### Asbestos (Bulk)

DATE SAMPLED: Oct 05, 2011

DATE RECEIVED: Oct 25, 2011

DATE REPORTED: Oct 31, 2011

SAMPLE TYPE: Other

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to OHSA - Reg. 278

2839209-2839225 Condition of sample was satisfactory at time of arrival in laboratory.  
"ND" - Not Detected

2839226-2839228 Condition of sample was satisfactory at time of arrival in laboratory.  
Asbestos present - Chrysotile

2839229 Condition of sample was satisfactory at time of arrival in laboratory.  
"ND" - Not Detected

2839230 Condition of sample was satisfactory at time of arrival in laboratory.  
Asbestos present - Tremolite

2839232-2839237 Condition of sample was satisfactory at time of arrival in laboratory.  
"SP" - Stop Positive

2839240-2839242 Condition of sample was satisfactory at time of arrival in laboratory.  
"ND" - Not Detected

2839243-2839248 Condition of sample was satisfactory at time of arrival in laboratory.  
Asbestos present - Chrysotile

2839249-2839251 Condition of sample was satisfactory at time of arrival in laboratory.  
"ND" - Not Detected

2839255 Condition of sample was satisfactory at time of arrival in laboratory.  
Asbestos present - Chrysotile

2839256 Condition of sample was satisfactory at time of arrival in laboratory.  
Asbestos present - Chrysotile 5-15 Amosite 15-30

2839258-2839278 Condition of sample was satisfactory at time of arrival in laboratory.  
"ND" - Not Detected

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## Certificate of Analysis

AGAT WORK ORDER: 11T542376

PROJECT NO: PR-08-043

5835 COOPERS AVENUE  
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<http://www.agatlabs.com>

CLIENT NAME: OAKHILL ENVIRONMENTAL

ATTENTION TO: Fil Barillaro

### Asbestos (Bulk)

DATE SAMPLED: Oct 05, 2011      DATE RECEIVED: Oct 25, 2011      DATE REPORTED: Oct 31, 2011      SAMPLE TYPE: Other

| Parameter               | Unit | G / S | RDL | M23A-07A | M23A-10A | M23A-10B | M23A-10C | M23A-15A | M23A-15B | M23A-15C |
|-------------------------|------|-------|-----|----------|----------|----------|----------|----------|----------|----------|
|                         |      |       |     | 2839247  | 2839252  | 2839253  | 2839254  | 2839267  | 2839268  | 2839269  |
| Asbestos (Bulk) Phase 1 | %    | 0.5   | 0.5 | 50-75    | 50-75    | SP       | SP       | ND       | ND       | ND       |
| Asbestos (Bulk) Phase 2 | %    | 0.5   | 0.5 | ND       | ND       | ND       | ND       | ND       | ND       | ND       |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to OHSA - Reg. 278

- 2839247 Condition of sample was satisfactory at time of arrival in laboratory.  
 Asbestos present - Chrysotile  
 "ND" - Not Detected  
 Phase 1 - White paper Phase 2 - Tar paper
- 2839252 Condition of sample was satisfactory at time of arrival in laboratory.  
 Asbestos present - Chrysotile  
 "ND" - Not Detected  
 Phase 1 - White Phase 2 - Beige
- 2839253-2839254 Condition of sample was satisfactory at time of arrival in laboratory.  
 "SP" - Stop Positive  
 "ND" - Not Detected  
 Phase 1 - White Phase 2 - Beige
- 2839267-2839269 Condition of sample was satisfactory at time of arrival in laboratory.  
 "ND" - Not Detected  
 Phase 1 - VFT Phase 2 - Mastic

Certified By:

## Method Summary

CLIENT NAME: OAKHILL ENVIRONMENTAL

AGAT WORK ORDER: 11T542376

PROJECT NO: PR-08-043

ATTENTION TO: Fil Barillaro

| PARAMETER                     | AGAT S.O.P    | LITERATURE REFERENCE          | ANALYTICAL TECHNIQUE |
|-------------------------------|---------------|-------------------------------|----------------------|
| Occupational Hygiene Analysis |               |                               |                      |
| Asbestos (Bulk)               | INORG 93-6010 | EPA 600/R-93/116 & NIOSH 9002 | PLM                  |
| Asbestos (Bulk) Phase 1       | INORG 93-6010 | EPA 600/R-93/116 & NIOSH 9002 | PLM                  |
| Asbestos (Bulk) Phase 2       | INORG 93-6010 | EPA 600/R-93/116 & NIOSH 9002 | PLM                  |



CLIENT NAME: OAKHILL ENVIRONMENTAL  
530A EASTCHESTER AVENUE  
ST. CATHERINES, ON L2M7P3

ATTENTION TO: Fil Barillaro

PROJECT NO: PR-08-043

AGAT WORK ORDER: 11T547701

OCCUPATIONAL HYGIENE REVIEWED BY: Ian Seddon, Analyst

DATE REPORTED: Nov 15, 2011

PAGES (INCLUDING COVER): 3

VERSION\*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

\*NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 11T547701

PROJECT NO: PR-08-043

5835 COOPERS AVENUE  
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<http://www.agatlabs.com>

CLIENT NAME: OAKHILL ENVIRONMENTAL

ATTENTION TO: Fil Barillaro

### Asbestos (Bulk)

DATE SAMPLED: Nov 07, 2011

DATE RECEIVED: Nov 08, 2011

DATE REPORTED: Nov 15, 2011

SAMPLE TYPE: Other

| Parameter       | Unit | G / S | RDL | M23A-18A<br>2893087 | M23A-18B<br>2893088 | M23A-18C<br>2893089 | M23A-18D<br>2893090 | M23A-18E<br>2893091 | M23A-18F<br>2893092 | M23A-18G<br>2893093 |
|-----------------|------|-------|-----|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Asbestos (Bulk) | %    | 0.5   | 0.5 | ND                  | ND                  | ND                  | 0.5-5               | ND                  | ND                  | ND                  |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to OHSA - Reg. 278

2893087-2893089 Condition of sample was satisfactory at time of arrival in laboratory.  
 "ND" - Not Detected

2893090 Condition of sample was satisfactory at time of arrival in laboratory.  
 Asbestos present - Chrysotile

2893091-2893093 Condition of sample was satisfactory at time of arrival in laboratory.  
 "ND" - Not Detected

Certified By:

## Method Summary

CLIENT NAME: OAKHILL ENVIRONMENTAL

AGAT WORK ORDER: 11T547701

PROJECT NO: PR-08-043

ATTENTION TO: Fil Barillaro

| PARAMETER  | AGAT S.O.P    | LITERATURE REFERENCE          | ANALYTICAL TECHNIQUE |
|--|---------------|-------------------------------|----------------------|
| Occupational Hygiene Analysis<br>Asbestos (Bulk) | INORG 93-6010 | EPA 600/R-93/116 & NIOSH 9002 | PLM                  |

**APPENDIX C**

**ANALYTICAL RESULTS – LEAD**



CLIENT NAME: OAKHILL ENVIRONMENTAL  
530A EASTCHESTER AVENUE  
ST. CATHERINES, ON L2M7P3

ATTENTION TO: Fil Barillaro

PROJECT NO: PR-08-043

AGAT WORK ORDER: 11T542422

OCCUPATIONAL HYGIENE REVIEWED BY: Anthony Dapaah, PhD (Chem), Inorganic Lab Manager

DATE REPORTED: Oct 31, 2011

PAGES (INCLUDING COVER): 4

VERSION\*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

\*NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 11T542422

PROJECT NO: PR-08-043

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FAX (905)712-5122  
<http://www.agatlabs.com>

CLIENT NAME: OAKHILL ENVIRONMENTAL

ATTENTION TO: Fil Barillaro

### Lead in Paint

DATE SAMPLED: Oct 13, 2011

DATE RECEIVED: Oct 25, 2011

DATE REPORTED: Oct 31, 2011

SAMPLE TYPE: Other

| Parameter | Unit | G / S | RDL | M23A-LO1<br>2839279 |
|-----------|------|-------|-----|---------------------|
| Lead      | ug/g |       | 10  | 8400                |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

Certified By:

## Quality Assurance


 CLIENT NAME: OAKHILL ENVIRONMENTAL  
 PROJECT NO: PR-08-043

 AGAT WORK ORDER: 11T542422  
 ATTENTION TO: Fil Barillaro

### Occupational Hygiene Analysis

| RPT Date: Oct 31, 2011 |       |              | DUPLICATE |        |       | Method<br>Blank | REFERENCE MATERIAL |                      |       | METHOD BLANK SPIKE |                      |       | MATRIX SPIKE |                      |       |
|------------------------|-------|--------------|-----------|--------|-------|-----------------|--------------------|----------------------|-------|--------------------|----------------------|-------|--------------|----------------------|-------|
| PARAMETER              | Batch | Sample<br>Id | Dup #1    | Dup #2 | RPD   |                 | Measured<br>Value  | Acceptable<br>Limits |       | Recovery           | Acceptable<br>Limits |       | Recovery     | Acceptable<br>Limits |       |
|                        |       |              |           |        |       |                 |                    | Lower                | Upper |                    | Lower                | Upper |              | Lower                | Upper |
| Lead in Paint          |       |              |           |        |       |                 |                    |                      |       |                    |                      |       |              |                      |       |
| Lead                   | 1     |              | 385       | 570    | 38.7% | < 10            | 91%                | 80%                  | 120%  | 104%               | 80%                  | 120%  | 114%         | 70%                  | 130%  |

Certified By:



## Method Summary

CLIENT NAME: OAKHILL ENVIRONMENTAL

AGAT WORK ORDER: 11T542422






PROJECT NO: PR-08-043






ATTENTION TO: Fil Barillaro





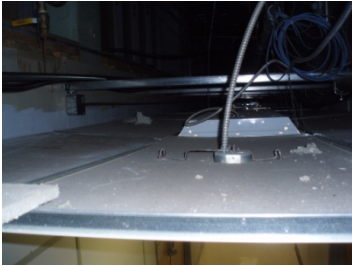
| PARAMETER                     | AGAT S.O.P | LITERATURE REFERENCE     | ANALYTICAL TECHNIQUE |
|-------------------------------|------------|--------------------------|----------------------|
| Occupational Hygiene Analysis |            |                          |                      |
| Lead                          | MET 1006   | EPA SW 846 3050B & 6010C | ICP/OES              |

**APPENDIX D**  
**PHOTOGRAPH LOGS**






**M-23A ASBESTOS PHOTOGRAPH LOG**






| <b>Photo #</b> | <b>Functional Space #</b> | <b>Location</b>       | <b>Comments</b>   | <b>Photograph</b>   |
|----------------|---------------------------|-----------------------|---|---|
| A01            | B009                      | 59 - Office           | HWH: 1 damaged section of Aircell pipe insulation requires 1 removal (0.1LM)                      |    |
| A02            | B010                      | 54/56/58 - Mechanical | ACM debris on top of HVAC unit (with caution tape and sign) requires 1 removal (1m <sup>2</sup> ) |   |
| A03            | B010                      | 54/56/58 - Mechanical | Damaged FG with mud on the HVAC unit requires 1 encapsulation (0.5m <sup>2</sup> )                |  |
| A04            | B014                      | 44 - Storage          | Steam: 1 severely damaged section of Aircell pipe insulation requires 1 removal (0.5LM)           |  |
| A05            | B014                      | 44 - Storage          | Steam: 1 damaged section of Aircell pipe insulation requires 1 removal (0.5LM)                    |  |






|     |      |               |   |   |
|-----|------|---------------|---|---|
| A06 | B014 | 44 - Storage  | <p>Steam: residual MJC fitting insulation requires 1 removal (1 unit)</p> <p>DHW: 1 badly damaged section of Aircell pipe insulation requires 1 removal (0.5LM)</p> <p>ACM debris sitting on pipes requires 1 removal</p> |    |
| A07 | B014 | 44 - Storage  | <p>DHW: 2 damaged sections of Aircell pipe insulation require 2 encapsulations (0.5LM)</p> <p>DCW: 1 damaged section of Sweatwrap pipe insulation requires 1 encapsulation (0.3LM)</p>                                    |    |
| A08 | B014 | 44 - Storage  | <p>DHW: 1 damaged section of Aircell pipe insulation requires 1 removal (0.5LM)</p>   |   |
| A09 | B017 | 48 - Corridor | <p>ACM debris on top of duct above ceiling requires 1 removal (1m<sup>2</sup>)</p>  |  |
| A10 | B017 | 48 - Corridor | <p>ACM debris on top of ceiling tiles requires 1 removal (1m<sup>2</sup>)</p>   |  |






|     |      |               |  |   |
|-----|------|---------------|--|---|
| A11 | B017 | 48 - Corridor | Photo showing ceiling tiles marked with pink X's indicating location of debris in photo A10        |    |
| A12 | B017 | 48 - Corridor | ACM debris on top of ceiling tiles requires 1 removal (3m <sup>2</sup> )                           |    |
| A14 | B017 | 48 - Corridor | Photo showing ceiling tiles marked with pink X's indicating location of debris in photos A12 & A13 |   |
| A16 | B017 | 48 - Corridor | DHW: 1 badly damaged section of Aircell pipe insulation requires 1 removal (3LM)                   |  |
| A17 | B017 | 48 - Corridor | ACM debris on top of ceiling tiles requires 1 removal (1m <sup>2</sup> )                           |  |









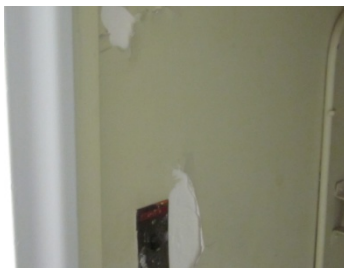

|     |      |                        |  |   |
|-----|------|------------------------|--|---|
| A18 | B017 | 48 - Corridor          | ACM debris on top of ceiling tiles requires 1 removal (1m <sup>2</sup> )                           |    |
| A19 | B017 | 48 - Corridor          | Photo showing ceiling tiles marked with pink X's indicating location of debris in photos A17 & A18 |    |
| A20 | B026 | 31 - Storage           | Chiller: 1 damaged mud joint compound fitting requires 1 encapsulation (1 unit)                    |   |
| A21 | B027 | 10/27/27A - Crawlspace | Steam: 1 damaged section of MagBlock pipe insulation requires 1 encapsulation (0.5LM)              |  |
| A22 | B027 | 10/27/27A - Crawlspace | ACM debris on floor requires 1 removal (5m <sup>2</sup> )  |  |

|     |      |                        |   |   |
|-----|------|------------------------|---|---|
| A23 | B027 | 10/27/27A - Crawlspace | ACM debris on floor requires 1 removal (5m <sup>2</sup> )   |    |
| A24 | B027 | 10/27/27A - Crawlspace | <p>Steam: 1 damaged mud joint compound fitting requires 1 encapsulation (1 unit)</p> <p>Hot water tank: 1 damaged section of grey tank insulation requires 1 encapsulation (0.3m<sup>2</sup>)</p> |    |
| A25 | B027 | 10/27/27A - Crawlspace | DCW: 1 damaged section of Sweatwrap pipe insulation requires 1 encapsulation (0.5LM)  |   |
| A26 | B027 | 10/27/27A - Crawlspace | DCW: 1 damaged mud joint compound fitting requires 1 removal (1 unit)   |  |
| A27 | B027 | 10/27/27A - Crawlspace | Steam (disconnected): 1 damaged mud joint compound fitting requires 1 removal (1 unit)  |  |


|     |      |                        |  |   |
|-----|------|------------------------|--|---|
| A28 | B027 | 10/27/27A - Crawlspace | Steam: 1 damaged mud joint compound fitting requires 1 encapsulation (1 unit)  |    |
| A29 | B027 | 10/27/27A - Crawlspace | Steam: 1 damaged mud joint compound fitting requires 1 removal (1 unit)  |    |
| A30 | B027 | 10/27/27A - Crawlspace | ACM debris on floor requires 1 removal (5m <sup>2</sup> )<br>Condensate: 2 residual mud joint compound fittings require 2 removals (2 units) |   |
| A31 | B027 | 10/27/27A - Crawlspace | Steam: 1 damaged mud joint compound fitting requires 1 removal (1 unit)  |  |
| A32 | B027 | 10/27/27A - Crawlspace | Steam: 1 damaged section of Aircell pipe insulation requires 1 removal (0.5LM)   |  |

|     |      |                        |   |   |
|-----|------|------------------------|---|---|
| A33 | B027 | 10/27/27A - Crawlspace | Condensate: residual mud joint compound fitting requires 1 removal (1 unit)   |    |
| A34 | 1003 | 121 - Storage          | HVAC: 1 badly damaged section of FG w/mud HVAC insulation requires 1 removal (1m <sup>2</sup> )<br>ACM debris on ceiling tile requires 1 removal (1m <sup>2</sup> ) |    |
| A35 | 1003 | 121 - Storage          | Photo showing ceiling tile marked with pink X indicating location of debris in photo A34  |   |
| A36 | B002 | 61/63/65/69 - Lab      | HWH: 1 damaged section of Aircell pipe insulation requires 1 removal (0.2LM)  |  |
| A37 | B002 | 61/63/65/69 - Lab      | HWH: 1 damaged section of Aircell pipe insulation requires 1 removal (0.2LM)  |  |




|     |      |                    |   |   |
|-----|------|--------------------|---|---|
| A38 | B002 | 61/63/65/69 - Lab  | HWH: 1 damaged section of Aircell pipe insulation requires 1 removal (0.2LM)                |    |
| A39 | B002 | 61/63/65/69 - Lab  | HWH: 1 damaged section of Aircell pipe insulation requires 1 removal (0.2LM)                |    |
| A40 | B002 | 61/63/65/69 - Lab  | HWH: 1 damaged section of Aircell pipe insulation requires 1 removal (0.2LM)                |   |
| A41 | B002 | 61/63/65/69 - Lab  | HWH: 1 damaged section of Aircell pipe insulation requires 1 removal (0.2LM)                |  |
| A42 | 1044 | 1st floor corridor | Duct: 1 damaged section of FG w/mud duct insulation requires 1 removal (0.5m <sup>2</sup> ) |  |

|     |      |         |  |  |
|-----|------|---------|--|--|
| A43 | B018 | 041B    | ACM plaster:1 damaged section of wall plaster requires 1 encapsulation (1m2) |   |
| A44 | B018 | 041B    | ACM plaster:1 damaged section of wall plaster requires 1 encapsulation (1m2) |   |
| A45 | B025 | Hallway | ACM plaster:1 damaged section of wall plaster requires 1 encapsulation (1m2) |  |

**M-23A LEAD PHOTOGRAPH LOG**

| <b>Photo #</b> | <b>Functional Space #</b> | <b>Location</b> | <b>Comments</b>   | <b>Photograph</b>   |
|----------------|---------------------------|-----------------|-------------------|---|
| L01            | EL01                      | Cargo elevator  | Green lead paint. |  A photograph showing a close-up of a green-painted wall. The wall has several signs and notices. A prominent sign reads "FREIGHT ELEVATOR" with an arrow pointing to the right. Above it, there is a smaller sign that says "This elevator cannot be used for passenger transport". Below the "FREIGHT ELEVATOR" sign, there is another sign that reads "ONLY BE OPERATED AND MAINTAINED BY QUALIFIED PERSONNEL AND TRAINED TO USE THE LOAD CAPACITY". To the left of the signs, there is a white notice or document pinned to the wall. The wall shows some signs of wear and discoloration. |

**M-23A MOULD PHOTOGRAPH LOG**

| <b>Photo #</b> | <b>Functional Space #</b> | <b>Location</b> | <b>Comments</b>               | <b>Photograph</b>   |
|----------------|---------------------------|-----------------|-------------------------------|---|
| M01            | 2001                      | 2nd floor       | Suspect mould on ceiling tile |    |
| M02            | 2001                      | 2nd floor       | Suspect mould on ceiling tile |   |
| M03            | 2001                      | 2nd floor       | Suspect mould on ceiling tile |  |



**APPENDIX E**  
**FLOOR PLANS**



**LEGEND**

- 1001 FUNCTIONAL SPACE #
- 1001 AREA NOT INSPECTED (INACCESSIBLE)
- 1001 AREA NOT INSPECTED (ABOVE CEILING)
- ACM FITTING INSULATION: HW HEATING
- ACM FITTING INSULATION: DOMESTIC CW
- ACM FITTING INSULATION: DOMESTIC HW
- ACM FITTING INSULATION: DRAIN
- ACM FITTING INSULATION: CHILLER
- ACM FITTING INSULATION: CONDENSATE
- ACM FITTING INSULATION: FIRE WATER
- ACM FITTING INSULATION: STEAM
- ACM PIPE INSULATION: CW
- ACM PIPE INSULATION: DHW
- ACM PIPE INSULATION: CONDENSATE
- ACM PIPE INSULATION: HW/H
- ACM PIPE INSULATION: HW/H
- ACM PIPE INSULATION: STEAM
- ACM PIPE INSULATION: DUCT
- ACM 8" X8" FLOOR TILE
- ACM HVAC INSULATION

**NOTE:**  
 ACM fitting insulation locations are shown only on systems where they are known to exist. ONLY ACMELEADERS are shown. These systems may also have ACM on: 's, valves, ends, hangers, etc.

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 1200 MONTREAL RD.  
 OTTAWA, ON K1A 0R6

**PROJECT**

DESIGNATED  
 SUBSTANCE SURVEY  
 BUILDING M-23A

**PROJECT NO.**

PR-08-043

**DATE**

OCTOBER 2011

**SCALE**

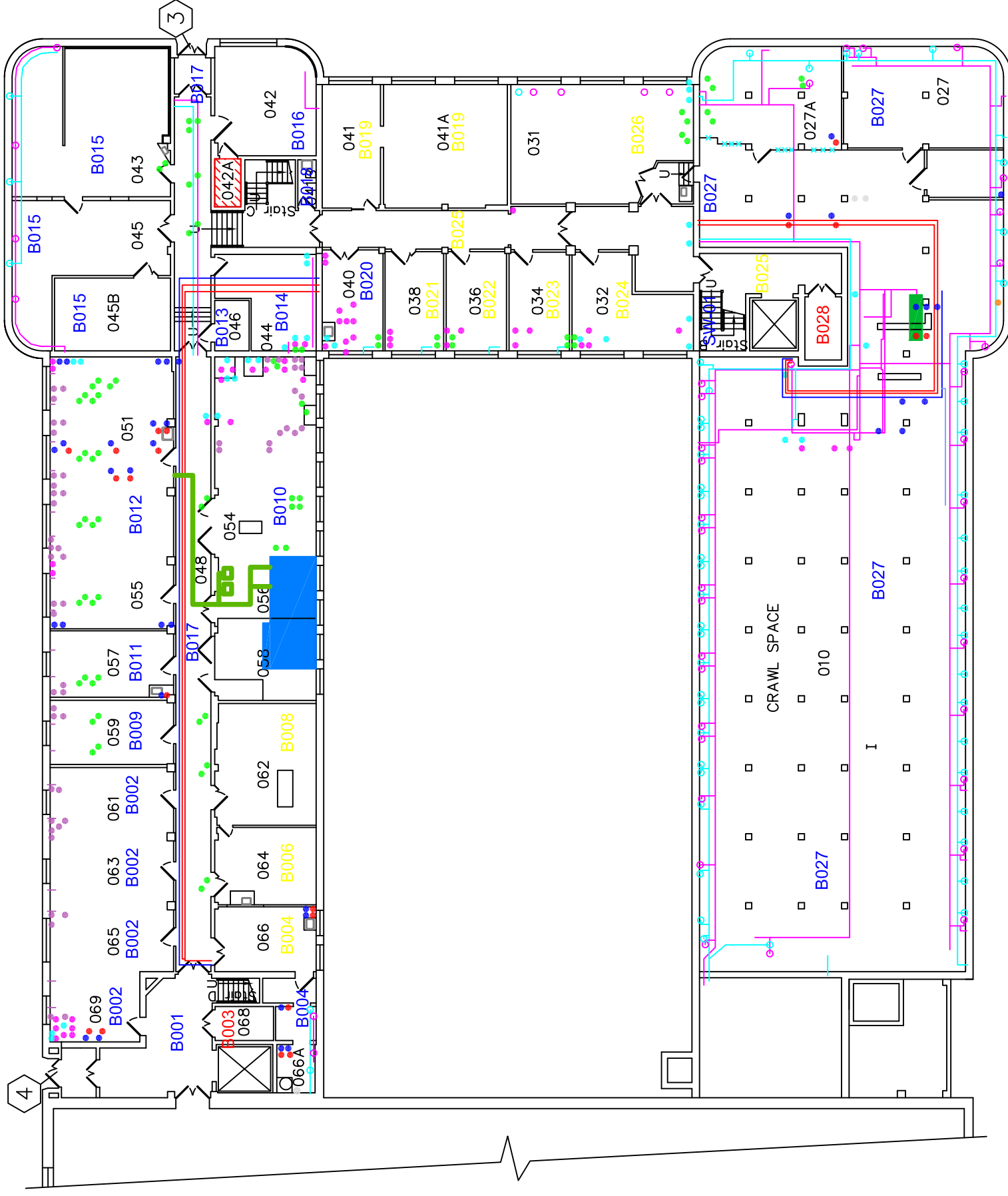
NTS

**TITLE**

**-BASEMENT-  
 ASBESTOS  
 LOCATIONS**

**SHEET**

**B-1**











**LEGEND**

|      |                                     |
|------|-------------------------------------|
| 1001 | FUNCTIONAL SPACE #                  |
| 1001 | AREA NOT INSPECTED (INACCESSIBLE)   |
| 1001 | AREA NOT INSPECTED (ABOVE CEILING)  |
| 1001 | ACM FITTING INSULATION: HW HEATING  |
| 1001 | ACM FITTING INSULATION: DOMESTIC HW |
| 1001 | ACM FITTING INSULATION: DOMESTIC HW |
| 1001 | ACM FITTING INSULATION: DOMESTIC HW |
| 1001 | ACM FITTING INSULATION: CHILLER     |
| 1001 | ACM FITTING INSULATION: CONDENSATE  |
| 1001 | ACM FITTING INSULATION: FIRE WATER  |
| 1001 | ACM FITTING INSULATION: STEAM       |
| 1001 | ACM PIPE INSULATION: DOW            |
| 1001 | ACM PIPE INSULATION: DHW            |
| 1001 | ACM PIPE INSULATION: CONDENSATE     |
| 1001 | ACM PIPE INSULATION: HHW            |
| 1001 | ACM PIPE INSULATION: STEAM          |
| 1001 | ACM PIPE INSULATION: DUCT           |
| 1001 | ACM 9" X9" FLOOR TILE               |
| 1001 | ACM HVAC INSULATION                 |

**NOTE:**  
ACM fitting insulation locations are shown only on systems where NON-ACM pipe insulation was found. Only ACM EBOWS are shown. These systems include ACM ducts, valves, ends, hangers, etc.

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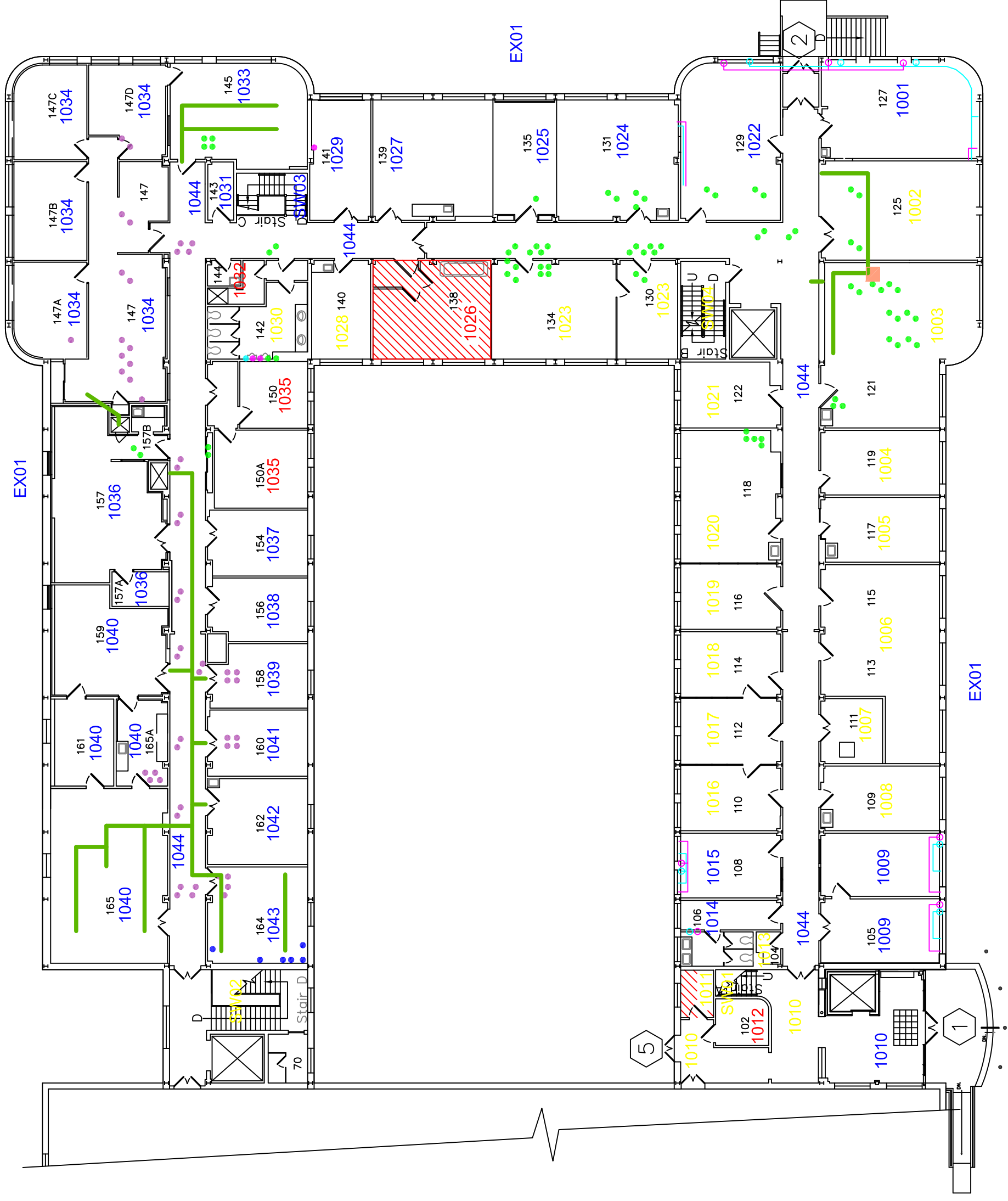
**PROJECT NO.**  
PR-08-043

**DATE**  
OCTOBER 2011

**SCALE**  
NTS

**TITLE**  
- 1st FLOOR -  
ASBESTOS  
LOCATIONS

**SHEET**  
1-1





**LEGEND**

|      |                                     |
|------|-------------------------------------|
| 1001 | FUNCTIONAL SPACE #                  |
| ●    | SAMPLE LOCATION: NON-ACM            |
| ○    | SAMPLE LOCATION: ACM                |
| ▲    | DAMAGED ACM LOCATION                |
| PH   | PHOTOGRAPH #                        |
| 1001 | AREA NOT INSPECTED (INACCESSIBLE)   |
| 1001 | AREA NOT INSPECTED (ABOVE CEILING)  |
| ●    | ACM FITTING INSULATION: HW HEATING  |
| ●    | ACM FITTING INSULATION: DOMESTIC CW |
| ●    | ACM FITTING INSULATION: DOMESTIC HW |
| ●    | ACM FITTING INSULATION: DRAIN       |
| ●    | ACM FITTING INSULATION: CHILLER     |
| ●    | ACM FITTING INSULATION: CONDENSATE  |
| ●    | ACM FITTING INSULATION: FIRE WATER  |
| ●    | ACM FITTING INSULATION: STEAM       |
| —    | ACM PIPE INSULATION: CW             |
| —    | ACM PIPE INSULATION: DHW            |
| —    | ACM PIPE INSULATION: CONDENSATE     |
| —    | ACM PIPE INSULATION: HHW            |
| —    | ACM PIPE INSULATION: STEAM          |
| —    | ACM PIPE INSULATION: DUCT           |
| —    | ACM 9" X9" FLOOR TILE               |
| —    | ACM HVAC INSULATION                 |
| —    | ACM DEBRIS                          |

**NOTE:**  
 ACM fitting insulation locations are shown only on systems where NON-ACM pipe insulation was found. ONLY ACM ELBOWS are shown. These systems may also have ACM on TS, valves, ends, hangers, etc.

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 DESIGNATED  
 SUBSTANCE SURVEY  
 BUILDING M-23A

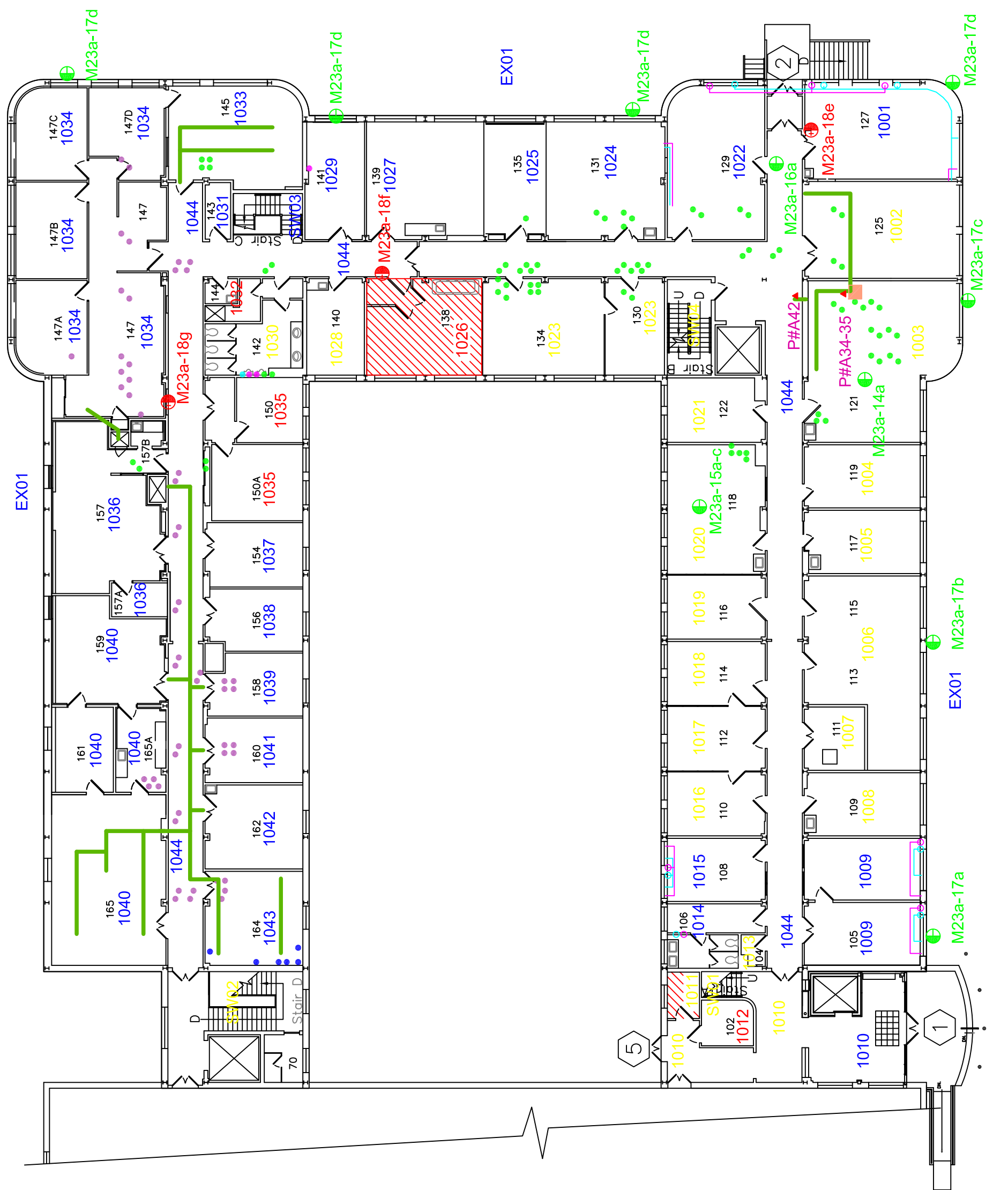
**PROJECT NO.**  
 PR-08-043

**DATE**  
 OCTOBER 2011

**SCALE**  
 NTS

**TITLE**  
 - 1st FLOOR -  
 ASBESTOS  
 SURVEY

**SHEET**  
 1-2





OAKHILL  
ENVIRONMENTAL

LEGEND

- 1001 FUNCTIONAL SPACE #
- 1002 SAMPLE LOCATION: NON-LEAD PAINT
- 1003 SAMPLE LOCATION: LEAD PAINT
- 1004 SUSPECT MOULD LOCATION
- 1005 AREA NOT INSPECTED (INACCESSIBLE)
- 1006 AREA NOT INSPECTED (ABOVE CEILING)

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PROJECT

DESIGNATED  
SUBSTANCE SURVEY  
BUILDING M-23A

PROJECT NO.

PR-08-043

DATE

OCTOBER 2011

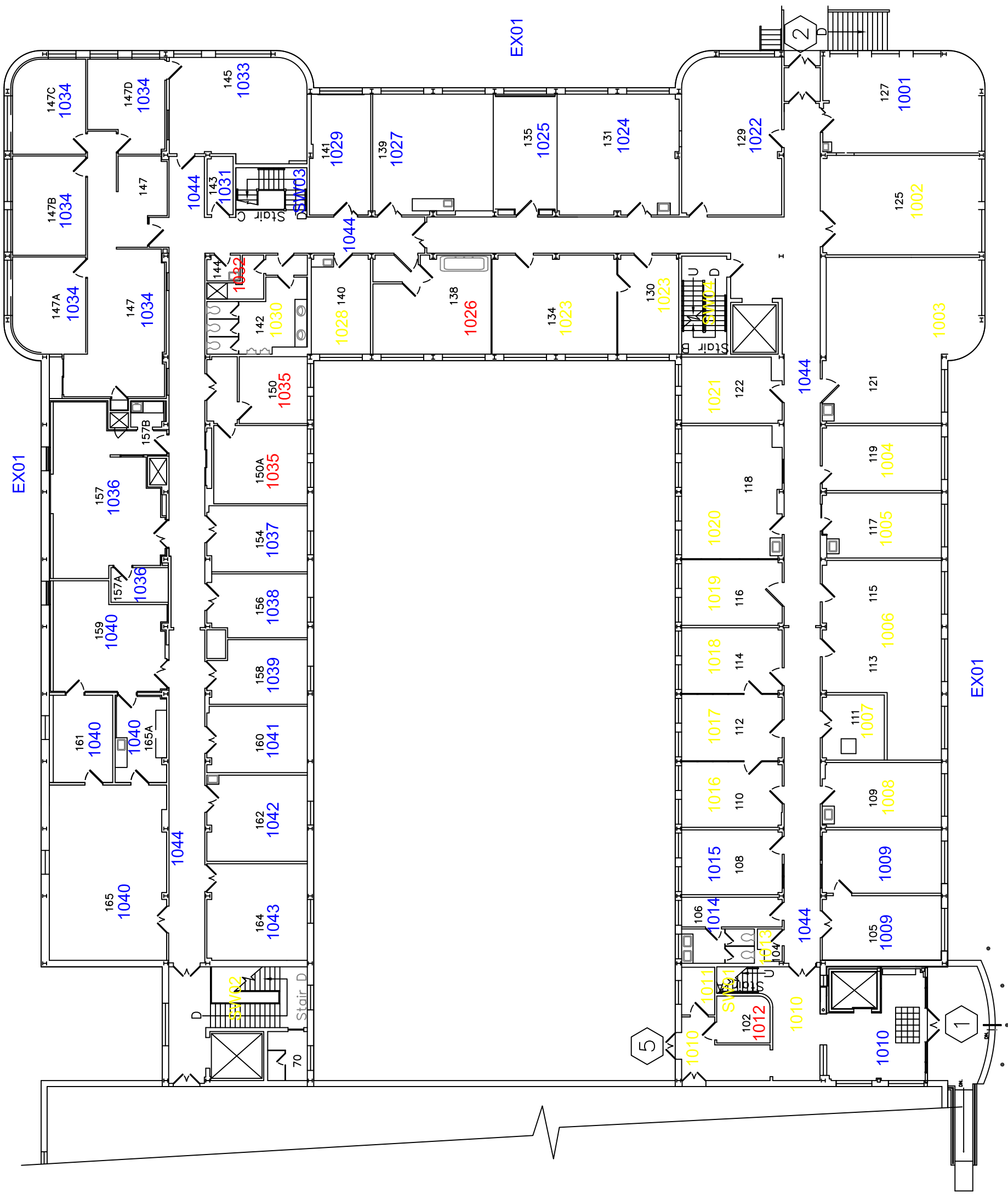
SCALE

NTS

TITLE

- 1st FLOOR -  
LEAD SAMPLES  
&  
MOULD LOCATIONS  
SHEET

1-3









OAKHILL  
ENVIRONMENTAL

**LEGEND**

- 1001 FUNCTIONAL SPACE #
- 1001 AREA NOT INSPECTED (INACCESSIBLE)
- 1001 AREA NOT INSPECTED (ABOVE CEILING)
- 1001 ACM FITTING INSULATION: HW HEATING
- 1001 ACM FITTING INSULATION: DOMESTIC CW
- 1001 ACM FITTING INSULATION: DOMESTIC HW
- 1001 ACM FITTING INSULATION: DRAIN
- 1001 ACM FITTING INSULATION: CHILLER
- 1001 ACM FITTING INSULATION: CONDENSATE
- 1001 ACM FITTING INSULATION: FIRE WATER
- 1001 ACM FITTING INSULATION: STEAM
- 1001 ACM FITTING INSULATION: DOW
- 1001 ACM PIPE INSULATION: DHW
- 1001 ACM PIPE INSULATION: CONDENSATE
- 1001 ACM PIPE INSULATION: HWH
- 1001 ACM PIPE INSULATION: STEAM
- 1001 ACM PIPE INSULATION: DUCT
- 1001 ACM 9" X8" FLOOR TILE
- 1001 ACM HVAC INSULATION

**NOTE:**  
 ACM fitting insulation locations are shown only on systems where NON-HVAC pipe insulation was found. Only ACM EBONS are shown. These systems include: fire ACM fire T's, valves, ends, hangers, etc.

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 SUBSTANCE SURVEY  
 BUILDING M-23A

**PROJECT NO.**

PR-08-043

**DATE**

OCTOBER 2011

**SCALE**

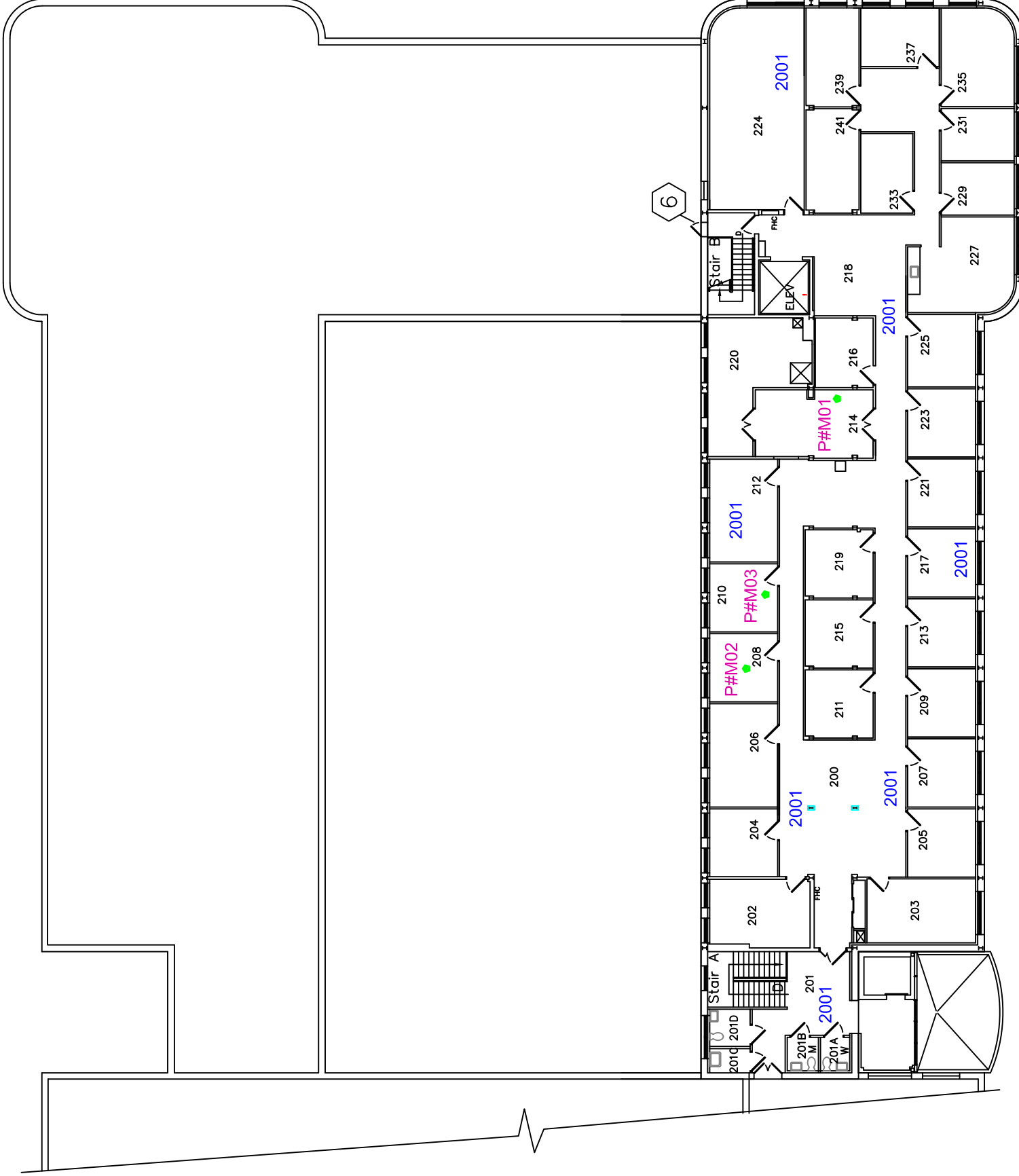
NTS

**TITLE**

- 2nd FLOOR -  
 ASBESTOS  
 LOCATIONS

**SHEET**

2-1





OAKHILL ENVIRONMENTAL

LEGEND

- 1001 FUNCTIONAL SPACE #
- SAMPLE LOCATION: NON-ACM
- SAMPLE LOCATION: ACM
- ▲ DAMAGED ACM LOCATION
- PH PHOTOGRAPH #
- 1001 AREA NOT INSPECTED (INACCESSIBLE)
- 1001 AREA NOT INSPECTED (ABOVE CEILING)
- ACM FITTING INSULATION: HW HEATING
- ACM FITTING INSULATION: DOMESTIC CW
- ACM FITTING INSULATION: DOMESTIC HW
- ACM FITTING INSULATION: DRAIN
- ACM FITTING INSULATION: CHILLER
- ACM FITTING INSULATION: CONDENSATE
- ACM FITTING INSULATION: FIRE WATER
- ACM FITTING INSULATION: STEAM
- ACM PIPE INSULATION: DCW
- ACM PIPE INSULATION: DHW
- ACM PIPE INSULATION: CONDENSATE
- ACM PIPE INSULATION: HHW
- ACM PIPE INSULATION: STEAM
- ACM PIPE INSULATION: DUCT
- ACM 9" X9" FLOOR TILE
- ACM HVAC INSULATION
- ACM DEBRIS

NOTE:  
 ACM fitting insulation locations are shown only on systems where NON-ACM pipe insulation was found. ONLY ACM ELBOWS are shown. These systems may also have ACM on TS, valves, ends, hangers, etc.

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 DESIGNATED  
 SUBSTANCE SURVEY  
 BUILDING M-23A

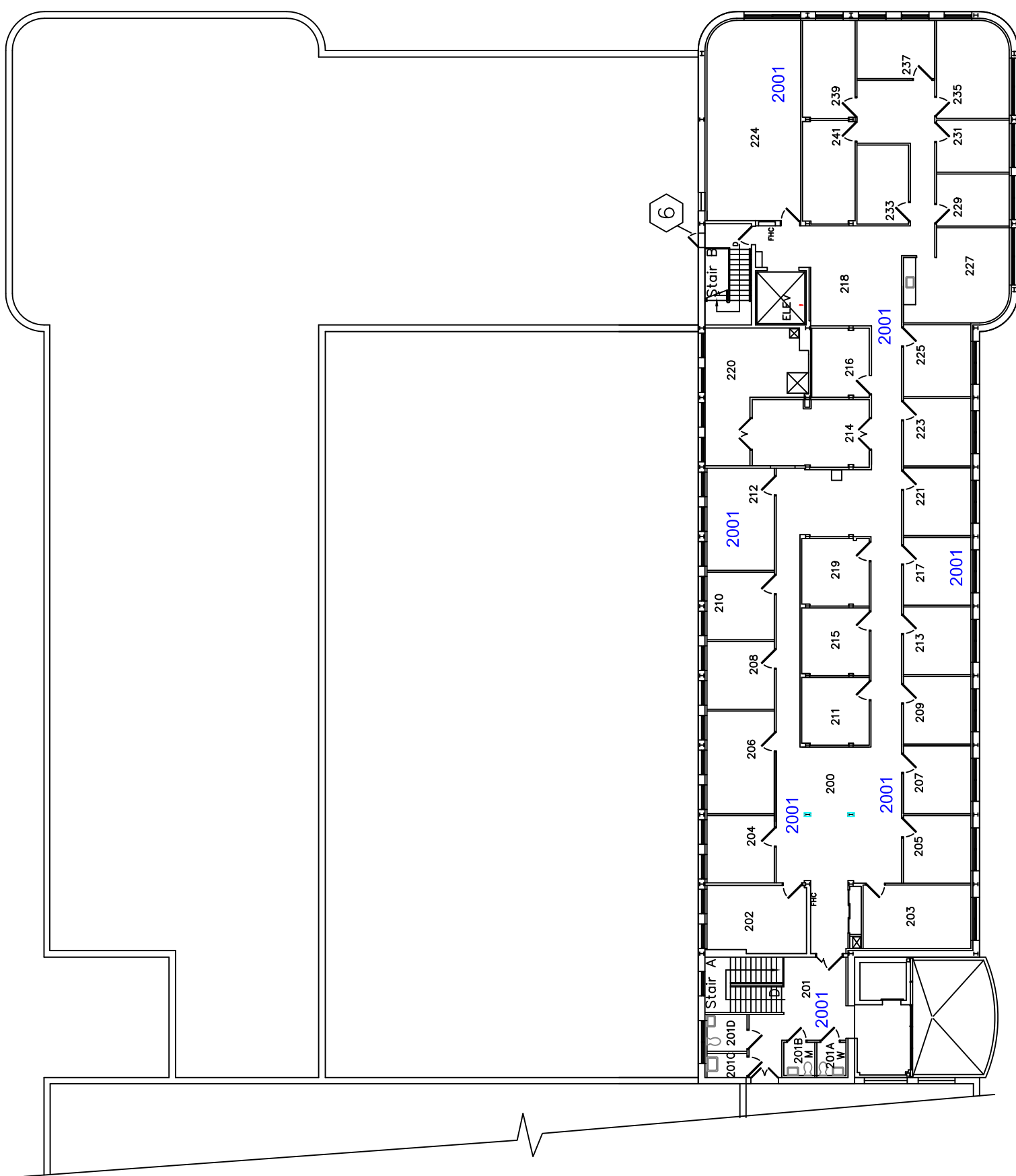
**PROJECT NO.**  
 PR-08-043

**DATE**  
 OCTOBER 2011

**SCALE**  
 NTS

**TITLE**  
 - 2nd FLOOR -  
 ASBESTOS  
 SURVEY

**SHEET**  
 2-2







OAKHILL ENVIRONMENTAL

LEGEND

- 1001 FUNCTIONAL SPACE #
- 1001 AREA NOT INSPECTED (INACCESSIBLE)
- 1001 AREA NOT INSPECTED (ABOVE CEILING)
- ACM PLASTER WALLS
- ACM PLASTER CEILING
- DAMAGED ACM LOCATION
- PI PHOTOGRAPH #

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PROJECT NO.

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DATE

OCTOBER 2011

SCALE

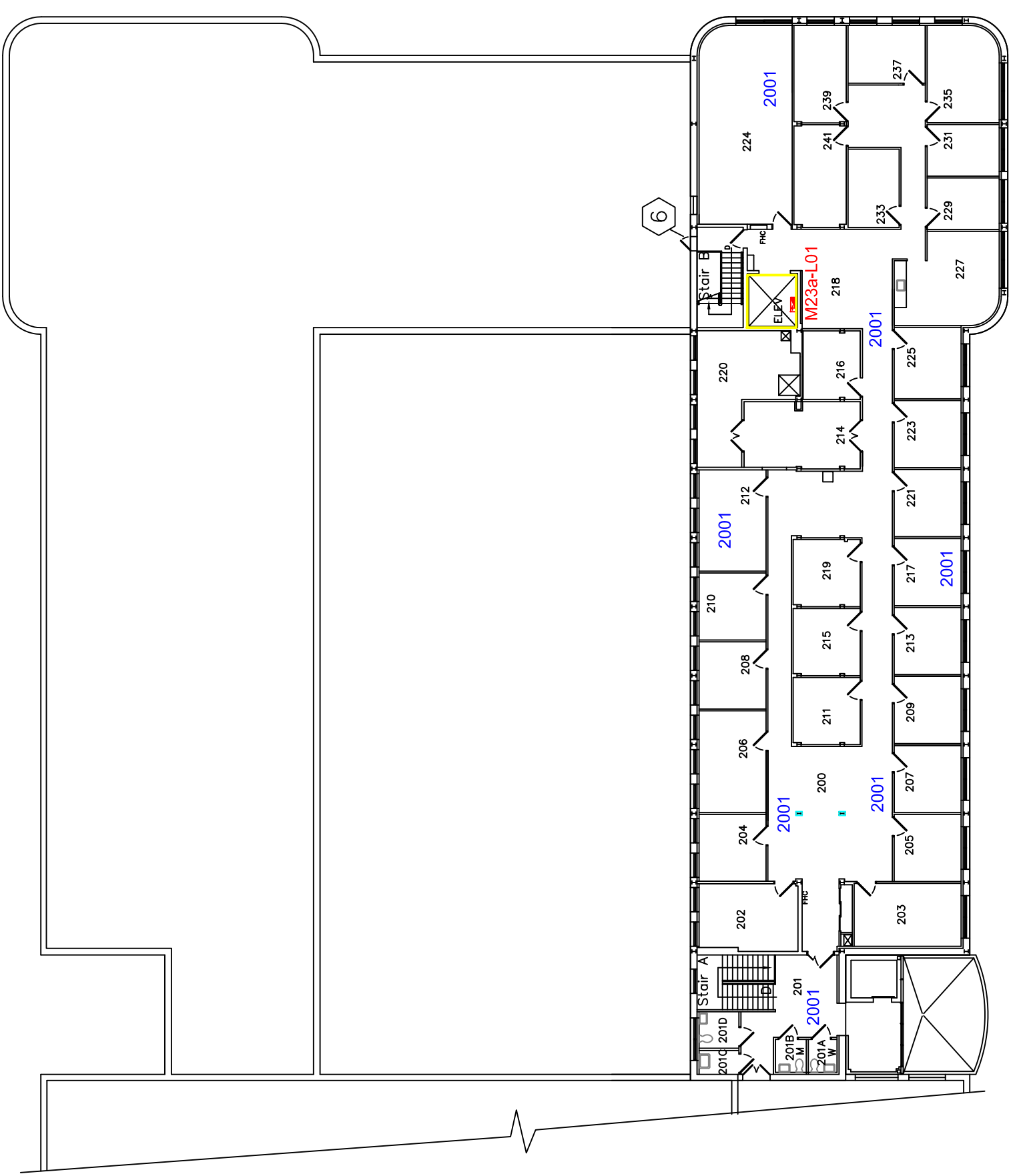
NTS

TITLE

- 2nd FLOOR -  
ACM PLASTER

SHEET

2-4



**APPENDIX F**  
**FUNCTIONAL SPACE FORMS**

## Functional Space Forms

The functional space form provides a general guide of information collected in each room or area of the facility and is considerate of but is not limited to the following:

- (a) **Building Materials** - Each building material is given a description as to the location, homogenous material number, location and system;
- (b) **ACM Assessment** - Each building material that is found to contain ACM is assessed as to friability, ACM type, quantity, condition, access and appropriate response;
- (c) **Report Reference** - Report references to building materials with respect to drawings and photographs numbers is made available for convenience. Drawings and photographs are located in the Appendices section of this report.

Each functional space is assigned a four digit number beginning with 1001 for the first floor, 2001 for the second floor, 3001 for the third floor, and so on. Functional spaces are determined on a room-to-room or area-to-area basis. Also, included on each form is: building, date, Oakhill job number, functional space area name, inspector and notes. In the notes section important additional comments are made regarding ACM found in this area, samples collected and any areas within this functional space that were considered inaccessible at the time of inspection.

The functional space form is a useful tool for the collection of survey data and communication of such data for your record keeping purposes.

## Criteria for Assessing Condition of ACM

The following criteria were used for evaluating the condition of ACM:

**GOOD (G):** The building material has no evidence of exposed ACM and exhibits no signs of damage or deterioration

**FAIR (F):** The building material has minor damage (less than 2%) and the potential for an airborne release of asbestos is low to moderate.

**POOR (P):** The building material has moderate to major damage (greater than 2%) and the potential for an airborne release of asbestos is moderate to moderate to high.

The evaluation of the potential for an airborne release of asbestos from an ACM is also considerate of fibre generating mechanisms. This involves any form of action that can cause deterioration of the ACM resulting in the generation of airborne asbestos fibres. Typical fibre generating mechanisms may include: water damage, grinding, vibration, air movement, etc. This determination is made based on the best professional judgement of the experienced inspector.

## **Criteria for Assessing Access to ACM**

The accessibility of ACM identified was rated as:

**Access A:** All building occupants may have access to this area.

**Access B:** Restricted to building staff only.

**Access C:** Areas of the building located behind walls or ceiling systems.

## **Response**

Each ACM material, after all considerations, is given an appropriate response. The following is an explanation of each response that may be given:

**Removal:** For extensively damaged materials that cannot sustain encapsulation or materials that pose a significant potential for an airborne release and exposure to building occupants (i.e. debris). Requires immediate attention and encapsulation is not an option.

**Encapsulation:** Encapsulation involves the repair of damaged materials (i.e. canvas and lagging of damaged ACM pipe insulation). Materials that require encapsulation pose a potential risk of an airborne release ranging from low to high but restoration of the ACM is still a viable option. Encapsulation is not applicable if the material is severely deteriorated.

**O & M Operations & Maintenance:** These materials were found in good condition and should be periodically inspected.





| <b>Building ID:</b><br>M23A  |               | Notes:                |   |                        |                |           |   |                    |                 |                          | <b>Functional Space:</b><br>B001    |          |
|--|---------------|-----------------------|---|------------------------|----------------|-----------|---|--------------------|-----------------|--------------------------|-------------------------------------|----------|
| <b>Date:</b><br>05-Oct-11  |               |                       |   |                        |                |           |   |                    |                 |                          | <b>Location:</b><br>See notes       |          |
| <b>Project #:</b><br>PR-08-043   |               |                       |   |                        |                |           |   |                    |                 |                          | <b>Inspector (s):</b><br>BM, JB, DJ |          |
| <b>Building Materials:</b>   |               |                       |   | <b>ACM Assessment:</b> |                |           |   |                    |                 | <b>Report Reference:</b> |                                     |          |
| Location:  | Homo. Mat. #: | Material Description: | System:   | ACM (Y/N):             | Friable (Y/N): | ACM Type: | Quantity:   | Condition (G,F,P): | Access (A,B,C): | Response / Comments:     | Drawing #:                          | Photo #: |
| Floor  | na            | 12"x12" FT (grey)     | Floor   | N                      | -              | -         | -   | -                  | -               | newer                    | -                                   | -        |
| Walls  | 1             | Texture coat plaster  | Wall  | N                      | -              | -         | -   | -                  | -               | -                        | -                                   | -        |
| Ceiling  | 1             | Texture coat plaster  | Wall  | N                      | -              | -         | -   | -                  | -               | -                        | -                                   | -        |
| Above Ceiling  | na            | -                     | -   | -                      | -              | -         | -   | -                  | -               | -                        | -                                   | -        |
| Below Ceiling  | na            | FG PI & FI            | All   | N                      | -              | -         | -   | -                  | -               | -                        | -                                   | -        |
| <b>Material Description:</b><br>MJC: Mud Joint Compound<br>FI: Fitting Insulation:<br>PI: Pipe Insulation<br>DI: Duct Insulation<br>FG: Fibreglass<br>FT: Floor Tile<br>CT: Ceiling Tile |               |                       | <b>Criteria for Condition of an ACM:</b><br>G: ACM is in GOOD condition; No damage<br>F: ACM is in FAIR condition; Less than 2% damage<br>P: ACM is in POOR condition; Greater than 2% damage |                        |                |           | <b>Criteria for Access to an area containing ACM:</b><br>A: All building occupants may have access to this area.<br>B: Restricted to building staff only.<br>C: Areas of the building behind walls or ceiling system. |                    |                 |                          |                                     |          |







| <b>Building ID:</b><br>M23A   |               | <b>Notes:</b><br>The following samples were collected in this area: M23A-01A, M23A-02A, M23A-03A, M23A-04A                       |   |                 |                |                   |   |                    |                 |                      |            | <b>Functional Space:</b><br>B004    |  |
|---|---------------|--|---|-----------------|----------------|-------------------|---|--------------------|-----------------|----------------------|------------|-------------------------------------|--|
| <b>Date:</b><br>05-Oct-11   |               | Due to elevated suspended ceiling (~18ft), and safety regulations the above ceiling area was not inspected - ACMs may be present |   |                 |                |                   |   |                    |                 |                      |            | <b>Location:</b><br>66/66A          |  |
| <b>Project #:</b><br>PR-08-043  |               |  |   |                 |                |                   |   |                    |                 |                      |            | <b>Inspector (s):</b><br>BM, JB, DJ |  |
| Building Materials:   |               |  |   | ACM Assessment: |                |                   |   |                    |                 | Report Reference:    |            |                                     |  |
| Location:   | Homo. Mat. #: | Material Description:  | System:   | ACM (Y/N):      | Friable (Y/N): | ACM Type:         | Quantity:   | Condition (G,F,P): | Access (A,B,C): | Response / Comments: | Drawing #: | Photo #:                            |  |
| Floor   | na            | 12"x12" FT (white/grey)  | Floor   | N               | -              | -                 | -   | -                  | -               | newer                | -          | -                                   |  |
|   |               |  |   |                 |                |                   |   |                    |                 |                      |            |                                     |  |
|   |               |  |   |                 |                |                   |   |                    |                 |                      |            |                                     |  |
| Walls   | 1             | Texture coat plaster   | Wall  | N               | -              | -                 | -   | -                  | -               | -                    | -          | -                                   |  |
|   | na            | Styrofoam insulation   | Wall  | N               | -              | -                 | -   | -                  | -               | in wall              | -          | -                                   |  |
|   |               |  |   |                 |                |                   |   |                    |                 |                      |            |                                     |  |
|   |               |  |   |                 |                |                   |   |                    |                 |                      |            |                                     |  |
| Ceiling   | na            | 2'x4' CT (white wave)  | Ceiling   | N               | -              | -                 | -   | -                  | -               | -                    | -          | -                                   |  |
|   | na            | Drywall  | Ceiling   | N               | -              | -                 | -   | -                  | -               | -                    | -          | -                                   |  |
|   | 1             | Texture coat plaster   | Ceiling   | N               | -              | -                 | -   | -                  | -               | -                    | -          | -                                   |  |
|   | 18            | Smooth plaster   | Ceiling   | Y               | N              | 0.5-5% Tremolite  | 28.5 m <sup>2</sup>   | G                  | B               | O & M                | B-4        | -                                   |  |
|   |               |  |   |                 |                |                   |   |                    |                 |                      |            |                                     |  |
| Above Ceiling   | -             | Unknown  | -   | -               | -              | -                 | -   | -                  | -               | -                    | -          | -                                   |  |
|   |               |  |   |                 |                |                   |   |                    |                 |                      |            |                                     |  |
|   |               |  |   |                 |                |                   |   |                    |                 |                      |            |                                     |  |
|   |               |  |   |                 |                |                   |   |                    |                 |                      |            |                                     |  |
|   |               |  |   |                 |                |                   |   |                    |                 |                      |            |                                     |  |
| Below Ceiling   | na            | FG PI & FI   | All   | N               | -              | -                 | -   | -                  | -               | -                    | -          | -                                   |  |
|   | 3             | Aircell PI   | Condensate  | Y               | Y              | 50-75% Chrysotile | 7LM   | G                  | B               | O & M                | B-1        | -                                   |  |
|   | 8             | MJC FI   | Condensate  | Y               | Y              | > 75% Chrysotile  | 8   | G                  | B               | O & M                | B-1        | -                                   |  |
|   | 2             | MJC FI   | DHW   | Y               | Y              | 50-75% Chrysotile | 6   | G                  | B               | O & M                | B-1        | -                                   |  |
|   | 2             | MJC FI   | DCW   | Y               | Y              | 50-75% Chrysotile | 7   | G                  | B               | O & M                | B-1        | -                                   |  |
|   | 3             | Aircell PI   | Steam   | Y               | Y              | 50-75% Chrysotile | 3LM   | G                  | B               | O & M                | B-1        | -                                   |  |
|   | 8             | MJC FI   | Steam   | Y               | Y              | > 75% Chrysotile  | 4   | G                  | B               | O & M                | B-1        | -                                   |  |
|   |               |  |   |                 |                |                   |   |                    |                 |                      |            |                                     |  |
|   |               |  |   |                 |                |                   |   |                    |                 |                      |            |                                     |  |
|   |               |  |   |                 |                |                   |   |                    |                 |                      |            |                                     |  |
|   |               |  |   |                 |                |                   |   |                    |                 |                      |            |                                     |  |
| <b>Material Description:</b><br>MJC: Mud Joint Compound<br>FI: Fitting Insulation<br>PI: Pipe Insulation<br>DI: Duct Insulation<br>FG: Fibreglass<br>FT: Floor Tile<br>CT: Ceiling Tile |               |  | <b>Criteria for Condition of an ACM:</b><br>G: ACM is in GOOD condition; No damage<br>F: ACM is in FAIR condition; Less than 2% damage<br>P: ACM is in POOR condition; Greater than 2% damage |                 |                |                   | <b>Criteria for Access to an area containing ACM:</b><br>A: All building occupants may have access to this area.<br>B: Restricted to building staff only.<br>C: Areas of the building behind walls or ceiling system. |                    |                 |                      |            |                                     |  |



















| <b>Building ID:</b><br>M23A    |               | Notes:<br>Plaster texture coat is above duct over ceiling |   |                        |                |                   |           |  |                 |                      | <b>Functional Space:</b><br>B012    |          |
|--------------------------------|---------------|---|---|------------------------|----------------|-------------------|-----------|--|-----------------|----------------------|-------------------------------------|----------|
| <b>Date:</b><br>05-Oct-11      |               |   |   |                        |                |                   |           |  |                 |                      | <b>Location:</b><br>See notes       |          |
| <b>Project #:</b><br>PR-08-043 |               |   |   |                        |                |                   |           |  |                 |                      | <b>Inspector (s):</b><br>BM, JB, DJ |          |
| <b>Building Materials:</b>     |               |   |   | <b>ACM Assessment:</b> |                |                   |           |  |                 |                      | <b>Report Reference:</b>            |          |
| Location:                      | Homo. Mat. #: | Material Description:                                     | System:   | ACM (Y/N):             | Friable (Y/N): | ACM Type:         | Quantity: | Condition (G,F,P):                                       | Access (A,B,C): | Response / Comments: | Drawing #:                          | Photo #: |
| Floor                          | na            | 12"x12" FT (grey)   | Floor   | N                      | -              | -                 | -         | -  | -               | -                    | -                                   | -        |
| Walls                          | 1             | Texture coat plaster                                      | Wall  | N                      | -              | -                 | -         | -  | -               | -                    | -                                   | -        |
|                                | na            | Drywall panel   | Wall  | N                      | -              | -                 | -         | -  | -               | -                    | -                                   | -        |
| Ceiling                        | na            | 2'x4' CT (white strata)                                   | Ceiling   | N                      | -              | -                 | -         | -  | -               | -                    | -                                   | -        |
| Above Ceiling                  | na            | FG PI, FI & DI  | All   | N                      | -              | -                 | -         | -  | -               | -                    | -                                   | -        |
|                                | 3             | Aircell PI  | HWH   | Y                      | Y              | 50-75% Chrysotile | 1LM       | G  | C               | O & M                | B-1                                 | -        |
|                                | 2             | MJC FI  | Chiller   | Y                      | Y              | 50-75% Chrysotile | 20        | G  | C               | O & M                | B-1                                 | -        |
|                                | 2             | MJC FI  | DCW   | Y                      | Y              | 50-75% Chrysotile | 8         | G  | C               | O & M                | B-1                                 | -        |
|                                | 2             | MJC FI  | DHW   | Y                      | Y              | 50-75% Chrysotile | 5         | G  | C               | O & M                | B-1                                 | -        |
|                                | 8             | MJC FI  | HWH   | Y                      | Y              | > 75% Chrysotile  | 21        | G  | C               | O & M                | B-1                                 | -        |
| Below Ceiling                  | na            | FG PI & FI  | DCW, DHW  | N                      | -              | -                 | -         | -  | -               | -                    | -                                   | -        |
|                                | na            | FG PI & FI  | Condensate  | N                      | -              | -                 | -         | -  | -               | -                    | -                                   | -        |
|                                | na            | FG PI   | All   | N                      | -              | -                 | -         | -  | -               | -                    | -                                   | -        |
|                                | 2             | MJC FI  | DCW   | Y                      | Y              | 50-75% Chrysotile | 12        | G  | B               | O & M                | B-1                                 | -        |
|                                | 2             | MJC FI  | DHW   | Y                      | Y              | 50-75% Chrysotile | 2         | G  | B               | O & M                | B-1                                 | -        |
|                                | 8             | MJC FI  | Steam   | Y                      | Y              | > 75% Chrysotile  | 8         | G  | B               | O & M                | B-1                                 | -        |
|                                | 8             | MJC FI  | Condensate  | Y                      | Y              | > 75% Chrysotile  | 10        | G  | B               | O & M                | B-1                                 | -        |
| <b>Material Description:</b>   |               |   | <b>Criteria for Condition of an ACM:</b>            |                        |                |                   |           | <b>Criteria for Access to an area containing ACM:</b>    |                 |                      |                                     |          |
| MJC: Mud Joint Compound        |               |   | G: ACM is in GOOD condition; No damage              |                        |                |                   |           | A: All building occupants may have access to this area.  |                 |                      |                                     |          |
| FI: Fitting Insulation:        |               |   | F: ACM is in FAIR condition; Less than 2% damage    |                        |                |                   |           | B: Restricted to building staff only.                    |                 |                      |                                     |          |
| PI: Pipe Insulation            |               |   | P: ACM is in POOR condition; Greater than 2% damage |                        |                |                   |           | C: Areas of the building behind walls or ceiling system. |                 |                      |                                     |          |
| DI: Duct Insulation            |               |   |   |                        |                |                   |           |  |                 |                      |                                     |          |
| FG: Fibreglass                 |               |   |   |                        |                |                   |           |  |                 |                      |                                     |          |
| FT: Floor Tile                 |               |   |   |                        |                |                   |           |  |                 |                      |                                     |          |
| CT: Ceiling Tile               |               |   |   |                        |                |                   |           |  |                 |                      |                                     |          |





| <b>Building ID:</b><br>M23A    |               | <b>Notes:</b><br>The following samples were collected in this area: M23A-04B, M23A-10(A-C)<br>Steam: 2 severely damaged sections of aircell pipe insulation require 2 removals (1LM) - see photos A04, A05<br>Steam: residual mud joint compound fitting insulation requires 1 removal (1 unit) - see photo A06<br>DHW: 2 damaged sections of aircell pipe insulation require 2 encapsulations (.5LM) - see photo A07<br>DHW: 3 badly damaged sections of aircell pipe insulation require 3 removals (1.5LM) - see photos A06 , A07, A08<br>DCW: 1 damaged section of sweatwrap pipe insulation requires 1 encapsulation (.3LM) - see photo A07<br>ACM debris sitting on pipes requires 1 removal - see photo A06 |   |                        |                |                   |                  |  |                 |                      | <b>Functional Space:</b><br>B014    |               |
|--------------------------------|---------------|---|---|------------------------|----------------|-------------------|------------------|--|-----------------|----------------------|-------------------------------------|---------------|
| <b>Date:</b><br>05-Oct-11      |               |   |   |                        |                |                   |                  |  |                 |                      | <b>Location:</b><br>44 - Storage    |               |
| <b>Project #:</b><br>PR-08-043 |               |   |   |                        |                |                   |                  |  |                 |                      | <b>Inspector (s):</b><br>BM, JB, DJ |               |
|                                |               |   |   |                        |                |                   |                  |  |                 |                      |                                     |               |
| <b>Building Materials:</b>     |               |   |   | <b>ACM Assessment:</b> |                |                   |                  |  |                 |                      | <b>Report Reference:</b>            |               |
| Location:                      | Homo. Mat. #: | Material Description:   | System:   | ACM (Y/N):             | Friable (Y/N): | ACM Type:         | Quantity:        | Condition (G,F,P):                                       | Access (A,B,C): | Response / Comments: | Drawing #:                          | Photo #:      |
| Floor                          | na            | 12"x12" FT (grey)   | Floor   | N                      | -              | -                 | -                | -  | -               | newer                | -                                   | -             |
| Walls                          | 18            | Smooth Plaster  | Wall  | Y                      | N              | 0.5-5% Tremolite  | 48m <sup>2</sup> | G  | B               | O & M                | B-4                                 | -             |
| Ceiling                        | na            | 2'x4' CT (white strata)   | Ceiling   | N                      | -              | -                 | -                | -  | -               | -                    | -                                   | -             |
| Above Ceiling                  | na            | Metal   | Ceiling   | N                      | -              | -                 | -                | -  | -               | -                    | -                                   | -             |
|                                | 3             | Aircell PI  | Steam   | Y                      | Y              | 50-75% Chrysotile | 0.5LM            | P  | C               | 1 removal            | B-2                                 | A04           |
|                                | 2             | MJC FI  | Chiller   | Y                      | Y              | 50-75% Chrysotile | 2                | G  | C               | O & M                | B-1                                 | -             |
|                                | 8             | MJC FI  | Steam   | Y                      | Y              | > 75% Chrysotile  | 1                | P  | C               | 1 removal            | B-2                                 | A06           |
|                                | 3             | Aircell PI  | DHW   | Y                      | Y              | 50-75% Chrysotile | 11LM             | G  | C               | O & M                | B-1                                 | -             |
|                                | 3             | Aircell PI  | DHW   | Y                      | Y              | 50-75% Chrysotile | 1.5LM            | P  | C               | 3 removals           | B-2                                 | A06, A07, A08 |
|                                | 3             | Aircell PI  | DHW   | Y                      | Y              | 50-75% Chrysotile | 0.5LM            | P  | C               | 2 encapsulations     | B-2                                 | A07           |
|                                | 10            | Sweatwrap w/paper DI  | DCW   | Y                      | N              | 50-75% Chrysotile | 6LM              | G  | C               | O & M                | B-1                                 | -             |
|                                | 10            | Sweatwrap w/paper DI  | DCW   | Y                      | N              | 50-75% Chrysotile | 0.3LM            | P  | C               | 1 encapsulation      | B-2                                 | A07           |
|                                | 8             | MJC FI  | Condensate  | Y                      | Y              | > 75% Chrysotile  | 2                | G  | C               | O & M                | B-1                                 | -             |
| Below Ceiling                  | 8             | MJC FI  | Condensate  | Y                      | Y              | > 75% Chrysotile  | 8                | G  | B               | O & M                | B-1                                 | -             |
|                                | na            | FG PI   | Condensate  | N                      | -              | -                 | -                | -  | -               | -                    | -                                   | -             |
|                                | na            | FG PI & FI  | Steam   | N                      | -              | -                 | -                | -  | -               | -                    | -                                   | -             |
|                                | 8             | MJC FI  | Steam   | Y                      | Y              | > 75% Chrysotile  | 2                | G  | B               | O & M                | B-1                                 | -             |
|                                | 3             | Aircell PI  | Steam   | Y                      | Y              | 50-75% Chrysotile | 4LM              | G  | B               | O & M                | B-1                                 | -             |
|                                | 3             | Aircell PI  | Steam   | Y                      | Y              | 50-75% Chrysotile | 0.5LM            | P  | C               | 1 removal            | B-2                                 | A05           |
|                                | 3             | ACM debris  | Steam   | Y                      | Y              | 50-75% Chrysotile | 1m2              | P  | C               | 1 removal            | B-2                                 | A06           |
| <b>Material Description:</b>   |               |   | <b>Criteria for Condition of an ACM:</b>            |                        |                |                   |                  | <b>Criteria for Access to an area containing ACM:</b>    |                 |                      |                                     |               |
| MJC: Mud Joint Compound        |               |   | G: ACM is in GOOD condition; No damage              |                        |                |                   |                  | A: All building occupants may have access to this area.  |                 |                      |                                     |               |
| FI: Fitting Insulation:        |               |   | F: ACM is in FAIR condition; Less than 2% damage    |                        |                |                   |                  | B: Restricted to building staff only.                    |                 |                      |                                     |               |
| PI: Pipe Insulation            |               |   | P: ACM is in POOR condition; Greater than 2% damage |                        |                |                   |                  | C: Areas of the building behind walls or ceiling system. |                 |                      |                                     |               |
| DI: Duct Insulation            |               |   |   |                        |                |                   |                  |  |                 |                      |                                     |               |
| FG: Fibreglass                 |               |   |   |                        |                |                   |                  |  |                 |                      |                                     |               |
| FT: Floor Tile                 |               |   |   |                        |                |                   |                  |  |                 |                      |                                     |               |
| CT: Ceiling Tile               |               |   |   |                        |                |                   |                  |  |                 |                      |                                     |               |



| <b>Building ID:</b><br>M23A   |               | Notes:                         |   |                 |                |                   |   |                    |                 |                      | <b>Functional Space:</b><br>B015    |          |
|---|---------------|--------------------------------|---|-----------------|----------------|-------------------|---|--------------------|-----------------|----------------------|-------------------------------------|----------|
| <b>Date:</b><br>05-Oct-11   |               |                                |   |                 |                |                   |   |                    |                 |                      | <b>Location:</b><br>See notes       |          |
| <b>Project #:</b><br>PR-08-043  |               | Location: 43/45/45B - Cubicles |   |                 |                |                   |   |                    |                 |                      | <b>Inspector (s):</b><br>BM, JB, DJ |          |
| Building Materials:   |               |                                |   | ACM Assessment: |                |                   |   |                    |                 | Report Reference:    |                                     |          |
| Location:   | Homo. Mat. #: | Material Description:          | System:   | ACM (Y/N):      | Friable (Y/N): | ACM Type:         | Quantity:   | Condition (G,F,P): | Access (A,B,C): | Response / Comments: | Drawing #:                          | Photo #: |
| Floor   | na            | Grey carpet                    | Floor   | N               | -              | -                 | -   | -                  | -               | newer                | -                                   | -        |
|   | na            | 12"x12" FT (white/grey)        | Floor   | N               | -              | -                 | -   | -                  | -               | under carpet         | -                                   | -        |
|   |               |                                |   |                 |                |                   |   |                    |                 |                      |                                     |          |
| Walls   | 18            | Smooth plaster                 | Wall  | Y               | N              | 0.5-5% Tremolite  | 101m <sup>2</sup>   | G                  | B               | O & M                | B-4                                 | -        |
|   |               |                                |   |                 |                |                   |   |                    |                 |                      |                                     |          |
|   |               |                                |   |                 |                |                   |   |                    |                 |                      |                                     |          |
| Ceiling   | na            | 2'x4' CT (white wave)          | Ceiling   | N               | -              | -                 | -   | -                  | -               | -                    | -                                   | -        |
|   |               |                                |   |                 |                |                   |   |                    |                 |                      |                                     |          |
|   |               |                                |   |                 |                |                   |   |                    |                 |                      |                                     |          |
| Above Ceiling   | 3             | Aircell PI                     | Steam   | Y               | Y              | 50-75% Chrysotile | 22LM  | G                  | C               | O & M                | B-1                                 | -        |
|   | 8             | MJC FI                         | Steam   | Y               | Y              | > 75% Chrysotile  | 10  | G                  | C               | O & M                | B-1                                 | -        |
|   | 8             | MJC FI                         | Condensate  | Y               | Y              | > 75% Chrysotile  | 9   | G                  | C               | O & M                | B-1                                 | -        |
|   | 2             | MJC FI                         | Chiller   | Y               | Y              | 50-75% Chrysotile | 2   | G                  | C               | O & M                | B-1                                 | -        |
|   | 3             | Aircell PI                     | Condensate  | Y               | Y              | 50-75% Chrysotile | 17LM  | G                  | C               | O & M                | B-1                                 | -        |
|   | na            | FG DI                          | HVAC  | N               | -              | -                 | -   | -                  | -               | -                    | -                                   | -        |
|   |               |                                |   |                 |                |                   |   |                    |                 |                      |                                     |          |
|   |               |                                |   |                 |                |                   |   |                    |                 |                      |                                     |          |
|   |               |                                |   |                 |                |                   |   |                    |                 |                      |                                     |          |
| Below Ceiling   | na            | FG PI                          | HWH   | N               | -              | -                 | -   | -                  | -               | -                    | -                                   | -        |
|   |               |                                |   |                 |                |                   |   |                    |                 |                      |                                     |          |
|   |               |                                |   |                 |                |                   |   |                    |                 |                      |                                     |          |
|   |               |                                |   |                 |                |                   |   |                    |                 |                      |                                     |          |
| <b>Material Description:</b><br>MJC: Mud Joint Compound<br>FI: Fitting Insulation<br>PI: Pipe Insulation<br>DI: Duct Insulation<br>FG: Fibreglass<br>FT: Floor Tile<br>CT: Ceiling Tile |               |                                | <b>Criteria for Condition of an ACM:</b><br>G: ACM is in GOOD condition; No damage<br>F: ACM is in FAIR condition; Less than 2% damage<br>P: ACM is in POOR condition; Greater than 2% damage |                 |                |                   | <b>Criteria for Access to an area containing ACM:</b><br>A: All building occupants may have access to this area.<br>B: Restricted to building staff only.<br>C: Areas of the building behind walls or ceiling system. |                    |                 |                      |                                     |          |



| <b>Building ID:</b><br>M23A  |               | Notes:<br>The following samples were collected in this area: M23A-09(A-C) |   |                 |                |                   |                  |   |                 | <b>Functional Space:</b><br>B016    |            |          |
|--|---------------|---|---|-----------------|----------------|-------------------|------------------|---|-----------------|-------------------------------------|------------|----------|
| <b>Date:</b><br>05-Oct-11  |               |   |   |                 |                |                   |                  |   |                 | <b>Location:</b><br>See notes       |            |          |
| <b>Project #:</b><br>PR-08-043   |               | Location: 42/42A - Meeting room/communications closet                     |   |                 |                |                   |                  |   |                 | <b>Inspector (s):</b><br>BM, JB, DJ |            |          |
| Building Materials:  |               |   |   | ACM Assessment: |                |                   |                  |   |                 | Report Reference:                   |            |          |
| Location:  | Homo. Mat. #: | Material Description:   | System:   | ACM (Y/N):      | Friable (Y/N): | ACM Type:         | Quantity:        | Condition (G,F,P):  | Access (A,B,C): | Response / Comments:                | Drawing #: | Photo #: |
| Floor  | na            | Blue carpet   | Floor   | N               | -              | -                 | -                | -   | -               | newer                               | -          | -        |
|  | na            | 12"x12" FT (white/grey)   | Floor   | N               | -              | -                 | -                | -   | -               | under carpet                        | -          | -        |
|  | 9             | 9"x9" FT (pink/white)   | Floor   | Y               | N              | Suspect ACM       | 3m <sup>2</sup>  | G   | B               | O & M                               | B-1        | -        |
| Walls  | 1             | Texture coat plaster  | Wall  | N               | -              | -                 | -                | -   | -               | -                                   | -          | -        |
|  | 18            | Smooth plaster  | Wall  | Y               | N              | 0.5-5% Tremolite  | 90m <sup>2</sup> | G   | B               | O & M                               | B-4        | -        |
| Ceiling  | na            | 2'x4' CT (white wave)   | Ceiling   | N               | -              | -                 | -                | -   | -               | -                                   | -          | -        |
| Above Ceiling  | 3             | Aircell PI  | Steam   | Y               | Y              | 50-75% Chrysotile | 3LM              | G   | C               | O & M                               | B-1        | -        |
|  | 8             | MJC FI  | Steam   | Y               | Y              | > 75% Chrysotile  | 1                | G   | C               | O & M                               | B-1        | -        |
| Below Ceiling  | na            | FG PI & FI  | All   | N               | -              | -                 | -                | -   | -               | -                                   | -          | -        |
| <b>Material Description:</b><br>MJC: Mud Joint Compound<br>FI: Fitting Insulation:<br>PI: Pipe Insulation<br>DI: Duct Insulation<br>FG: Fibreglass<br>FT: Floor Tile<br>CT: Ceiling Tile |               |   | <b>Criteria for Condition of an ACM:</b><br>G: ACM is in GOOD condition; No damage<br>F: ACM is in FAIR condition; Less than 2% damage<br>P: ACM is in POOR condition; Greater than 2% damage |                 |                |                   |                  | <b>Criteria for Access to an area containing ACM:</b><br>A: All building occupants may have access to this area.<br>B: Restricted to building staff only.<br>C: Areas of the building behind walls or ceiling system. |                 |                                     |            |          |





| <b>Building ID:</b><br>M23A    |               | Notes: Location: 48 - Corridor/entranceway<br>The following samples were collected in this area: M23A-01B  |             |                 |                |  |                  |                    |                 |                      | <b>Functional Space:</b><br>B017    |               |
|--------------------------------|---------------|--|-------------|-----------------|----------------|--|------------------|--------------------|-----------------|----------------------|-------------------------------------|---------------|
| <b>Date:</b><br>06-Oct-11      |               | ACM debris on top of duct above ceiling requires 1 removal (1m <sup>2</sup> ) - see photo A09<br>Four areas of ACM debris on top of ceiling tile requires 4 removals (4m2) - see photo A10, A12, A13, A17, A18<br>Ceiling tiles with ACM debris above are marked with pink X's - see photos A11, A14, A15, A19<br>DHW: 1 badly damaged section of aircell pipe insulation requires 1 removal (3LM) - see photo A16 |             |                 |                |  |                  |                    |                 |                      | <b>Location:</b><br>See notes       |               |
| <b>Project #:</b><br>PR-08-043 |               |  |             |                 |                |  |                  |                    |                 |                      | <b>Inspector (s):</b><br>BM, JB, DJ |               |
| Building Materials:            |               |  |             | ACM Assessment: |                |  |                  |                    |                 | Report Reference:    |                                     |               |
| Location:                      | Homo. Mat. #: | Material Description:  | System:     | ACM (Y/N):      | Friable (Y/N): | ACM Type:  | Quantity:        | Condition (G,F,P): | Access (A,B,C): | Response / Comments: | Drawing #:                          | Photo #:      |
| Floor                          | na            | 12"x12" FT (white/grey)  | Floor       | N               | -              | -  | -                | -                  | -               | newer                | -                                   | -             |
| Walls                          | 18            | Smooth plaster   | Wall        | Y               | N              | 0.5-5% Tremolite   | 67m <sup>2</sup> | G                  | B               | O & M                | B-4                                 | -             |
|                                | 1             | Texture coat plaster   | Wall        | N               | -              | -  | -                | -                  | -               | -                    | -                                   | -             |
|                                | na            | Drywall  | Wall        | N               | -              | -  | -                | -                  | -               | -                    | -                                   | -             |
| Ceiling                        | na            | 2'x4' CT (white strata)  | Ceiling     | N               | -              | -  | -                | -                  | -               | newer                | -                                   | -             |
| Above Ceiling                  | na            | Metal  | Deck        | N               | -              | -  | -                | -                  | -               | -                    | -                                   | -             |
|                                | na            | FG PI  | Stm., Cond. | N               | -              | -  | -                | -                  | -               | -                    | -                                   | -             |
|                                | 3             | Aircell PI   | Steam       | Y               | Y              | 50-75% Chrysotile  | 15LM             | G                  | C               | O & M                | B-1                                 | -             |
|                                | 8             | MJC FI   | Steam       | Y               | Y              | > 75% Chrysotile   | 4                | G                  | C               | O & M                | B-1                                 | -             |
|                                | 3             | Aircell PI   | Condensate  | Y               | Y              | 50-75% Chrysotile  | 15LM             | G                  | C               | O & M                | B-1                                 | -             |
|                                | 8             | MJC FI   | Condensate  | Y               | Y              | > 75% Chrysotile   | 4                | G                  | C               | O & M                | B-1                                 | -             |
|                                | na            | FG PI & FI   | Chiller     | N               | -              | -  | -                | -                  | -               | -                    | -                                   | -             |
|                                | 7             | FG w/tar & white paper DI  | HVAC duct   | Y               | Y              | 50-75% Chrysotile  | 48m <sup>2</sup> | G                  | C               | O & M                | B-1                                 | -             |
|                                | 3             | Aircell PI   | DHW         | Y               | Y              | 50-75% Chrysotile  | 71LM             | G                  | C               | O & M                | B-1                                 | -             |
|                                | 3             | Aircell PI   | DHW         | Y               | Y              | 50-75% Chrysotile  | 3LM              | P                  | C               | 1 removal            | B-2                                 | A16           |
|                                | 10            | Sweatwrap w/paper DI   | DCW         | Y               | N              | 50-75% Chrysotile  | 35LM             | G                  | C               | O & M                | B-1                                 | -             |
|                                | 2             | MJC FI   | Chiller     | Y               | Y              | 50-75% Chrysotile  | 21               | G                  | C               | O & M                | B-1                                 | -             |
|                                | 6             | ACM debris on CT   | pipng       | Y               | Y              | > 75% Chrysotile   | 1m2              | P                  | C               | 1 removal            | B-2                                 | A10, A17, A18 |
|                                | 8             | ACM debris on CT   | fitting     | Y               | Y              | > 75% Chrysotile   | 3m2              | P                  | C               | 1 removal            | B-2                                 | A12, A13      |
|                                | 8             | ACM debris on duct   | fitting     | Y               | Y              | > 75% Chrysotile   | 1m2              | P                  | C               | 1 removal            | B-2                                 | A09           |
| Below Ceiling                  | na            | FG PI & FI   | HWH         | N               | -              | -  | -                | -                  | -               | -                    | -                                   | -             |
| <b>Material Description:</b>   |               | <b>Criteria for Condition of an ACM:</b>   |             |                 |                | <b>Criteria for Access to an area containing ACM:</b>    |                  |                    |                 |                      |                                     |               |
| MJC: Mud Joint Compound        |               | G: ACM is in GOOD condition; No damage   |             |                 |                | A: All building occupants may have access to this area.  |                  |                    |                 |                      |                                     |               |
| FI: Fitting Insulation:        |               | F: ACM is in FAIR condition; Less than 2% damage   |             |                 |                | B: Restricted to building staff only.                    |                  |                    |                 |                      |                                     |               |
| PI: Pipe Insulation            |               | P: ACM is in POOR condition; Greater than 2% damage  |             |                 |                | C: Areas of the building behind walls or ceiling system. |                  |                    |                 |                      |                                     |               |
| DI: Duct Insulation            |               |  |             |                 |                |  |                  |                    |                 |                      |                                     |               |
| FG: Fibreglass                 |               |  |             |                 |                |  |                  |                    |                 |                      |                                     |               |
| FT: Floor Tile                 |               |  |             |                 |                |  |                  |                    |                 |                      |                                     |               |
| CT: Ceiling Tile               |               |  |             |                 |                |  |                  |                    |                 |                      |                                     |               |



| <b>Building ID:</b><br>M23A<br><b>Date:</b><br>06-Oct-11<br><b>Project #:</b><br>PR-08-043   |               | Notes:<br>ACM plaster:2 damaged section of wall plaster requires 2 encapsulation (2m2) see photo A43-A44 |   |                 |                |                  |                 |   |                 |                      | <b>Functional Space:</b><br>B018<br><b>Location:</b><br>41B - Janitors Rm.<br><b>Inspector (s):</b><br>BM, JB, DJ |          |  |
|--|---------------|--|---|-----------------|----------------|------------------|-----------------|---|-----------------|----------------------|---|----------|--|
| Building Materials:  |               |  |   | ACM Assessment: |                |                  |                 |   |                 |                      | Report Reference:   |          |  |
| Location:  | Homo. Mat. #: | Material Description:  | System:   | ACM (Y/N):      | Friable (Y/N): | ACM Type:        | Quantity:       | Condition (G,F,P):  | Access (A,B,C): | Response / Comments: | Drawing #:  | Photo #: |  |
| Floor  | na            | Terrazzo   | Floor   | N               | -              | -                | -               | -   | -               | -                    | -   | -        |  |
| Walls  | 18            | Smooth plaster   | Wall  | Y               | N              | 0.5-5% Tremolite | 7m <sup>2</sup> | G   | B               | O & M                | B-4   | -        |  |
|  | 18            | Smooth plaster   | Wall  | Y               | N              | 0.5-5% Tremolite | 1m <sup>2</sup> | P   | B               | 1 encapsulation      | B-4   | A43      |  |
|  | 18            | Smooth plaster   | Wall  | Y               | N              | 0.5-5% Tremolite | 1m <sup>2</sup> | P   | B               | 1 encapsulation      | B-4   | A44      |  |
| Ceiling  | 18            | Smooth plaster   | Wall  | Y               | N              | 0.5-5% Tremolite | 3m <sup>2</sup> | G   | B               | O & M                | B-4   | -        |  |
| Above Ceiling  | na            | Metal  | Ceiling   | N               | -              | -                | -               | -   | -               | -                    | -   | -        |  |
| Below Ceiling  | na            | -  | -   | -               | -              | -                | -               | -   | -               | -                    | -   | -        |  |
| <b>Material Description:</b><br>MJC: Mud Joint Compound<br>FI: Fitting Insulation:<br>PI: Pipe Insulation<br>DI: Duct Insulation<br>FG: Fibreglass<br>FT: Floor Tile<br>CT: Ceiling Tile |               |  | <b>Criteria for Condition of an ACM:</b><br>G: ACM is in GOOD condition; No damage<br>F: ACM is in FAIR condition; Less than 2% damage<br>P: ACM is in POOR condition; Greater than 2% damage |                 |                |                  |                 | <b>Criteria for Access to an area containing ACM:</b><br>A: All building occupants may have access to this area.<br>B: Restricted to building staff only.<br>C: Areas of the building behind walls or ceiling system. |                 |                      |   |          |  |



| <b>Building ID:</b><br>M23A   |               | Notes:<br>No access above solid ceiling, ACMs may be present |   |                 |                |                  |   |                    |                 |                      | <b>Functional Space:</b><br>B019        |          |
|---|---------------|--|---|-----------------|----------------|------------------|---|--------------------|-----------------|----------------------|---|----------|
| <b>Date:</b><br>06-Oct-11   |               |  |   |                 |                |                  |   |                    |                 |                      | <b>Location:</b><br>41/41A - Electrical |          |
| <b>Project #:</b><br>PR-08-043  |               |  |   |                 |                |                  |   |                    |                 |                      | <b>Inspector (s):</b><br>BM, JB, DJ     |          |
| Building Materials:   |               |  |   | ACM Assessment: |                |                  |   |                    |                 | Report Reference:    |   |          |
| Location:   | Homo. Mat. #: | Material Description:  | System:   | ACM (Y/N):      | Friable (Y/N): | ACM Type:        | Quantity:   | Condition (G,F,P): | Access (A,B,C): | Response / Comments: | Drawing #:                              | Photo #: |
| Floor   | na            | Concrete   | Floor   | N               | -              | -                | -   | -                  | -               | -                    | -                                       | -        |
| Walls   | 1             | Texture coat plaster   | Wall  | N               | -              | -                | -   | -                  | -               | -                    | -                                       | -        |
| Ceiling   | 18            | Smooth plaster   | Wall  | Y               | N              | 0.5-5% Tremolite | 56m <sup>2</sup>  | G                  | B               | O & M                | B-4                                     | -        |
| Above Ceiling   | na            | -  | -   | -               | -              | -                | -   | -                  | -               | -                    | -                                       | -        |
| Below Ceiling   | na            | FG PI & FI   | HWH   | N               | -              | -                | -   | -                  | -               | -                    | -                                       | -        |
| <b>Material Description:</b><br>MJC: Mud Joint Compound<br>FI: Fitting Insulation<br>PI: Pipe Insulation<br>DI: Duct Insulation<br>FG: Fibreglass<br>FT: Floor Tile<br>CT: Ceiling Tile |               |  | <b>Criteria for Condition of an ACM:</b><br>G: ACM is in GOOD condition; No damage<br>F: ACM is in FAIR condition; Less than 2% damage<br>P: ACM is in POOR condition; Greater than 2% damage |                 |                |                  | <b>Criteria for Access to an area containing ACM:</b><br>A: All building occupants may have access to this area.<br>B: Restricted to building staff only.<br>C: Areas of the building behind walls or ceiling system. |                    |                 |                      |   |          |



| <b>Building ID:</b><br>M23A    |               | Notes:<br>Above ceiling accessed through hatch. |   |                 |                |                   |                  |  |                 |                      | <b>Functional Space:</b><br>B020    |          |
|--------------------------------|---------------|---|---|-----------------|----------------|-------------------|------------------|--|-----------------|----------------------|-------------------------------------|----------|
| <b>Date:</b><br>06-Oct-11      |               |   |   |                 |                |                   |                  |  |                 |                      | <b>Location:</b><br>40 - Office     |          |
| <b>Project #:</b><br>PR-08-043 |               |   |   |                 |                |                   |                  |  |                 |                      | <b>Inspector (s):</b><br>BM, JB, DJ |          |
| Building Materials:            |               |   |   | ACM Assessment: |                |                   |                  |  |                 | Report Reference:    |                                     |          |
| Location:                      | Homo. Mat. #: | Material Description:                           | System:   | ACM (Y/N):      | Friable (Y/N): | ACM Type:         | Quantity:        | Condition (G,F,P):                                       | Access (A,B,C): | Response / Comments: | Drawing #:                          | Photo #: |
| Floor                          | 5             | 12"x12" FT (tan/brown)                          | Floor   | N               | -              | -                 | -                | -  | -               | -                    | -                                   | -        |
| Walls                          | 1             | Texture coat plaster                            | Wall  | N               | -              | -                 | -                | -  | -               | -                    | -                                   | -        |
|                                | na            | Drywall panel                                   | Wall  | N               | -              | -                 | -                | -  | -               | -                    | -                                   | -        |
| Ceiling                        | 18            | Smooth plaster                                  | Wall  | Y               | N              | 0.5-5% Tremolite  | 12m <sup>2</sup> | G  | B               | O & M                | B-4                                 | -        |
| Above Ceiling                  | 3             | Aircell PI                                      | Condensate  | Y               | Y              | 50-75% Chrysotile | 2LM              | G  | C               | O & M                | B-1                                 | -        |
|                                | 8             | MJC FI  | Steam   | Y               | Y              | > 75% Chrysotile  | 10               | G  | C               | O & M                | B-1                                 | -        |
|                                | na            | FG PI   | All   | N               | -              | -                 | -                | -  | -               | -                    | -                                   | -        |
| Below Ceiling                  | 8             | MJC FI  | Steam   | Y               | Y              | > 75% Chrysotile  | 2                | G  | B               | O & M                | B-1                                 | -        |
|                                | 8             | MJC FI  | Condensate  | Y               | Y              | > 75% Chrysotile  | 2                | G  | B               | O & M                | B-1                                 | -        |
|                                | 2             | MJC FI  | Chiller   | Y               | Y              | 50-75% Chrysotile | 3                | G  | B               | O & M                | B-1                                 | -        |
|                                | na            | FG PI   | All   | N               | -              | -                 | -                | -  | -               | -                    | -                                   | -        |
| <b>Material Description:</b>   |               |   | <b>Criteria for Condition of an ACM:</b>            |                 |                |                   |                  | <b>Criteria for Access to an area containing ACM:</b>    |                 |                      |                                     |          |
| MJC: Mud Joint Compound        |               |   | G: ACM is in GOOD condition; No damage              |                 |                |                   |                  | A: All building occupants may have access to this area.  |                 |                      |                                     |          |
| FI: Fitting Insulation:        |               |   | F: ACM is in FAIR condition; Less than 2% damage    |                 |                |                   |                  | B: Restricted to building staff only.                    |                 |                      |                                     |          |
| PI: Pipe Insulation            |               |   | P: ACM is in POOR condition; Greater than 2% damage |                 |                |                   |                  | C: Areas of the building behind walls or ceiling system. |                 |                      |                                     |          |
| DI: Duct Insulation            |               |   |   |                 |                |                   |                  |  |                 |                      |                                     |          |
| FG: Fibreglass                 |               |   |   |                 |                |                   |                  |  |                 |                      |                                     |          |
| FT: Floor Tile                 |               |   |   |                 |                |                   |                  |  |                 |                      |                                     |          |
| CT: Ceiling Tile               |               |   |   |                 |                |                   |                  |  |                 |                      |                                     |          |



| <b>Building ID:</b><br>M23A   |               | Notes:<br>The following samples were collected in this area: M23A-01D, M23A-05(A-C)<br>No access above solid ceiling, ACMs may be present |   |                 |                |                   |   |                    |                 |                      | <b>Functional Space:</b><br>B021    |          |
|---|---------------|---|---|-----------------|----------------|-------------------|---|--------------------|-----------------|----------------------|-------------------------------------|----------|
| <b>Date:</b><br>06-Oct-11   |               |   |   |                 |                |                   |   |                    |                 |                      | <b>Location:</b><br>38 - Office     |          |
| <b>Project #:</b><br>PR-08-043  |               |   |   |                 |                |                   |   |                    |                 |                      | <b>Inspector (s):</b><br>BM, JB, DJ |          |
| Building Materials:   |               |   |   | ACM Assessment: |                |                   |   |                    |                 | Report Reference:    |                                     |          |
| Location:   | Homo. Mat. #: | Material Description:   | System:   | ACM (Y/N):      | Friable (Y/N): | ACM Type:         | Quantity:   | Condition (G,F,P): | Access (A,B,C): | Response / Comments: | Drawing #:                          | Photo #: |
| Floor   | 5             | 12"x12" FT (tan/brown)  | Floor   | N               | -              | -                 | -   | -                  | -               | -                    | -                                   | -        |
|   |               |   |   |                 |                |                   |   |                    |                 |                      |                                     |          |
|   |               |   |   |                 |                |                   |   |                    |                 |                      |                                     |          |
| Walls   | 1             | Texture coat plaster  | Wall  | N               | -              | -                 | -   | -                  | -               | -                    | -                                   | -        |
|   | na            | Drywall panel   | Wall  | N               | -              | -                 | -   | -                  | -               | -                    | -                                   | -        |
|   |               |   |   |                 |                |                   |   |                    |                 |                      |                                     |          |
|   |               |   |   |                 |                |                   |   |                    |                 |                      |                                     |          |
| Ceiling   | 18            | Smooth plaster  | Wall  | Y               | N              | 0.5-5% Tremolite  | 13m <sup>2</sup>  | G                  | B               | O & M                | B-4                                 | -        |
|   |               |   |   |                 |                |                   |   |                    |                 |                      |                                     |          |
|   |               |   |   |                 |                |                   |   |                    |                 |                      |                                     |          |
|   |               |   |   |                 |                |                   |   |                    |                 |                      |                                     |          |
| Above Ceiling   | na            | -   | -   | -               | -              | -                 | -   | -                  | -               | -                    | -                                   | -        |
|   |               |   |   |                 |                |                   |   |                    |                 |                      |                                     |          |
|   |               |   |   |                 |                |                   |   |                    |                 |                      |                                     |          |
|   |               |   |   |                 |                |                   |   |                    |                 |                      |                                     |          |
|   |               |   |   |                 |                |                   |   |                    |                 |                      |                                     |          |
| Below Ceiling   | na            | FG PI & FI  | Steam   | N               | -              | -                 | -   | -                  | -               | -                    | -                                   | -        |
|   | na            | FG PI   | All   | N               | -              | -                 | -   | -                  | -               | -                    | -                                   | -        |
|   | 8             | MJC FI  | Condensate  | Y               | Y              | > 75% Chrysotile  | 2   | G                  | B               | O & M                | B-1                                 | -        |
|   | 3             | Aircell PI  | Condensate  | Y               | Y              | 50-75% Chrysotile | 1LM   | G                  | B               | O & M                | B-1                                 | -        |
|   | 8             | MJC FI  | Steam   | Y               | Y              | > 75% Chrysotile  | 4   | G                  | B               | O & M                | B-1                                 | -        |
|   | 2             | MJC FI  | Chiller   | Y               | Y              | 50-75% Chrysotile | 4   | G                  | B               | O & M                | B-1                                 | -        |
|   |               |   |   |                 |                |                   |   |                    |                 |                      |                                     |          |
|   |               |   |   |                 |                |                   |   |                    |                 |                      |                                     |          |
|   |               |   |   |                 |                |                   |   |                    |                 |                      |                                     |          |
| <b>Material Description:</b><br>MJC: Mud Joint Compound<br>FI: Fitting Insulation<br>PI: Pipe Insulation<br>DI: Duct Insulation<br>FG: Fibreglass<br>FT: Floor Tile<br>CT: Ceiling Tile |               |   | <b>Criteria for Condition of an ACM:</b><br>G: ACM is in GOOD condition; No damage<br>F: ACM is in FAIR condition; Less than 2% damage<br>P: ACM is in POOR condition; Greater than 2% damage |                 |                |                   | <b>Criteria for Access to an area containing ACM:</b><br>A: All building occupants may have access to this area.<br>B: Restricted to building staff only.<br>C: Areas of the building behind walls or ceiling system. |                    |                 |                      |                                     |          |



| <b>Building ID:</b><br>M23A   |               | <b>Notes:</b><br>The following samples were collected in this area: M23A-01G |   |                 |                |                   |   |                    |                 |                      | <b>Functional Space:</b><br>B022    |          |
|---|---------------|--|---|-----------------|----------------|-------------------|---|--------------------|-----------------|----------------------|-------------------------------------|----------|
| <b>Date:</b><br>06-Oct-11   |               | No access above solid ceiling, ACMs may be present                           |   |                 |                |                   |   |                    |                 |                      | <b>Location:</b><br>36 - Office     |          |
| <b>Project #:</b><br>PR-08-043  |               |  |   |                 |                |                   |   |                    |                 |                      | <b>Inspector (s):</b><br>BM, JB, DJ |          |
| Building Materials:   |               |  |   | ACM Assessment: |                |                   |   |                    |                 | Report Reference:    |                                     |          |
| Location:   | Homo. Mat. #: | Material Description:  | System:   | ACM (Y/N):      | Friable (Y/N): | ACM Type:         | Quantity:   | Condition (G,F,P): | Access (A,B,C): | Response / Comments: | Drawing #:                          | Photo #: |
| Floor   | 5             | 12"x12" FT (tan/brown)   | Floor   | N               | -              | -                 | -   | -                  | -               | -                    | -                                   | -        |
|   |               |  |   |                 |                |                   |   |                    |                 |                      |                                     |          |
|   |               |  |   |                 |                |                   |   |                    |                 |                      |                                     |          |
| Walls   | na            | Drywall panel  | Wall  | N               | -              | -                 | -   | -                  | -               | -                    | -                                   | -        |
|   | 1             | Texture coat plaster   | Wall  | N               | -              | -                 | -   | -                  | -               | -                    | -                                   | -        |
|   |               |  |   |                 |                |                   |   |                    |                 |                      |                                     |          |
| Ceiling   | 18            | Smooth plaster   | Wall  | Y               | N              | 0.5-5% Tremolite  | 13m <sup>2</sup>  | G                  | B               | O & M                | B-4                                 | -        |
|   |               |  |   |                 |                |                   |   |                    |                 |                      |                                     |          |
|   |               |  |   |                 |                |                   |   |                    |                 |                      |                                     |          |
| Above Ceiling   | na            | -  | -   | -               | -              | -                 | -   | -                  | -               | -                    | -                                   | -        |
|   |               |  |   |                 |                |                   |   |                    |                 |                      |                                     |          |
|   |               |  |   |                 |                |                   |   |                    |                 |                      |                                     |          |
|   |               |  |   |                 |                |                   |   |                    |                 |                      |                                     |          |
| Below Ceiling   | na            | FG PI & FI   | Steam   | N               | -              | -                 | -   | -                  | -               | -                    | -                                   | -        |
|   | na            | FG PI  | All   | N               | -              | -                 | -   | -                  | -               | -                    | -                                   | -        |
|   | 8             | MJC FI   | Condensate  | Y               | Y              | > 75% Chrysotile  | 2   | G                  | B               | O & M                | B-1                                 | -        |
|   | 3             | Aircell PI   | Condensate  | Y               | Y              | 50-75% Chrysotile | 1LM   | G                  | B               | O & M                | B-1                                 | -        |
|   | 8             | MJC FI   | Steam   | Y               | Y              | > 75% Chrysotile  | 4   | G                  | B               | O & M                | B-1                                 | -        |
|   | 2             | MJC FI   | Chiller   | Y               | Y              | 50-75% Chrysotile | 3   | G                  | B               | O & M                | B-1                                 | -        |
|   |               |  |   |                 |                |                   |   |                    |                 |                      |                                     |          |
|   |               |  |   |                 |                |                   |   |                    |                 |                      |                                     |          |
|   |               |  |   |                 |                |                   |   |                    |                 |                      |                                     |          |
| <b>Material Description:</b><br>MJC: Mud Joint Compound<br>FI: Fitting Insulation<br>PI: Pipe Insulation<br>DI: Duct Insulation<br>FG: Fibreglass<br>FT: Floor Tile<br>CT: Ceiling Tile |               |  | <b>Criteria for Condition of an ACM:</b><br>G: ACM is in GOOD condition; No damage<br>F: ACM is in FAIR condition; Less than 2% damage<br>P: ACM is in POOR condition; Greater than 2% damage |                 |                |                   | <b>Criteria for Access to an area containing ACM:</b><br>A: All building occupants may have access to this area.<br>B: Restricted to building staff only.<br>C: Areas of the building behind walls or ceiling system. |                    |                 |                      |                                     |          |



| <b>Building ID:</b><br>M23A   |               | Notes:<br>The following samples were collected in this area: M23A-01C<br>No access above solid ceiling, ACMs may be present |   |                 |                |                   |   |                    |                 |                      | <b>Functional Space:</b><br>B023    |          |
|---|---------------|---|---|-----------------|----------------|-------------------|---|--------------------|-----------------|----------------------|-------------------------------------|----------|
| <b>Date:</b><br>06-Oct-11   |               |   |   |                 |                |                   |   |                    |                 |                      | <b>Location:</b><br>34 - Office     |          |
| <b>Project #:</b><br>PR-08-043  |               |   |   |                 |                |                   |   |                    |                 |                      | <b>Inspector (s):</b><br>BM, JB, DJ |          |
| Building Materials:   |               |   |   | ACM Assessment: |                |                   |   |                    |                 | Report Reference:    |                                     |          |
| Location:   | Homo. Mat. #: | Material Description:   | System:   | ACM (Y/N):      | Friable (Y/N): | ACM Type:         | Quantity:   | Condition (G,F,P): | Access (A,B,C): | Response / Comments: | Drawing #:                          | Photo #: |
| Floor   | 5             | 12"x12" FT (tan/brown)  | Floor   | N               | -              | -                 | -   | -                  | -               | -                    | -                                   | -        |
| Walls   | na            | Drywall panel   | Wall  | N               | -              | -                 | -   | -                  | -               | -                    | -                                   | -        |
|   | 1             | Texture coat plaster  | Wall  | N               | -              | -                 | -   | -                  | -               | -                    | -                                   | -        |
| Ceiling   | 18            | Smooth plaster  | Wall  | Y               | N              | 0.5-5% Tremolite  | 13m <sup>2</sup>  | G                  | B               | O & M                | B-4                                 | -        |
| Above Ceiling   | na            | -   | -   | -               | -              | -                 | -   | -                  | -               | -                    | -                                   | -        |
| Below Ceiling   | na            | FG PI & FI  | Steam   | N               | -              | -                 | -   | -                  | -               | -                    | -                                   | -        |
|   | na            | FG PI   | All   | N               | -              | -                 | -   | -                  | -               | -                    | -                                   | -        |
|   | 8             | MJC FI  | Condensate  | Y               | Y              | > 75% Chrysotile  | 3   | G                  | B               | O & M                | B-1                                 | -        |
|   | 3             | Aircell PI  | Condensate  | Y               | Y              | 50-75% Chrysotile | 1LM   | G                  | B               | O & M                | B-1                                 | -        |
|   | 8             | MJC FI  | Steam   | Y               | Y              | > 75% Chrysotile  | 4   | G                  | B               | O & M                | B-1                                 | -        |
|   | 2             | MJC FI  | Chiller   | Y               | Y              | 50-75% Chrysotile | 5   | G                  | B               | O & M                | B-1                                 | -        |
| <b>Material Description:</b><br>MJC: Mud Joint Compound<br>FI: Fitting Insulation<br>PI: Pipe Insulation<br>DI: Duct Insulation<br>FG: Fibreglass<br>FT: Floor Tile<br>CT: Ceiling Tile |               |   | <b>Criteria for Condition of an ACM:</b><br>G: ACM is in GOOD condition; No damage<br>F: ACM is in FAIR condition; Less than 2% damage<br>P: ACM is in POOR condition; Greater than 2% damage |                 |                |                   | <b>Criteria for Access to an area containing ACM:</b><br>A: All building occupants may have access to this area.<br>B: Restricted to building staff only.<br>C: Areas of the building behind walls or ceiling system. |                    |                 |                      |                                     |          |



| <b>Building ID:</b><br>M23A   |               | Notes:<br>No access above solid ceiling, ACMs may be present |   |                        |                |                   |                  |   |                 |                          | <b>Functional Space:</b><br>B024    |          |
|---|---------------|--|---|------------------------|----------------|-------------------|------------------|---|-----------------|--------------------------|-------------------------------------|----------|
| <b>Date:</b><br>06-Oct-11   |               |  |   |                        |                |                   |                  |   |                 |                          | <b>Location:</b><br>See notes       |          |
| <b>Project #:</b><br>PR-08-043  |               |  |   |                        |                |                   |                  |   |                 |                          | <b>Inspector (s):</b><br>BM, JB, DJ |          |
| <b>Building Materials:</b>  |               |  |   | <b>ACM Assessment:</b> |                |                   |                  |   |                 | <b>Report Reference:</b> |                                     |          |
| Location:   | Homo. Mat. #: | Material Description:  | System:   | ACM (Y/N):             | Friable (Y/N): | ACM Type:         | Quantity:        | Condition (G,F,P):  | Access (A,B,C): | Response / Comments:     | Drawing #:                          | Photo #: |
| Floor   | 5             | 12"x12" FT (tan/brown)                                       | Floor   | ?                      | N              |                   |                  | G   | B               | O & M                    | B-1                                 |          |
|   |               |  |   |                        |                |                   |                  |   |                 |                          |                                     |          |
| Walls   | na            | Drywall panel  | Wall  | N                      | -              | -                 | -                | -   | -               | -                        | -                                   | -        |
|   | 1             | Texture coat plaster   | Wall  | ?                      | N              |                   |                  | G   | B               | O & M                    |                                     |          |
|   |               |  |   |                        |                |                   |                  |   |                 |                          |                                     |          |
| Ceiling   | 18            | Smooth plaster   | Wall  | Y                      | N              | 0.5-5% Tremolite  | 25m <sup>2</sup> | G   | B               | O & M                    | B-4                                 | -        |
|   |               |  |   |                        |                |                   |                  |   |                 |                          |                                     |          |
| Above Ceiling   | na            | -  | -   | -                      | -              | -                 | -                | -   | -               | -                        | -                                   | -        |
|   |               |  |   |                        |                |                   |                  |   |                 |                          |                                     |          |
|   |               |  |   |                        |                |                   |                  |   |                 |                          |                                     |          |
| Below Ceiling   | na            | FG PI & FI   | Steam   | N                      | -              | -                 | -                | -   | -               | -                        | -                                   | -        |
|   | na            | FG PI  | All   | N                      | -              | -                 | -                | -   | -               | -                        | -                                   | -        |
|   | 8             | MJC FI   | Steam   | Y                      | Y              | > 75% Chrysotile  | 6                | G   | B               | O & M                    | B-1                                 | -        |
|   | 8             | MJC FI   | Condensate  | Y                      | Y              | > 75% Chrysotile  | 6                | G   | B               | O & M                    | B-1                                 | -        |
|   | 2             | MJC FI   | Chiller   | Y                      | Y              | 50-75% Chrysotile | 4                | G   | B               | O & M                    | B-1                                 | -        |
|   |               |  |   |                        |                |                   |                  |   |                 |                          |                                     |          |
|   |               |  |   |                        |                |                   |                  |   |                 |                          |                                     |          |
| <b>Material Description:</b><br>MJC: Mud Joint Compound<br>FI: Fitting Insulation<br>PI: Pipe Insulation<br>DI: Duct Insulation<br>FG: Fibreglass<br>FT: Floor Tile<br>CT: Ceiling Tile |               |  | <b>Criteria for Condition of an ACM:</b><br>G: ACM is in GOOD condition; No damage<br>F: ACM is in FAIR condition; Less than 2% damage<br>P: ACM is in POOR condition; Greater than 2% damage |                        |                |                   |                  | <b>Criteria for Access to an area containing ACM:</b><br>A: All building occupants may have access to this area.<br>B: Restricted to building staff only.<br>C: Areas of the building behind walls or ceiling system. |                 |                          |                                     |          |





| <b>Building ID:</b><br>M23A  |               | Notes:<br>The following samples were collected in this area: M23A-01F, M23A-04G, M23A-18D<br>No access above solid ceiling, ACMs may be present<br>ACM plaster: 1 damaged section of wall plaster requires 1 encapsulation (1m2) see photo A45<br>Location: Corridor for rooms 31-41 |   |                        |                |                  |   |                    |                 |                          | <b>Functional Space:</b><br>B025    |          |
|--|---------------|--|---|------------------------|----------------|------------------|---|--------------------|-----------------|--------------------------|-------------------------------------|----------|
| <b>Date:</b><br>06-Oct-11  |               |  |   |                        |                |                  |   |                    |                 |                          | <b>Location:</b><br>See notes       |          |
| <b>Project #:</b><br>PR-08-043   |               |  |   |                        |                |                  |   |                    |                 |                          | <b>Inspector (s):</b><br>BM, JB, DJ |          |
|  |               |  |   |                        |                |                  |   |                    |                 |                          |                                     |          |
| <b>Building Materials:</b>   |               |  |   | <b>ACM Assessment:</b> |                |                  |   |                    |                 | <b>Report Reference:</b> |                                     |          |
| Location:  | Homo. Mat. #: | Material Description:  | System:   | ACM (Y/N):             | Friable (Y/N): | ACM Type:        | Quantity:   | Condition (G,F,P): | Access (A,B,C): | Response / Comments:     | Drawing #:                          | Photo #: |
| Floor  | na            | 12"x12" FT (white/grey)  | Floor   | N                      | -              | -                | -   | -                  | -               | -                        | -                                   | -        |
| Walls  | na            | Drywall panel  | Wall  | N                      | -              | -                | -   | -                  | -               | -                        | -                                   | -        |
|  | 1             | Texture coat plaster   | Wall  | N                      | -              | -                | -   | -                  | -               | -                        | -                                   | -        |
|  | 18            | Smooth plaster   | Wall  | Y                      | N              | 0.5-5% Tremolite | 32m <sup>2</sup>  | G                  | B               | O & M                    | B-4                                 | -        |
|  | 18            | Smooth plaster   | Wall  | Y                      | N              | 0.5-5% Tremolite | 1m <sup>2</sup>   | P                  | B               | 1 encapsulation          | B-4                                 | A45      |
| Ceiling  | 18            | Smooth plaster   | Wall  | Y                      | N              | 0.5-5% Tremolite | 54m <sup>2</sup>  | G                  | B               | O & M                    | B-4                                 | -        |
| Above Ceiling  | na            | -  | -   | -                      | -              | -                | -   | -                  | -               | -                        | -                                   | -        |
| Below Ceiling  | 8             | MJC FI   | Steam   | Y                      | Y              | > 75% Chrysotile | 1   | G                  | B               | O & M                    | B-1                                 | -        |
|  | 8             | MJC FI   | Condensate  | Y                      | Y              | > 75% Chrysotile | 4   | G                  | B               | O & M                    | B-1                                 | -        |
|  | na            | FG PI  | All   | N                      | -              | -                | -   | -                  | -               | -                        | -                                   | -        |
| <b>Material Description:</b><br>MJC: Mud Joint Compound<br>FI: Fitting Insulation:<br>PI: Pipe Insulation<br>DI: Duct Insulation<br>FG: Fibreglass<br>FT: Floor Tile<br>CT: Ceiling Tile |               |  | <b>Criteria for Condition of an ACM:</b><br>G: ACM is in GOOD condition; No damage<br>F: ACM is in FAIR condition; Less than 2% damage<br>P: ACM is in POOR condition; Greater than 2% damage |                        |                |                  | <b>Criteria for Access to an area containing ACM:</b><br>A: All building occupants may have access to this area.<br>B: Restricted to building staff only.<br>C: Areas of the building behind walls or ceiling system. |                    |                 |                          |                                     |          |



| <b>Building ID:</b><br>M23A  |               | <b>Notes:</b><br>The following samples were collected in this area: M23A-01E, M23A-04C, M23A-18B |   |                 |                |                   |                  |   |                 |                      | <b>Functional Space:</b><br>B026    |          |
|--|---------------|--|---|-----------------|----------------|-------------------|------------------|---|-----------------|----------------------|-------------------------------------|----------|
| <b>Date:</b><br>06-Oct-11  |               | No access above solid ceiling, ACMs may be present   |   |                 |                |                   |                  |   |                 |                      | <b>Location:</b><br>31 - Storage    |          |
| <b>Project #:</b><br>PR-08-043   |               | Chiller: 1 damaged mud joint compound fitting requires 1 encapsulation (1 unit) - see photo A20  |   |                 |                |                   |                  |   |                 |                      | <b>Inspector (s):</b><br>BM, JB, DJ |          |
|  |               | Aircell steam and condensate lines that are visible below ceiling continue above solid ceiling.  |   |                 |                |                   |                  |   |                 |                      |                                     |          |
| Building Materials:  |               |  |   | ACM Assessment: |                |                   |                  |   |                 |                      | Report Reference:                   |          |
| Location:  | Homo. Mat. #: | Material Description:  | System:   | ACM (Y/N):      | Friable (Y/N): | ACM Type:         | Quantity:        | Condition (G,F,P):  | Access (A,B,C): | Response / Comments: | Drawing #:                          | Photo #: |
| Floor  | 5             | 12"x12" FT (tan/brown)   | Floor   | N               | -              | -                 | -                | -   | -               | -                    | -                                   | -        |
|  |               |  |   |                 |                |                   |                  |   |                 |                      |                                     |          |
|  |               |  |   |                 |                |                   |                  |   |                 |                      |                                     |          |
| Walls  | na            | Drywall panel  | Wall  | N               | -              | -                 | -                | -   | -               | -                    | -                                   | -        |
|  | 1             | Texture coat plaster   | Wall  | N               | -              | -                 | -                | -   | -               | -                    | -                                   | -        |
|  | 18            | Smooth plaster   | Wall  | Y               | N              | 0.5-5% Tremolite  | 20m <sup>2</sup> | G   | B               | O & M                | B-4                                 | -        |
|  |               |  |   |                 |                |                   |                  |   |                 |                      |                                     |          |
| Ceiling  | 18            | Smooth plaster   | Ceiling   | Y               | N              | 0.5-5% Tremolite  | 52m <sup>2</sup> | G   | B               | O & M                | B-4                                 | -        |
|  |               |  |   |                 |                |                   |                  |   |                 |                      |                                     |          |
|  |               |  |   |                 |                |                   |                  |   |                 |                      |                                     |          |
| Above Ceiling  | na            | -  | -   | -               | -              | -                 | -                | -   | -               | -                    | -                                   | -        |
|  |               |  |   |                 |                |                   |                  |   |                 |                      |                                     |          |
|  |               |  |   |                 |                |                   |                  |   |                 |                      |                                     |          |
|  |               |  |   |                 |                |                   |                  |   |                 |                      |                                     |          |
| Below Ceiling  | 2             | MJC FI   | Chiller   | Y               | Y              | 50-75% Chrysotile | 1                | P   | B               | 1 encapsulation      | B-2                                 | A20      |
|  | 2             | MJC FI   | Chiller   | Y               | Y              | 50-75% Chrysotile | 3                | G   | B               | O & M                | B-1                                 | -        |
|  | 3             | Aircell PI   | Steam   | Y               | Y              | 50-75% Chrysotile | 1LM              | G   | B               | O & M                | B-1                                 | -        |
|  | na            | FG PI & FI   | Chiller   | N               | -              | -                 | -                | -   | -               | -                    | -                                   | -        |
|  | na            | FG PI & FI   | Steam   | N               | -              | -                 | -                | -   | -               | -                    | -                                   | -        |
|  | 8             | MJC FI   | Condensate  | Y               | Y              | > 75% Chrysotile  | 5                | G   | B               | O & M                | B-1                                 | -        |
|  | 3             | Aircell PI   | Condensate  | Y               | Y              | 50-75% Chrysotile | 0.5LM            | G   | B               | O & M                | B-1                                 | -        |
|  | na            | FG PI & FI   | Condensate  | N               | -              | -                 | -                | -   | -               | -                    | -                                   | -        |
|  |               |  |   |                 |                |                   |                  |   |                 |                      |                                     |          |
| <b>Material Description:</b><br>MJC: Mud Joint Compound<br>FI: Fitting Insulation:<br>PI: Pipe Insulation<br>DI: Duct Insulation<br>FG: Fibreglass<br>FT: Floor Tile<br>CT: Ceiling Tile |               |  | <b>Criteria for Condition of an ACM:</b><br>G: ACM is in GOOD condition; No damage<br>F: ACM is in FAIR condition; Less than 2% damage<br>P: ACM is in POOR condition; Greater than 2% damage |                 |                |                   |                  | <b>Criteria for Access to an area containing ACM:</b><br>A: All building occupants may have access to this area.<br>B: Restricted to building staff only.<br>C: Areas of the building behind walls or ceiling system. |                 |                      |                                     |          |



|                                |   |   |
|--------------------------------|---|---|
| <b>Building ID:</b><br>M23A    | Notes: Location: 10/27/27A - Crawlspace. The following samples were collected in this area: M23A-11A, M23A-12A, M23A-13(A-C)<br>Steam: 1 damaged section of magblock pipe insulation requires 1 encapsulation (.5LM) - see photo A21<br>ACM debris on floor (MJC FI - homo #8, with caution tape and sign) requires 1 removal (5m <sup>2</sup> ) - see photo A22<br>ACM debris on floor (magblock PI - homo #12, with caution tape and sign) requires 1 removal (5m <sup>2</sup> ) - see photo A23<br>Steam: 1 damaged mud joint compound fitting requires 1 encapsulation (1 unit) - see photo A24<br>HW Tank: 1 damaged section of grey tank insulation requires 1 encapsulation (.3m2) - see photo A24 (cont. next page) | <b>Functional Space:</b><br>B027 (p 1 of 2) |
| <b>Date:</b><br>06-Oct-11      |   | <b>Location:</b><br>See notes               |
| <b>Project #:</b><br>PR-08-043 |   | <b>Inspector (s):</b><br>BM, JB, DJ         |

| Building Materials: |               |                            |             | ACM Assessment: |                |                   |                   |                    |                 |                      | Report Reference: |               |
|---------------------|---------------|----------------------------|-------------|-----------------|----------------|-------------------|-------------------|--------------------|-----------------|----------------------|-------------------|---------------|
| Location:           | Homo. Mat. #: | Material Description:      | System:     | ACM (Y/N):      | Friable (Y/N): | ACM Type:         | Quantity:         | Condition (G,F,P): | Access (A,B,C): | Response / Comments: | Drawing #:        | Photo #:      |
| Floor               | na            | Concrete                   | Floor       | N               | -              | -                 | -                 | -                  | -               | -                    | -                 | -             |
| Walls               | na            | Concrete                   | Wall        | N               | -              | -                 | -                 | -                  | -               | -                    | -                 | -             |
| Ceiling             | na            | Metal                      | Ceiling     | N               | -              | -                 | -                 | -                  | -               | -                    | -                 | -             |
| Above Ceiling       | na            | -                          | -           | -               | -              | -                 | -                 | -                  | -               | -                    | -                 | -             |
| Below Ceiling       | 8             | FG with MJC                | Steam       | Y               | Y              | > 75% Chrysotile  | 163LM             | G                  | B               | O & M                | B-1               | -             |
|                     | 8             | MJC FI                     | Steam       | Y               | Y              | > 75% Chrysotile  | 151               | G                  | B               | O & M                | B-1               | -             |
|                     | 12            | Magblock PI                | Steam       | Y               | Y              | 15-30% Amosite    | 5LM               | G                  | B               | O & M                | B-1               | -             |
|                     | 8             | FG with MJC                | Condensate  | Y               | Y              | > 75% Chrysotile  | 133LM             | G                  | B               | O & M                | B-1               | -             |
|                     | 8             | MJC FI                     | Condensate  | Y               | Y              | > 75% Chrysotile  | 133               | G                  | B               | O & M                | B-1               | -             |
|                     | na            | FG PI                      | All         | N               | -              | -                 | -                 | -                  | -               | -                    | -                 | -             |
|                     | 2             | MJC FI                     | DCW         | Y               | Y              | 50-75% Chrysotile | 24                | G                  | B               | O & M                | B-1               | -             |
|                     | 10            | Sweatwrap w/white paper PI | DCW         | Y               | Y              | 50-75% Chrysotile | 15LM              | G                  | B               | O & M                | B-1               | -             |
|                     | 2             | MJC FI                     | DHW         | Y               | Y              | 50-75% Chrysotile | 26                | G                  | B               | O & M                | B-1               | -             |
|                     | 2             | MJC FI                     | Chiller     | Y               | Y              | 50-75% Chrysotile | 10                | G                  | B               | O & M                | B-1               | -             |
|                     | na            | FG PI & FI                 | DHW, DCW    | N               | -              | -                 | -                 | -                  | -               | -                    | -                 | -             |
|                     | 11            | Grey tank insulation       | HW Tank     | Y               | Y              | > 75% Chrysotile  | 8m2               | G                  | B               | O & M                | B-1               | -             |
|                     | 3             | Aircell PI                 | DHW         | Y               | Y              | 50-75% Chrysotile | 55LM              | G                  | B               | O & M                | B-1               | -             |
|                     | 2             | MJC FI                     | San. Drain  | Y               | Y              | 50-75% Chrysotile | 3                 | G                  | B               | O & M                | B-1               | -             |
|                     | na            | FG PI & FI                 | Stm, DH, DC | N               | -              | -                 | -                 | -                  | -               | -                    | -                 | -             |
|                     | 2             | MJC FI                     | Fire Water  | Y               | Y              | 50-75% Chrysotile | 1                 | G                  | B               | O & M                | B-1               | -             |
|                     | 3             | Aircell PI                 | DCW         | Y               | Y              | 50-75% Chrysotile | 6LM               | G                  | B               | O & M                | B-1               | -             |
|                     | 11            | Grey tank insulation       | HW Tank     | Y               | Y              | > 75% Chrysotile  | 0.3m <sup>2</sup> | P                  | B               | 1 encapsulation      | B-2               | A24           |
|                     | na            | Foam PI                    | Fire water  | N               | -              | -                 | -                 | -                  | -               | -                    | -                 | -             |
|                     | 12            | Magblock PI                | Steam       | Y               | Y              | 15-30% Amosite    | 0.5LM             | P                  | B               | 1 encapsulation      | B-2               | A21           |
|                     | 8             | MJC FI                     | Steam       | Y               | Y              | > 75% Chrysotile  | 2                 | P                  | B               | 2 encapsulations     | B-2               | A24, A28      |
|                     | 8             | MCJ FI                     | Steam       | Y               | Y              | > 75% Chrysotile  | 3                 | P                  | B               | 3 removals           | B-2               | A27, A29, A31 |
|                     | 3             | Aircell PI                 | Steam       | Y               | Y              | 50-75% Chrysotile | 0.5LM             | P                  | B               | 1 removal            | B-2               | A32           |

|  |   |   |
|--|---|---|
| <b>Material Description:</b><br>MJC: Mud Joint Compound<br>FI: Fitting Insulation:<br>PI: Pipe Insulation<br>DI: Duct Insulation<br>FG: Fibreglass<br>FT: Floor Tile<br>CT: Ceiling Tile | <b>Criteria for Condition of an ACM:</b><br>G: ACM is in GOOD condition; No damage<br>F: ACM is in FAIR condition; Less than 2% damage<br>P: ACM is in POOR condition; Greater than 2% damage | <b>Criteria for Access to an area containing ACM:</b><br>A: All building occupants may have access to this area.<br>B: Restricted to building staff only.<br>C: Areas of the building behind walls or ceiling system. |
|--|---|---|







| <b>Building ID:</b><br>M23A   |               | Notes:<br>The following samples were collected in this area: M23A-04D, M23A-18E |   |                 |                |                   |   |                    |                 |                      | <b>Functional Space:</b><br>1001    |          |
|---|---------------|---|---|-----------------|----------------|-------------------|---|--------------------|-----------------|----------------------|-------------------------------------|----------|
| <b>Date:</b><br>11-Oct-11   |               |   |   |                 |                |                   |   |                    |                 |                      | <b>Location:</b><br>Room 127        |          |
| <b>Project #:</b><br>PR-08-043  |               |   |   |                 |                |                   |   |                    |                 |                      | <b>Inspector (s):</b><br>BM, JB, DJ |          |
|   |               |   |   |                 |                |                   |   |                    |                 |                      |                                     |          |
| Building Materials:   |               |   |   | ACM Assessment: |                |                   |   |                    |                 | Report Reference:    |                                     |          |
| Location:   | Homo. Mat. #: | Material Description:   | System:   | ACM (Y/N):      | Friable (Y/N): | ACM Type:         | Quantity:   | Condition (G,F,P): | Access (A,B,C): | Response / Comments: | Drawing #:                          | Photo #: |
| Floor   | na            | 12"x12" FT (white/grey)   | Floor   | N               | -              | -                 | -   | -                  | -               | newer                | -                                   | -        |
|   |               |   |   |                 |                |                   |   |                    |                 |                      |                                     |          |
|   |               |   |   |                 |                |                   |   |                    |                 |                      |                                     |          |
| Walls   | 18            | Smooth plaster  | Wall  | Y               | N              | 0.5-5% Tremolite  | 82m <sup>2</sup>  | G                  | B               | O & M                | 1-4                                 | -        |
|   | na            | Drywall   | Wall  | N               | -              | -                 | -   | -                  | -               | newer                | -                                   | -        |
|   |               |   |   |                 |                |                   |   |                    |                 |                      |                                     |          |
|   |               |   |   |                 |                |                   |   |                    |                 |                      |                                     |          |
| Ceiling   | na            | 2'x4' CT (white strata)   | Ceiling   | N               | -              | -                 | -   | -                  | -               | -                    | -                                   | -        |
|   |               |   |   |                 |                |                   |   |                    |                 |                      |                                     |          |
|   |               |   |   |                 |                |                   |   |                    |                 |                      |                                     |          |
|   |               |   |   |                 |                |                   |   |                    |                 |                      |                                     |          |
| Above Ceiling   | na            | FG DI   | HVAC  | N               | -              | -                 | -   | -                  | -               | -                    | -                                   | -        |
|   | na            | FG PI & FI, Foam PI   | Chiller   | N               | -              | -                 | -   | -                  | -               | -                    | -                                   | -        |
|   | na            | Metal   | Ceiling   | N               | -              | -                 | -   | -                  | -               | -                    | -                                   | -        |
|   | 3             | Aircell PI  | Steam   | Y               | Y              | 50-75% Chrysotile | 9LM   | G                  | C               | O & M                | 1-1                                 | -        |
|   | 3             | Aircell PI  | Condensate  | Y               | Y              | 50-75% Chrysotile | 15LM  | G                  | C               | O & M                | 1-1                                 | -        |
|   | 8             | MJC FI  | Steam   | Y               | Y              | > 75% Chrysotile  | 7   | G                  | C               | O & M                | 1-1                                 | -        |
|   | 8             | MJC FI  | Condensate  | Y               | Y              | > 75% Chrysotile  | 6   | G                  | C               | O & M                | 1-1                                 | -        |
|   |               |   |   |                 |                |                   |   |                    |                 |                      |                                     |          |
|   |               |   |   |                 |                |                   |   |                    |                 |                      |                                     |          |
| Below Ceiling   | na            | -   | -   | -               | -              | -                 | -   | -                  | -               | -                    | -                                   | -        |
|   |               |   |   |                 |                |                   |   |                    |                 |                      |                                     |          |
|   |               |   |   |                 |                |                   |   |                    |                 |                      |                                     |          |
|   |               |   |   |                 |                |                   |   |                    |                 |                      |                                     |          |
| <b>Material Description:</b><br>MJC: Mud Joint Compound<br>FI: Fitting Insulation<br>PI: Pipe Insulation<br>DI: Duct Insulation<br>FG: Fibreglass<br>FT: Floor Tile<br>CT: Ceiling Tile |               |   | <b>Criteria for Condition of an ACM:</b><br>G: ACM is in GOOD condition; No damage<br>F: ACM is in FAIR condition; Less than 2% damage<br>P: ACM is in POOR condition; Greater than 2% damage |                 |                |                   | <b>Criteria for Access to an area containing ACM:</b><br>A: All building occupants may have access to this area.<br>B: Restricted to building staff only.<br>C: Areas of the building behind walls or ceiling system. |                    |                 |                      |                                     |          |



| <b>Building ID:</b><br>M23A  |               | Notes:<br>No access above solid plaster ceiling - ACMs may be present |   |                 |                |                   |                  |   |                 |                      | <b>Functional Space:</b><br>1002    |          |
|--|---------------|---|---|-----------------|----------------|-------------------|------------------|---|-----------------|----------------------|-------------------------------------|----------|
| <b>Date:</b><br>11-Oct-11  |               |   |   |                 |                |                   |                  |   |                 |                      | <b>Location:</b><br>Room 125        |          |
| <b>Project #:</b><br>PR-08-043   |               |   |   |                 |                |                   |                  |   |                 |                      | <b>Inspector (s):</b><br>BM, JB, DJ |          |
| Building Materials:  |               |   |   | ACM Assessment: |                |                   |                  |   |                 |                      | Report Reference:                   |          |
| Location:  | Homo. Mat. #: | Material Description:   | System:   | ACM (Y/N):      | Friable (Y/N): | ACM Type:         | Quantity:        | Condition (G,F,P):  | Access (A,B,C): | Response / Comments: | Drawing #:                          | Photo #: |
| Floor  | na            | 12"x12" FT (tan)  | Floor   | N               | -              | -                 | -                | -   | -               | newer                | -                                   | -        |
| Walls  | 18            | Smooth plaster  | Wall  | Y               | N              | 0.5-5% Tremolite  | 30m <sup>2</sup> | G   | B               | O & M                | 1-4                                 | -        |
|  | na            | Drywall   | Wall  | N               | -              | -                 | -                | -   | -               | newer                | -                                   | -        |
| Ceiling  | na            | 2'x4' CT (white strata)   | Ceiling   | N               | -              | -                 | -                | -   | -               | -                    | -                                   | -        |
| Above Ceiling  | na            | FG DI   | HVAC  | N               | -              | -                 | -                | -   | -               | -                    | -                                   | -        |
|  | na            | FG PI & FI, Foam PI   | Chiller   | N               | -              | -                 | -                | -   | -               | -                    | -                                   | -        |
|  | 18            | Smooth plaster  | Ceiling   | Y               | N              | 0.5-5% Tremolite  | 40m <sup>2</sup> | G   | C               | O & M                | 1-4                                 | -        |
|  | 2             | MJC FI  | Chiller   | Y               | Y              | 50-75% Chrysotile | 4                | G   | C               | O & M                | 1-1                                 | -        |
|  | 6             | FG w/MJC & tar paper DI   | HVAC  | Y               | Y              | > 75% Chrysotile  | 9m <sup>2</sup>  | G   | C               | O & M                | 1-1                                 | -        |
|  | 14            | Brown thermal patch   | Ceiling   | N               | -              | -                 | -                | -   | -               | -                    | -                                   | -        |
| Below Ceiling  | na            | FG PI & FI  | DCW, DHW  | N               | -              | -                 | -                | -   | -               | -                    | -                                   | -        |
| <b>Material Description:</b><br>MJC: Mud Joint Compound<br>FI: Fitting Insulation:<br>PI: Pipe Insulation<br>DI: Duct Insulation<br>FG: Fibreglass<br>FT: Floor Tile<br>CT: Ceiling Tile |               |   | <b>Criteria for Condition of an ACM:</b><br>G: ACM is in GOOD condition; No damage<br>F: ACM is in FAIR condition; Less than 2% damage<br>P: ACM is in POOR condition; Greater than 2% damage |                 |                |                   |                  | <b>Criteria for Access to an area containing ACM:</b><br>A: All building occupants may have access to this area.<br>B: Restricted to building staff only.<br>C: Areas of the building behind walls or ceiling system. |                 |                      |                                     |          |



| <b>Building ID:</b><br>M23A  |               | Notes:<br>The following samples were collected in this area: M23A-14A<br>No access above solid plaster ceiling - ACMs may be present<br>HVAC: 1 badly damaged section of FG w/mud HVAC insulation requires 1 removal (1m2) - see photo A34<br>ACM debris on ceiling tile (FG w/mud - homo #6) requires 1 removal (1m2) - see photo A34<br>Ceiling tile marked with pink X indicating locatio nof debris from photo A34 - see photo A35 |   |                        |                |                   |   |                    |                 |                          | <b>Functional Space:</b><br>1003    |          |
|--|---------------|--|---|------------------------|----------------|-------------------|---|--------------------|-----------------|--------------------------|-------------------------------------|----------|
| <b>Date:</b><br>11-Oct-11  |               |  |   |                        |                |                   |   |                    |                 |                          | <b>Location:</b><br>121 - Storage   |          |
| <b>Project #:</b><br>PR-08-043   |               |  |   |                        |                |                   |   |                    |                 |                          | <b>Inspector (s):</b><br>BM, JB, DJ |          |
|  |               |  |   |                        |                |                   |   |                    |                 |                          |                                     |          |
| <b>Building Materials:</b>   |               |  |   | <b>ACM Assessment:</b> |                |                   |   |                    |                 | <b>Report Reference:</b> |                                     |          |
| Location:  | Homo. Mat. #: | Material Description:  | System:   | ACM (Y/N):             | Friable (Y/N): | ACM Type:         | Quantity:   | Condition (G,F,P): | Access (A,B,C): | Response / Comments:     | Drawing #:                          | Photo #: |
| Floor  | na            | 12"x12" FT (white/grey)  | Floor   | N                      | -              | -                 | -   | -                  | -               | newer                    | -                                   | -        |
| Walls  | 18            | Smooth plaster   | Wall  | Y                      | N              | 0.5-5% Tremolite  | 37m <sup>2</sup>  | G                  | B               | O & M                    | 1-4                                 | -        |
|  | na            | Drywall  | Wall  | N                      | -              | -                 | -   | -                  | -               | newer                    | -                                   | -        |
| Ceiling  | na            | 2'x4' CT (white strata)  | Ceiling   | N                      | -              | -                 | -   | -                  | -               | -                        | -                                   | -        |
| Above Ceiling  | na            | FG DI  | HVAC  | N                      | -              | -                 | -   | -                  | -               | -                        | -                                   | -        |
|  | na            | FG PI & FI, Foam PI  | All   | N                      | -              | -                 | -   | -                  | -               | -                        | -                                   | -        |
|  | 18            | Smooth plaster   | Ceiling   | Y                      | N              | 0.5-5% Tremolite  | 60m <sup>2</sup>  | G                  | B               | O & M                    | 1-4                                 | -        |
|  | 2             | MJC FI   | Chiller   | Y                      | Y              | 50-75% Chrysotile | 18  | G                  | C               | O & M                    | 1-1                                 | -        |
|  | 6             | FG w/MJC & tar paper DI  | HVAC  | Y                      | Y              | > 75% Chrysotile  | 6m <sup>2</sup>   | G                  | C               | O & M                    | 1-1                                 | -        |
|  | 14            | Brown thermal patch  | Ceiling   | N                      | -              | -                 | -   | -                  | -               | -                        | -                                   | -        |
|  | 6             | FG w/MJC & tar paper DI  | HVAC  | Y                      | Y              | > 75% Chrysotile  | 1m <sup>2</sup>   | P                  | C               | 1 removal                | 1-2                                 | A34      |
| Below Ceiling  | na            | -  | -   | -                      | -              | -                 | -   | -                  | -               | -                        | -                                   | -        |
| <b>Material Description:</b><br>MJC: Mud Joint Compound<br>FI: Fitting Insulation:<br>PI: Pipe Insulation<br>DI: Duct Insulation<br>FG: Fibreglass<br>FT: Floor Tile<br>CT: Ceiling Tile |               |  | <b>Criteria for Condition of an ACM:</b><br>G: ACM is in GOOD condition; No damage<br>F: ACM is in FAIR condition; Less than 2% damage<br>P: ACM is in POOR condition; Greater than 2% damage |                        |                |                   | <b>Criteria for Access to an area containing ACM:</b><br>A: All building occupants may have access to this area.<br>B: Restricted to building staff only.<br>C: Areas of the building behind walls or ceiling system. |                    |                 |                          |                                     |          |





| <b>Building ID:</b><br>M23A<br><b>Date:</b><br>11-Oct-11<br><b>Project #:</b><br>PR-08-043   |               | Notes:<br>No access above solid plaster ceiling - ACMs may be present |   |                 |                |                  |   |                    |                 | <b>Functional Space:</b><br>1004<br><b>Location:</b><br>Room 119<br><b>Inspector (s):</b><br>BM, JB, DJ |            |          |
|--|---------------|---|---|-----------------|----------------|------------------|---|--------------------|-----------------|---|------------|----------|
| Building Materials:  |               |   |   | ACM Assessment: |                |                  |   |                    |                 | Report Reference:   |            |          |
| Location:  | Homo. Mat. #: | Material Description:   | System:   | ACM (Y/N):      | Friable (Y/N): | ACM Type:        | Quantity:   | Condition (G,F,P): | Access (A,B,C): | Response / Comments:  | Drawing #: | Photo #: |
| Floor  | na            | 12"x12" FT (white/grey)   | Floor   | N               | -              | -                | -   | -                  | -               | newer   | -          | -        |
| Walls  | 18            | Smooth plaster  | Wall  | Y               | N              | 0.5-5% Tremolite | 13m <sup>2</sup>  | G                  | B               | O & M   | 1-4        | -        |
|  | na            | Drywall   | Wall  | N               | -              | -                | -   | -                  | -               | newer   | -          | -        |
| Ceiling  | na            | 2'x4' CT (white strata)   | Ceiling   | N               | -              | -                | -   | -                  | -               | -   | -          | -        |
| Above Ceiling  | na            | FG DI   | HVAC  | N               | -              | -                | -   | -                  | -               | -   | -          | -        |
|  | na            | FG PI & FI  | All   | N               | -              | -                | -   | -                  | -               | -   | -          | -        |
|  | 18            | Smooth plaster  | Ceiling   | Y               | N              | 0.5-5% Tremolite | 19m <sup>2</sup>  | G                  | B               | O & M   | 1-4        | -        |
| Below Ceiling  | na            | -   | -   | -               | -              | -                | -   | -                  | -               | -   | -          | -        |
| <b>Material Description:</b><br>MJC: Mud Joint Compound<br>FI: Fitting Insulation:<br>PI: Pipe Insulation<br>DI: Duct Insulation<br>FG: Fibreglass<br>FT: Floor Tile<br>CT: Ceiling Tile |               |   | <b>Criteria for Condition of an ACM:</b><br>G: ACM is in GOOD condition; No damage<br>F: ACM is in FAIR condition; Less than 2% damage<br>P: ACM is in POOR condition; Greater than 2% damage |                 |                |                  | <b>Criteria for Access to an area containing ACM:</b><br>A: All building occupants may have access to this area.<br>B: Restricted to building staff only.<br>C: Areas of the building behind walls or ceiling system. |                    |                 |   |            |          |



| <b>Building ID:</b><br>M23A<br><b>Date:</b><br>11-Oct-11<br><b>Project #:</b><br>PR-08-043   |               |                         |   | Notes:<br>No access above solid plaster ceiling - ACMs may be present |                |                  |   |                    |                 |                      | <b>Functional Space:</b><br>1005<br><b>Location:</b><br>Room 117<br><b>Inspector (s):</b><br>BM, JB, DJ |          |
|--|---------------|-------------------------|---|---|----------------|------------------|---|--------------------|-----------------|----------------------|---|----------|
| Building Materials:  |               |                         |   | ACM Assessment:   |                |                  |   |                    |                 |                      | Report Reference:   |          |
| Location:  | Homo. Mat. #: | Material Description:   | System:   | ACM (Y/N):  | Friable (Y/N): | ACM Type:        | Quantity:   | Condition (G,F,P): | Access (A,B,C): | Response / Comments: | Drawing #:  | Photo #: |
| Floor  | na            | 12"x12" FT (white/grey) | Floor   | N   | -              | -                | -   | -                  | -               | newer                | -   | -        |
| Walls  | 18            | Smooth plaster          | Wall  | Y   | N              | 0.5-5% Tremolite | 35m <sup>2</sup>  | G                  | B               | O & M                | 1-4   | -        |
|  | na            | Drywall                 | Wall  | N   | -              | -                | -   | -                  | -               | newer                | -   | -        |
| Ceiling  | na            | 2'x4' CT (white strata) | Ceiling   | N   | -              | -                | -   | -                  | -               | -                    | -   | -        |
| Above Ceiling  | na            | FG PI & FI              | All   | N   | -              | -                | -   | -                  | -               | -                    | -   | -        |
|  | 18            | Smooth plaster          | Ceiling   | Y   | N              | 0.5-5% Tremolite | 19m <sup>2</sup>  | G                  | B               | O & M                | 1-4   | -        |
| Below Ceiling  | na            | FG PI & FI              | DCW, DHW  | N   | -              | -                | -   | -                  | -               | -                    | -   | -        |
| <b>Material Description:</b><br>MJC: Mud Joint Compound<br>FI: Fitting Insulation:<br>PI: Pipe Insulation<br>DI: Duct Insulation<br>FG: Fibreglass<br>FT: Floor Tile<br>CT: Ceiling Tile |               |                         | <b>Criteria for Condition of an ACM:</b><br>G: ACM is in GOOD condition; No damage<br>F: ACM is in FAIR condition; Less than 2% damage<br>P: ACM is in POOR condition; Greater than 2% damage |   |                |                  | <b>Criteria for Access to an area containing ACM:</b><br>A: All building occupants may have access to this area.<br>B: Restricted to building staff only.<br>C: Areas of the building behind walls or ceiling system. |                    |                 |                      |   |          |



| <b>Building ID:</b><br>M23A<br><b>Date:</b><br>11-Oct-11<br><b>Project #:</b><br>PR-08-043   |               |                         |   | Notes:<br>No access above solid plaster ceiling - ACMs may be present |                |                  |                  |   |                 |                      | <b>Functional Space:</b><br>1006<br><b>Location:</b><br>Rooms 113/115<br><b>Inspector (s):</b><br>BM, JB, DJ |          |
|--|---------------|-------------------------|---|---|----------------|------------------|------------------|---|-----------------|----------------------|--|----------|
| Building Materials:  |               |                         |   | ACM Assessment:   |                |                  |                  |   |                 |                      | Report Reference:  |          |
| Location:  | Homo. Mat. #: | Material Description:   | System:   | ACM (Y/N):  | Friable (Y/N): | ACM Type:        | Quantity:        | Condition (G,F,P):  | Access (A,B,C): | Response / Comments: | Drawing #:   | Photo #: |
| Floor  | na            | 12"x12" FT (white/grey) | Floor   | N   | -              | -                | -                | -   | -               | newer                | -  | -        |
| Walls  | 18            | Smooth plaster          | Wall  | Y   | N              | 0.5-5% Tremolite | 31m <sup>2</sup> | G   | B               | O & M                | 1-4  | -        |
|  | na            | Drywall                 | Wall  | N   | -              | -                | -                | -   | -               | newer                | -  | -        |
| Ceiling  | na            | 2'x4' CT (white strata) | Ceiling   | N   | -              | -                | -                | -   | -               | -                    | -  | -        |
| Above Ceiling  | na            | FG PI, FI & DI          | All   | N   | -              | -                | -                | -   | -               | -                    | -  | -        |
|  | 18            | Smooth plaster          | Ceiling   | Y   | N              | 0.5-5% Tremolite | 42m <sup>2</sup> | G   | B               | O & M                | 1-4  | -        |
| Below Ceiling  | na            | -                       | -   | -   | -              | -                | -                | -   | -               | -                    | -  | -        |
| <b>Material Description:</b><br>MJC: Mud Joint Compound<br>FI: Fitting Insulation:<br>PI: Pipe Insulation<br>DI: Duct Insulation<br>FG: Fibreglass<br>FT: Floor Tile<br>CT: Ceiling Tile |               |                         | <b>Criteria for Condition of an ACM:</b><br>G: ACM is in GOOD condition; No damage<br>F: ACM is in FAIR condition; Less than 2% damage<br>P: ACM is in POOR condition; Greater than 2% damage |   |                |                  |                  | <b>Criteria for Access to an area containing ACM:</b><br>A: All building occupants may have access to this area.<br>B: Restricted to building staff only.<br>C: Areas of the building behind walls or ceiling system. |                 |                      |  |          |



| <b>Building ID:</b><br>M23A<br><b>Date:</b><br>11-Oct-11<br><b>Project #:</b><br>PR-08-043   |               | Notes:<br>No access above solid plaster ceiling - ACMs may be present<br><br>Location: 111 - Photocopy room |   |                 |                |                  |   |                    |                 | <b>Functional Space:</b><br>1007<br><b>Location:</b><br>See notes<br><b>Inspector (s):</b><br>BM, JB, DJ |            |          |
|--|---------------|---|---|-----------------|----------------|------------------|---|--------------------|-----------------|--|------------|----------|
| Building Materials:  |               |   |   | ACM Assessment: |                |                  |   |                    |                 | Report Reference:  |            |          |
| Location:  | Homo. Mat. #: | Material Description:   | System:   | ACM (Y/N):      | Friable (Y/N): | ACM Type:        | Quantity:   | Condition (G,F,P): | Access (A,B,C): | Response / Comments:   | Drawing #: | Photo #: |
| Floor  | na            | 12"x12" FT (white/grey)   | Floor   | N               | -              | -                | -   | -                  | -               | newer  | -          | -        |
| Walls  | na            | Drywall   | Wall  | N               | -              | -                | -   | -                  | -               | newer  | -          | -        |
|  | 18            | Smooth plaster  | Wall  | Y               | N              | 0.5-5% Tremolite | 5m <sup>2</sup>   | G                  | B               | O & M  | 1-4        | -        |
| Ceiling  | na            | 2'x4' CT (white strata)   | Ceiling   | N               | -              | -                | -   | -                  | -               | -  | -          | -        |
| Above Ceiling  | na            | FG PI, FI & DI  | All   | N               | -              | -                | -   | -                  | -               | -  | -          | -        |
|  | 18            | Smooth plaster  | Ceiling   | Y               | N              | 0.5-5% Tremolite | 10m <sup>2</sup>  | G                  | B               | O & M  | 1-4        | -        |
| Below Ceiling  | na            | -   | -   | -               | -              | -                | -   | -                  | -               | -  | -          | -        |
| <b>Material Description:</b><br>MJC: Mud Joint Compound<br>FI: Fitting Insulation:<br>PI: Pipe Insulation<br>DI: Duct Insulation<br>FG: Fibreglass<br>FT: Floor Tile<br>CT: Ceiling Tile |               |   | <b>Criteria for Condition of an ACM:</b><br>G: ACM is in GOOD condition; No damage<br>F: ACM is in FAIR condition; Less than 2% damage<br>P: ACM is in POOR condition; Greater than 2% damage |                 |                |                  | <b>Criteria for Access to an area containing ACM:</b><br>A: All building occupants may have access to this area.<br>B: Restricted to building staff only.<br>C: Areas of the building behind walls or ceiling system. |                    |                 |  |            |          |



| <b>Building ID:</b><br>M23A  |               | Notes:<br>No access above solid plaster ceiling - ACMs may be present<br>Residual adhesive from old acoustic tile is present on plaster ceiling |   |                 |                |                  |                  |   |                 |                      | <b>Functional Space:</b><br>1008    |          |
|--|---------------|---|---|-----------------|----------------|------------------|------------------|---|-----------------|----------------------|-------------------------------------|----------|
| <b>Date:</b><br>11-Oct-11  |               |   |   |                 |                |                  |                  |   |                 |                      | <b>Location:</b><br>109 - Lunchroom |          |
| <b>Project #:</b><br>PR-08-043   |               |   |   |                 |                |                  |                  |   |                 |                      | <b>Inspector (s):</b><br>BM, JB, DJ |          |
| Building Materials:  |               |   |   | ACM Assessment: |                |                  |                  |   |                 | Report Reference:    |                                     |          |
| Location:  | Homo. Mat. #: | Material Description:   | System:   | ACM (Y/N):      | Friable (Y/N): | ACM Type:        | Quantity:        | Condition (G,F,P):  | Access (A,B,C): | Response / Comments: | Drawing #:                          | Photo #: |
| Floor  | na            | 12"x12" FT (white/grey)   | Floor   | N               | -              | -                | -                | -   | -               | newer                | -                                   | -        |
| Walls  | 18            | Smooth plaster  | Wall  | Y               | N              | 0.5-5% Tremolite | 14m <sup>2</sup> | G   | B               | O & M                | 1-4                                 | -        |
|  | na            | Drywall   | Wall  | N               | -              | -                | -                | -   | -               | newer                | -                                   | -        |
| Ceiling  | na            | 2'x4' CT (white strata)   | Ceiling   | N               | -              | -                | -                | -   | -               | -                    | -                                   | -        |
| Above Ceiling  | na            | FG PI, FI & DI  | All   | N               | -              | -                | -                | -   | -               | -                    | -                                   | -        |
|  | 18            | Smooth plaster  | Ceiling   | Y               | N              | 0.5-5% Tremolite | 19m <sup>2</sup> | G   | B               | O & M                | 1-4                                 | -        |
| Below Ceiling  | na            | -   | -   | -               | -              | -                | -                | -   | -               | -                    | -                                   | -        |
| <b>Material Description:</b><br>MJC: Mud Joint Compound<br>FI: Fitting Insulation:<br>PI: Pipe Insulation<br>DI: Duct Insulation<br>FG: Fibreglass<br>FT: Floor Tile<br>CT: Ceiling Tile |               |   | <b>Criteria for Condition of an ACM:</b><br>G: ACM is in GOOD condition; No damage<br>F: ACM is in FAIR condition; Less than 2% damage<br>P: ACM is in POOR condition; Greater than 2% damage |                 |                |                  |                  | <b>Criteria for Access to an area containing ACM:</b><br>A: All building occupants may have access to this area.<br>B: Restricted to building staff only.<br>C: Areas of the building behind walls or ceiling system. |                 |                      |                                     |          |







| <b>Building ID:</b><br>M23A<br><b>Date:</b><br>11-Oct-11<br><b>Project #:</b><br>PR-08-043   |               | Notes:<br>No access above solid plaster ceiling - ACMs may be present |   |                 |                |                  |                  |   |                 |                      | <b>Functional Space:</b><br>1011<br><b>Location:</b><br>Janitors Room<br><b>Inspector (s):</b><br>BM, JB, DJ |          |
|--|---------------|---|---|-----------------|----------------|------------------|------------------|---|-----------------|----------------------|--|----------|
| Building Materials:  |               |   |   | ACM Assessment: |                |                  |                  |   |                 |                      | Report Reference:  |          |
| Location:  | Homo. Mat. #: | Material Description:   | System:   | ACM (Y/N):      | Friable (Y/N): | ACM Type:        | Quantity:        | Condition (G,F,P):  | Access (A,B,C): | Response / Comments: | Drawing #:   | Photo #: |
| Floor  | 9             | 9"x9" FT (red/gold)   | Floor   | Y               | N              | Suspect          | 6m <sup>2</sup>  | G   | B               | O & M                | 1-1  | -        |
| Walls  | 18            | Smooth plaster  | Wall  | Y               | N              | 0.5-5% Tremolite | 10m <sup>2</sup> | G   | B               | O & M                | 1-4  | -        |
| Ceiling  | 18            | Smooth plaster  | Ceiling   | Y               | N              | 0.5-5% Tremolite | 6m <sup>2</sup>  | G   | B               | O & M                | 1-4  | -        |
| Above Ceiling  | na            | -   | -   | -               | -              | -                | -                | -   | -               | -                    | -  | -        |
| Below Ceiling  | na            | -   | -   | -               | -              | -                | -                | -   | -               | -                    | -  | -        |
| <b>Material Description:</b><br>MJC: Mud Joint Compound<br>FI: Fitting Insulation:<br>PI: Pipe Insulation<br>DI: Duct Insulation<br>FG: Fibreglass<br>FT: Floor Tile<br>CT: Ceiling Tile |               |   | <b>Criteria for Condition of an ACM:</b><br>G: ACM is in GOOD condition; No damage<br>F: ACM is in FAIR condition; Less than 2% damage<br>P: ACM is in POOR condition; Greater than 2% damage |                 |                |                  |                  | <b>Criteria for Access to an area containing ACM:</b><br>A: All building occupants may have access to this area.<br>B: Restricted to building staff only.<br>C: Areas of the building behind walls or ceiling system. |                 |                      |  |          |







| <b>Building ID:</b><br>M23A<br><b>Date:</b><br>11-Oct-11<br><b>Project #:</b><br>PR-08-043   |               | <b>Notes:</b><br>No access above solid plaster ceiling - ACMs may be present<br>ACM pipes are visible above through small hole in suspended plaster ceiling - not inspected |   |                 |                |                  |   |                    |                 |                      | <b>Functional Space:</b><br>1013<br><b>Location:</b><br>104 - Storage<br><b>Inspector (s):</b><br>BM, JB, DJ |          |
|--|---------------|---|---|-----------------|----------------|------------------|---|--------------------|-----------------|----------------------|--|----------|
| Building Materials:  |               |   |   | ACM Assessment: |                |                  |   |                    |                 | Report Reference:    |  |          |
| Location:  | Homo. Mat. #: | Material Description:   | System:   | ACM (Y/N):      | Friable (Y/N): | ACM Type:        | Quantity:   | Condition (G,F,P): | Access (A,B,C): | Response / Comments: | Drawing #:   | Photo #: |
| Floor  | na            | Terrazzo  | Floor   | N               | -              | -                | -   | -                  | -               | -                    | -  | -        |
| Walls  | 18            | Smooth plaster  | Wall  | Y               | N              | 0.5-5% Tremolite | 10m <sup>2</sup>  | G                  | B               | O & M                | 1-4  | -        |
| Ceiling  | 18            | Smooth plaster  | Ceiling   | Y               | N              | 0.5-5% Tremolite | 10m <sup>2</sup>  | G                  | B               | O & M                | 1-4  | -        |
| Above Ceiling  | na            | -   | -   | -               | -              | -                | -   | -                  | -               | -                    | -  | -        |
| Below Ceiling  | na            | FG PI & FI  | All   | N               | -              | -                | -   | -                  | -               | -                    | -  | -        |
| <b>Material Description:</b><br>MJC: Mud Joint Compound<br>FI: Fitting Insulation:<br>PI: Pipe Insulation<br>DI: Duct Insulation<br>FG: Fibreglass<br>FT: Floor Tile<br>CT: Ceiling Tile |               |   | <b>Criteria for Condition of an ACM:</b><br>G: ACM is in GOOD condition; No damage<br>F: ACM is in FAIR condition; Less than 2% damage<br>P: ACM is in POOR condition; Greater than 2% damage |                 |                |                  | <b>Criteria for Access to an area containing ACM:</b><br>A: All building occupants may have access to this area.<br>B: Restricted to building staff only.<br>C: Areas of the building behind walls or ceiling system. |                    |                 |                      |  |          |











| <b>Building ID:</b><br>M23A<br><b>Date:</b><br>11-Oct-11<br><b>Project #:</b><br>PR-08-043   |               |                              |   | Notes:<br>No access above solid plaster ceiling - ACMs may be present |                |                  |   |                    |                 |                      | <b>Functional Space:</b><br>1018<br><b>Location:</b><br>Room 114<br><b>Inspector (s):</b><br>BM, JB, DJ |          |
|--|---------------|------------------------------|---|---|----------------|------------------|---|--------------------|-----------------|----------------------|---|----------|
| Building Materials:  |               |                              |   | ACM Assessment:   |                |                  |   |                    |                 |                      | Report Reference:   |          |
| Location:  | Homo. Mat. #: | Material Description:        | System:   | ACM (Y/N):  | Friable (Y/N): | ACM Type:        | Quantity:   | Condition (G,F,P): | Access (A,B,C): | Response / Comments: | Drawing #:  | Photo #: |
| Floor  | na            | Blue carpet                  | Floor   | N   | -              | -                | -   | -                  | -               | -                    | -   | -        |
|  | 15            | 12"x12" FT (lt grey/dk grey) | Floor   | N   | -              | -                | -   | -                  | -               | -                    | -   | -        |
| Walls  | 18            | Smooth plaster               | Wall  | Y   | N              | 0.5-5% Tremolite | 30m <sup>2</sup>  | G                  | B               | O & M                | 1-4   | -        |
|  | na            | Drywall                      | Wall  | N   | -              | -                | -   | -                  | -               | newer                | -   | -        |
| Ceiling  | na            | 2'x4' CT (white strata)      | Ceiling   | N   | -              | -                | -   | -                  | -               | -                    | -   | -        |
| Above Ceiling  | na            | FG PI, FI & DI               | All   | N   | -              | -                | -   | -                  | -               | -                    | -   | -        |
|  | 18            | Smooth plaster               | Ceiling   | Y   | N              | 0.5-5% Tremolite | 16m <sup>2</sup>  | G                  | B               | O & M                | 1-4   | -        |
| Below Ceiling  | na            | -                            | -   | -   | -              | -                | -   | -                  | -               | -                    | -   | -        |
| <b>Material Description:</b><br>MJC: Mud Joint Compound<br>FI: Fitting Insulation:<br>PI: Pipe Insulation<br>DI: Duct Insulation<br>FG: Fibreglass<br>FT: Floor Tile<br>CT: Ceiling Tile |               |                              | <b>Criteria for Condition of an ACM:</b><br>G: ACM is in GOOD condition; No damage<br>F: ACM is in FAIR condition; Less than 2% damage<br>P: ACM is in POOR condition; Greater than 2% damage |   |                |                  | <b>Criteria for Access to an area containing ACM:</b><br>A: All building occupants may have access to this area.<br>B: Restricted to building staff only.<br>C: Areas of the building behind walls or ceiling system. |                    |                 |                      |   |          |



| <b>Building ID:</b><br>M23A<br><b>Date:</b><br>11-Oct-11<br><b>Project #:</b><br>PR-08-043   |               | Notes:<br>No access above solid plaster ceiling - ACMs may be present<br><br>Location: 116 - Meeting room |   |                 |                |                  |   |                    |                 | <b>Functional Space:</b><br>1019<br><b>Location:</b><br>See notes<br><b>Inspector (s):</b><br>BM, JB, DJ |            |          |
|--|---------------|---|---|-----------------|----------------|------------------|---|--------------------|-----------------|--|------------|----------|
| Building Materials:  |               |   |   | ACM Assessment: |                |                  |   |                    |                 | Report Reference:  |            |          |
| Location:  | Homo. Mat. #: | Material Description:   | System:   | ACM (Y/N):      | Friable (Y/N): | ACM Type:        | Quantity:   | Condition (G,F,P): | Access (A,B,C): | Response / Comments:   | Drawing #: | Photo #: |
| Floor  | na            | Blue carpet   | Floor   | N               | -              | -                | -   | -                  | -               | -  | -          | -        |
|  | 15            | 12"x12" FT (lt grey/dk grey)  | Floor   | N               | -              | -                | -   | -                  | -               | -  | -          | -        |
| Walls  | 18            | Smooth plaster  | Wall  | Y               | N              | 0.5-5% Tremolite | 14m <sup>2</sup>  | G                  | B               | O & M  | 1-4        | -        |
|  | na            | Drywall   | Wall  | N               | -              | -                | -   | -                  | -               | newer  | -          | -        |
| Ceiling  | na            | 2'x4' CT (white strata)   | Ceiling   | N               | -              | -                | -   | -                  | -               | -  | -          | -        |
| Above Ceiling  | na            | FG PI, FI & DI  | All   | N               | -              | -                | -   | -                  | -               | -  | -          | -        |
|  | 18            | Smooth plaster  | Ceiling   | Y               | N              | 0.5-5% Tremolite | 16m <sup>2</sup>  | G                  | B               | O & M  | 1-4        | -        |
| Below Ceiling  | na            | -   | -   | -               | -              | -                | -   | -                  | -               | -  | -          | -        |
| <b>Material Description:</b><br>MJC: Mud Joint Compound<br>FI: Fitting Insulation:<br>PI: Pipe Insulation<br>DI: Duct Insulation<br>FG: Fibreglass<br>FT: Floor Tile<br>CT: Ceiling Tile |               |   | <b>Criteria for Condition of an ACM:</b><br>G: ACM is in GOOD condition; No damage<br>F: ACM is in FAIR condition; Less than 2% damage<br>P: ACM is in POOR condition; Greater than 2% damage |                 |                |                  | <b>Criteria for Access to an area containing ACM:</b><br>A: All building occupants may have access to this area.<br>B: Restricted to building staff only.<br>C: Areas of the building behind walls or ceiling system. |                    |                 |  |            |          |





| <b>Building ID:</b><br>M23A  |               | <b>Notes:</b><br>The following samples were collected in this area: M23A-15(A-C) |   |                 |                |                   |                  |   |                 |                      | <b>Functional Space:</b><br>1020    |          |
|--|---------------|--|---|-----------------|----------------|-------------------|------------------|---|-----------------|----------------------|-------------------------------------|----------|
| <b>Date:</b><br>11-Oct-11  |               | No access above solid plaster ceiling - ACMs may be present                      |   |                 |                |                   |                  |   |                 |                      | <b>Location:</b><br>Room 118        |          |
| <b>Project #:</b><br>PR-08-043   |               |  |   |                 |                |                   |                  |   |                 |                      | <b>Inspector (s):</b><br>BM, JB, DJ |          |
| Building Materials:  |               |  |   | ACM Assessment: |                |                   |                  |   |                 |                      | Report Reference:                   |          |
| Location:  | Homo. Mat. #: | Material Description:  | System:   | ACM (Y/N):      | Friable (Y/N): | ACM Type:         | Quantity:        | Condition (G,F,P):  | Access (A,B,C): | Response / Comments: | Drawing #:                          | Photo #: |
| Floor  | 15            | 12"x12" FT (lt grey/dk grey)   | Floor   | N               | -              | -                 | -                | -   | -               | -                    | -                                   | -        |
| Walls  | 18            | Smooth plaster   | Wall  | Y               | N              | 0.5-5% Tremolite  | 31m <sup>2</sup> | G   | B               | O & M                | 1-4                                 | -        |
|  | na            | Drywall  | Wall  | N               | -              | -                 | -                | -   | -               | newer                | -                                   | -        |
| Ceiling  | na            | 2'x4' CT (white strata)  | Ceiling   | N               | -              | -                 | -                | -   | -               | -                    | -                                   | -        |
| Above Ceiling  | na            | FG PI, FI & DI   | All   | N               | -              | -                 | -                | -   | -               | -                    | -                                   | -        |
|  | 18            | Smooth plaster   | Ceiling   | Y               | N              | 0.5-5% Tremolite  | 32m <sup>2</sup> | G   | B               | O & M                | 1-4                                 | -        |
|  | 2             | MJC FI   | Chiller   | Y               | Y              | 50-75% Chrysotile | 5                | G   | C               | O & M                | 1-1                                 | -        |
| Below Ceiling  | na            | -  | -   | -               | -              | -                 | -                | -   | -               | -                    | -                                   | -        |
| <b>Material Description:</b><br>MJC: Mud Joint Compound<br>FI: Fitting Insulation:<br>PI: Pipe Insulation<br>DI: Duct Insulation<br>FG: Fibreglass<br>FT: Floor Tile<br>CT: Ceiling Tile |               |  | <b>Criteria for Condition of an ACM:</b><br>G: ACM is in GOOD condition; No damage<br>F: ACM is in FAIR condition; Less than 2% damage<br>P: ACM is in POOR condition; Greater than 2% damage |                 |                |                   |                  | <b>Criteria for Access to an area containing ACM:</b><br>A: All building occupants may have access to this area.<br>B: Restricted to building staff only.<br>C: Areas of the building behind walls or ceiling system. |                 |                      |                                     |          |



| <b>Building ID:</b><br>M23A<br><b>Date:</b><br>11-Oct-11<br><b>Project #:</b><br>PR-08-043   |               | Notes:<br>No access above solid plaster ceiling - ACMs may be present |   |                 |                |                  |   |                    |                 |                      | <b>Functional Space:</b><br>1021<br><b>Location:</b><br>Room 122<br><b>Inspector (s):</b><br>BM, JB, DJ |          |
|--|---------------|---|---|-----------------|----------------|------------------|---|--------------------|-----------------|----------------------|---|----------|
| Building Materials:  |               |   |   | ACM Assessment: |                |                  |   |                    |                 |                      | Report Reference:   |          |
| Location:  | Homo. Mat. #: | Material Description:   | System:   | ACM (Y/N):      | Friable (Y/N): | ACM Type:        | Quantity:   | Condition (G,F,P): | Access (A,B,C): | Response / Comments: | Drawing #:  | Photo #: |
| Floor  | 15            | 12"x12" FT (lt grey/dk grey)  | Floor   | N               | -              | -                | -   | -                  | -               | -                    | -   | -        |
| Walls  | 18            | Smooth plaster  | Wall  | Y               | N              | 0.5-5% Tremolite | 16m <sup>2</sup>  | G                  | B               | O & M                | 1-4   | -        |
|  | na            | Drywall   | Wall  | N               | -              | -                | -   | -                  | -               | newer                | -   | -        |
| Ceiling  | na            | 2'x4' CT (white strata)   | Ceiling   | N               | -              | -                | -   | -                  | -               | -                    | -   | -        |
| Above Ceiling  | na            | FG PI, FI & DI  | All   | N               | -              | -                | -   | -                  | -               | -                    | -   | -        |
|  | 18            | Smooth plaster  | Ceiling   | Y               | N              | 0.5-5% Tremolite | 16m <sup>2</sup>  | G                  | B               | O & M                | 1-4   | -        |
| Below Ceiling  | na            | FG PI   | Chiller   | N               | -              | -                | -   | -                  | -               | -                    | -   | -        |
| <b>Material Description:</b><br>MJC: Mud Joint Compound<br>FI: Fitting Insulation:<br>PI: Pipe Insulation<br>DI: Duct Insulation<br>FG: Fibreglass<br>FT: Floor Tile<br>CT: Ceiling Tile |               |   | <b>Criteria for Condition of an ACM:</b><br>G: ACM is in GOOD condition; No damage<br>F: ACM is in FAIR condition; Less than 2% damage<br>P: ACM is in POOR condition; Greater than 2% damage |                 |                |                  | <b>Criteria for Access to an area containing ACM:</b><br>A: All building occupants may have access to this area.<br>B: Restricted to building staff only.<br>C: Areas of the building behind walls or ceiling system. |                    |                 |                      |   |          |





| <b>Building ID:</b><br>M23A  |               | Notes:<br>No access above solid plaster ceiling - ACMs may be present |   |                 |                |                   |                  |   |                 |                      | <b>Functional Space:</b><br>1023    |          |
|--|---------------|---|---|-----------------|----------------|-------------------|------------------|---|-----------------|----------------------|-------------------------------------|----------|
| <b>Date:</b><br>12-Oct-11  |               |   |   |                 |                |                   |                  |   |                 |                      | <b>Location:</b><br>130/134 - QBM   |          |
| <b>Project #:</b><br>PR-08-043   |               |   |   |                 |                |                   |                  |   |                 |                      | <b>Inspector (s):</b><br>BM, JB, DJ |          |
| Building Materials:  |               |   |   | ACM Assessment: |                |                   |                  |   |                 |                      | Report Reference:                   |          |
| Location:  | Homo. Mat. #: | Material Description:   | System:   | ACM (Y/N):      | Friable (Y/N): | ACM Type:         | Quantity:        | Condition (G,F,P):  | Access (A,B,C): | Response / Comments: | Drawing #:                          | Photo #: |
| Floor  | na            | 12"x12" FT (white/grey)   | Floor   | N               | -              | -                 | -                | -   | -               | newer                | -                                   | -        |
| Walls  | 18            | Smooth plaster  | Wall  | Y               | N              | 0.5-5% Tremolite  | 38m <sup>2</sup> | G   | B               | O & M                | 1-4                                 | -        |
|  | na            | Drywall   | Wall  | N               | -              | -                 | -                | -   | -               | -                    | -                                   | -        |
| Ceiling  | na            | 2'x4' CT (white strata)   | Ceiling   | N               | -              | -                 | -                | -   | -               | -                    | -                                   | -        |
| Above Ceiling  | na            | FG PI, FI & DI  | All   | N               | -              | -                 | -                | -   | -               | -                    | -                                   | -        |
|  | 2             | MJC FI  | Chiller   | Y               | Y              | 50-75% Chrysotile | 10               | G   | C               | O & M                | 1-1                                 | -        |
|  | 18            | Smooth plaster  | Ceiling   | Y               | N              | 0.5-5% Tremolite  | 49m <sup>2</sup> | G   | B               | O & M                | 1-4                                 | -        |
|  | na            | Foam PI   | Chiller   | N               | -              | -                 | -                | -   | -               | -                    | -                                   | -        |
| Below Ceiling  | na            | FG PI, FI & DI  | All   | N               | -              | -                 | -                | -   | -               | -                    | -                                   | -        |
| <b>Material Description:</b><br>MJC: Mud Joint Compound<br>FI: Fitting Insulation:<br>PI: Pipe Insulation<br>DI: Duct Insulation<br>FG: Fibreglass<br>FT: Floor Tile<br>CT: Ceiling Tile |               |   | <b>Criteria for Condition of an ACM:</b><br>G: ACM is in GOOD condition; No damage<br>F: ACM is in FAIR condition; Less than 2% damage<br>P: ACM is in POOR condition; Greater than 2% damage |                 |                |                   |                  | <b>Criteria for Access to an area containing ACM:</b><br>A: All building occupants may have access to this area.<br>B: Restricted to building staff only.<br>C: Areas of the building behind walls or ceiling system. |                 |                      |                                     |          |





| <b>Building ID:</b><br>M23A  |               | Notes:                  |   |                 |                |                   |   |                    |                 |                      | <b>Functional Space:</b><br>1025    |          |
|--|---------------|-------------------------|---|-----------------|----------------|-------------------|---|--------------------|-----------------|----------------------|-------------------------------------|----------|
| <b>Date:</b><br>12-Oct-11  |               |                         |   |                 |                |                   |   |                    |                 |                      | <b>Location:</b><br>135 - QBM       |          |
| <b>Project #:</b><br>PR-08-043   |               |                         |   |                 |                |                   |   |                    |                 |                      | <b>Inspector (s):</b><br>BM, JB, DJ |          |
| Building Materials:  |               |                         |   | ACM Assessment: |                |                   |   |                    |                 | Report Reference:    |                                     |          |
| Location:  | Homo. Mat. #: | Material Description:   | System:   | ACM (Y/N):      | Friable (Y/N): | ACM Type:         | Quantity:   | Condition (G,F,P): | Access (A,B,C): | Response / Comments: | Drawing #:                          | Photo #: |
| Floor  | na            | 12"x12" FT (white/grey) | Floor   | N               | -              | -                 | -   | -                  | -               | newer                | -                                   | -        |
| Walls  | 18            | Smooth plaster          | Wall  | Y               | N              | 0.5-5% Tremolite  | 18m <sup>2</sup>  | G                  | B               | O & M                | 1-4                                 | -        |
|  | na            | Drywall                 | Wall  | N               | -              | -                 | -   | -                  | -               | -                    | -                                   | -        |
| Ceiling  | na            | 2'x4' CT (white strata) | Ceiling   | N               | -              | -                 | -   | -                  | -               | -                    | -                                   | -        |
| Above Ceiling  | na            | FG PI, FI & DI          | All   | N               | -              | -                 | -   | -                  | -               | -                    | -                                   | -        |
|  | 2             | MJC FI                  | Chiller   | Y               | Y              | 50-75% Chrysotile | 1   | G                  | C               | O & M                | 1-1                                 | -        |
|  | na            | Foam PI                 | Chiller   | N               | -              | -                 | -   | -                  | -               | -                    | -                                   | -        |
|  | na            | Metal                   | Ceiling   | N               | -              | -                 | -   | -                  | -               | -                    | -                                   | -        |
|  | 18            | Smooth plaster          | Ceiling   | Y               | N              | 0.5-5% Tremolite  | 16m <sup>2</sup>  | G                  | B               | O & M                | 1-4                                 | -        |
| Below Ceiling  | na            | FG PI & FI              | All   | N               | -              | -                 | -   | -                  | -               | -                    | -                                   | -        |
| <b>Material Description:</b><br>MJC: Mud Joint Compound<br>FI: Fitting Insulation:<br>PI: Pipe Insulation<br>DI: Duct Insulation<br>FG: Fibreglass<br>FT: Floor Tile<br>CT: Ceiling Tile |               |                         | <b>Criteria for Condition of an ACM:</b><br>G: ACM is in GOOD condition; No damage<br>F: ACM is in FAIR condition; Less than 2% damage<br>P: ACM is in POOR condition; Greater than 2% damage |                 |                |                   | <b>Criteria for Access to an area containing ACM:</b><br>A: All building occupants may have access to this area.<br>B: Restricted to building staff only.<br>C: Areas of the building behind walls or ceiling system. |                    |                 |                      |                                     |          |









| <b>Building ID:</b><br>M23A  |               | Notes:<br>No access above solid plaster ceiling - ACMs may be present |   |                 |                |                  |                  |   |                 |                      | <b>Functional Space:</b><br>1028    |          |
|--|---------------|---|---|-----------------|----------------|------------------|------------------|---|-----------------|----------------------|-------------------------------------|----------|
| <b>Date:</b><br>12-Oct-11  |               |   |   |                 |                |                  |                  |   |                 |                      | <b>Location:</b><br>140 - QBM       |          |
| <b>Project #:</b><br>PR-08-043   |               |   |   |                 |                |                  |                  |   |                 |                      | <b>Inspector (s):</b><br>BM, JB, DJ |          |
| Building Materials:  |               |   |   | ACM Assessment: |                |                  |                  |   |                 | Report Reference:    |                                     |          |
| Location:  | Homo. Mat. #: | Material Description:   | System:   | ACM (Y/N):      | Friable (Y/N): | ACM Type:        | Quantity:        | Condition (G,F,P):  | Access (A,B,C): | Response / Comments: | Drawing #:                          | Photo #: |
| Floor  | na            | 12"x12" FT (white/grey)   | Floor   | N               | -              | -                | -                | -   | -               | newer                | -                                   | -        |
| Walls  | 18            | Smooth plaster  | Wall  | Y               | N              | 0.5-5% Tremolite | 31m <sup>2</sup> | G   | B               | O & M                | 1-4                                 | -        |
|  | na            | Drywall   | Wall  | N               | -              | -                | -                | -   | -               | -                    | -                                   | -        |
| Ceiling  | na            | 2'x4' CT (white strata)   | Ceiling   | N               | -              | -                | -                | -   | -               | -                    | -                                   | -        |
| Above Ceiling  | na            | FG PI & FI  | All   | N               | -              | -                | -                | -   | -               | -                    | -                                   | -        |
|  | na            | Foam PI   | Chiller   | N               | -              | -                | -                | -   | -               | -                    | -                                   | -        |
|  | 18            | Smooth plaster  | Ceiling   | Y               | N              | 0.5-5% Tremolite | 16m <sup>2</sup> | G   | B               | O & M                | 1-4                                 | -        |
| Below Ceiling  | na            | FG PI & FI  | All   | N               | -              | -                | -                | -   | -               | -                    | -                                   | -        |
| <b>Material Description:</b><br>MJC: Mud Joint Compound<br>FI: Fitting Insulation:<br>PI: Pipe Insulation<br>DI: Duct Insulation<br>FG: Fibreglass<br>FT: Floor Tile<br>CT: Ceiling Tile |               |   | <b>Criteria for Condition of an ACM:</b><br>G: ACM is in GOOD condition; No damage<br>F: ACM is in FAIR condition; Less than 2% damage<br>P: ACM is in POOR condition; Greater than 2% damage |                 |                |                  |                  | <b>Criteria for Access to an area containing ACM:</b><br>A: All building occupants may have access to this area.<br>B: Restricted to building staff only.<br>C: Areas of the building behind walls or ceiling system. |                 |                      |                                     |          |





| <b>Building ID:</b><br>M23A  |               | Notes:<br>No access above solid plaster ceiling - ACMs may be present |   |                        |                |                   |   |                    |                 |                      | <b>Functional Space:</b><br>1030    |          |
|--|---------------|---|---|------------------------|----------------|-------------------|---|--------------------|-----------------|----------------------|-------------------------------------|----------|
| <b>Date:</b><br>12-Oct-11  |               |   |   |                        |                |                   |   |                    |                 |                      | <b>Location:</b><br>See notes       |          |
| <b>Project #:</b><br>PR-08-043   |               |   |   |                        |                |                   |   |                    |                 |                      | <b>Inspector (s):</b><br>BM, JB, DJ |          |
| <b>Building Materials:</b>   |               |   |   | <b>ACM Assessment:</b> |                |                   |   |                    |                 |                      | <b>Report Reference:</b>            |          |
| Location:  | Homo. Mat. #: | Material Description:   | System:   | ACM (Y/N):             | Friable (Y/N): | ACM Type:         | Quantity:   | Condition (G,F,P): | Access (A,B,C): | Response / Comments: | Drawing #:                          | Photo #: |
| Floor  | na            | Terrazzo  | Floor   | N                      | -              | -                 | -   | -                  | -               | -                    | -                                   | -        |
| Walls  | 18            | Smooth plaster  | Wall  | Y                      | N              | 0.5-5% Tremolite  | 16m <sup>2</sup>  | G                  | B               | O & M                | 1-4                                 | -        |
|  | na            | Drywall   | Wall  | N                      | -              | -                 | -   | -                  | -               | -                    | -                                   | -        |
| Ceiling  | na            | 2'x4' CT (white strata)   | Ceiling   | N                      | -              | -                 | -   | -                  | -               | -                    | -                                   | -        |
| Above Ceiling  | na            | FG PI, FI & DI  | All   | N                      | -              | -                 | -   | -                  | -               | -                    | -                                   | -        |
|  | na            | Foam PI   | Chiller   | N                      | -              | -                 | -   | -                  | -               | -                    | -                                   | -        |
|  | 18            | Smooth plaster  | Ceiling   | Y                      | N              | 0.5-5% Tremolite  | 18m <sup>2</sup>  | G                  | B               | O & M                | 1-4                                 | -        |
|  | 8             | MJC FI  | Steam   | Y                      | Y              | >75% Chrysotile   | 2   | G                  | C               | O & M                | 1-1                                 | -        |
|  | 8             | MJC FI  | Condensate  | Y                      | Y              | >75% Chrysotile   | 1   | G                  | C               | O & M                | 1-1                                 | -        |
|  | 2             | MJC FI  | Chiller   | Y                      | Y              | 50-75% Chrysotile | 2   | G                  | C               | O & M                | 1-1                                 | -        |
| Below Ceiling  | na            | FG PI & FI  | All   | N                      | -              | -                 | -   | -                  | -               | -                    | -                                   | -        |
| <b>Material Description:</b><br>MJC: Mud Joint Compound<br>FI: Fitting Insulation:<br>PI: Pipe Insulation<br>DI: Duct Insulation<br>FG: Fibreglass<br>FT: Floor Tile<br>CT: Ceiling Tile |               |   | <b>Criteria for Condition of an ACM:</b><br>G: ACM is in GOOD condition; No damage<br>F: ACM is in FAIR condition; Less than 2% damage<br>P: ACM is in POOR condition; Greater than 2% damage |                        |                |                   | <b>Criteria for Access to an area containing ACM:</b><br>A: All building occupants may have access to this area.<br>B: Restricted to building staff only.<br>C: Areas of the building behind walls or ceiling system. |                    |                 |                      |                                     |          |





















| <b>Building ID:</b><br>M23A   |               | Notes:                  |   |                 |                |                 |           |   |                 |                      | <b>Functional Space:</b><br>1039    |          |
|---|---------------|-------------------------|---|-----------------|----------------|-----------------|-----------|---|-----------------|----------------------|-------------------------------------|----------|
| <b>Date:</b><br>12-Oct-11   |               |                         |   |                 |                |                 |           |   |                 |                      | <b>Location:</b><br>Room 158        |          |
| <b>Project #:</b><br>PR-08-043  |               |                         |   |                 |                |                 |           |   |                 |                      | <b>Inspector (s):</b><br>BM, JB, DJ |          |
|   |               |                         |   |                 |                |                 |           |   |                 |                      |                                     |          |
| Building Materials:   |               |                         |   | ACM Assessment: |                |                 |           |   |                 |                      | Report Reference:                   |          |
| Location:   | Homo. Mat. #: | Material Description:   | System:   | ACM (Y/N):      | Friable (Y/N): | ACM Type:       | Quantity: | Condition (G,F,P):  | Access (A,B,C): | Response / Comments: | Drawing #:                          | Photo #: |
| Floor   | 5             | 12"x12" FT (tan/black)  | Floor   | N               | -              | -               | -         | -   | -               | -                    | -                                   | -        |
| Walls   | na            | Ceramic tile            | Wall  | N               | -              | -               | -         | -   | -               | -                    | -                                   | -        |
| Ceiling   | na            | 2'x4' CT (white strata) | Ceiling   | N               | -              | -               | -         | -   | -               | -                    | -                                   | -        |
| Above Ceiling   | na            | Metal                   | Ceiling   | N               | -              | -               | -         | -   | -               | -                    | -                                   | -        |
|   | 8             | MJC FI                  | HWH   | Y               | Y              | >75% Chrysotile | 4         | F   | C               | O & M                | 1-1                                 | -        |
|   | na            | FG PI, FI & DI          | All   | N               | -              | -               | -         | -   | -               | -                    | -                                   | -        |
| Below Ceiling   | na            | -                       | -   | -               | -              | -               | -         | -   | -               | -                    | -                                   | -        |
| <b>Material Description:</b><br>MJC: Mud Joint Compound<br>FI: Fitting Insulation<br>PI: Pipe Insulation<br>DI: Duct Insulation<br>FG: Fibreglass<br>FT: Floor Tile<br>CT: Ceiling Tile |               |                         | <b>Criteria for Condition of an ACM:</b><br>G: ACM is in GOOD condition; No damage<br>F: ACM is in FAIR condition; Less than 2% damage<br>P: ACM is in POOR condition; Greater than 2% damage |                 |                |                 |           | <b>Criteria for Access to an area containing ACM:</b><br>A: All building occupants may have access to this area.<br>B: Restricted to building staff only.<br>C: Areas of the building behind walls or ceiling system. |                 |                      |                                     |          |





| <b>Building ID:</b><br>M23A   |               | Notes:                  |   |                 |                |                 |           |   |                 |                      |                   | <b>Functional Space:</b><br>1041    |  |
|---|---------------|-------------------------|---|-----------------|----------------|-----------------|-----------|---|-----------------|----------------------|-------------------|-------------------------------------|--|
| <b>Date:</b><br>12-Oct-11   |               |                         |   |                 |                |                 |           |   |                 |                      |                   | <b>Location:</b><br>Room 160        |  |
| <b>Project #:</b><br>PR-08-043  |               |                         |   |                 |                |                 |           |   |                 |                      |                   | <b>Inspector (s):</b><br>BM, JB, DJ |  |
| Building Materials:   |               |                         |   | ACM Assessment: |                |                 |           |   |                 |                      | Report Reference: |                                     |  |
| Location:   | Homo. Mat. #: | Material Description:   | System:   | ACM (Y/N):      | Friable (Y/N): | ACM Type:       | Quantity: | Condition (G,F,P):  | Access (A,B,C): | Response / Comments: | Drawing #:        | Photo #:                            |  |
| Floor   | na            | Terrazzo                | Floor   | N               | -              | -               | -         | -   | -               | -                    | -                 | -                                   |  |
| Walls   | na            | Ceramic tile            | Wall  | N               | -              | -               | -         | -   | -               | -                    | -                 | -                                   |  |
| Ceiling   | na            | 2'x4' CT (white strata) | Ceiling   | N               | -              | -               | -         | -   | -               | -                    | -                 | -                                   |  |
| Above Ceiling   | na            | Metal                   | Ceiling   | N               | -              | -               | -         | -   | -               | -                    | -                 | -                                   |  |
|   | 8             | MJC FI                  | HWH   | Y               | Y              | >75% Chrysotile | 4         | G   | C               | O & M                | 1-1               | -                                   |  |
|   | na            | FG PI, FI & DI          | All   | N               | -              | -               | -         | -   | -               | -                    | -                 | -                                   |  |
| Below Ceiling   | na            | -                       | -   | -               | -              | -               | -         | -   | -               | -                    | -                 | -                                   |  |
| <b>Material Description:</b><br>MJC: Mud Joint Compound<br>FI: Fitting Insulation<br>PI: Pipe Insulation<br>DI: Duct Insulation<br>FG: Fibreglass<br>FT: Floor Tile<br>CT: Ceiling Tile |               |                         | <b>Criteria for Condition of an ACM:</b><br>G: ACM is in GOOD condition; No damage<br>F: ACM is in FAIR condition; Less than 2% damage<br>P: ACM is in POOR condition; Greater than 2% damage |                 |                |                 |           | <b>Criteria for Access to an area containing ACM:</b><br>A: All building occupants may have access to this area.<br>B: Restricted to building staff only.<br>C: Areas of the building behind walls or ceiling system. |                 |                      |                   |                                     |  |





| <b>Building ID:</b><br>M23A   |               | Notes:                  |   |                 |                |                   |                 |   |                 |                      |                   | <b>Functional Space:</b><br>1043    |  |
|---|---------------|-------------------------|---|-----------------|----------------|-------------------|-----------------|---|-----------------|----------------------|-------------------|-------------------------------------|--|
| <b>Date:</b><br>12-Oct-11   |               |                         |   |                 |                |                   |                 |   |                 |                      |                   | <b>Location:</b><br>Room 164        |  |
| <b>Project #:</b><br>PR-08-043  |               |                         |   |                 |                |                   |                 |   |                 |                      |                   | <b>Inspector (s):</b><br>BM, JB, DJ |  |
| Building Materials:   |               |                         |   | ACM Assessment: |                |                   |                 |   |                 |                      | Report Reference: |                                     |  |
| Location:   | Homo. Mat. #: | Material Description:   | System:   | ACM (Y/N):      | Friable (Y/N): | ACM Type:         | Quantity:       | Condition (G,F,P):  | Access (A,B,C): | Response / Comments: | Drawing #:        | Photo #:                            |  |
| Floor   | na            | Ceramic tile            | Floor   | N               | -              | -                 | -               | -   | -               | -                    | -                 | -                                   |  |
| Walls   | na            | Ceramic tile            | Wall  | N               | -              | -                 | -               | -   | -               | -                    | -                 | -                                   |  |
| Ceiling   | na            | 2'x4' CT (white strata) | Ceiling   | N               | -              | -                 | -               | -   | -               | -                    | -                 | -                                   |  |
| Above Ceiling   | 8             | MJC FI                  | HWH   | Y               | Y              | >75% Chrysotile   | 6               | G   | C               | O & M                | 1-1               | -                                   |  |
|   | 6             | FG w/mud DI             | HVAC  | Y               | Y              | >75% Chrysotile   | 8m <sup>2</sup> | G   | C               | O & M                | 1-1               | -                                   |  |
|   | na            | FG PI, DI               | All   | N               | -              | -                 | -               | -   | -               | -                    | -                 | -                                   |  |
| Below Ceiling   | na            | FG PI & FI              | DCW   | -               | -              | -                 | -               | -   | -               | -                    | -                 | -                                   |  |
|   | 2             | MJC FI                  | DCW   | Y               | Y              | 50-75% Chrysotile | 7               | G   | B               | O & M                | 1-1               | -                                   |  |
| <b>Material Description:</b><br>MJC: Mud Joint Compound<br>FI: Fitting Insulation<br>PI: Pipe Insulation<br>DI: Duct Insulation<br>FG: Fibreglass<br>FT: Floor Tile<br>CT: Ceiling Tile |               |                         | <b>Criteria for Condition of an ACM:</b><br>G: ACM is in GOOD condition; No damage<br>F: ACM is in FAIR condition; Less than 2% damage<br>P: ACM is in POOR condition; Greater than 2% damage |                 |                |                   |                 | <b>Criteria for Access to an area containing ACM:</b><br>A: All building occupants may have access to this area.<br>B: Restricted to building staff only.<br>C: Areas of the building behind walls or ceiling system. |                 |                      |                   |                                     |  |





| <b>Building ID:</b><br>M23A  |               | Notes:<br>The following samples were collected in this area: M23A-16A<br>Duct: 1 damaged section of FG w/mud duct insulation requires 1 removal (.5m2) - see photo A42<br>** No access above solid plaster ceiling in vestibule #2 - ACMs may be present |   |                 |                |                   |   |                    |                 |                      | <b>Functional Space:</b><br>1044       |          |
|--|---------------|--|---|-----------------|----------------|-------------------|---|--------------------|-----------------|----------------------|--|----------|
| <b>Date:</b><br>12-Oct-11  |               |  |   |                 |                |                   |   |                    |                 |                      | <b>Location:</b><br>1st floor corridor |          |
| <b>Project #:</b><br>PR-08-043   |               |  |   |                 |                |                   |   |                    |                 |                      | <b>Inspector (s):</b><br>BM, JB, DJ    |          |
| Building Materials:  |               |  |   | ACM Assessment: |                |                   |   |                    |                 | Report Reference:    |  |          |
| Location:  | Homo. Mat. #: | Material Description:  | System:   | ACM (Y/N):      | Friable (Y/N): | ACM Type:         | Quantity:   | Condition (G,F,P): | Access (A,B,C): | Response / Comments: | Drawing #:                             | Photo #: |
| Floor  | na            | 12"x12" FT (white/grey)  | Floor   | N               | -              | -                 | -   | -                  | -               | newer                | -                                      | -        |
| Walls  | na            | Ceramic tile   | Wall  | N               | -              | -                 | -   | -                  | -               | newer                | -                                      | -        |
|  | 18            | Smooth plaster   | Wall  | Y               | N              | 0.5-5% Tremolite  | 419m <sup>2</sup>   | G                  | B               | O & M                | 1-4                                    | -        |
| Ceiling  | na            | 2'x4' CT (white strata)  | Ceiling   | N               | -              | -                 | -   | -                  | -               | newer                | -                                      | -        |
| Above Ceiling  | na            | FG PI  | All   | N               | -              | -                 | -   | -                  | -               | -                    | -                                      | -        |
|  | 6             | FG w/mud DI  | HVAC  | Y               | Y              | >75% Chrysotile   | 96m <sup>2</sup>  | G                  | C               | O & M                | 1-1                                    | -        |
|  | 2             | MJC FI   | Chiller   | Y               | Y              | 50-75% Chrysotile | 17  | G                  | C               | O & M                | 1-1                                    | -        |
|  | 6             | FG w/mud DI  | HVAC  | Y               | Y              | >75% Chrysotile   | 0.5m <sup>2</sup>   | P                  | C               | 1 removal            | 1-2                                    | A42      |
|  | 16            | Grey thermal patch   | Ceiling   | N               | -              | -                 | -   | -                  | -               | -                    | -                                      | -        |
|  | 8             | MJC FI   | HWH   | Y               | Y              | >75% Chrysotile   | 22  | G                  | C               | O & M                | 1-1                                    | -        |
| Below Ceiling  | na            | FG PI  | All   | N               | -              | -                 | -   | -                  | -               | -                    | -                                      | -        |
|  | 2             | MJC FI   | Chiller   | Y               | Y              | 50-75% Chrysotile | 2   | G                  | B               | O & M                | 1-1                                    | -        |
| <b>Material Description:</b><br>MJC: Mud Joint Compound<br>FI: Fitting Insulation:<br>PI: Pipe Insulation<br>DI: Duct Insulation<br>FG: Fibreglass<br>FT: Floor Tile<br>CT: Ceiling Tile |               |  | <b>Criteria for Condition of an ACM:</b><br>G: ACM is in GOOD condition; No damage<br>F: ACM is in FAIR condition; Less than 2% damage<br>P: ACM is in POOR condition; Greater than 2% damage |                 |                |                   | <b>Criteria for Access to an area containing ACM:</b><br>A: All building occupants may have access to this area.<br>B: Restricted to building staff only.<br>C: Areas of the building behind walls or ceiling system. |                    |                 |                      |  |          |





| <b>Building ID:</b><br>M23A<br><b>Date:</b><br>11-Oct-11<br><b>Project #:</b><br>PR-08-043   |               | <b>Notes:</b><br>The following samples were collected in this area: M23A-04F<br><br>Location: Stairwell B |   |                 |                |                  |   |                    |                 | <b>Functional Space:</b><br>SW01<br><b>Location:</b><br>See notes<br><b>Inspector (s):</b><br>BM, JB, DJ |            |          |
|--|---------------|---|---|-----------------|----------------|------------------|---|--------------------|-----------------|--|------------|----------|
| Building Materials:  |               |   |   | ACM Assessment: |                |                  |   |                    |                 | Report Reference:  |            |          |
| Location:  | Homo. Mat. #: | Material Description:   | System:   | ACM (Y/N):      | Friable (Y/N): | ACM Type:        | Quantity:   | Condition (G,F,P): | Access (A,B,C): | Response / Comments:   | Drawing #: | Photo #: |
| Floor  | na            | 12"x12" FT (white/grey)   | Floor   | N               | -              | -                | -   | -                  | -               | newer  | -          | -        |
|  | na            | Rubber  | Floor   | N               | -              | -                | -   | -                  | -               | newer  | -          | -        |
| Walls  | 18            | Smooth plaster  | Wall  | Y               | N              | 0.5-5% Tremolite | 122m <sup>2</sup>   | G                  | B               | O & M  | 1-4        | -        |
| Ceiling  | 18            | Smooth plaster  | Ceiling   | Y               | N              | 0.5-5% Tremolite | 4m <sup>2</sup>   | G                  | B               | O & M  | 1-4        | -        |
| Above Ceiling  | na            | -   | -   | -               | -              | -                | -   | -                  | -               | newer  | -          | -        |
| Below Ceiling  | na            | -   | -   | -               | -              | -                | -   | -                  | -               | newer  | -          | -        |
| <b>Material Description:</b><br>MJC: Mud Joint Compound<br>FI: Fitting Insulation:<br>PI: Pipe Insulation<br>DI: Duct Insulation<br>FG: Fibreglass<br>FT: Floor Tile<br>CT: Ceiling Tile |               |   | <b>Criteria for Condition of an ACM:</b><br>G: ACM is in GOOD condition; No damage<br>F: ACM is in FAIR condition; Less than 2% damage<br>P: ACM is in POOR condition; Greater than 2% damage |                 |                |                  | <b>Criteria for Access to an area containing ACM:</b><br>A: All building occupants may have access to this area.<br>B: Restricted to building staff only.<br>C: Areas of the building behind walls or ceiling system. |                    |                 |  |            |          |



| <b>Building ID:</b><br>M23A<br><b>Date:</b><br>12-Oct-11<br><b>Project #:</b><br>PR-08-043   |               |                         |   | Notes:<br>No access above solid ceiling - ACMs may be present |                |                  |   |                    |                 | <b>Functional Space:</b><br>SW02<br><b>Location:</b><br>Stairwell D<br><b>Inspector (s):</b><br>BM, JB, DJ |            |          |
|--|---------------|-------------------------|---|---|----------------|------------------|---|--------------------|-----------------|--|------------|----------|
| Building Materials:  |               |                         |   | ACM Assessment:   |                |                  |   |                    |                 | Report Reference:  |            |          |
| Location:  | Homo. Mat. #: | Material Description:   | System:   | ACM (Y/N):  | Friable (Y/N): | ACM Type:        | Quantity:   | Condition (G,F,P): | Access (A,B,C): | Response / Comments:   | Drawing #: | Photo #: |
| Floor  | na            | 12"x12" FT (white/grey) | Floor   | N   | -              | -                | -   | -                  | -               | newer  | -          | -        |
| Walls  | 18            | Smooth plaster          | Wall  | Y   | N              | 0.5-5% Tremolite | 95m <sup>2</sup>  | G                  | B               | O & M  | 1-4        | -        |
| Ceiling  | 18            | Smooth plaster          | Ceiling   | Y   | N              | 0.5-5% Tremolite | 16m <sup>2</sup>  | G                  | B               | O & M  | 1-4        | -        |
| Above Ceiling  | na            | -                       | -   | -   | -              | -                | -   | -                  | -               | -  | -          | -        |
| Below Ceiling  | na            | -                       | -   | -   | -              | -                | -   | -                  | -               | -  | -          | -        |
| <b>Material Description:</b><br>MJC: Mud Joint Compound<br>FI: Fitting Insulation:<br>PI: Pipe Insulation<br>DI: Duct Insulation<br>FG: Fibreglass<br>FT: Floor Tile<br>CT: Ceiling Tile |               |                         | <b>Criteria for Condition of an ACM:</b><br>G: ACM is in GOOD condition; No damage<br>F: ACM is in FAIR condition; Less than 2% damage<br>P: ACM is in POOR condition; Greater than 2% damage |   |                |                  | <b>Criteria for Access to an area containing ACM:</b><br>A: All building occupants may have access to this area.<br>B: Restricted to building staff only.<br>C: Areas of the building behind walls or ceiling system. |                    |                 |  |            |          |



| <b>Building ID:</b><br>M23A  |               | Notes:<br>No access above solid ceiling - ACMs may be present |   |                 |                |                  |                  |   |                 |                      | <b>Functional Space:</b><br>SW03    |          |
|--|---------------|---|---|-----------------|----------------|------------------|------------------|---|-----------------|----------------------|-------------------------------------|----------|
| <b>Date:</b><br>12-Oct-11  |               |   |   |                 |                |                  |                  |   |                 |                      | <b>Location:</b><br>Stairwell C     |          |
| <b>Project #:</b><br>PR-08-043   |               |   |   |                 |                |                  |                  |   |                 |                      | <b>Inspector (s):</b><br>BM, JB, DJ |          |
|  |               |   |   |                 |                |                  |                  |   |                 |                      |                                     |          |
| Building Materials:  |               |   |   | ACM Assessment: |                |                  |                  |   |                 |                      | Report Reference:                   |          |
| Location:  | Homo. Mat. #: | Material Description:   | System:   | ACM (Y/N):      | Friable (Y/N): | ACM Type:        | Quantity:        | Condition (G,F,P):  | Access (A,B,C): | Response / Comments: | Drawing #:                          | Photo #: |
| Floor  | na            | 12"x12" Ft (white/grey)                                       | Floor   | N               | -              | -                | -                | -   | -               | newer                | -                                   | -        |
| Walls  | 18            | Smooth plaster  | Wall  | Y               | N              | 0.5-5% Tremolite | 59m <sup>2</sup> | G   | B               | O & M                | 1-4                                 | -        |
| Ceiling  | 18            | Smooth plaster  | Ceiling   | Y               | N              | 0.5-5% Tremolite | 4m <sup>2</sup>  | G   | B               | O & M                | 1-4                                 | -        |
| Above Ceiling  | na            | FG PI, FI & DI  | All   | N               | -              | -                | -                | -   | -               | -                    | -                                   | -        |
| Below Ceiling  | na            | -   | -   | -               | -              | -                | -                | -   | -               | -                    | -                                   | -        |
| <b>Material Description:</b><br>MJC: Mud Joint Compound<br>FI: Fitting Insulation:<br>PI: Pipe Insulation<br>DI: Duct Insulation<br>FG: Fibreglass<br>FT: Floor Tile<br>CT: Ceiling Tile |               |   | <b>Criteria for Condition of an ACM:</b><br>G: ACM is in GOOD condition; No damage<br>F: ACM is in FAIR condition; Less than 2% damage<br>P: ACM is in POOR condition; Greater than 2% damage |                 |                |                  |                  | <b>Criteria for Access to an area containing ACM:</b><br>A: All building occupants may have access to this area.<br>B: Restricted to building staff only.<br>C: Areas of the building behind walls or ceiling system. |                 |                      |                                     |          |



| <b>Building ID:</b><br>M23A  |               | Notes:<br>No access above solid ceiling - ACMs may be present |   |                 |                |                  |                  |   |                 |                      | <b>Functional Space:</b><br>SW04    |          |
|--|---------------|---|---|-----------------|----------------|------------------|------------------|---|-----------------|----------------------|-------------------------------------|----------|
| <b>Date:</b><br>12-Oct-11  |               |   |   |                 |                |                  |                  |   |                 |                      | <b>Location:</b><br>Stairwell A     |          |
| <b>Project #:</b><br>PR-08-043   |               |   |   |                 |                |                  |                  |   |                 |                      | <b>Inspector (s):</b><br>BM, JB, DJ |          |
|  |               |   |   |                 |                |                  |                  |   |                 |                      |                                     |          |
| Building Materials:  |               |   |   | ACM Assessment: |                |                  |                  |   |                 |                      | Report Reference:                   |          |
| Location:  | Homo. Mat. #: | Material Description:   | System:   | ACM (Y/N):      | Friable (Y/N): | ACM Type:        | Quantity:        | Condition (G,F,P):  | Access (A,B,C): | Response / Comments: | Drawing #:                          | Photo #: |
| Floor  | na            | 12"x12" Ft (white/grey)                                       | Floor   | N               | -              | -                | -                | -   | -               | newer                | -                                   | -        |
| Walls  | 18            | Smooth plaster  | Wall  | Y               | N              | 0.5-5% Tremolite | 83m <sup>2</sup> | G   | B               | O & M                | 1-4                                 | -        |
| Ceiling  | 18            | Smooth plaster  | Ceiling   | Y               | N              | 0.5-5% Tremolite | 4m <sup>2</sup>  | G   | B               | O & M                | 1-4                                 | -        |
| Above Ceiling  | na            | FG PI, FI & DI  | All   | N               | -              | -                | -                | -   | -               | -                    | -                                   | -        |
| Below Ceiling  | na            | -   | -   | -               | -              | -                | -                | -   | -               | -                    | -                                   | -        |
| <b>Material Description:</b><br>MJC: Mud Joint Compound<br>FI: Fitting Insulation:<br>PI: Pipe Insulation<br>DI: Duct Insulation<br>FG: Fibreglass<br>FT: Floor Tile<br>CT: Ceiling Tile |               |   | <b>Criteria for Condition of an ACM:</b><br>G: ACM is in GOOD condition; No damage<br>F: ACM is in FAIR condition; Less than 2% damage<br>P: ACM is in POOR condition; Greater than 2% damage |                 |                |                  |                  | <b>Criteria for Access to an area containing ACM:</b><br>A: All building occupants may have access to this area.<br>B: Restricted to building staff only.<br>C: Areas of the building behind walls or ceiling system. |                 |                      |                                     |          |





| <b>Building ID:</b><br>M23A  |               | Notes:<br>The following samples were collected in this area: M23A-17(A-G) |   |                 |                |           |           |   |                 |                      | <b>Functional Space:</b><br>EX01    |          |
|--|---------------|---|---|-----------------|----------------|-----------|-----------|---|-----------------|----------------------|-------------------------------------|----------|
| <b>Date:</b><br>13-Oct-11  |               |   |   |                 |                |           |           |   |                 |                      | <b>Location:</b><br>See notes       |          |
| <b>Project #:</b><br>PR-08-043   |               |   |   |                 |                |           |           |   |                 |                      | <b>Inspector (s):</b><br>BM, JB, DJ |          |
| Location: Building exterior  |               |   |   |                 |                |           |           |   |                 |                      |                                     |          |
| Building Materials:  |               |   |   | ACM Assessment: |                |           |           |   |                 |                      | Report Reference:                   |          |
| Location:  | Homo. Mat. #: | Material Description:   | System:   | ACM (Y/N):      | Friable (Y/N): | ACM Type: | Quantity: | Condition (G,F,P):  | Access (A,B,C): | Response / Comments: | Drawing #:                          | Photo #: |
| Floor  | na            | -   | -   | -               | -              | -         | -         | -   | -               | -                    | -                                   | -        |
| Walls  | 17            | Exterior texture finish   | Wall  | N               | -              | -         | -         | -   | -               | -                    | -                                   | -        |
| Ceiling  | na            | -   | -   | -               | -              | -         | -         | -   | -               | -                    | -                                   | -        |
| Above Ceiling  | na            | -   | -   | -               | -              | -         | -         | -   | -               | -                    | -                                   | -        |
| Below Ceiling  | na            | -   | -   | -               | -              | -         | -         | -   | -               | -                    | -                                   | -        |
| <b>Material Description:</b><br>MJC: Mud Joint Compound<br>FI: Fitting Insulation:<br>PI: Pipe Insulation<br>DI: Duct Insulation<br>FG: Fibreglass<br>FT: Floor Tile<br>CT: Ceiling Tile |               |   | <b>Criteria for Condition of an ACM:</b><br>G: ACM is in GOOD condition; No damage<br>F: ACM is in FAIR condition; Less than 2% damage<br>P: ACM is in POOR condition; Greater than 2% damage |                 |                |           |           | <b>Criteria for Access to an area containing ACM:</b><br>A: All building occupants may have access to this area.<br>B: Restricted to building staff only.<br>C: Areas of the building behind walls or ceiling system. |                 |                      |                                     |          |